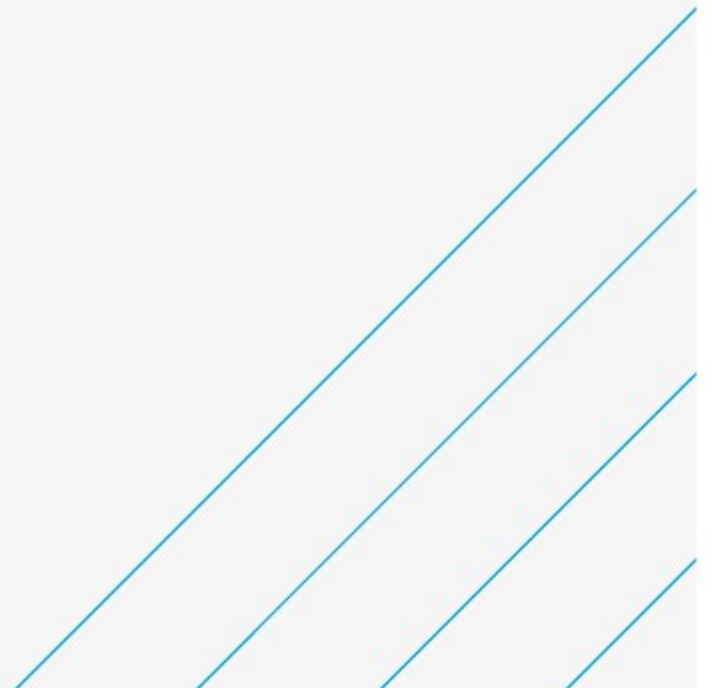


Next Generation Data DC3, Newport

Geo-environmental Desk Study

Next Generation Data

October 2020



Notice

This document and its contents have been prepared, and are intended solely as information for, Next Generation Data use in relation to the proposed development of a new data centre at Imperial Park in Newport, South Wales.

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Figure 1: Site Location Plan

1. Introduction

1.1. General

Atkins has been commissioned to undertake a Geo-Environmental Desk Study of available existing site investigation information in relation to a development proposal by the Client, Next Generation Data (NGD), for development of a new Data Centre at Imperial Park, Newport (herein referred to as the site).

1.2. Scope and Objective

This report comprises a review of available statutory and non-statutory factual information, and other evidence from historical reports, relating to the environmental condition of the site. The report establishes the overall site condition by identifying Potential Contaminant Linkages (PCLs), providing an appraisal of the environmental risks posed and the interaction of those risks with the surrounding environment. This informs potential environmental liabilities from ground conditions and land contamination associated with the site, assuming a proposed future commercial end use.

It is understood that the proposed structures comprise of a two storey warehouse structure with undercroft and associated perimeter car park parking. The site is currently vacant.

1.3. Limitations

This report was prepared by Atkins for NGD for the specific purpose of informing the Client of geo-environmental conditions and potential risks.

The findings and opinions conveyed via this report are based on information obtained from a variety of sources as detailed within this report. Atkins cannot and does not guarantee the authenticity or reliability of the third-party information.

1.4. Information Sources

The sources consulted for this Desk Study are detailed in Table 1-1.

Table 1-1 - Information Sources

Type of Information	Sources	Details
Historical Maps	Envirocheck Report (Appendix A)	Ordnance Survey County Series (scale 1:10,560) Ordnance Survey Plan (scale 1:10,000) Raster Mapping (scale 1:10,000) - obtained as part of the Envirocheck Report for this scheme (Landmark Information Group, 2020))
Geological	Envirocheck Report (Appendix A) Online Database British Geological Survey (BGS)	Geology Maps (scale 1:50,000) (Landmark Information Group, 2020) British Geological Survey (BGS) Online GeoIndex and Geology of Britain Viewer (British Geological Survey, 2020) (British Geological Survey, 2020b) Coal Authority Online Databases and Resources
Environmental	Envirocheck Report (Appendix A)	Envirocheck Report Datasheets (Landmark Information Group, 2020) DEFRA Multi-Agency Geographic Information for the Countryside (MAGIC) (DEFRA, 2020)
UXO	Zetica (Appendix C)	Zetica Unexploded Bomb Risk Map and Pre desk Study Assessment Report (Zetica UXO, 2020)

2. Site Description

2.1. Introduction

The site is situated in the east of the Imperial Park Estate in Coedkernew, Newport, approximately 175 m south of the A48, 550 m south of the M4 and 3.5 km to the south-west of the centre of Newport. The Ordnance Survey national grid reference for the centre of the site is 328489,184493. The total site area covers 23,444 m². Topographically, the site is approximately level at 14.5 m above Ordnance Datum (AOD), with limited gradient changes. The access to the site is from the south-west via North Lake Drive and Dyffrn Lane 100 m south-west of the site.

The surrounding area comprises the following features:

- North: undeveloped open land, and car park associated with the IQE data centre;
- East: South Lake Drive and Imperial Courtyard Business Park beyond, 30 m from the site;
- South: vegetated scrub, shrubs and trees with landscaped parkland beyond; and,
- West: undeveloped open land and IQE data centre, 77 m from the site;

A site location plan is provided as Figure 1.

2.1.1. Site Walkover

A site walkover was undertaken by Atkins on 3 September 2020. The site entrance is currently barricaded with eight concrete blocks placed across the access road in front of a double palisade gate. The site was secure, with no signs of fly tipping or illegal entry. No obvious visual or olfactory evidence of ground contamination was noted on site.

The site is currently vacant land comprising a mixture of hardstanding and gravel surfacing.

The gravel surfacing across the majority of the site comprises densely compacted construction fill with evidence of anthropogenic material including metal, brick and crushed concrete. Gravel and scrub vegetation is present within the centre of the site with multiple manhole covers and utility service pipes and trenches. Several large above ground concrete pads are present on-site.

A hardstanding asphalt car park is located in the south-west corner of the site, which is secured with chain-link fencing. Bordering the car park to the north is an area of dense scrub and young trees. A rectangular concrete pad is present in the central east of the site, with an approximate size of 0.0825 hectares. Hardstanding access roads bound the site on the east, south and west.

An area of dense vegetation has developed north of the car park with various species of trees and scrub established. The boundary road remains present and intact although the asphalt car park has in places been damaged by vegetation.

One stockpile of reddish-brown sandy gravel, assumed to be left over engineering fill, is present in the central north of the site.

A selection of photos from the site walkover are presented in Appendix B.

2.2. Proposed Development

The proposed development comprises a new data facility, comprising two buildings connected by a central atrium. The development includes four floors of data hall space, ancillary office, welfare facilities and back-up generators. The total external building footprint is 6,432 m².

External space comprises 6 m wide internal perimeter access roads, parking and Sustainable Drainage Systems (SuDs). A 4 m high security fence will be erected on the northern, eastern and southern boundaries of the site.

3. Environmental Setting

3.1. Historical Development

With reference to historical Ordnance Survey plans, obtained as part of the Envirocheck Report (Landmark Information Group, 2020) a summary of the commercial and industrial historical development of the site is provided in Table 3-1 and Section 3.7.1 below.

Table 3-1 - Summary of Historical Development

Date and Scale	On-site Features and Development	Off-site Features and Development (within 500m)
1883 1:2,500 1887 1:10,560 Ordnance Survey Plan	The site was occupied by open fields. A footpath crossed the southern half of the site, orientated north-east/south-west.	The surrounding area comprised open fields with scattered villages and farmsteads. A watercourse (Blackwall Reen), flowing south, was located 130 m east, orientated north/south. A gravel pit opencast quarry was located 250 m north-east of the site. An unnamed road, in the approximate location of the present day Celtic Way, was located 250 m west of the site, orientated north-west/south-east. An unnamed road, in the approximate location of the present day A48, was located 380 m north of the site, orientated north-east/south-west. A well and a spring are located 430 m south of the site. An unnamed watercourse, flowing south, was located 440 m east of the site, orientated north/south. Tredegar Park House (remains of) and landscaped estate was located 560 m to the north-east of the site.
1901 1:2500 1902 1:10,560 Ordnance Survey Plan	No significant change.	A gravel pits was located 500 m south of the site.
1920 1:2500 1922 1:10,560 Ordnance Survey Plan	No significant change.	Rises/springs were located 20 m north-west and south west on the line of the present day Celtic Way. A weir was located 300 m south-east of the site; fed by the Blackwall Reen. 130 m east of the site The gravel pit 400 m south of the site was not present, assumed to have been infilled.
1937 1:2500 1938 1:10,560 Ordnance Survey Plan	No significant change.	Residential development (Oak Cottages) was located 170 m north of the site.
1947 1:10,560 Aerial Photograph	No significant change.	No significant change.
1954 1:10,560 Ordnance Survey Plan	No site coverage.	No significant change.
1956 1:2500 Ordnance Survey Plan	No significant change.	No significant change.

Date and Scale	On-site Features and Development	Off-site Features and Development (within 500m)
1964 1:10,560 Ordnance Survey Plan	No significant change.	No significant change.
1970 1:10,000 Ordnance Survey Plan	No significant change.	The road, 120 m east of the site was named as Pencarn Lane. The road, 250 m west of the site was named as Dyffryn Lane. The gravel pit, 250 m east of the site was not present, assumed to have been infilled. Cleppa Park had been developed 500 m north-west of the site.
1982 1:10,000 Ordnance Survey Plan	No significant change.	Cleppa Park was identified as a "Field Research Station".
1983 1:10,000 Russian Military Plan	No significant change.	No significant change.
1992 1:10,000 1993 1:2500 Ordnance Survey Plan	An oval shaped feature partially covered the northern section of the site (potentially a pond or landscaped feature).	Outlines of the current Imperial Park estate roads were present including South Lake Drive 30 m east, North Lake Drive 100 m west and Celtic Way 250 m west. Dyffryn Lane was present adjacent to the west of Celtic Way. A roundabout was located 40 m north-east of the site connecting south Lake Driver and Imperial Drive which ran to the east towards Tredegar Park. A lake and weir were present 100 m south of the site. Commercial/industrial development, labelled as works and offices, was present 150 m north, 230m east and 315 m north of the site. A lake was located 270 m north of the site, identified as Celtic Lakes. The unnamed road, located 380 m north of the site, is named as the A48. Cleppa Park "Field Research Station", 500 m north of the site was not present. Cleppa Park Industrial Estate had been constructed 480 m north-east of the site.
1996 1:2500 Ordnance Survey Plan	No significant change.	No significant change.
1999 1:10,000 Ordnance Survey Plan	No significant change.	Further commercial buildings were located 30 m east of the site (Imperial Courtyard Business Park) A pumping station was located 500 m south of the site.
2000 1:10,000 Aerial Photograph	Development had taken place on site comprising a rectangular compound	North Lake Drive was not present, replaced by a series of roads in a grid pattern.

Date and Scale	On-site Features and Development	Off-site Features and Development (within 500m)
	of structures (Water Treatment Works). In the south-east of the site, a car park was present. The former oval shaped feature was not present	Rectangular warehouse type buildings were located 60 m to the north and 100 m east of the site. An electricity sub-station was located 60 m north and a sewage treatment plant 100 m north of the site.
2006 1:10,000 Ordnance Survey Plan	No significant change.	No significant change.
2016 1:10,000 Ordnance Survey Plan	The Water Treatment Works in the north-east of the site had been removed.	The warehouse 60 m north of the site had been removed. Commercial and residential development had taken place 100 m and 250 m south-east respectively
2020 1:10,000 Ordnance Survey Plan	No significant change.	No significant change.

3.1.1. Summary of Imperial Park Development

A Mott McDonald demolition report (Mott McDonald, 2013), produced for the Welsh Government, indicates that the site was originally developed in 2000 by the Welsh Assembly Government for the electronics company LG and comprised a complex of warehouse and support buildings. It is understood the site was never fully occupied. The utility and support buildings were demolished in 2013 and this included a waste water treatment plant on the site and an underground storage tank farm, central utilities building (CUB) and electricity sub-station off-site to the north. Overhead gantries, originally supporting pipework, and utility connections between the buildings, were also removed as part of the demolition.

The on-site water treatment plan was reported to comprise a control room, blower house, tank farm comprising 26 tanks and silos. The demolition report stated that the tanks were “as-new” and empty when demolished. This suggests that the plant was unlikely to have been brought into use or was used for a short period of time.

Aerial photographs dated 2011, viewed on Google Earth Pro (Google, 2020), show the water treatment works in the north-east corner of the site comprising five above ground wate tanks, four above ground storage tanks, four below ground tanks and seven separate rectangular buildings. A gantry was located on the northern boundary of the site, connecting services to the wider business park. The aerial photograph also shows areas of hardstanding for car parking in the south-west of the site. A later aerial photographs, dated 2013, shows the water treatment works in the process of demolition. In 2015, a photograph shows the former location of the works had been covered with a gravel capping layer.

3.2. Geology

The geology underlying the site has been reviewed with reference to the British Geological Survey (BGS) Opengeoscience online data (British Geological Survey, 2020). There is one historical BGS borehole located on the site, reference ST28SE133, which was progressed to 9 m below ground level (bgl). A summary of the ground conditions anticipated to be present on the site is provided in the sub-sections below.

3.2.1. Made Ground

No Made Ground is shown on BGS mapping. However, due to the previous industrial land use of the site, Made Ground is likely to be present associated with previous construction activities and land use.

3.2.2. Superficial Geology

Superficial deposits at the site comprise River Terrace Deposits, described by the BGS as typically comprising sand and gravel, locally with lenses of silt, clay or peat. The historical borehole log records the stratum, underlying topsoil, at depths of between 0.2 to 6.5 m bgl, with a thickness of 6.2 m.

3.2.3. Bedrock Geology

Bedrock of the Mercia Mudstone Group underlies the site. The St Maughans Formation outcrops between 15 m and 100 m to the north and west of the site. BGS mapping indicates that Mercia Mudstone lies above the St Maughans Formation in the stratigraphical sequence.

The BGS describes the Mercia Mudstone as red to green-grey mudstones and siltstones. The historical borehole log encountered the stratum at 6.5 m bgl, directly underlying the River Terrace Deposits, and comprising stiff silty sandy slightly gravelly clay, grading to weak mudstone at 8 m bgl to hole termination at 9 m bgl. The thickness of the stratum was not proven.

The St Maughans Formation is described by the BGS as Interbedded purple, brown and green sandstones and red mudstones. This stratum was not mapped as outcropping on the site and was not encountered in the on-site historical borehole. Off-site historical borehole log references ST28SE138, 150 m north and ST28SE128, 160 m west encountered the stratum at depths of 6.3 m bgl and 7.2 m bgl respectively.

3.2.4. Mining and Quarrying

With reference to BGS data and the Coal Authority online interactive map service (The Coal Authority, 2020), the site, and the surrounding area within 1 km of the site, is not located in an area of recorded historical, current or future proposed mining or quarrying.

3.3. Hydrogeology

Natural Resources Wales (NRW) classifies the River Terrace Deposits as a secondary A aquifer (British Geological Survey, 2020). The Mercia Mudstone Group is classified as a secondary B aquifer and the underlying St Maughans Formation is classified as a secondary A aquifer.

Data obtained from the NRW Lle geo-portal online environmental database (Natural Resources Wales, 2020) indicates that the site is not located on or within 1 km of a groundwater source protection zone (SPZ).

Groundwater is not recorded in the available historical BGS borehole records to their termination depth of up to 10 m bgl, on the site or in the surrounding area. Groundwater is likely to be encountered in the River Terrace Deposits and it is inferred that groundwater will be flowing to the south towards the Gwent Levels and Severn Estuary/Bristol Channel.

3.3.1. Groundwater Abstractions

Data from the Envirocheck report (Landmark Information Group, 2020) indicates that there are no licensed groundwater abstractions on the site.

In the surrounding area there is one groundwater abstraction within 1 km of the site, located 150 m south of the site, which is licenced to Hynix Semiconductors for “amenity use: make up or top-up water” for an adjacent lake.

3.4. Hydrology

There are no surface water features located on the site. The nearest surface water feature to the site is an unnamed man-made lake, located 70 m south to the east of South-Lake Drive.

Within 500 m of the site there are a number of surface water features comprising:

- Blackwall Reen, flowing south, 130 m east of the site;
- an unnamed lake 430 m south of the site;
- two unnamed lakes located on either side of the A43 carriageway at 450 m and 470 m north-west of the site;
- Percoed Reen, 700 m south-east of the site; and,
- Nant y Moor Reen, 900 m to the south-west of the site.

All of the lakes are isolated and do not appear to be fed by or connected to drains or watercourses.

Blackwall Reen is the closest surface watercourse to the site, which flows south parallel to the site before turning to flow south-east. Percoed Reen watercourse is down hydraulic gradient of the site, situated 700 m south-east of the site on the Gwent Levels. The Gwent Levels includes several unnamed watercourses and comprises low-lying estuarine alluvial wetland areas with intertidal mudflats along the Welsh bank of the River Severn.

3.4.1. Flooding

The NRW online flood risk map indicates that the site is not located in a flood risk zone and has a risk <0.1% annual of flooding from rivers.

The NRW online Development advice map (Natural Resources Wales, 2020), indicates that the site is located within Zone A, which, in accordance with Planning policy Wales TAN15 (Welsh Government, 2004), relates to land that is at little or no risk of flooding and no further flood risk assessment is required.

3.4.2. Surface Water Abstractions

Data from the Envirocheck report (Landmark Information Group, 2020) indicate that there are no licensed surface water abstractions on or within 1 km of the site.

3.4.3. Discharge Consents

Data from the Envirocheck report (Landmark Information Group, 2020) indicates that there are no licensed discharge consents related to the site. There are three active discharge consents located within 1 km of the site as summarised below:

- 500 m south: storm overflow discharge to an unnamed Reen for Newport City Council;
- 530 to 600 m south: trade effluent discharge to Percoed Reen (4 consents);
- 770 m south: site drainage discharge to Percoed Reen for Duffryn 33/11kv Substation (2 consents); and,
- 780 m west: domestic treated effluent discharge to Nant Y Moor Brook.

3.4.4. Pollution Incidents to Controlled Waters

Data from the Envirocheck report (Landmark Information Group, 2020) indicates that there are no pollution incidents recorded on the site. There are two recorded pollution incidents to controlled waters within 1 km of the site as summarised below:

- 275 m north: a category 3 minor incident involving diesel oil spillage in December 1996; and
- 600 m west: a category 3 minor incident involving release of crude sewage in December 1996.

3.5. Substantiated Pollution Incidents

The Envirocheck report (Landmark Information Group, 2020) indicates that there is one recorded substantiated pollution incident within 1 km of the site, located 880 m south related to a Category 2 significant incident it land from deposition of household waste.

3.6. Mining and Waste

3.6.1. Waste Transfer Sites

According to the Envirocheck report (Landmark Information Group, 2020) an historical metal recycling site was located 215 m east of the site. This site reportedly closed in 2005.

3.6.2. Landfills

The Envirocheck report (Landmark Information Group, 2020) shows no currently active landfill sites within 1 km of the site.

There are two recorded historical landfill sites within 1 km of the site as summarised below:

- 630 m north: Graig-Y-Saeson Farm received inert, industrial and household waste between August and October 1988; and
- 840 m north-west: Cefn Llogell Farm received inert waste between 1993 and 1996.

3.6.3. Mining

There are three BGS recorded mineral sites within 1 km of the site as summarised below (Landmark Information Group, 2020):

- 215 m east: Tredegar Park opencast quarry for extraction of sand and gravel (closed);
- 500 m south: Pont-Estyll opencast quarry for extraction of sand and gravel (closed); and,
- 970 m north-west: Cleppa Park opencast quarry for extraction of sandstone (closed).

Review of available Ordnance Survey plans and aerial photographs suggests that Tredegar Park and Cleppa Park have been infilled and currently occupied by commercial units. There are three lakes situated at Pont-Estyll, which suggest that this site may not have been completely infilled.

3.7. Environmental Designations

The DEFRA MAGIC online database (DEFRA, 2020) indicates that there are no environmentally sensitive land uses located on the site or adjacent to the site. The Gwent Levels Site of Special Scientific Interest (SSSI) is located 260 m south-east of the site at its closest point, related to flora and fauna species which are rare or absent in other marsh level systems.

3.8. Unexploded Ordnance

The Zetica Regional Unexploded Bomb (UXB) Risk Map (Zetica UXO, 2020), which relates to air dropped World War II Ordnance only, indicates that the site is within an area of low risk with less than 15 bombs per 1000 acre or less.

Considering the classification of UXB above and post war historical development of the site, the risk of encountering unexploded ordnance (UXO) is low but cannot be completely discounted.

A site specific pre desk study assessment report was obtained from Zetica (Zetica UXO, 2020b) which identified that there were strategic targets in vicinity of the site and a recorded 366 High Explosive (HE) bombs fell within the region. No available records are available to suggest the site was bombed. A desk study assessment was not considered a requirement.

4. Contaminated Land Assessment

4.1. Introduction

Land contamination is assessed through development of a conceptual model (CM) which describes the links between contamination which may be present from current and historical activities on site (including any off-site activities from which contaminants may migrate onto a site), receptors to that contamination and pathways between the two.

Sources of contamination and associated contaminants, receptors to that contamination and the pathways are identified and assessed to determine whether all three are present or are likely to be present. If all three are present, then they form a potential contaminant linkage (PCL). These PCLs can then be subjected to the risk assessment process.

The approach adopted in this assessment is in general accordance with the guidance presented in the Environment Agency Land Contamination: Risk Management (LC:RM) document (Environment Agency, 2020). LC:RM provides a technical framework for identifying and remediating contamination through the application of a risk management process. The decision of whether a risk is unacceptable in a particular case involves not only scientific and technical assessment, but also appropriate criteria by which to judge the risk and conclude exactly what level of risk would be unacceptable. Decisions regarding a site may be informed by:

- Tier 1 preliminary risk assessment – typically a desk study review to develop an outline CM with an assessment of risk considering the likelihood and severity of the potential consequences associated with the PCLs);
- Tier 2 Generic Quantitative Risk Assessment (GQRA), typically a review of ground investigation and monitoring data, development/refinement of the CM with an assessment of risk using precautionary Generic Assessment Criteria (GAC) relevant to the PCLs that represent minimal or tolerable risk; and
- Tier 3 Detailed Quantitative Risk Assessment (DQRA).

A 'Tier 1 Preliminary Risk Assessment' has been completed in accordance with LC:RM and has been based on the desk study information described in the preceding sections.

It should be noted that under current health and safety legislation, construction and maintenance workers are required to carry out appropriate risk assessments and instigate appropriate mitigating measures to protect themselves, other human receptors and the environment from contamination that may be present. Such risks must be adequately mitigated by the measures required under current legislation, specifically the Construction Design Management (CDM) Regulations (United Kingdom Parliament, 2015), which requires that potential risks to human health and the environment from construction activities are appropriately identified and all necessary steps taken to eliminate / manage that risk. On this basis, it has been assumed that personal protective equipment (PPE) and health and safety best practices will be adopted during the construction works and acute risks to construction workers / site visitors during construction have therefore not been considered as part of this assessment.

4.2. Sources, Receptors and Pathways

This section identifies potential on-site and off-site sources of contamination, receptors and exposure or migration pathways to determine if there are PCLs.

4.2.1. Potential Contamination Sources

Based on the historical maps and the desk study information summarised in this report, the following potential sources of contamination have been identified as summarised in Table 4-1. **The** list of activities and contaminants of concern listed in the table below should not be considered exhaustive and provides a guide to the likely range of contaminants that may be present at or around the site.

Table 4-1 - Potential Contamination Sources

Location	Potential Source of Contamination	Potential Contaminants
On-site	Made Ground related historical development at the site and former, now removed, water treatment works in the north-east of the site.	A range of inorganic and organic contaminants including the potential for asbestos.
	Potentially contaminated groundwater.	A range of inorganic and organic contaminants including heavy metals, hydrocarbons and PAHs.
	Ground gases from Made Ground and underlying natural organic strata, if present.	Methane, carbon dioxide, hydrogen sulphide.
Off-site	Made Ground associated with off-site sources including demolished warehouse structures to the north of the site and decommissioned sewage treatment plant and electrical substation;	A range of inorganic and organic contaminants including heavy metals, hydrocarbons and PAHs.
	Made Ground associated with infill of a historical opencast quarry 130 m east and 250 m north east of the site.	A range of inorganic and organic contaminants including heavy metals, hydrocarbons and PAHs. Ground gas.
	Potentially contaminated groundwater.	A range of inorganic and organic contaminants including heavy metals, hydrocarbons and PAHs.

4.2.2. Potential Receptors and Pathways

The following potential receptors which are relevant to the current and future site use and potential contaminant exposure and migration pathways have been identified as outlined in Table 4-2 below:

Table 4-2 - Potential Receptors and Pathways

Receptor Group	Receptor	Potential Contaminant Migration Pathways
Human Health (on-site)	Current site visitors	Dermal contact / ingestion / inhalation of contaminants in soil and soil-derived dust;
	Future on-site users including staff and maintenance workers	Dermal contact / ingestion of contaminants in groundwater within excavations; and Inhalation of ground gas / vapours.
Human Health (off-site)	Off-site workers and residents in surrounding commercial and residential areas.	Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off-site; and Inhalation of soil-derived dust, fibres, gas and vapours which may have migrated off-site.
Controlled Waters: Surface Water	Lake, located 70 m south. Blackwall Reen 130 m east. Lakes, located 430 m south. Percoed Reen, located 700 m south-east of the site on the Gwent Levels.	Leaching or dissolution of contaminants in soils and subsequent migration of contaminants; Lateral migration of dissolved phase contaminants via preferential pathways such as drains and low permeability strata horizons; Lateral migration of dissolved phase contaminants in groundwater to surface water; and Migration of contaminants entrained in surface water runoff.

Controlled Waters: Groundwater	Groundwater in the River Terrace Deposits secondary A aquifer	Leaching or dissolution of contaminants in soils and subsequent migration of contaminants in groundwater; Vertical migration of dissolved phase contaminants to the underlying groundwater; and
	Groundwater in the Mercia Mudstone secondary B aquifer.	Lateral migration of dissolved phase contaminants via preferential pathways such as drains and low permeability strata horizons
Property	On-site future below ground infrastructure.	Direct contact of contaminated soils/water with infrastructure, services and structures and subsequent chemical attack; Direct contact of migrating contaminated groundwater within infrastructure, services and structures; and Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.
	Off-site residential / commercial properties within surrounding 500m of the site.	Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.

4.3. Outline Conceptual Model

A preliminary qualitative environmental risk assessment of the PCLs identified has been carried out based on available desk study information. The risk assessment has been completed following current best practice and industry guidance following the principles of risk assessment in Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance, 2012 (DEFRA, 2012) and the DEFRA Land Contamination: Risk Management (LCRM) guidance (Environment Agency, 2020). Definitions of probability, consequence and significance have been based on CIRIA C552 (CIRIA, 2001), which provides general guidance on development and application of the consequence and probability 'matrix approach' to contamination risk assessment. This information has been used to identify the risk classification of the PCLs from which the potential environmental liability can be assessed. A summary of the definitions of risk, consequence and probability are reproduced in Table 4-3 and Table 4-4.

A preliminary qualitative environmental risk assessment of the PCLs identified in the preliminary CSM is summarised in Table 4-5.

Table 4-3 - Definitions of estimated risk

Risk Level	Definition
Very High Risk	There is a high probability that severe harm could arise to a designated receptor or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.
High Risk	Harm is likely to arise to a designated receptor. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not already undertaken) is required and remedial works may be necessary in the short term and are likely over the long term.
Medium Risk	It is possible that harm could arise to a designated receptor. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long term.
Low Risk	It is possible that harm could arise to a designated receptor, but it is likely that this harm, if realised, would be mild. Further investigation is not necessarily required, however should be considered to confirm that there is no unanticipated contamination present.
Very Low Risk	The possibility of harm to the designated receptor is either not plausible or, if the possibility of harm is plausible, risk is considered to be very unlikely with attenuation along the exposure pathway. Further investigation is not necessarily required, however may be considered to confirm that there is no unanticipated contamination present.

Table 4-4 - Estimation of the level of risk by comparison of consequence and probability

		Consequence			
		Severe	Medium	Mild	Minor
Probability (Likelihood)	High Likelihood	Very High	High	Moderate	Moderate/Low
	Likely	High	Moderate	Moderate/Low	Low
	Low Likelihood	Moderate	Moderate/Low	Low	Very Low
	Unlikely	Moderate/Low	Low	Very Low	Very Low

Table 4-5 - Outline Conceptual Model

Source	Receptor		Contaminant Exposure / Migration Pathway	Potential Consequence	Probability	Risk Classification	Comments
<u>On-site</u> <ul style="list-style-type: none">Made Ground related historical development at the site;Potentially contaminated groundwater; andGround gases from Made Ground and underlying natural organic strata, if present. <u>Off-site</u> <ul style="list-style-type: none">Made Ground associated with off-site sources including demolished warehouse structures to the north of the site and decommissioned sewage treatment plant and electricity substation;Made Ground associated with infill of a historical opencast quarries.Potentially contaminated groundwater	<u>Human Health:</u> On-site	Current site users	Dermal contact / ingestion / inhalation of contaminants in soil and soil-derived dust; Dermal contact / ingestion of contaminants in groundwater within excavations; and	Medium	Low	Moderate/Low	The site is currently vacant and would likely be accessed infrequently for non-intrusive activities and general maintenance – e.g. vegetation management. The site is currently covered in hardstanding and / or a capping layer of gravel and soils are encapsulated beneath these hard surface layers. It is unlikely site users would come into contact with soil and dust generation is unlikely. Ground gases/vapours, if present would dissipate freely to atmosphere.
		Future on-site users including staff and maintenance workers		Medium	Low	Moderate/Low	Following development, the site is proposed to largely be covered by the proposed building footprint and hardstanding associated with road and parking areas. There will be strips of landscaping around the perimeter of the site although these will be vegetated, binding and covering the soil. Considering the surface cover across the site, direct contact, ingestion and dust inhalation pathways are unlikely to be present. Risks to construction/maintenance workers are not considered in this assessment due to the likely short term exposure and use of mitigation measures through use of best practice risk assessments, method statements and PPE.
			Inhalation of ground gas / vapours.	Severe	Unlikely	Moderate/Low	Ground gases/vapours, if present would likely dissipate freely to atmosphere in the sites current state.
	<u>Human Health:</u> Off-site	Off-site workers and residents in surrounding commercial and residential areas.	Dermal contact with and ingestion of contaminants in soil-derived dusts and water that may have migrated off-site; and Inhalation of soil-derived dust, fibres, gas	Medium	Low	Moderate/Low	The current and proposed site condition comprises extensive hard covering across the site, currently comprising asphalt and gravel with the majority of the site covered by the building, roads and vegetation following development. Soils are/will be encapsulated beneath these cover layers reducing the potential for soil

Source	Receptor		Contaminant Exposure / Migration Pathway	Potential Consequence	Probability	Risk Classification	Comments
			and vapours which may have migrated off-site.				derived dust generation and subsequent migration off-site to off-site receptors. Considering the open nature of the surrounding land and distance to nearest occupiable buildings, soil ground gases/vapours, if present, are likely to vent to atmosphere before reaching the receptors.
	<u>Controlled Waters:</u> Surface water	Lake, located 70 m south. Blackwall Reen 130 m east. Lakes, located 430 m south. Percoed Reen, located 700 m south-east of the site on the Gwent Levels.	Leaching or dissolution of contaminants in soils and subsequent migration of contaminants; Lateral migration of dissolved phase contaminants via preferential pathways such as drains and low permeability strata horizons Lateral migration of dissolved phase contaminants in groundwater to surface water; and Migration of contaminants entrained in surface water runoff.	Medium	Low	Moderate/Low	A lake is located 70 m to the south of the site which may be affected by surface water run-off and drainage from the site. Groundwater is likely to be present in the RTD and likely to be in continuity with the lake. A groundwater abstraction well is located 150 m south of the site recorded as used for top-up water for this lake. Groundwater is likely to be flowing to the south towards the Gwent Levels and there is the potential for contaminated groundwater on-site to affect the surface watercourses located here such as the Percoed Reen. The distance of these receptors to the site (700 m) is such that natural attenuation (dilution and dispersion) would be expected to reduce the contaminant concentration, if present at the receptor. The Blackwall Reen, 130 m east of the site is cross hydraulic gradient to the site and therefore unlikely to be a receptor to off-site migration in groundwater.
	<u>Controlled Waters:</u> Groundwater	Groundwater in the River Terrace Deposits secondary A aquifer	Leaching or dissolution of contaminants in soils and subsequent migration of contaminants in groundwater; Vertical migration of dissolved phase	Medium	Low	Moderate/Low	Groundwater is likely to be flowing to the south towards the Gwent Levels. Therefore, there is the potential for on-site migration in groundwater of off-site contaminants associated with the electricity sub-station and sewage works up hydraulic gradient of the site. Groundwater is likely to be present in the RTD. Considering the gravel cover at the site,

Source	Receptor		Contaminant Exposure / Migration Pathway	Potential Consequence	Probability	Risk Classification	Comments
		Groundwater in the Mercia Mudstone secondary B aquifer.	contaminants to the underlying groundwater; and Lateral migration of dissolved phase contaminants via preferential pathways such as drains and low permeability strata horizons	Medium	Likely	Moderate	leaching of potential contaminants present in the unsaturated zone is likely through surface water infiltration, with subsequent vertical migration to groundwater. Following development, the site is proposed to largely be covered by the proposed building footprint and hardstanding associated with road and parking area, reducing surface water infiltration and potential leaching of contaminants.
	<u>Property</u>	On-site future below ground infrastructure	Direct contact of contaminated soils/water with infrastructure, services and structures and subsequent chemical attack Direct contact of migrating contaminated groundwater within infrastructure, services and structures	Minor	Low	Very Low	It is assumed that any concrete infrastructure required will be designed for appropriate concrete classifications protective of aggressive ground chemistry.
			Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Severe	Unlikely	Moderate/Low	Any basements or confined structures are assumed to be designed to address ground gas concentrations such as through implantation of appropriate membranes and ventilation systems.
		Off-site residential / commercial properties within surrounding 500m of the site.	Migration of ground gas along strata and preferential pathways such as service routes or differentially permeable strata leading to accumulation and explosion.	Minor	Low	Very Low	Considering the open nature of the surrounding land and distance to nearest occupiable buildings, soil ground gases/vapours, if present, are likely to vent to atmosphere before reaching the receptors.

5. Conclusions

The site was historically developed circa 2000 as part of the wider Imperial Park industrial area. A number of structures were present on the site and in the surrounding area to the north and west. Some of these were demolished circa 2013. It is known that the car park has been in use during the period. Based on the Welsh Government demolition report, summarised in Section 3.1.1, it is likely that the water treatment system in the north-east of the site was not brought into operation.

Several potential sources of contamination have been identified both on and off-site. On-site sources include general Made Ground and contamination associated with the construction, operation and demolition of the water treatment works in the north-east corner of the site. Off-site sources include Made Ground associated with construction, operation and demolition of historical structures including an electricity sub-station, sewage treatment works and utilities building; contaminants from up hydraulic gradient off-site source may migrate to the site in groundwater.

Based on the outline CM, potential risks to human health have been identified as moderate/low, controlled waters as moderate and property as moderate/low.

5.1. Recommendations

In order to reduce uncertainty and better evaluate the potential risks identified, chemical testing data and further information on the ground conditions underlying the site is required to refine the outline CM. It is therefore recommended that a ground investigation is undertaken at the site to target areas of potential contamination and to provide a broad coverage across the site to confirm the contamination status of the site. The assessment will also allow the suitability of material for re-use as part of the proposed development to be verified.

The proposed ground investigation should include environmental sampling of soil and groundwater, groundwater monitoring and chemical soil and groundwater laboratory analysis. Ground gas monitoring may be required if evidence of potential sources are identified during the investigation.

The resulting data should then be used to undertake a generic quantitative risk assessment (GQRA). Laboratory testing should comprise a range of metals, metalloids, asbestos, inorganic and organic determinants relevant to the contaminants likely to be associated with identified current and historical land uses.

If material is proposed to be removed off-site or re-used on-site as part of the works, it will require appropriate classification and / or sorting to demonstrate suitability. The actual material to be excavated should be analysed and assessed as suitable for re-use by assessing potential risk to human and controlled water receptors. There should also be a clear requirement for re-use in the scheme design and may require consideration as part of a materials management plan or U1 exemption. It is the Contractor's responsibility to appropriately classify material excavated and ensure adequate testing is completed.

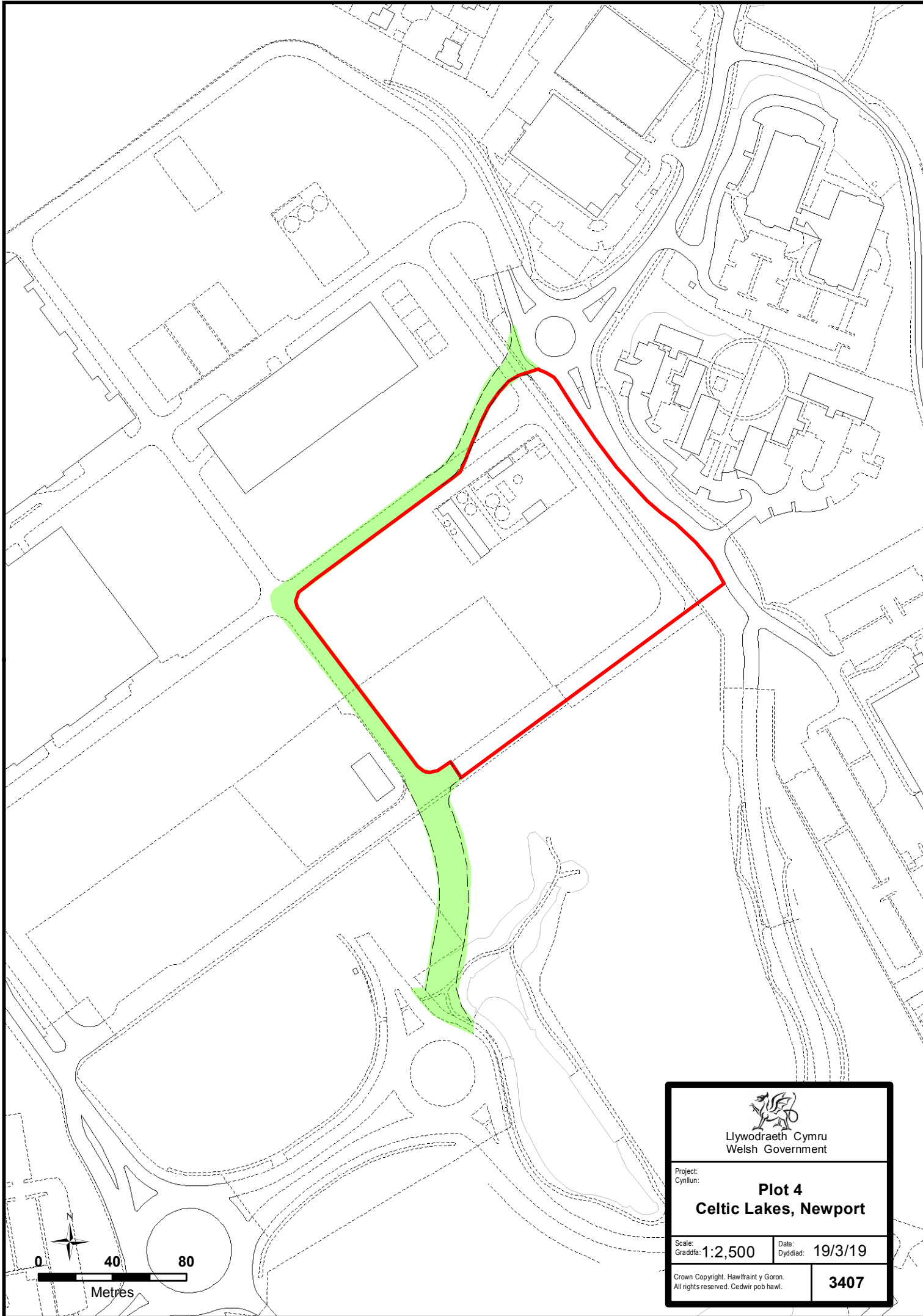
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Figures





Llywodraeth Cymru
Welsh Government

Project:
Cynllun:

Plot 4
Celtic Lakes, Newport

Scale:
Graddfa: 1:2,500

Date:
Dyddiad: 19/3/19

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3407

Appendices

Appendix A. Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

256105007_1_1

Customer Reference:

5197938

National Grid Reference:

328500, 184500

Slice:

A

Site Area (Ha):

2.68

Search Buffer (m):

1000

Site Details:

Site at

Newport/Casnewydd

Newport

Client Details:

Mr M Boobyer

Atkins Ltd

The Hub 500 Park Avenue

Aztec West

Almondsbury

Bristol

BS32 4RZ

Report Section	Page Number
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Agency & Hydrological	1
Waste	48
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Data Currency	63
Data Suppliers	68
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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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Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		1		31
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 10		1	6	
Integrated Pollution Prevention And Control	pg 11		8		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 12			1	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 13		Yes		
Pollution Incidents to Controlled Waters	pg 13			1	1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 13		5		
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 14				1
Water Abstractions	pg 14		1		(*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 14	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 14	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 15		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 15		Yes	n/a	n/a
Areas Benefiting from Flood Defences	pg 16		Yes	n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 16		2	40	239

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 48				2
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 48			1	
Local Authority Landfill Coverage	pg 48	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 48			2	1
Potentially Infilled Land (Water)	pg 48			4	11
Registered Landfill Sites	pg 49				1
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)	pg 50			1	
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
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 51	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 51	Yes	Yes		Yes
BGS Recorded Mineral Sites	pg 51			1	2
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
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	pg 52		Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 52	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 52		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 52	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 52	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 52		Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 52	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures	pg 52	Yes	n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 54		10	9	18
Fuel Station Entries	pg 57				1
Points of Interest - Commercial Services	pg 57			2	5
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 58	1	1	1	9
Points of Interest - Public Infrastructure	pg 59		2	3	17
Points of Interest - Recreational and Environmental	pg 60			1	3
Gas Pipelines					
Underground Electrical Cables	pg 61				4

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 62				4
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest	pg 62			1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	0	1	328450 184550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (NE)	0	1	328498 184502
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	53	1	328500 184350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (E)	99	1	328700 184550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (NW)	213	1	328300 184700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	215	1	328200 184600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	245	1	328300 184200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	249	1	328600 184850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	253	1	328150 184400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	352	1	328100 184700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (SE)	373	1	328700 184100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	377	1	328300 184050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (SE)	378	1	328800 184150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (N)	384	1	328498 185000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	403	1	328550 184000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SE (N)	407	1	328650 185000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (S)	458	1	328350 183950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A17SE (NW)	486	1	328100 184900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	490	1	328200 185000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Pencarn Lane Stw Authority: Natural Resources Wales Catchment Area: Hawse Reen Reference: AN0179001 Permit Version: 1 Effective Date: 19th October 1989 Issued Date: 19th October 1989 Revocation Date: 31st March 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Land/Soakaway Environment: Receiving Water: Soakaway Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A13NE (NE)	197	2	328700 184700
2	Discharge Consents Operator: Welsh Government Property Type: Sewerage Network - Pumping Stations Location: Celtic Lakes Development Dyffryn N, Dyffryn Newport Authority: Natural Resources Wales Catchment Area: BROADWAY REEN - SOURCE TO R SEVERN ESTUARY Reference: An0228001 Permit Version: 1 Effective Date: 3rd October 1991 Issued Date: 3rd October 1991 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Sewage Treatment Works Storm Overflow/Storm Tank - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Reen Status: Effective Positional Accuracy: Located by supplier to within 10m	A8NE (S)	502	2	328600 183910
2	Discharge Consents Operator: Newport County Borough Council Property Type: Sewerage Network - Pumping Station - Water Company Location: Celtic Lakes Development Dyffryn N, Dyffryn Newport Authority: Natural Resources Wales Catchment Area: Not Given Reference: AN0228001 Permit Version: 1 Effective Date: 3rd October 1991 Issued Date: 3rd October 1991 Revocation Date: Not Supplied Discharge Type: Storm sewage overflow discharge Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Reen Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A8NE (S)	502	2	328600 183910
3	Discharge Consents Operator: Bovis Homes Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Little Pencarn Farm Ps Duffryn New, Duffryn Newport Authority: Natural Resources Wales Catchment Area: Not Given Reference: AN0238401 Permit Version: 1 Effective Date: 9th November 1992 Issued Date: 9th November 1992 Revocation Date: 15th August 2008 Discharge Type: Unspecified Discharge: Freshwater Stream/River Environment: Receiving Water: Pencoed Reen Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8NE (SE)	525	2	328750 183950

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Jeff Perren Property Type: Not Supplied Location: Celtic Way Celtic Lakes Newport, Np1 9un Authority: Natural Resources Wales Catchment Area: BROADWAY REEN - SOURCE TO R SEVERN ESTUARY Reference: An0281601 Permit Version: 1 Effective Date: 11th May 1998 Issued Date: 11th May 1998 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge: Freshwater Stream/River Environment: Receiving Water: Percoed Reen Status: Effective Positional Accuracy: Located by supplier to within 10m	A8NE (S)	533	2	328560 183870
4	Discharge Consents Operator: Jeff Perren Property Type: Domestic Type Electrical Equipment Location: Celtic Way Celtic Lakes Newport, Np1 9un Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN028160101 Permit Version: 1 Effective Date: 11th May 1998 Issued Date: 11th May 1998 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Percoed Reen 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	A8NE (S)	533	2	328560 183870
5	Discharge Consents Operator: National Grid Plc Property Type: Production & Distribution Of Electricity Location: Imperial Park 400/33kv Substation C, Substation Celtic Way Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN027930101 Permit Version: 1 Effective Date: 28th January 1998 Issued Date: 28th January 1998 Revocation Date: 13th April 2011 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Percoed Reen Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m	A8SE (S)	594	2	328620 183820
6	Discharge Consents Operator: Jeff Perren Property Type: Not Supplied Location: Celtic Way Celtic Lakes Newport, Np1 9un Authority: Natural Resources Wales Catchment Area: BROADWAY REEN - SOURCE TO R SEVERN ESTUARY Reference: An0281501 Permit Version: 1 Effective Date: 11th May 1998 Issued Date: 11th May 1998 Revocation Date: Not Supplied Discharge Type: Trade And Other Matter Discharge Discharge: Freshwater Stream/River Environment: Receiving Water: Percoed Reen Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SW (S)	606	2	328460 183790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Jeff Perren Property Type: Domestic Type Electrical Equipment Location: Celtic Way Celtic Lakes Newport, Np1 9un Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN028150101 Permit Version: 1 Effective Date: 11th May 1998 Issued Date: 11th May 1998 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Percoed Reen 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	A8SW (S)	606	2	328460 183790
7	Discharge Consents Operator: The Managing Director Property Type: Not Supplied Location: St Josephs R C School Newport, Former St Josephs R C School, Duffryn Drive, Newport, Wales, Np10 8ys Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0394201 Permit Version: 1 Effective Date: 2nd March 2006 Issued Date: 2nd March 2006 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Reen Status: Effective Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	663	2	329013 185058
8	Discharge Consents Operator: L G Semicon Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt7) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269107 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 9th December 1998 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Percoed Reen Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	666	2	329020 183967
9	Discharge Consents Operator: L G Semicon Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt6) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269106 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 9th December 1998 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Percoed Reen Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	691	2	328905 183855

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Not Supplied Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: Ad0008401 Permit Version: 2 Effective Date: 1st April 1988 Issued Date: 1st April 1988 Revocation Date: 23rd April 1990 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Not Supplied Environment: Receiving Water: Nant-Y-Moor Brook Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A12SW (W)	696	2	327710 184330
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewage Disposal Works - Water Company Location: Not Supplied Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: Ad0008401 Permit Version: 1 Effective Date: 16th December 1981 Issued Date: 16th December 1981 Revocation Date: 31st March 1988 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Not Supplied Environment: Receiving Water: Nant-Y-Moor Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A12SW (W)	696	2	327710 184330
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Coedkernew Ps (Emergency) Authority: Natural Resources Wales Catchment Area: BROADWAY REEN - SOURCE TO R SEVERN ESTUARY Reference: An0216401 Permit Version: 1 Effective Date: 23rd April 1990 Issued Date: 23rd April 1990 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Nantymoor Brook Status: Effective Positional Accuracy: Located by supplier to within 10m	A12SW (W)	714	2	327690 184340
10	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Pumping Staions Location: Coedkernew Ps (Emergency) Authority: Natural Resources Wales Catchment Area: BROADWAY REEN - SOURCE TO R SEVERN ESTUARY Reference: AN0216401 Permit Version: 1 Effective Date: 23rd April 1990 Issued Date: 23rd April 1990 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Nantymoor Brook Status: Effective Positional Accuracy: Located by supplier to within 100m	A12SW (W)	714	2	327690 184340

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Discharge Consents Operator: L G Semicon Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt5) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269105 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 9th December 1998 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Percoed Reen Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SE (S)	733	2	328766 183724
12	Discharge Consents Operator: Lg Electronics Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt3) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN0269103 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 1st September 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Nant Y Moor Reen Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SE (S)	748	2	328585 183656
13	Discharge Consents Operator: Manweb Services Ltd Property Type: SUB-STATION/ELECTRICITY/GAS/AIR CONDITIONING SUPPLY Location: Duffryn 33/11kv Substation Celtic W, Celtic Way Newport Authority: Natural Resources Wales Catchment Area: BROADWAY REEN - SOURCE TO R SEVERN ESTUARY Reference: An0279501 Permit Version: 1 Effective Date: 28th January 1998 Issued Date: 28th January 1998 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Percoid Reen Status: Effective Positional Accuracy: Located by supplier to within 10m	A8SE (S)	770	2	328550 183630
13	Discharge Consents Operator: Manweb Services Ltd Property Type: Production & Distribution Of Electricity Location: Duffryn 33/11kv Substation Celtic W, Celtic Way Newport Authority: Natural Resources Wales Catchment Area: Boundary Of HA 56 & HA 57 Reference: AN027950101 Permit Version: 1 Effective Date: 28th January 1998 Issued Date: 28th January 1998 Revocation Date: Not Supplied Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Percoid Reen 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	A8SE (S)	770	2	328550 183630

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consents Operator: Lg Electronics Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt4) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN0269104 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 1st September 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Percoed Reen Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A8SE (S)	808	2	328562 183593
14	Discharge Consents Operator: Mr & Mrs Balatchly Property Type: Domestic Property (Single) Location: 1 Nantymor Cott Blacksmiths Way, 1 Nantymore Cottages, Blacksmiths Way Coed Kernew, Newport, Np10 8tr Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An029730101 Permit Version: 1 Effective Date: 13th June 2000 Issued Date: 13th June 2000 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Nant Y Moor Brook 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	A12SW (W)	788	2	327600 184500
15	Discharge Consents Operator: Managing Director Property Type: Sewerage Network - Pumping Station - Others Location: A Sps At Blacksmiths Way Coedkernew, A Sewage Pumping Station, Blacksmiths Way, Coedkernew, Nr Newport, Np10 8tr Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0337301 Permit Version: 1 Effective Date: 15th August 2003 Issued Date: 15th August 2003 Revocation Date: 10th March 2009 Discharge Type: Sewage Discharges - Sludge - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Nant Y Moor Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 10m	A12NW (W)	793	2	327601 184597
16	Discharge Consents Operator: Lg Electronics Property Type: Domestic Type Electrical Equipment Location: Water Treatment Area 2 Lg Electroni, Lg Electronics Phase 1 Celtic La, Celtic Lakes Newport Authority: Natural Resources Wales Catchment Area: Not Given Reference: AN027790101 Permit Version: 1 Effective Date: 13th November 1997 Issued Date: 13th November 1997 Revocation Date: 29th May 2007 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Percoed Reen 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)	798	2	328241 183626

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Discharge Consents Operator: Lg Electronics Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt1) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN0269101 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 1st September 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Nant Y Moor Reen 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)	842	2	327876 183775
17	Discharge Consents Operator: Lg Electronics Wales Ltd Property Type: General Construction Work Location: Imperial Park (Pt2) Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: AN0269102 Permit Version: 1 Effective Date: 7th November 1996 Issued Date: 7th November 1996 Revocation Date: 1st September 1999 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Nant Y Moor Reen 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)	844	2	327873 183775
18	Discharge Consents Operator: Costain Building & Civil Engineering Ltd Property Type: Undefined Or Other Location: Area 4 - Final Effluent West Duffry, West Duffryn Link Road Newport, Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269704 Permit Version: 1 Effective Date: 2nd December 1996 Issued Date: 2nd December 1996 Revocation Date: 13th August 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Tributary Of The Percoed Reen Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7SE (S)	845	2	328158 183603
19	Discharge Consents Operator: Lg Electronics Property Type: Basic Electrical Equipment Location: Water Treatment Area 1 Lg Electroni, Lg Electronics Phase 1 Celtic La, Celtic Lakes Newport Authority: Natural Resources Wales Catchment Area: Not Given Reference: AN027780101 Permit Version: 1 Effective Date: 13th November 1997 Issued Date: 13th November 1997 Revocation Date: 29th May 2007 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Nant Y Moor Reen 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)	882	2	327879 183720

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Discharge Consents Operator: Costain Building & Civil Engineering Ltd Property Type: Undefined Or Other Location: Area 3 - Final Effluent West Duffry, West Duffryn Link Road Newport, Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269703 Permit Version: 1 Effective Date: 2nd December 1996 Issued Date: 2nd December 1996 Revocation Date: 13th August 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Nant Y Moor Reen Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	882	2	327878 183721
20	Discharge Consents Operator: St Brides Social Club Property Type: Undefined Or Other Location: Duffryn Drive St.Brides Social Club Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: Ac0135801 Permit Version: 1 Effective Date: 5th July 1982 Issued Date: 5th July 1982 Revocation Date: 21st January 1994 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Tredegar Cutting Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A15NW (E)	947	2	329520 184780
21	Discharge Consents Operator: Costain Building & Civil Engineering Ltd Property Type: Undefined Or Other Location: Area 2 - Final Effluent West Duffry, West Duffryn Link Road Newport, Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269701 Permit Version: 1 Effective Date: 2nd December 1996 Issued Date: 2nd December 1996 Revocation Date: 13th August 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Nant Y Moor Reen Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	951	2	327646 183877
21	Discharge Consents Operator: Costain Building & Civil Engineering Ltd Property Type: Undefined Or Other Location: Area 2 - Final Effluent West Duffry, West Duffryn Link Road Newport, Newport Authority: Natural Resources Wales Catchment Area: Broadway Reen Reference: An0269702 Permit Version: 1 Effective Date: 2nd December 1996 Issued Date: 2nd December 1996 Revocation Date: 13th August 1997 Discharge Type: Trade Effluent Discharge: Not Supplied Environment: Receiving Water: Tributary Of The Nant Y Moor R Status: Consent expired Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	951	2	327646 183877

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Integrated Pollution Controls Name: Lg Electronics Wales Ltd Location: Imperial Park, NEWPORT, Gwent, NP1 9ZY Authority: Environment Agency, Welsh Region Permit Reference: BF9182 Dated: 14th April 1999 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry Status: Application has met the requirements for authorisation (but not yet authorised) Positional Accuracy: Manually positioned to the road within the address or location	A13NE (NE)	153	3	328603 184743
23	Integrated Pollution Controls Name: Lg Philips Displays Wales Ltd Location: LS WALES LTD, Imperial Park, NEWPORT, Gwent, NP10 8ZW Authority: Environment Agency, Welsh Region Permit Reference: BG7916 Dated: 22nd September 1999 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (E) processes involving Halogens within the Chemical Industry Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	A12SE (SW)	467	3	328029 184178
23	Integrated Pollution Controls Name: Lg Philips Displays Wales Ltd Location: LS WALES LTD, Imperial Park, NEWPORT, Gwent, NP10 8ZW Authority: Environment Agency, Welsh Region Permit Reference: BE2654 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	A12SE (SW)	467	3	328029 184178
23	Integrated Pollution Controls Name: Lg Philips Displays Wales Ltd Location: LS WALES LTD, Imperial Park, NEWPORT, Gwent, NP10 8ZW Authority: Environment Agency, Welsh Region Permit Reference: BE2646 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 4.4 A (E) processes involving Halogens within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A12SE (SW)	467	3	328029 184178
23	Integrated Pollution Controls Name: Lg Philips Displays Wales Ltd Location: LS WALES LTD, Imperial Park, NEWPORT, Gwent, NP10 8ZW Authority: Environment Agency, Welsh Region Permit Reference: BA3870 Dated: 29th April 1998 Process Type: IPC new application Description: 4.4 A (E) processes involving Halogens within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A12SE (SW)	467	3	328029 184178
23	Integrated Pollution Controls Name: Lg Philips Displays Wales Ltd Location: LS WALES LTD, Imperial Park, NEWPORT, Gwent, NP10 8ZW Authority: Environment Agency, Welsh Region Permit Reference: BA3888 Dated: 23rd March 1998 Process Type: IPC major (substantial) variation Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A12SE (SW)	467	3	328029 184178
23	Integrated Pollution Controls Name: Lg Philips Displays Wales Ltd Location: LS WALES LTD, Imperial Park, NEWPORT, Gwent, NP10 8ZW Authority: Environment Agency, Welsh Region Permit Reference: AZ5537 Dated: 21st October 1997 Process Type: IPC new application Description: 4.5 A (D) Inorganic Chemical processes within the Chemical Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A12SE (SW)	467	3	328029 184178

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Integrated Pollution Prevention And Control Name: Spp Process Technology Systems Uk Limited Location: Spts Technologies Limited, Imperial Park, Newport, South Wales, NP10 8UJ Authority: Natural Resources Wales Permit Reference: MP3033ZL Original Permit Ref: Yp3536kv Effective Date: 22nd February 2013 Status: Surrender Effective Application Type: Surrender App. Sub Type: Whole Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Y	A13SE (E)	139	2	328735 184423
24	Integrated Pollution Prevention And Control Name: Surface Technologies Systems Plc Location: Coedkernew Semi-conductor Growth Kit Manufacturer, Imperial Park, Newport, Gwent, NP10 8UJ Authority: Natural Resources Wales Permit Reference: Bu5402in Original Permit Ref: Bj6747iz Effective Date: 1st April 2003 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Y	A13SE (E)	139	2	328735 184423
24	Integrated Pollution Prevention And Control Name: Surface Technology Systems Plc Location: Imperial Park, NEWPORT, Gwent, NP10 8UJ Authority: Environment Agency, Welsh Region Permit Reference: Bs8672 Original Permit Ref: Bj6747 Effective Date: 12th August 2002 Status: Superseded By Variation Application Type: PPC MINOR VARIATION App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Not Supplied	A13SE (E)	139	3	328735 184423
24	Integrated Pollution Prevention And Control Name: Surface Technologies Systems Plc Location: Coedkernew Semi-conductor Growth Kit Manufacturer, Imperial Park, Newport, Gwent, NP10 8UJ Authority: Natural Resources Wales Permit Reference: Bs8672ip Original Permit Ref: Bj6747iz Effective Date: 12th August 2002 Status: Superseded By Variation Application Type: Variation App. Sub Type: Minor Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Y	A13SE (E)	139	2	328735 184423
24	Integrated Pollution Prevention And Control Name: Surface Technology Systems Plc Location: Imperial Park, NEWPORT, Gwent, NP10 8UJ Authority: Environment Agency, Welsh Region Permit Reference: Bj6747 Original Permit Ref: Bj6747 Effective Date: 8th April 2002 Status: Superseded By Variation Application Type: PPC APPLICATION App. Sub Type: Not Supplied Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Not Supplied	A13SE (E)	139	3	328735 184423

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Integrated Pollution Prevention And Control Name: Surface Technologies Systems Plc Location: Coedkernew Semi-conductor Growth Kit Manufacturer, Imperial Park, Newport, Gwent, NP10 8UJ Authority: Natural Resources Wales Permit Reference: B16747iz Original Permit Ref: B16747iz Effective Date: 8th April 2002 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Y	A13SE (E)	139	2	328735 184423
24	Integrated Pollution Prevention And Control Name: Spp Process Technology Systems Uk Limited Location: Imperial Park Semiconductor Equipment Plant Ea/Epr/Yp3536kv/T001, Imperial Park, Newport, South Wales, NP10 8UJ Authority: Natural Resources Wales Permit Reference: YP3536KV Original Permit Ref: Yp3536kv Effective Date: 18th March 2010 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole limited change in management Positional Accuracy: Located by supplier to within 10m Activity Code: 4.2 A(1) (B) Activity Description: Inorganic Chemicals; Using Halogens Etc If Release To Air/Water (Unless Otherwise Prescribed) (Unless Chlorination Of Water) Primary Activity: Y	A13SE (E)	145	2	328740 184420
25	Integrated Pollution Prevention And Control Name: Newport Semiconductor Facility Location: Imperial Park, Celtic Way, Celtic Lakes, Newport, Newport, Np10 8be Authority: Natural Resources Wales Permit Reference: AB3893FZ Original Permit Ref: Not Supplied Effective Date: 22nd May 2018 Status: Effective Application Type: Bespoke App. Sub Type: Not Supplied Positional Accuracy: Located by supplier to within 10m Activity Code: 4.2 Part A (1) c) (vi) Activity Description: Not Supplied Primary Activity: Y Activity Code: 0.0 Associated Process Activity Description: Not Supplied Primary Activity: N	A13SW (W)	163	2	328227 184462
26	Local Authority Pollution Prevention and Controls Name: Quinn Radiators Ltd Location: Imperial Park, Newport, Np10 8zy Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: LAPPC/037/06/v2 Dated: 21st December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic Status: Permitted Positional Accuracy: Manually positioned within the geographical locality	A8NW (SW)	441	4	328167 184054
27	Local Authority Pollution Prevention and Controls Name: Asda Supermarket Plc Location: Pencarn Way, Coedkernew, NEWPORT, NP10 8XL Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: P002/05 Dated: 31st December 1998 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	A14NW (E)	570	4	329176 184607
28	Local Authority Pollution Prevention and Controls Name: Quinn Radiators Ltd Location: Imperial Park, Newport, Np10 8zy Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: LAPPC/037/06/v1 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG6/31 Powder coating processes (including sheradizing) Status: Permitted Positional Accuracy: Manually positioned within the geographical locality	A12SW (W)	646	4	327745 184431

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A13SE (S)	72	-	328518 184340
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Duffryn Link Road, BRYN-MAWR Authority: Environment Agency, Welsh Region Pollutant: Oils - Diesel (Including Agricultural) Note: Accidental Spillage/Leakage Incident Date: 10th December 1996 Incident Reference: 30882 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Spillage Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NW (NW)	274	3	328300 184800
30	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Dyffryn Link Road Site, NEWPORT Authority: Environment Agency, Welsh Region Pollutant: Crude Sewage Note: Weather Incident Date: 18th December 1996 Incident Reference: 30850 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)	595	3	327800 184400
31	Registered Radioactive Substances Name: Dmi Synthesis Ltd Location: Imperial House, Imperial Park, Celtic Lakes, Newport, Gwent, Np10 8uh Authority: Natural Resources Wales Permit Reference: Br6317 Dated: 22nd March 2002 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	154	2	328643 184707
31	Registered Radioactive Substances Name: Bowman Research Ltd Location: Imperial House, Imperial Way, Coedkernew, Newport, Gwent, NP10 8UH Authority: Natural Resources Wales Permit Reference: By7032 Dated: 21st December 2004 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A13NE (NE)	169	2	328644 184729
31	Registered Radioactive Substances Name: Bowman Research Ltd Location: Imperial House, Imperial Way, Coedkernew, Newport, Gwent, NP10 8UH Authority: Natural Resources Wales Permit Reference: By7067 Dated: 21st December 2004 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of multiple open sources which are also the subject of authorisations Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A13NE (NE)	169	2	328644 184729
31	Registered Radioactive Substances Name: Dmi Synthesis Ltd Location: Imperial House, Imperial Park, Celtic Lakes, NEWPORT, Gwent, NP10 8UH Authority: Natural Resources Wales Permit Reference: Bi1846 Dated: 8th May 2000 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NE (NE)	169	2	328644 184729

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
31	Registered Radioactive Substances Name: Dmi Synthesis Ltd Location: Imperial House, Imperial Park, Celtic Lakes, NEWPORT, Gwent, NP10 8UH Authority: Natural Resources Wales Permit Reference: Bi0904 Dated: 29th March 2000 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A13NE (NE)	169	2	328644 184729
32	Substantiated Pollution Incident Register Authority: Natural Resources Wales Incident Date: 24th April 2015 Incident Reference: 1331833 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Household Waste	A7SE (S)	878	2	328131 183578
33	Water Abstractions Operator: Hynix Semiconductor Wales Ltd Licence Number: 20/56/71/0011 Permit Version: 101 Location: Borehole At Celtic Lakes Authority: Environment Agency, Welsh Region Abstraction: Private Non-Industrial Amenity: Make-Up Or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Borehole - Depth 50M Dia 105Mm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (S)	148	3	328500 184250
	Water Abstractions Operator: Mr R Baker Licence Number: 20/56/61/0002 Permit Version: 100 Location: Well At Graig Farm Authority: Environment Agency, Welsh Region Abstraction: General Farming And Domestic 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: 28th September 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22NE (N)	1473	3	327950 185980
	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: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: 3-10m Superficial Recharge: High	A13SW (NE)	0	2	328498 184502
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13SW (NE)	0	2	328498 184502
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (NE)	0	2	328498 184502

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Tidal Models Boundary Accuracy: As Supplied	A13NE (E)	134	2	328727 184574
	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 (E)	182	2	328777 184587
	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)	231	2	328830 184587
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13NE (E)	237	2	328837 184584
	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	A14NW (E)	238	2	328842 184575
	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	A14NW (E)	238	2	328842 184574
	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	A14NW (E)	239	2	328843 184574
	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	A14NW (E)	240	2	328848 184563
	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	A14NW (E)	240	2	328844 184575
	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	A14NW (E)	243	2	328852 184559
	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	A14NW (E)	245	2	328844 184589
	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	A14NW (E)	249	2	328857 184564
	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)	144	2	328732 184589
	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	A13NE (NE)	168	2	328739 184622
	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)	198	2	328813 184518
	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)	234	2	328831 184590

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	A13NE (E)	237	2	328837 184584
	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	A14NW (E)	238	2	328842 184574
	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	A14NW (E)	240	2	328841 184580
	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	A14NW (E)	240	2	328847 184564
	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	A14NW (E)	241	2	328845 184572
	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	A14NW (E)	243	2	328851 184560
	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	A14NW (E)	243	2	328852 184559
	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	A14NW (E)	246	2	328841 184598
	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	A14NW (E)	246	2	328842 184596
	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	A14NW (E)	248	2	328857 184556
	Areas Benefiting from Flood Defences Type: Area Benefiting from Flood Defences Boundary Accuracy: As Supplied	A13NE (E)	144	2	328732 184589
	Flood Water Storage Areas None				
	Flood Defences None				
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 183.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13NE (NE)	173	5	328726 184647
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A13SE (E)	209	5	328825 184493

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SW (E)	260	5	328867 184429
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14SW (E)	260	5	328867 184429
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blackwall Reen Catchment Name: Reens West Primacy: 1	A14SW (E)	271	5	328861 184379
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14SW (E)	284	5	328897 184449
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 166.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14SW (E)	290	5	328904 184453
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.1 Watercourse Level: Underground Permanent: True Watercourse Name: Blackwall Reen Catchment Name: Reens West Primacy: 1	A14SW (E)	314	5	328922 184424
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 308.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Flynnon-wen Reen Catchment Name: Reens West Primacy: 2	A14SW (E)	318	5	328923 184414
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blackwall Reen Catchment Name: Reens West Primacy: 1	A14SW (E)	319	5	328929 184429
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	412	5	328793 184116

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	422	5	328698 184039
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8NW (SW)	422	5	328248 184025
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	423	5	328696 184037
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14NW (E)	426	5	329039 184550
49	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: Reens West Primacy: 2	A8NE (SE)	426	5	328706 184040
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14NW (E)	429	5	329042 184551
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	437	5	328670 184006
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 120.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19SW (NE)	439	5	328849 184904
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19SW (NE)	439	5	328856 184896

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19SW (NE)	439	5	328870 184881
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 251.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19SW (NE)	440	5	328870 184881
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A19SW (NE)	440	5	328874 184876
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	443	5	328668 183998
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	443	5	328668 183998
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14NW (E)	448	5	329060 184564
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 216.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	451	5	328868 184122
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18SE (NE)	454	5	328769 184993
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 252.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	455	5	328729 184021

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 89.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	455	5	328754 184036
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 232.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18SE (NE)	456	5	328764 185000
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	458	5	328652 183974
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	458	5	328652 183974
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.6 Watercourse Level: Underground Permanent: True Watercourse Name: Blackwall Reen Catchment Name: Reens West Primacy: 1	A14NW (E)	462	5	329078 184508
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.4 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	466	5	328809 184062
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (SE)	467	5	328814 184063
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	472	5	328538 183928
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	474	5	328843 184076

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 49.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	475	5	328844 184075
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blackwall Reen Catchment Name: Reens West Primacy: 1	A14SW (E)	481	5	329097 184504
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 124.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	495	5	328628 183926
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	495	5	328628 183926
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 113.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NW (S)	513	5	328431 183884
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	515	5	328099 184015
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Flynnon-wen Reen Catchment Name: Reens West Primacy: 2	A9NW (SE)	533	5	329024 184153
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	533	5	329024 184153
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 98.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	536	5	329028 184153

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	550	5	328705 183897
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 160.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A18SE (N)	551	5	328584 185163
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 182.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	551	5	328657 183877
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	551	5	328657 183877
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14NW (E)	555	5	329168 184556
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 77.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	557	5	328125 183942
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	558	5	328053 183998
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 263.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	565	5	328666 183865
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	565	5	328666 183865

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8NE (S)	567	5	328666 183863
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8NW (S)	569	5	328342 183838
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	601	5	328004 183987
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 72.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7NE (SW)	601	5	328004 183987
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	602	5	328474 183794
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: Underground Permanent: True Watercourse Name: Ffynnon-wen Reen Catchment Name: Reens West Primacy: 2	A9NW (SE)	603	5	329052 184080
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	612	5	328389 183788
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	614	5	328372 183788
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Ffynnon-wen Reen Catchment Name: Reens West Primacy: 2	A9NW (SE)	616	5	329058 184066

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	620	5	328440 183777
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 221.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	620	5	328440 183777
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 201.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	623	5	328237 183811
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	628	5	328699 183810
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	628	5	328699 183810
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 2	A19SW (NE)	655	5	329064 184986
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A19SW (NE)	655	5	329064 184986
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.1 Watercourse Level: Underground Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A19SW (NE)	657	5	329084 184967
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 2	A19SW (NE)	658	5	329000 185064

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 215.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A19SW (NE)	660	5	329096 184957
109	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 145.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	660	5	328403 183739
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: Underground Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 2	A19SW (NE)	661	5	329063 184993
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	664	5	329021 183970
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A9NW (SE)	669	5	329050 183983
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 191.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A9NW (SE)	669	5	329071 184005
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	672	5	329026 183964
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A9NW (SE)	676	5	329030 183961
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (SE)	677	5	328800 183803

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (SE)	677	5	328800 183803
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (SE)	678	5	328798 183801
119	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (SE)	679	5	328794 183798
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 367.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A9NW (SE)	679	5	329036 183958
121	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	680	5	328726 183765
122	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	680	5	328726 183765
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A9NW (SE)	681	5	329129 184047
124	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A9NW (SE)	681	5	329125 184044
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Morfa-Gronw Reen Catchment Name: Reens West Primacy: 2	A9NW (SE)	684	5	329146 184063

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A9NW (SE)	684	5	329146 184063
127	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 101.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	689	5	329010 183931
128	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: Underground Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A9NE (SE)	691	5	329208 184139
129	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A9NE (SE)	692	5	329211 184143
130	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	694	5	327696 184554
131	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	697	5	328736 183750
132	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 154.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Morfa-Gronw Reen Catchment Name: Reens West Primacy: 2	A9NW (SE)	699	5	329154 184049
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	699	5	329217 184138
134	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	699	5	328738 183750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A9NW (SE)	702	5	328909 183844
136	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	705	5	327688 184582
137	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	705	5	327688 184582
138	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	706	5	328500 185322
139	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	706	5	328938 183859
140	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NW (SE)	706	5	328938 183859
141	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	711	5	329221 184123
142	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	713	5	327677 184548
143	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	717	5	328749 183734

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SE (SE)	720	5	328827 183770
145	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 129.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	721	5	329297 184260
146	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	721	5	329297 184260
147	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.8 Watercourse Level: Underground Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (NE)	722	5	329262 184820
148	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	722	5	327670 184576
149	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	722	5	327670 184576
150	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (E)	723	5	329265 184817
151	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	723	5	327669 184575
152	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 234.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	729	5	327659 184484

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 69.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	734	5	328473 185350
154	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 446.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	738	5	329346 184385
155	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	738	5	329346 184385
156	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 371.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	740	5	328799 183731
157	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	742	5	327649 184568
158	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A12NW (W)	745	5	327646 184567
159	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 220.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SE (S)	745	5	328771 183713
160	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	748	5	328643 183667
161	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	752	5	329360 184379

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
162	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: Underground Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A14SE (E)	757	5	329373 184467
163	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.0 Watercourse Level: Underground Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A12NW (W)	757	5	327635 184572
164	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	759	5	328282 183656
165	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A14SE (E)	760	5	329376 184470
166	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14SE (E)	761	5	329377 184473
167	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 269.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 2	A14SE (E)	761	5	329377 184473
168	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12SW (W)	765	5	327626 184426
169	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 110.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14SE (E)	766	5	329383 184491
170	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	766	5	328567 183635

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
171	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A17SW (NW)	767	5	327788 184976
172	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 383.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A12SW (W)	768	5	327632 184353
173	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12SW (W)	768	5	327632 184353
174	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A12NW (W)	774	5	327618 184580
175	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 46.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12SW (W)	776	5	327623 184362
176	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 189.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A8SW (S)	778	5	328303 183633
177	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	779	5	328411 185389
178	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	780	5	328314 185372
179	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 39.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	784	5	328549 183615

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
180	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	790	5	328578 183613
181	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 13.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	793	5	328307 185383
182	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	793	5	328578 183610
183	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 332.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A12SW (W)	800	5	327601 184342
184	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A12NW (W)	801	5	327595 184613
185	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 257.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A12NW (W)	801	5	327595 184613
186	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	802	5	329293 184065
187	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 38.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	804	5	329296 184066
188	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	804	5	329296 184067

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
189	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	804	5	328659 183613
190	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	804	5	328583 183599
191	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	806	5	328302 185395
192	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SE (S)	814	5	328588 183590
193	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 30.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A7NE (SW)	815	5	327839 183851
194	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 376.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	815	5	328207 183619
195	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.2 Watercourse Level: Underground Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (E)	816	5	329427 184592
196	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.3 Watercourse Level: Underground Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (E)	820	5	329402 184729
197	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	822	5	328565 183579

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
198	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SE (S)	823	5	328566 183578
199	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (E)	827	5	329411 184724
200	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A7SE (SW)	827	5	327849 183822
201	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 86.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (E)	828	5	329436 184614
202	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A7SE (SW)	828	5	327849 183820
203	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	831	5	329207 183911
204	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	831	5	329216 183921
205	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 108.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	831	5	328708 183599
206	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 55.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Morfa-Gronw Reen Catchment Name: Reens West Primacy: 2	A9NE (SE)	832	5	329207 183911

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
207	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 32.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	834	5	329385 184172
208	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 115.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A12NW (W)	835	5	327569 184659
209	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	835	5	328486 183561
210	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	837	5	328698 183590
211	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	839	5	328581 183563
212	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	841	5	328488 183555
213	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	841	5	328573 183560
214	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	842	5	329323 184038
215	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	842	5	329323 184038

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 24.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	843	5	328549 183557
217	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A14NE (E)	845	5	329434 184709
218	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 134.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	848	5	329409 184195
219	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	849	5	328525 183548
220	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Old Dairy Reen Catchment Name: Reens West Primacy: 1	A14NE (E)	850	5	329439 184711
221	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 29.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	852	5	328440 183544
222	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	852	5	329075 183777
223	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A7SE (SW)	853	5	327897 183744
224	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SW (S)	855	5	328494 183541

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
225	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	856	5	329079 183775
226	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	858	5	329335 184028
227	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	859	5	329082 183774
228	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	862	5	329085 183772
229	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 181.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	863	5	328074 183620
230	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A17NE (NW)	864	5	328102 185379
231	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 81.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	865	5	329087 183770
232	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A17NE (NW)	865	5	328103 185381
233	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A17NE (NW)	865	5	328104 185381

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
234	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	865	5	329087 183770
235	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A7SE (SW)	866	5	327882 183738
236	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SW (S)	873	5	328462 183523
237	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SW (S)	874	5	328462 183522
238	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 207.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	876	5	328954 183664
239	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 68.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	876	5	328954 183664
240	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 363.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19NW (NE)	877	5	328979 185362
241	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14NE (E)	877	5	329471 184693
242	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14SE (E)	877	5	329444 184206

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
243	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 332.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7SE (SW)	880	5	327876 183726
244	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7SE (SW)	880	5	327876 183726
245	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	881	5	329216 183851
246	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	881	5	329220 183855
247	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A8SW (S)	885	5	328447 183511
248	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Morfa-Gronw Reen Catchment Name: Reens West Primacy: 2	A9NE (SE)	887	5	329240 183866
249	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	887	5	329239 183865
250	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	890	5	329057 183717
251	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 76.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	891	5	329056 183715

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
252	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19NW (NE)	894	5	329044 185338
253	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	895	5	327906 183683
254	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 121.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19NW (NE)	896	5	329046 185339
255	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 194.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7SE (SW)	896	5	327904 183683
256	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14NE (E)	906	5	329490 184736
257	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 179.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A14NE (E)	913	5	329495 184746
258	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 212.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	919	5	329334 183923
259	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 83.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A8SE (S)	921	5	328793 183532
260	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 159.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A18NW (N)	921	5	328258 185503

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
261	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 128.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Percoed Reen Catchment Name: Reens West Primacy: 1	A3NW (S)	922	5	328388 183477
262	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SE (SE)	923	5	329180 183766
263	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A12NW (W)	923	5	327498 184742
264	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SE (SE)	924	5	329178 183763
265	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	925	5	329385 183981
266	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	925	5	329385 183981
267	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	926	5	329019 183648
268	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 2	A7NW (SW)	927	5	327614 183975
269	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.8 Watercourse Level: Underground Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 2	A7NW (SW)	927	5	327615 183972

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
270	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	928	5	329380 183969
271	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7NW (SW)	929	5	327611 183975
272	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.7 Watercourse Level: Underground Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7NW (SW)	930	5	327612 183971
273	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	932	5	329168 183745
274	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A3NW (S)	932	5	328226 183492
275	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	933	5	329166 183742
276	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A15SW (E)	933	5	329521 184265
277	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	933	5	329393 183980
278	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 99.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	935	5	329161 183736

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
279	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7NW (SW)	935	5	327627 183938
280	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 2	A7NW (SW)	935	5	327625 183943
281	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A3NW (S)	940	5	328231 183483
282	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A3NW (S)	940	5	328231 183483
283	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 274.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Reen Catchment Name: Reens West Primacy: 1	A7SE (SW)	941	5	328027 183555
284	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	942	5	328000 183568
285	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 62.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	944	5	328001 183565
286	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 408.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A3NW (S)	945	5	328369 183455
287	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A3NW (S)	945	5	328237 183475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
288	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 222.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	949	5	329052 183642
289	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 27.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	949	5	329052 183642
290	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: Reens West Primacy: 1	A19NW (NE)	953	5	329025 185422
291	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A15SW (E)	957	5	329553 184299
292	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19NW (NE)	961	5	329062 185408
293	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A15SW (E)	961	5	329556 184297
294	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 417.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A23SE (N)	962	5	328645 185569
295	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: Reens West Primacy: 2	A15SW (E)	965	5	329560 184293
296	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19NW (NE)	967	5	329059 185417

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
297	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 323.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Tredegar Reen Catchment Name: Reens West Primacy: 1	A19NE (NE)	970	5	329270 185231
298	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 231.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	971	5	329077 183632
299	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 114.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9SW (SE)	971	5	329077 183632
300	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 1	A19NW (NE)	977	5	329077 185417
301	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (E)	982	5	329514 184098
302	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 285.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Nant-y-moor Brook Catchment Name: Reens West Primacy: 1	A16SE (W)	986	5	327472 184862
303	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A10NW (E)	986	5	329516 184094
304	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A4NW (S)	989	5	328862 183487
305	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A19NW (NE)	991	5	329118 185405

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
306	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	993	5	329512 184070
307	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A10NW (SE)	995	5	329517 184073
308	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 164.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A7SE (SW)	995	5	327906 183561
309	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	996	5	329441 183937
310	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	996	5	329441 183937
311	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 178.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A9NE (SE)	997	5	329432 183922
312	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A4NW (S)	998	5	328854 183474
313	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A4NW (S)	998	5	328875 183483
314	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Reens West Primacy: 2	A10NW (E)	1000	5	329525 184079

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
315	Historical Landfill Sites Licence Holder: J O Cullimore Location: Coed Kernew, Newport, Gwent Name: Graig-Y-Saeson Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD15045 First Input Date: 26th August 1988 Last Input Date: 31st October 1988 Specified Waste: Deposited Waste included Inert, Industrial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0019 BGS Ref: Not Supplied Other Ref: 49/88	A17SE (NW)	632	2	327933 184939
316	Historical Landfill Sites Licence Holder: Mr J J Neville Location: Coed Kernew, Newport, Gwent Name: Cefn Llogell Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD14578 First Input Date: 31st December 1993 Last Input Date: 31st December 1996 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 6935/0007 BGS Ref: Not Supplied Other Ref: Not Supplied	A12NW (W)	838	2	327567 184666
317	Licensed Waste Management Facilities (Locations) Licence Number: 30343 Location: P S N U K Ltd, Pencarn Way, Duffryn, Newport, Gwent, NP10 8YE Operator Name: Panasonic System Networks Company U K Ltd Operator Location: Not Supplied Authority: Natural Resources Wales Site Category: Metal Recycling Sites (Mixed) Licence Status: Issued: 18th March 2005 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 22nd October 2012 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	326	2	328700 184886
	Local Authority Landfill Coverage Name: Newport County Borough Council - Has no landfill data to supply		0	6	328498 184502
318	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A13NE (NE)	261	9	328660 184834
319	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A8NW (S)	497	9	328446 183899
320	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1996	A17SW (NW)	998	9	327524 184995
321	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NW (E)	430	9	329042 184553
322	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A18SE (NE)	434	9	328761 184976
323	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SW (NE)	441	9	328891 184864

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
324	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NW (E)	475	9	329057 184675
325	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NE (E)	635	9	329250 184531
326	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A19SW (NE)	650	9	328991 185062
327	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A14NE (E)	801	9	329413 184585
328	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8SE (S)	802	9	328659 183615
329	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8SE (S)	819	9	328636 183593
330	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8SE (S)	844	9	328539 183554
331	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8SE (S)	847	9	328595 183557
332	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8SE (S)	849	9	328543 183549
333	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A8SE (S)	932	9	328779 183516
334	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A3NW (S)	951	9	328429 183446
335	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1964	A3NE (S)	966	9	328714 183461
336	Registered Landfill Sites Licence Holder: J O Cullimore & Son (Farmer) Licence Reference: 049 Site Location: Graig Y Saeson Farm, Bassaleg, Newport, Gwent Licence Easting: 327900 Licence Northing: 185000 Operator Location: As Site Address Authority: Environment Agency Wales, South East Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st August 1988 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Accuracy: Not Applicable Authorised Waste: Soil From Cleppa Park (li)	A17SE (NW)	699	3	327900 185000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
337	Control of Major Accident Hazards Sites (COMAH) Name: LG Electronics Wales Ltd Location: Imperial Park, Newport, Gwent, NP10 8ZY Reference: Not Supplied Type: Lower Tier Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (SW)	356	7	328267 184090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13SW (NE)	0	1	328498 184502
	BGS 1:625,000 Solid Geology Description: Lower Devonian Rocks (Undifferentiated)	A13NW (NW)	0	1	328435 184539
	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	A13SW (NE)	0	1	328498 184502
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (NW)	19	1	328391 184551
	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: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A7NW (SW)	747	1	327737 184117
338	BGS Recorded Mineral Sites Site Name: Tredegar Park Location: Duffryn, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176568 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A13NE (NE)	256	1	328658 184830
339	BGS Recorded Mineral Sites Site Name: Pont-Estyll Location: Duffryn, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176569 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Quaternary Geology: River Terrace Deposits (Undifferentiated) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	501	1	328455 183895

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
340	BGS Recorded Mineral Sites Site Name: Cleppa Park Location: Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 160573 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Devonian Geology: St Maughans Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	969	1	327565 185008
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Rare Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	19	1	328391 184551
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	127	1	328719 184580
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	127	1	328719 184580
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	127	1	328719 184580
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	127	1	328719 184580
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (5 to 10% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	328474 184525
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (NE)	0	1	328498 184502

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - Radon Protection Measures Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	0	1	328474 184525

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
341	Contemporary Trade Directory Entries Name: Silvertel Location: Unit 1, The Courtyard, Imperial Park, Newport, Gwent, NP10 8UL Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	68	-	328588 184634
342	Contemporary Trade Directory Entries Name: Identigen Location: Unit 5, The Courtyard, Imperial Park, Newport, Gwent, NP10 8UL Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	79	-	328646 184587
342	Contemporary Trade Directory Entries Name: Vans Direct Ltd Location: Unit 6, The Courtyard, Imperial Park, Newport, NP10 8UL Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	114	-	328684 184599
342	Contemporary Trade Directory Entries Name: Vansdirect Location: Unit 6, The Courtyard, Imperial Park, Newport, NP10 8UL Classification: Commercial Vehicle Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	114	-	328684 184599
343	Contemporary Trade Directory Entries Name: G24 Power Location: G Cell, Imperial Park, Newport, NP10 8AS Classification: Electricity Generating & Distributing Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	139	-	328734 184423
343	Contemporary Trade Directory Entries Name: Grundfos Pumps Ltd Location: Imperial Park, Newport, Gwent, NP10 8UJ Classification: Pump Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	139	-	328735 184423
344	Contemporary Trade Directory Entries Name: South Wales Food Laboratory Ltd Location: Imperial House, Imperial Way, Coedkernew, Newport, Gwent, NP10 8UH Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	169	-	328644 184729
344	Contemporary Trade Directory Entries Name: Silver Telecom Ltd Location: Imperial House, Imperial Way, Coedkernew, Newport, Gwent, NP10 8UH Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	169	-	328644 184729
344	Contemporary Trade Directory Entries Name: Ethicoolers Location: Imperial House, Imperial Way, Coedkernew, Newport, Gwent, NP10 8UH Classification: Water Coolers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	169	-	328644 184729
345	Contemporary Trade Directory Entries Name: Hynix Semiconductor (Wales) Location: Unit 12, Imperial Park, Newport, Gwent, NP10 8UW Classification: Electric Motor Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	170	-	328222 184452
346	Contemporary Trade Directory Entries Name: Panasonic Communications Ltd Location: Pencarn Way, Duffryn, Newport, Gwent, NP10 8YE Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	292	-	328886 184611
346	Contemporary Trade Directory Entries Name: Panasonic System Networks (Uk) Ltd Location: Pencarn Way, Duffryn, Newport, Gwent, NP10 8YE Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	292	-	328886 184611

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
347	Contemporary Trade Directory Entries Name: Pisces Refrigeration Location: 4, Bulth Close, Newport, Gwent, NP10 8HU Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	296	-	328826 184288
348	Contemporary Trade Directory Entries Name: Lg Electronics Wales Ltd Location: Imperial Park, Newport, Gwent, NP10 8ZY Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	356	-	328267 184090
348	Contemporary Trade Directory Entries Name: L G Electronics Location: Imperial Park, Newport, Gwent, NP10 8ZY Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (SW)	356	-	328267 184090
349	Contemporary Trade Directory Entries Name: All Heating Plumbing & Electrical Services Location: 19, Grosmont Way, Newport, Gwent, NP10 8UQ Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	391	-	328968 184326
350	Contemporary Trade Directory Entries Name: Belle Casa Location: 17, Dunraven Drive, Newport, Gwent, NP10 8HS Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	416	-	328916 184208
351	Contemporary Trade Directory Entries Name: Essentra Location: Ip4, Celtic Way, Celtic Lakes, Newport, Gwent, NP10 8BE Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	484	-	327912 184403
351	Contemporary Trade Directory Entries Name: Essentra Location: Ip4, Celtic Way, Celtic Lakes, Newport, Gwent, NP10 8BE Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	484	-	327912 184403
352	Contemporary Trade Directory Entries Name: Platinum Cleaning Services Location: 1, Goodrich Grove, Newport, NP10 8SY Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	537	-	329145 184404
352	Contemporary Trade Directory Entries Name: Ntn Bearings (Uk) Ltd Location: 7, White Avenue, Newport, Gwent, NP10 8SZ Classification: Bearing Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (E)	539	-	329144 184385
353	Contemporary Trade Directory Entries Name: Celmyth Candles Location: 8, Craft Workshops, Tredegar House, Coedkernew, Newport, Gwent, NP10 8TW Classification: Candle Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	574	-	328863 185074
353	Contemporary Trade Directory Entries Name: Marcus Music Location: 1-3 Craft Workshops, Tredegar House, Coedkernew, Newport, Gwent, NP10 8TW Classification: Musical Instrument - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	578	-	328867 185077

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
353	Contemporary Trade Directory Entries Name: Natch Leather Goods Location: Coedkernew, Newport, Gwent, NP10 8TW Classification: Bags, Belts & Accessories - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A19SW (NE)	579	-	328855 185086
353	Contemporary Trade Directory Entries Name: Bryn Young Location: 5, Craft Workshops, Tredegar House, Coedkernew, Newport, Gwent, NP10 8TW Classification: Stained Glass Designers & Producers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	590	-	328875 185086
354	Contemporary Trade Directory Entries Name: Integra Office Solutions Ltd Location: Integra House, Vaughan Court, Coedkernew, Newport, Gwent, NP10 8BD Classification: Perfume Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	578	-	328182 185095
355	Contemporary Trade Directory Entries Name: Q R L Radiator Group Location: Imperial Park, Celtic Way, Newport, Gwent, NP10 8FS Classification: Central Heating Supplies & Equipment Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NE (SW)	600	-	327886 184156
356	Contemporary Trade Directory Entries Name: Celmyth Candles Location: Tredegar House, Coedkernew, Newport, Gwent, NP10 8YW Classification: Candle Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A18NE (NE)	705	-	328828 185248
357	Contemporary Trade Directory Entries Name: Nucleus Healthcare Location: Spooner Close, Coedkernew, Newport, Gwent, NP10 8FZ Classification: Hospitals Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	712	-	327713 184725
358	Contemporary Trade Directory Entries Name: Asda Petrol Location: Pencarn Way, Duffryn, Newport, NP10 8XL Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A14NE (E)	719	-	329307 184698
359	Contemporary Trade Directory Entries Name: Winwood Products Location: Somerton House, Hazell Drive, Newport, Gwent, NP10 8FY Classification: Wood Products, Except Furniture - Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A17SW (NW)	763	-	327779 184958
360	Contemporary Trade Directory Entries Name: Bedroom Athletics Location: Cavendish House, Hazell Drive, Newport, NP10 8FY Classification: Footwear Manufacturers & Wholesale Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	791	-	327713 184909
360	Contemporary Trade Directory Entries Name: Gamesa Energy Location: First Floor Unit 2, Cedar Court, Hazell Drive, NEWPORT, Gwent, NP10 8FY Classification: Windmills & Wind Power Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	827	-	327669 184905
361	Contemporary Trade Directory Entries Name: Wales & West Utilities Location: Wales & West House, Spooner Close, Coedkernew, Newport, NP10 8FZ Classification: Gas Companies Status: Active Positional Accuracy: Automatically positioned to the address	A12NW (W)	806	-	327631 184773

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
361	Contemporary Trade Directory Entries Name: Wales & West Utilities Ltd Location: Wales & West House, Spooner Close, Coedkernew, Newport, Gwent, NP10 8FZ Classification: Gas Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	807	-	327631 184775
362	Contemporary Trade Directory Entries Name: John Carey Location: 130, Woodside, Duffryn, Newport, Gwent, NP10 8XE Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	915	-	329192 185236
363	Contemporary Trade Directory Entries Name: Extreme Cleaning Services Location: 5a, Brigantine Way, Newport, Gwent, NP10 8EW Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A15NW (E)	992	-	329594 184665
364	Fuel Station Entries Name: Asda Newport Location: Pencarn Way , Coedkernew , Newport, Newport, NP10 8XL Brand: ASDA Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A14NW (E)	545	-	329150 184608
365	Points of Interest - Commercial Services Name: Just in Time Location: 22 Pencarn Avenue, Coedkernew, Newport, NP10 8TJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18SW (N)	308	8	328349 184881
365	Points of Interest - Commercial Services Name: Just in Time Valeting Location: 22 Pencarn Avenue, Coedkernew, Newport, NP10 8TJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A18SW (N)	308	8	328349 184881
366	Points of Interest - Commercial Services Name: Asda Newport Location: Pencarn Way, Coedkernew, Newport, NP10 8XL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (E)	545	8	329150 184608
366	Points of Interest - Commercial Services Name: Car Wash Location: Pencarn Way, Coedkernew, Newport, Gwent, NP10 8XL Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14NW (E)	545	8	329150 184608
367	Points of Interest - Commercial Services Name: Smiths News Location: Unit 3a, Celtic Way, Celtic Lakes, Newport, NP10 8BE Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A17SE (NW)	556	8	328100 185000
368	Points of Interest - Commercial Services Name: Baker Technical Metals Ltd Location: Severn Hpuse, Hazell Drive, Newport, NP10 8FY Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A17SW (NW)	838	8	327640 184876
369	Points of Interest - Commercial Services Name: Just in Time Mobile Valeting Location: 4 Catherine Close, Newport, NP10 8QJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A14SE (E)	886	8	329501 184461

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
370	Points of Interest - Manufacturing and Production Name: Tanks Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (NW)	0	8	328484 184532
371	Points of Interest - Manufacturing and Production Name: Tank Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	191	8	328682 184715
372	Points of Interest - Manufacturing and Production Name: Works Location: NP10 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13NE (NE)	309	8	328825 184734
373	Points of Interest - Manufacturing and Production Name: Tanks Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A12NE (W)	559	8	327833 184567
374	Points of Interest - Manufacturing and Production Name: Tank Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A19NW (NE)	710	8	328878 185227
375	Points of Interest - Manufacturing and Production Name: Tank Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	752	8	329320 184761
376	Points of Interest - Manufacturing and Production Name: Tank Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A8SW (S)	805	8	328214 183627
377	Points of Interest - Manufacturing and Production Name: Gamesa Energy Location: First Floor Unit 2 Cedar Court, Hazell Drive, Newport, NP10 8FY Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A17SW (NW)	827	8	327669 184905
377	Points of Interest - Manufacturing and Production Name: Gamesa Energy Location: Rowan House, Hazell Drive, Newport, NP10 8FY Category: Industrial Features Class Code: Energy Production Positional Accuracy: Positioned to address or location	A17SW (NW)	827	8	327669 184905
378	Points of Interest - Manufacturing and Production Name: Tanks Location: NP10 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	851	8	327724 183940
379	Points of Interest - Manufacturing and Production Name: Cleppa Park Industrial Estate Location: NP10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	864	8	328265 185446
380	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: NP10 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A23SW (N)	964	8	328180 185523

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
381	Points of Interest - Public Infrastructure Name: Weir Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	122	8	328494 184276
381	Points of Interest - Public Infrastructure Name: Weir Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	123	8	328488 184274
382	Points of Interest - Public Infrastructure Name: Weir Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	353	8	328106 184711
382	Points of Interest - Public Infrastructure Name: Weir Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12NE (NW)	358	8	328099 184709
383	Points of Interest - Public Infrastructure Name: Sewage Pumping Station Location: NP10 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A18SW (NW)	435	8	328229 184953
384	Points of Interest - Public Infrastructure Name: Asda Petrol Location: Pencarn Way, Duffryn, Newport, NP10 8XL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (E)	545	8	329150 184610
384	Points of Interest - Public Infrastructure Name: Asda Newport Location: Pencarn Way, Coedkernew, Newport, NP10 8XL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NW (E)	545	8	329150 184608
384	Points of Interest - Public Infrastructure Name: Newport Location: Pencarn Way, Duffryn, Newport, NP10 8XL Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A14NE (E)	571	8	329177 184606
385	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	661	8	329065 184011
385	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	671	8	329044 183979
386	Points of Interest - Public Infrastructure Name: Duffryn Police Station Location: Unit 5 Duffryn Shopping Centre, Duffryn, Newport, NP10 8TE Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	661	8	328956 185111
387	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	696	8	329154 184055

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
387	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	699	8	329159 184056
388	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	748	8	329364 184478
388	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	755	8	329371 184477
389	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	792	8	327639 184228
389	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	801	8	327630 184226
390	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	855	8	327621 184107
390	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	899	8	327596 184059
390	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	909	8	327586 184057
391	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	905	8	328415 183493
391	Points of Interest - Public Infrastructure Name: Sluice Location: NP10 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A3NW (S)	905	8	328405 183493
392	Points of Interest - Recreational and Environmental Name: Play Area Location: NP10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	323	8	328761 184829
393	Points of Interest - Recreational and Environmental Name: Play Area Location: NP10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	736	8	328573 185350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
394	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	A19SE (NE)	947	8	329422 184994
394	Points of Interest - Recreational and Environmental Name: Playground Location: Sandpiper Way, NP10 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A19SE (NE)	951	8	329423 185001
395	Underground Electrical Cables Unique Feature Identifier: 10056114 Cable Status: Planned Cable Type: Not Supplied Record Last Updated: 5th February 2020	A8SE (S)	697	9	328690 183733
396	Underground Electrical Cables Unique Feature Identifier: 10056112 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 1st May 2020	A8SE (S)	741	9	328680 183684
397	Underground Electrical Cables Unique Feature Identifier: 10056111 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 1st May 2020	A8SE (S)	743	9	328661 183677
398	Underground Electrical Cables Unique Feature Identifier: 10056115 Cable Status: Commissioned Cable Type: Alternating Current Record Last Updated: 1st May 2020	A8SE (S)	751	9	328672 183671

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
399	Ancient Woodland Name: Not Supplied Reference: 15874 Area(m ²): 5804.59 Type: Ancient and Semi-Natural Woodland	A18NW (N)	626	2	328373 185227
400	Ancient Woodland Name: Not Supplied Reference: 22087 Area(m ²): 52445.52 Type: Restored Ancient Woodland Site	A14SE (E)	858	2	329473 184446
401	Ancient Woodland Name: Not Supplied Reference: 22176 Area(m ²): 7982.63 Type: Restored Ancient Woodland Site	A19NW (NE)	862	2	329041 185300
402	Ancient Woodland Name: Not Supplied Reference: 11889 Area(m ²): 3166.87 Type: Ancient and Semi-Natural Woodland	A18NW (N)	882	2	328361 185487
403	Sites of Special Scientific Interest Name: Gwent Levels - St. Brides Multiple Areas: N Total Area (m2): 13058933.93 Source: Natural Resources Wales Reference: 34133wep Designation Details: Biological Designation Date: 21st May 1991 Date Type: Notified	A14SW (E)	252	2	328852 184406

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department Newport City Council - Public Protection and Environmental Services Cardiff Council - Pollution Control Division Natural Resources Wales	April 2014 August 2013 January 2015 January 2020 June 2020	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annually
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 July 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	July 2020 July 2020	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department Newport City Council - Public Protection and Environmental Services Cardiff Council - Pollution Control Division	December 2015 February 2013 June 2014 March 2016	Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls Newport City Council - Public Protection and Environmental Services Cardiff Council - Pollution Control Division Torfaen County Borough Council - Department for the Environmental Caerphilly County Borough Council - Environmental Health Department	June 2014 March 2016 November 2015 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Not Applicable
Local Authority Pollution Prevention and Control Enforcements Torfaen County Borough Council - Department for the Environmental Newport City Council - Public Protection and Environmental Services Cardiff Council - Pollution Control Division Caerphilly County Borough Council - Environmental Health Department	December 2015 June 2014 March 2016 September 2014	Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	June 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
Substantiated Pollution Incident Register Environment Agency Wales - South East Area Natural Resources Wales	July 2020 July 2020	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	July 2020 July 2020	Quarterly Quarterly
Water Industry Act Referrals Natural Resources Wales Environment Agency - Welsh Region	July 2020 October 2017	Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
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
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	May 2020	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	June 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	July 2020 July 2020	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	July 2020 July 2020	Quarterly Quarterly
Local Authority Landfill Coverage Caerphilly County Borough Council - Environmental Health Department Cardiff Council Newport City Council Torfaen County Borough Council - Department for the Environmental	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Caerphilly County Borough Council - Environmental Health Department Cardiff Council Newport City Council Torfaen County Borough Council - Department for the Environmental	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency Wales - South 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 Caerphilly County Borough Council - Planning Department Torfaen County Borough Council - Planning Department Cardiff Council - Regulatory Services Newport City Council - Planning Department	February 2016 February 2016 October 2015 October 2015	Variable Variable Variable Variable
Planning Hazardous Substance Consents Caerphilly County Borough Council - Planning Department Torfaen County Borough Council - Planning Department Cardiff Council - Regulatory Services Newport City Council - Planning Department	February 2016 February 2016 October 2015 October 2015	Variable Variable 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	June 2020	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	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	April 2020	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	July 2020	Quarterly
Fuel Station Entries Catalist Ltd - Experian	June 2020	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2020	Quarterly
Points of Interest - Education and Health PointX	September 2020	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2020	Quarterly
Points of Interest - Public Infrastructure PointX	September 2020	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2020	Quarterly
Underground Electrical Cables National Grid	August 2020	

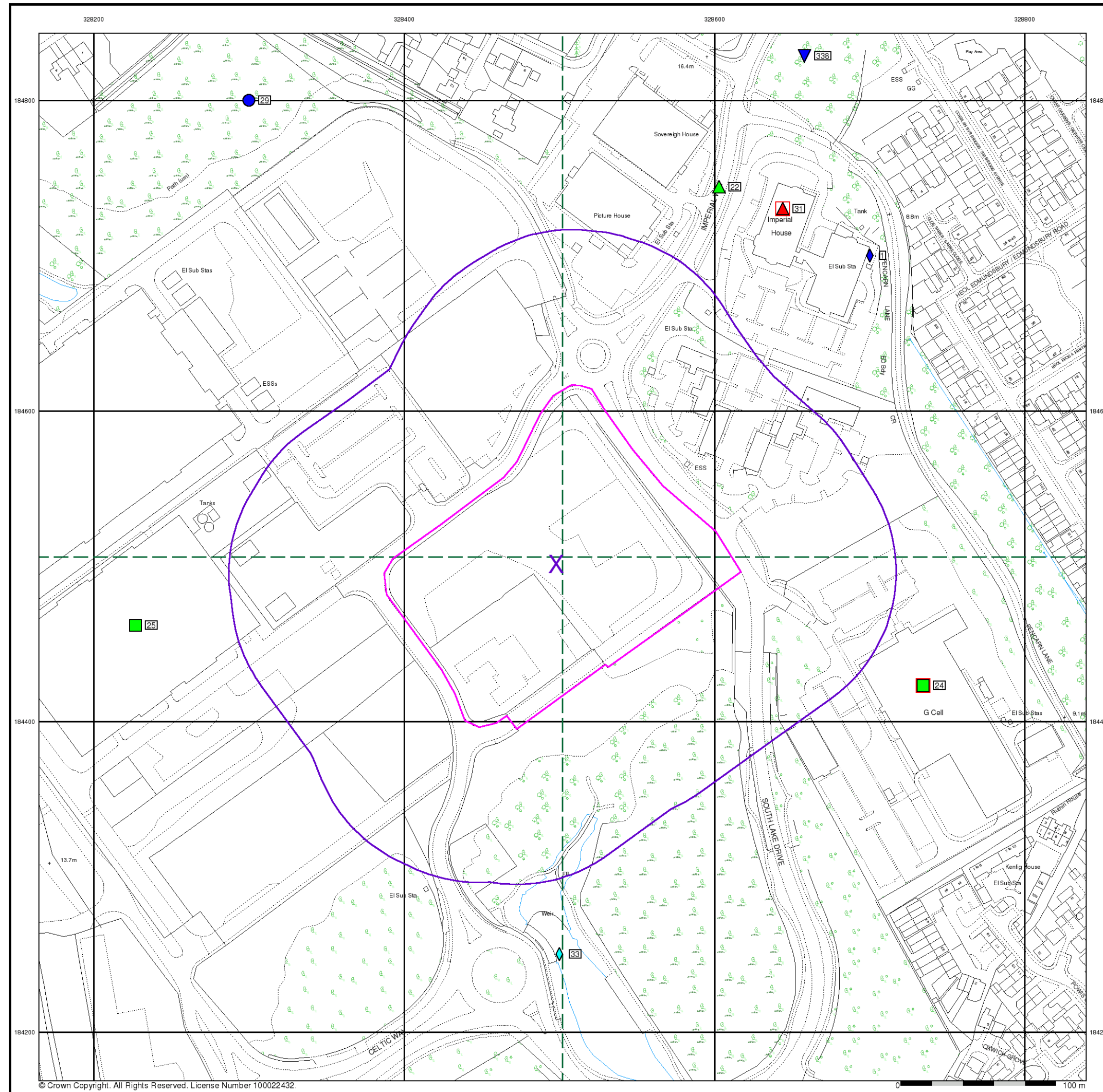
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Caerphilly County Borough Council Cardiff Council Newport City Council Torfaen County Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified As notified As notified
Areas of Unadopted Green Belt Caerphilly County Borough Council Cardiff Council Newport City Council Torfaen County Borough Council	June 2020 June 2020 June 2020 June 2020	As notified As notified 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 Caerphilly County Borough Council Cardiff Council Newport City Council Torfaen County Borough Council	August 2018 August 2018 August 2018 August 2018	Bi-Annually Bi-Annually 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 2020	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	
Stantec UK Ltd	

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	Newport City Council - Public Protection and Environmental Services Civic Centre, Newport, Gwent, NP20 4UR	Telephone: 01633 656656 Fax: 01633 232429 Website: www.newport.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	Newport City Council Civic Centre, Newport, South Wales, NP9 4UR	Telephone: 01633 656656 Fax: 01633 244721 Website: www.newport.gov.uk
7	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9966 Fax: 0844 844 9951 Email: helpdesk@landmark.co.uk Website: www.landmark.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

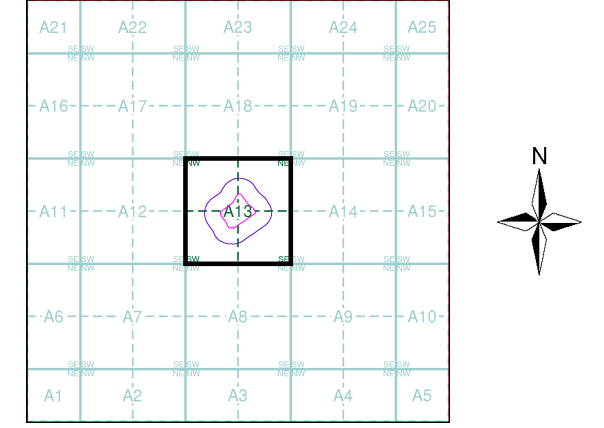
Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.



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

Site Sensitivity Map - Segment A13

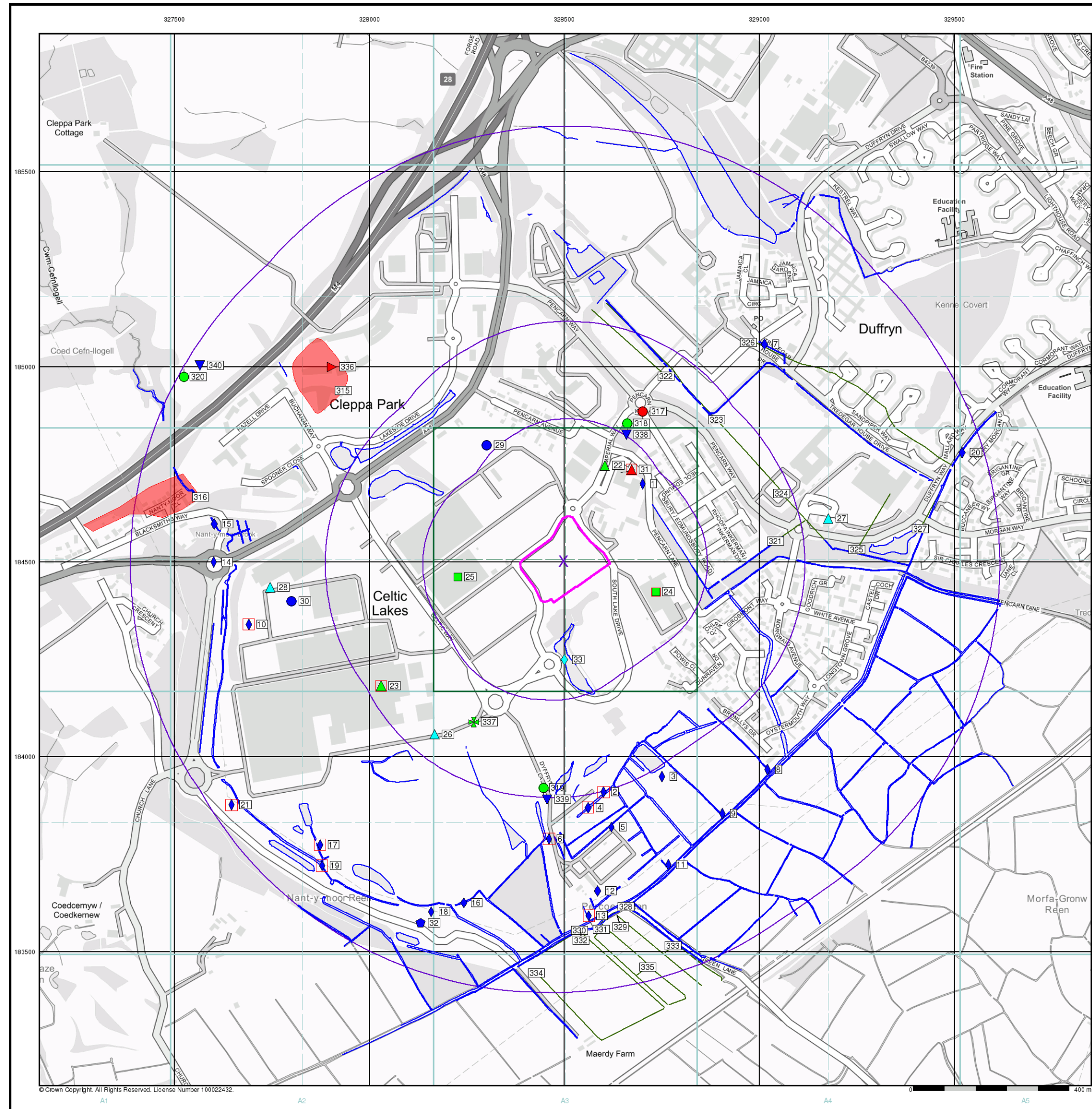


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Plot Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport



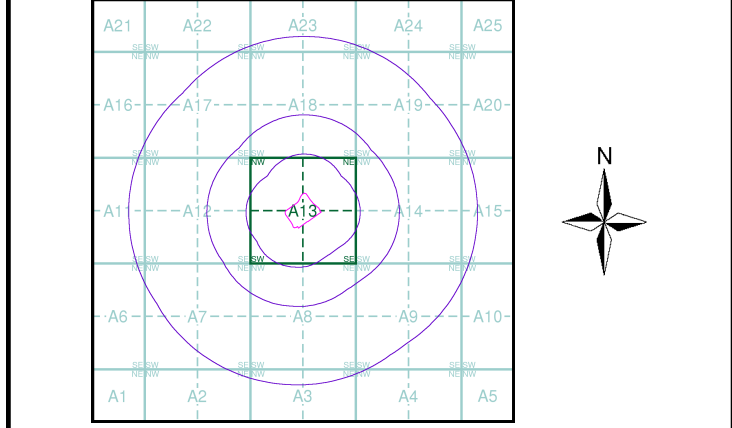
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- General**
 - Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
 - Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice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

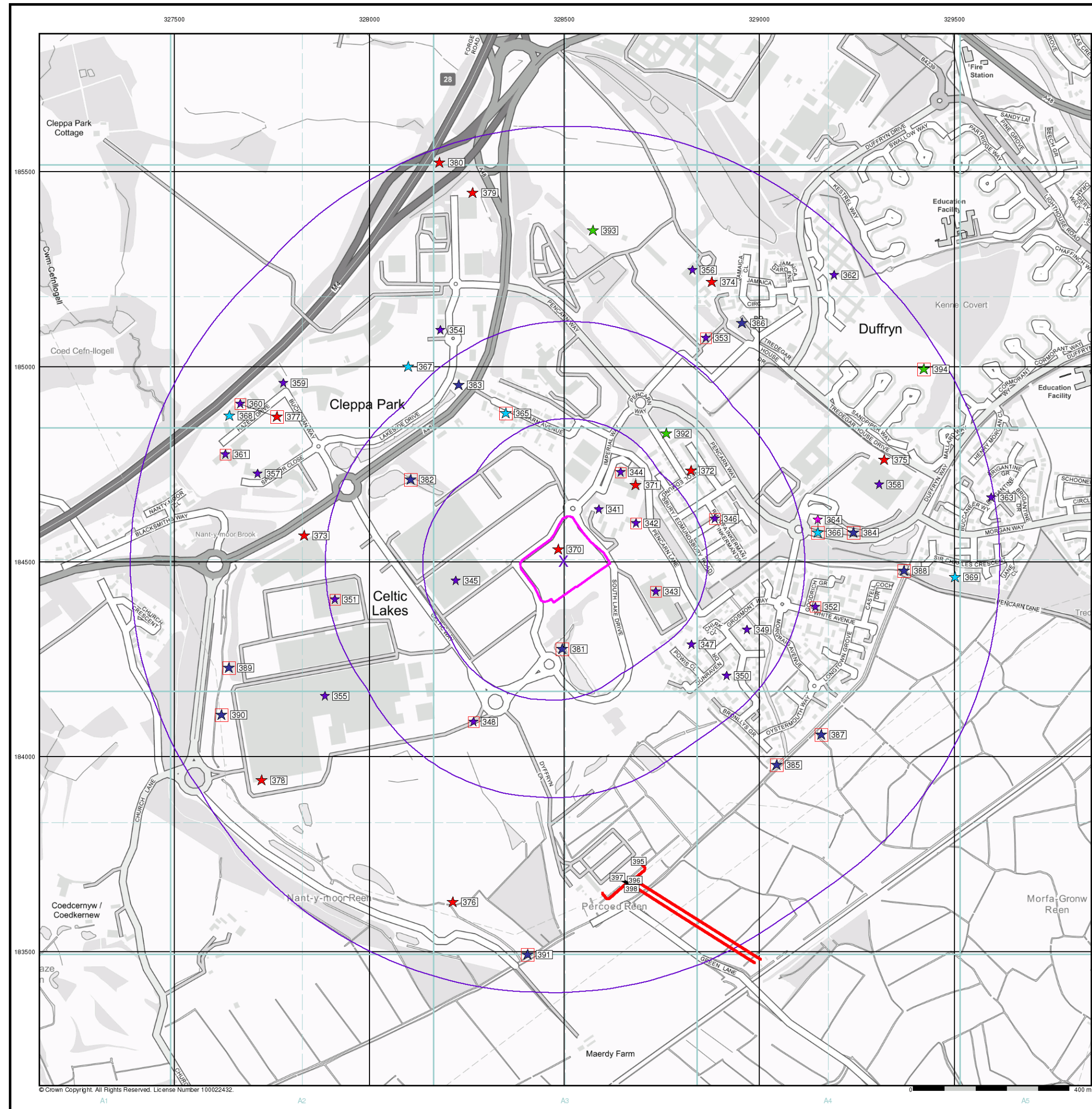
Site Sensitivity Map - Slice A



Order Details
Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details
Site at, Newport/Casnewydd, Newport

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



Industrial Land Use Map

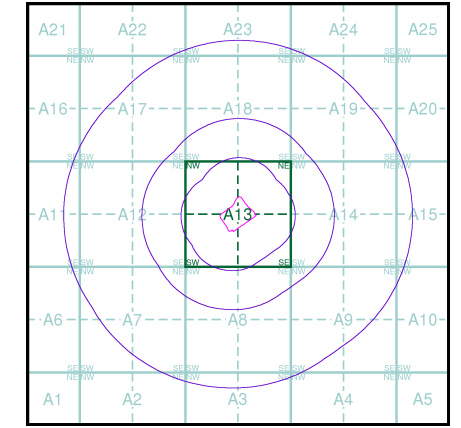
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A

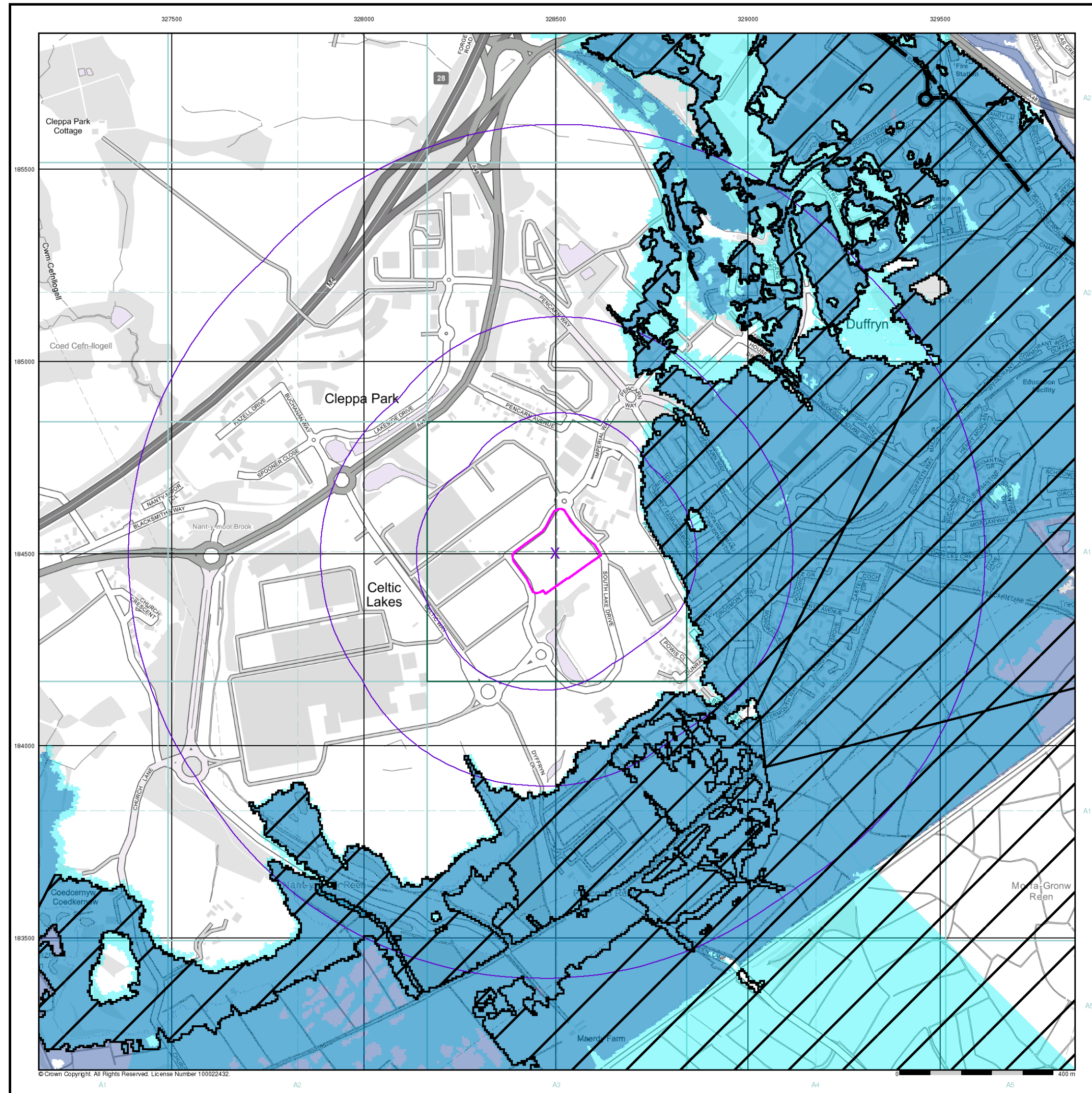


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport



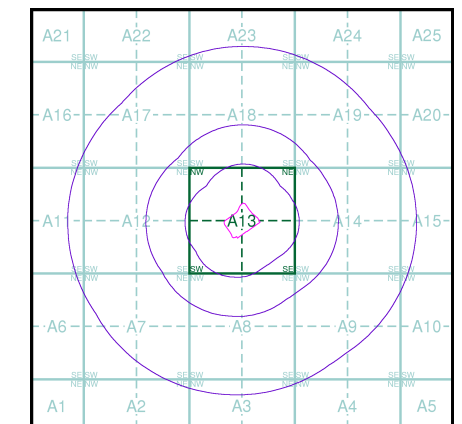
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

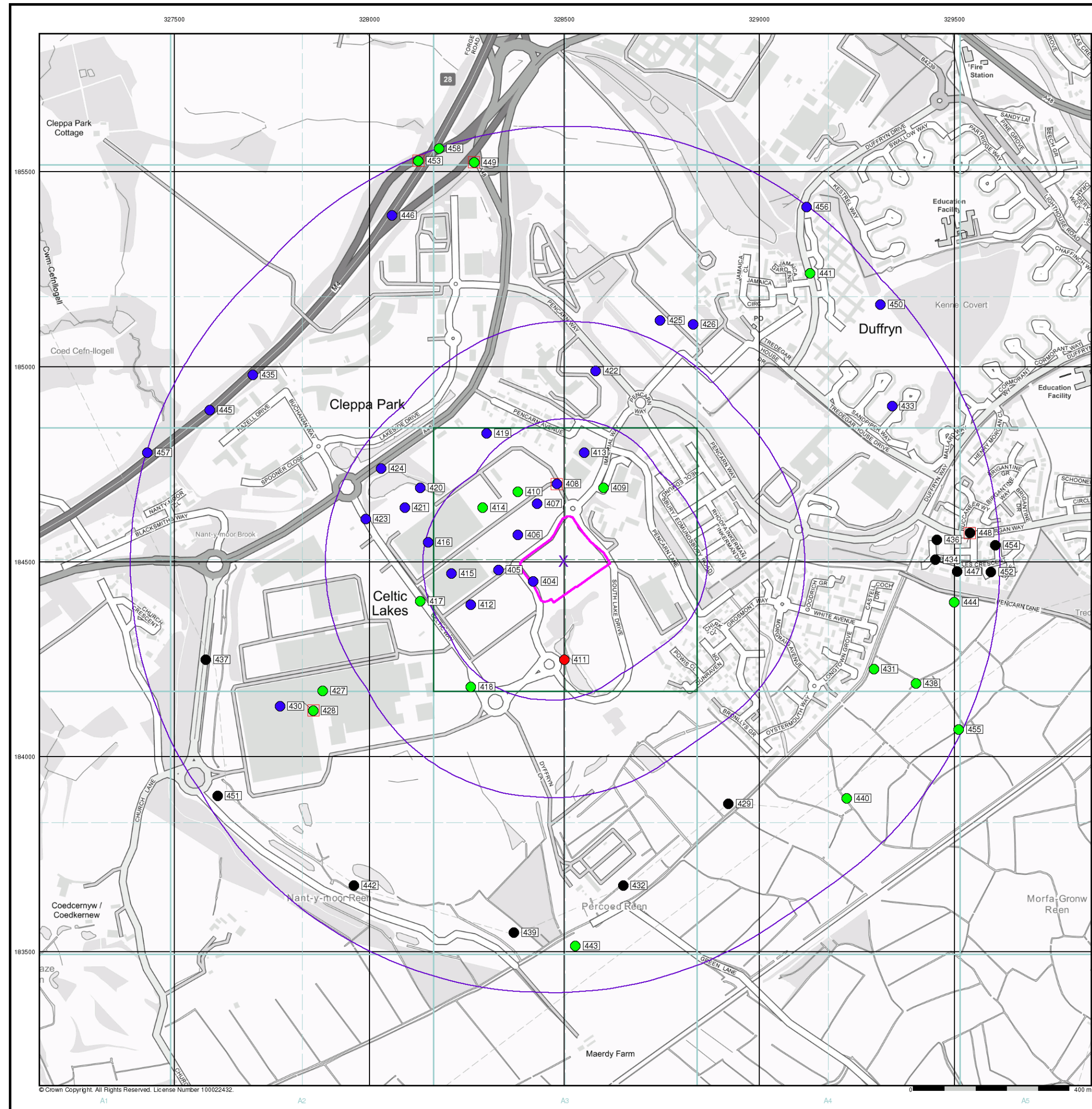


Order Details

Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport



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General

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

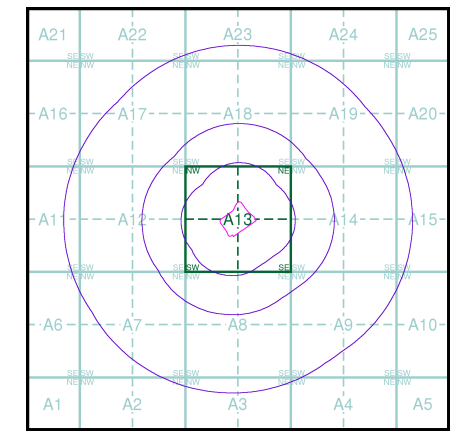
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

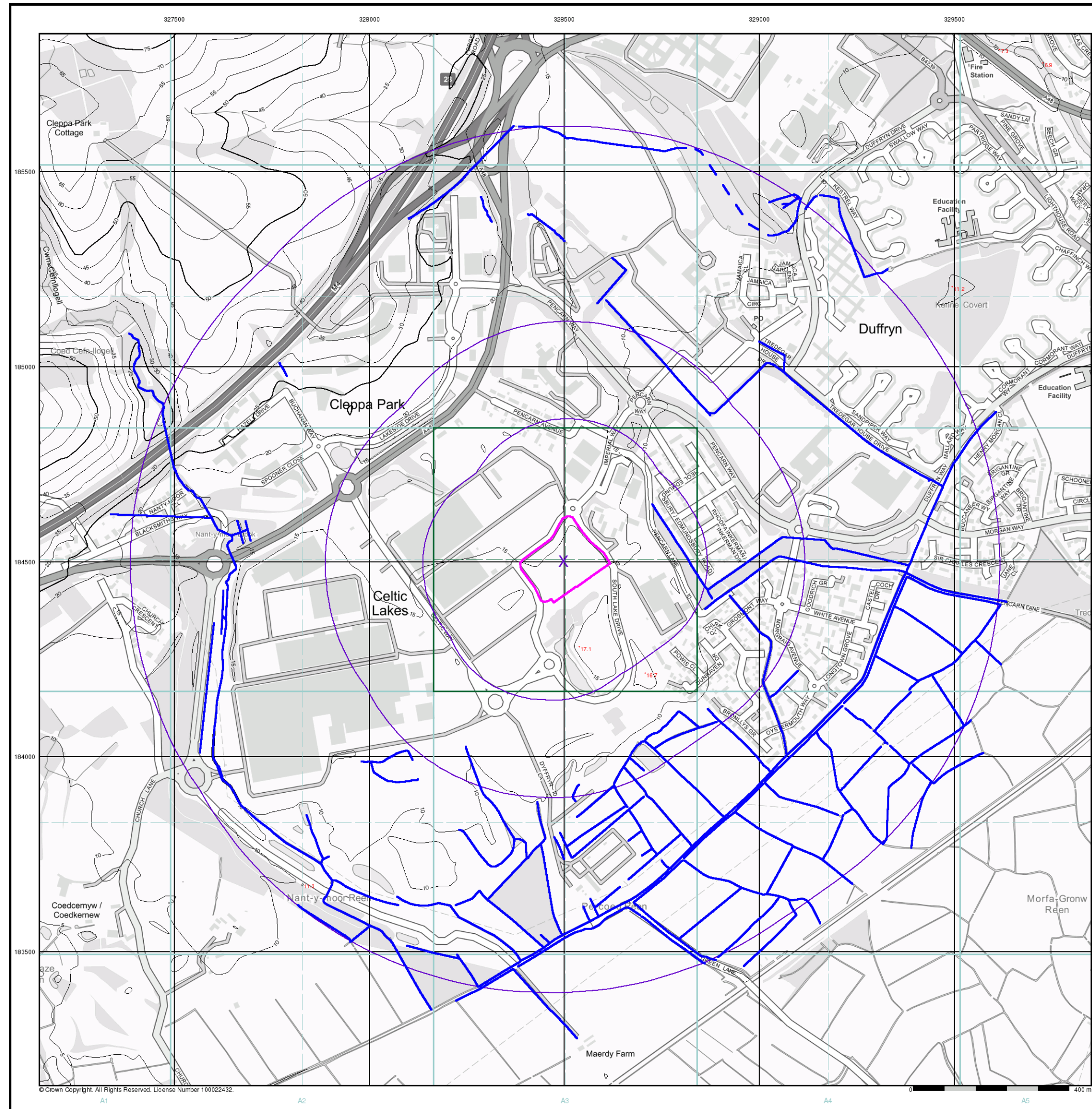


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport



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General

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

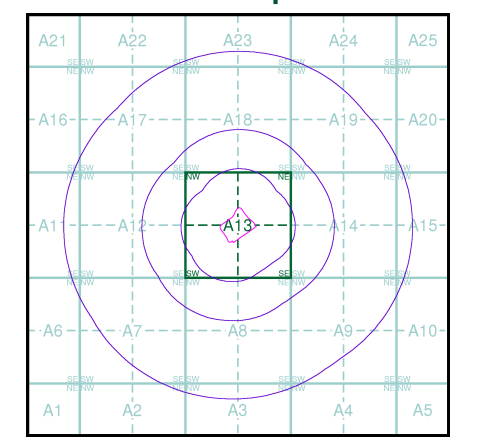
OS Water Network Data

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

Contours (height in meters)

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

OS Water Network Map - Slice A



Order Details

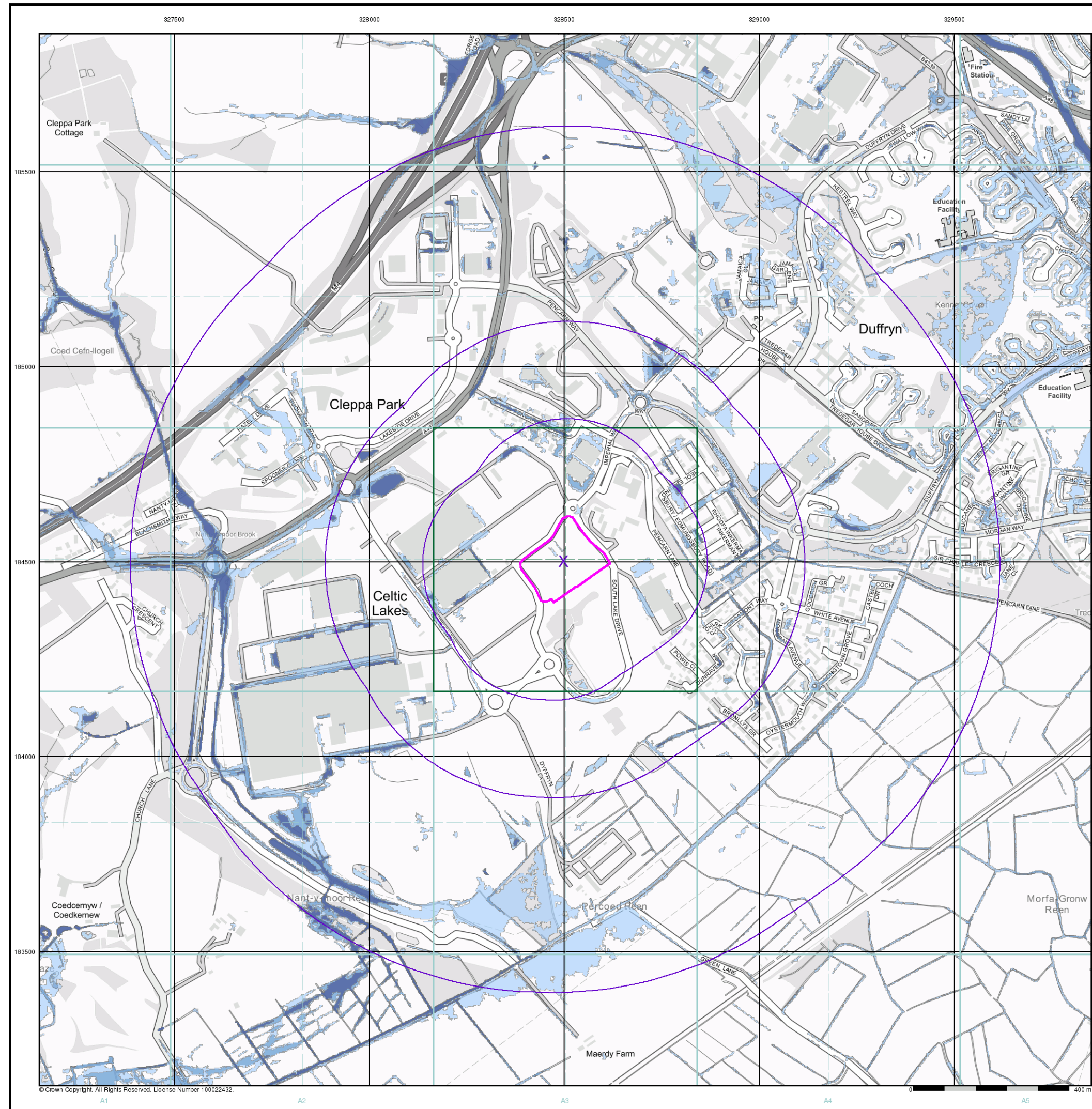
Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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General

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

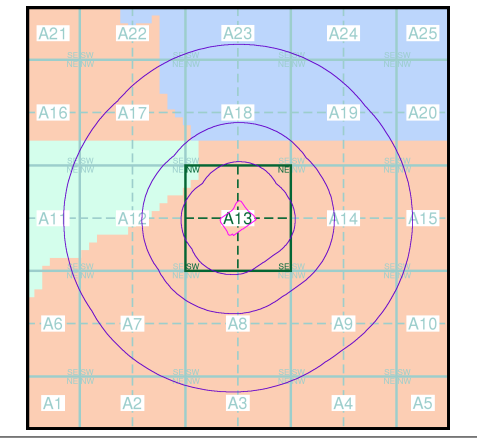
Risk of Flooding from Surface Water

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

Suitability

- See the suitability map below
- National to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Property

EANRW Suitability Map - Slice A

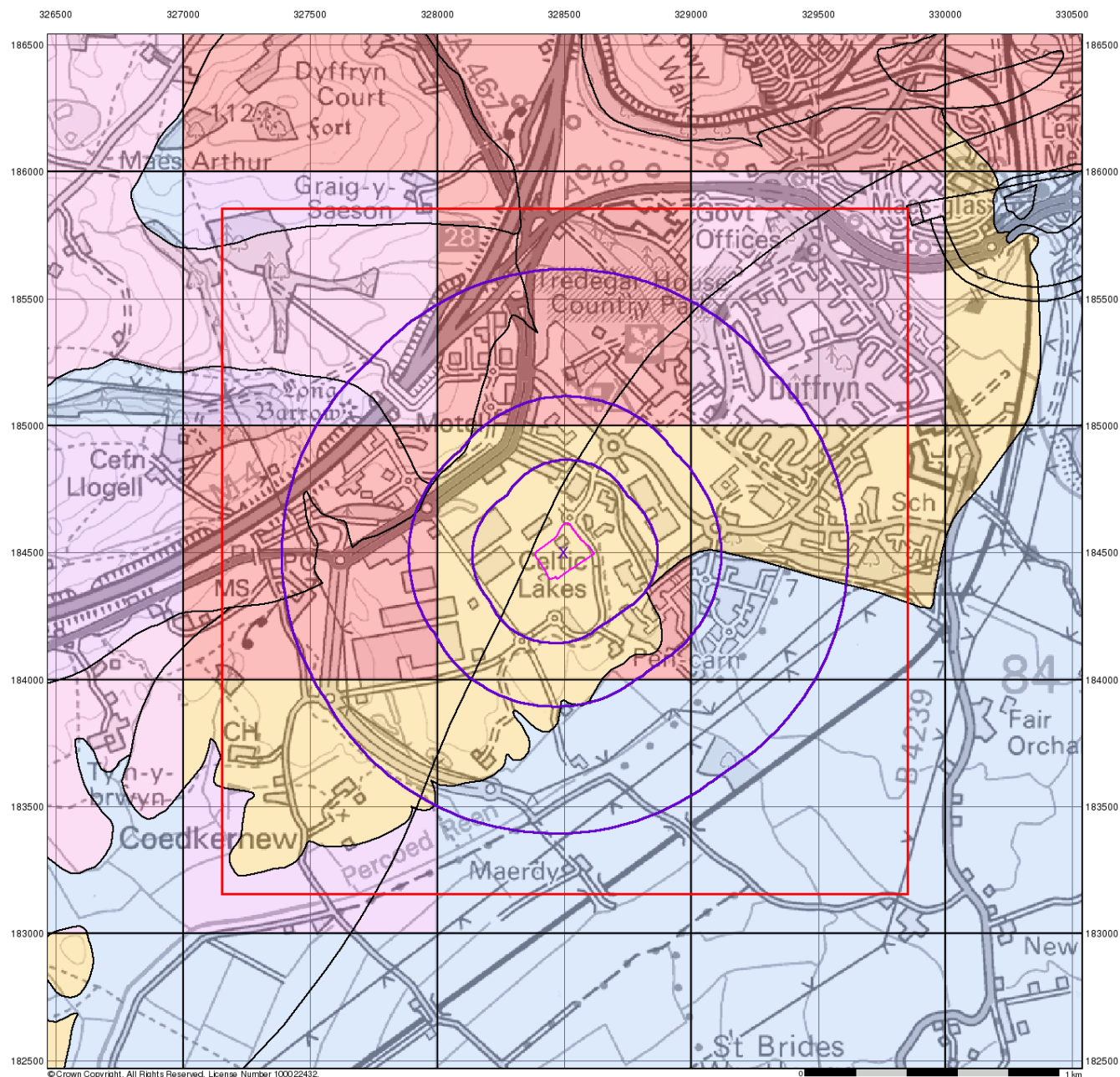


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport



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Groundwater Vulnerability

General

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

Agency and Hydrological

Bedrock Aquifers

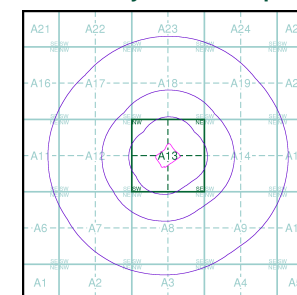
- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

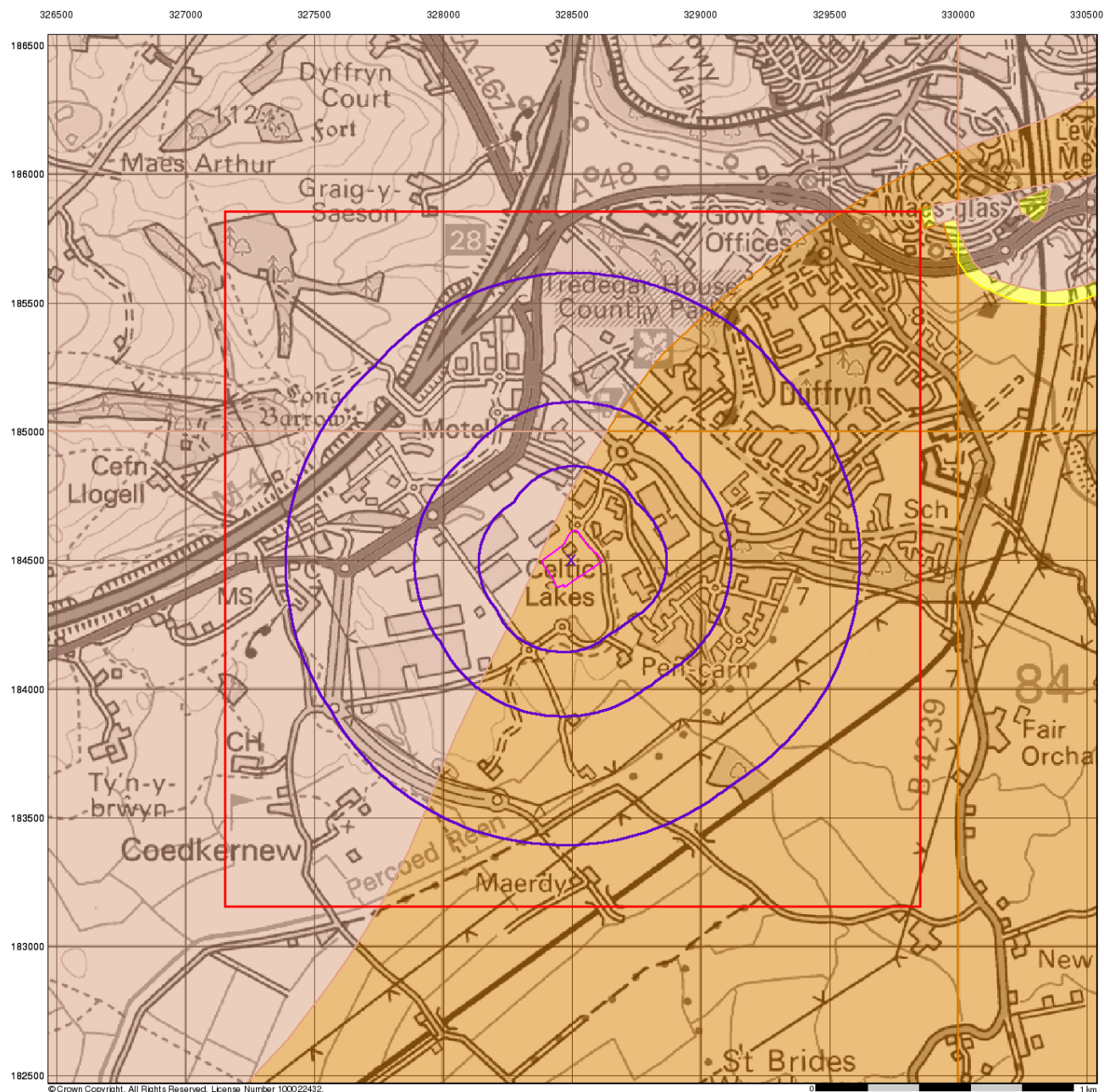
Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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Bedrock Aquifer Designation

General

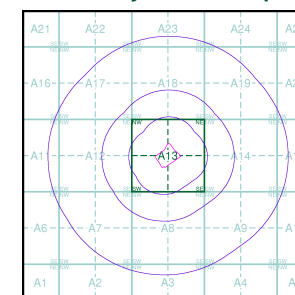
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

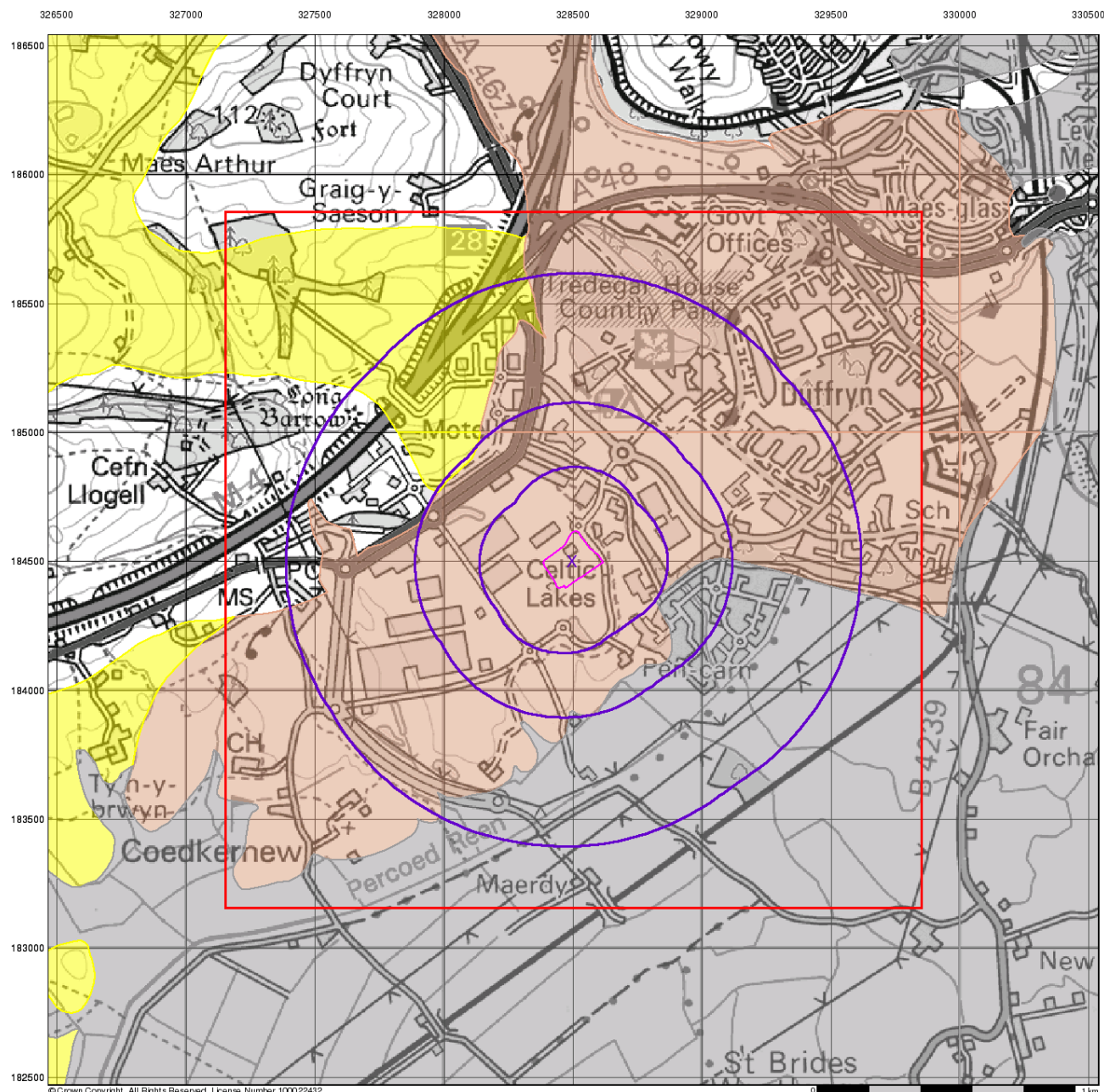
Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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Superficial Aquifer Designation

General

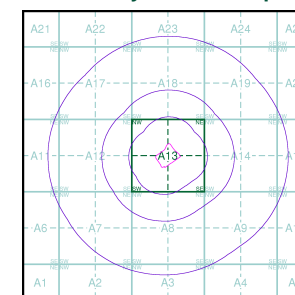
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

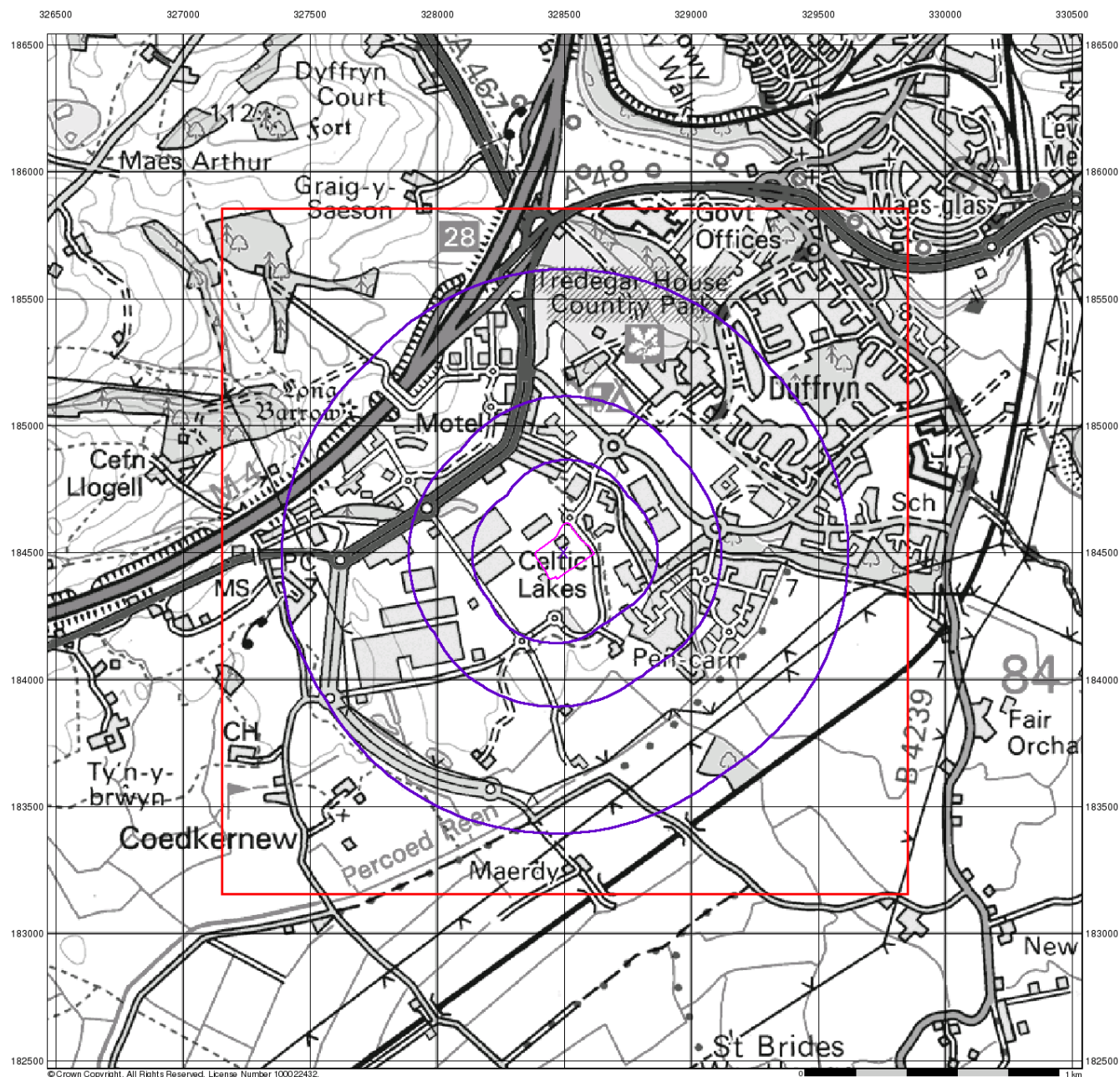
Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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Source Protection Zones

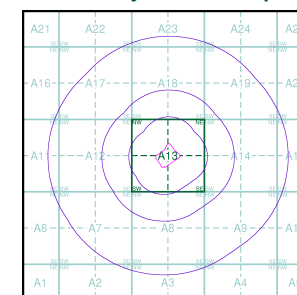
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

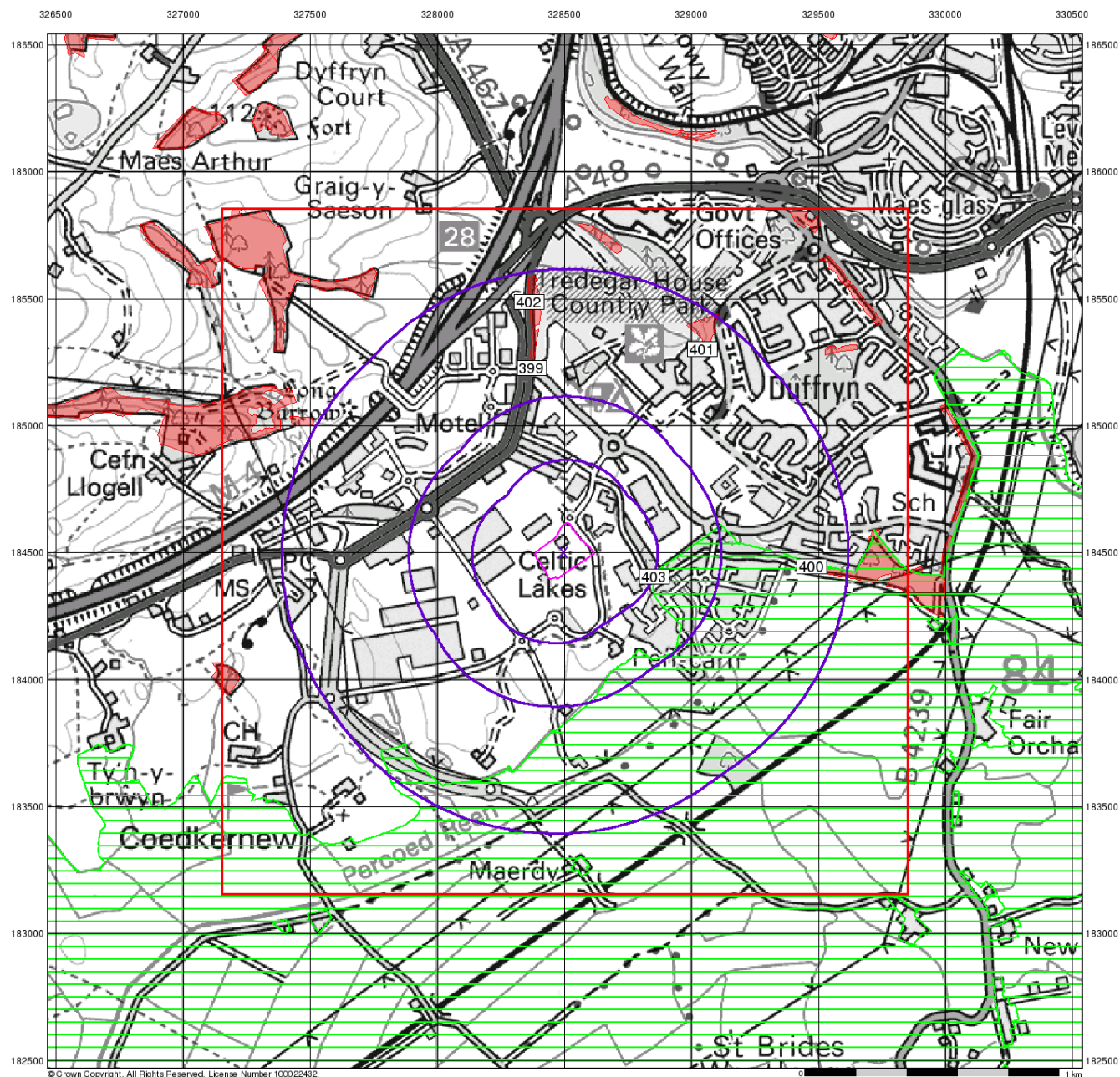
Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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Sensitive Land Uses

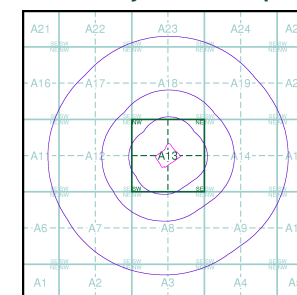
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

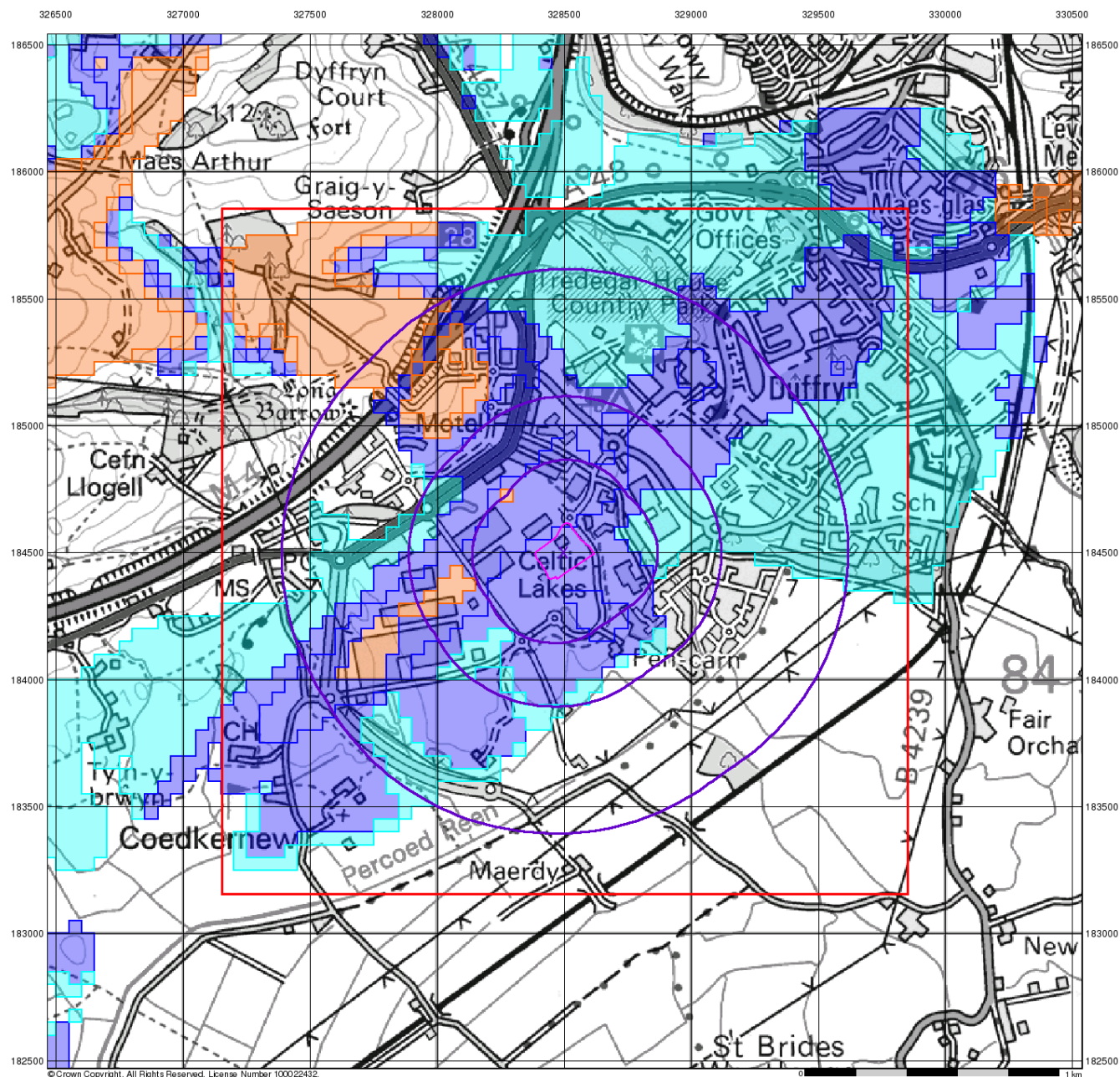
Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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BGS Flood GFS Data

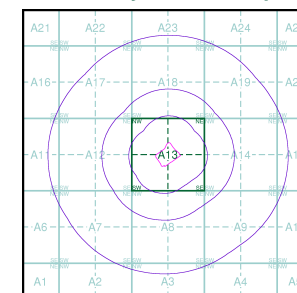
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 256105007_1_1
 Customer Ref: 5197938
 National Grid Reference: 328500, 184500
 Slice: A
 Site Area (Ha): 2.68
 Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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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



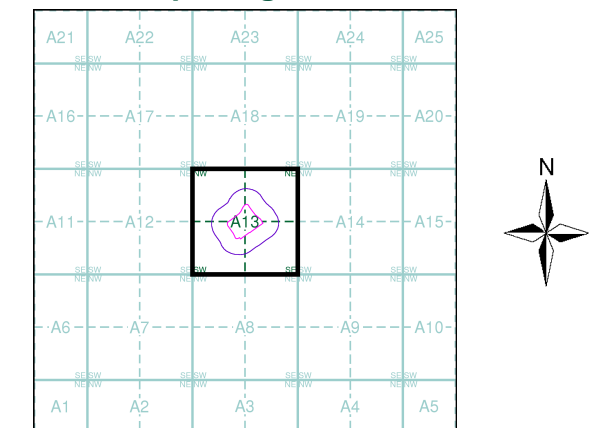
Envirocheck®

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1883	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920 - 1921	4
Monmouthshire	1:2,500	1937	5
Ordnance Survey Plan	1:2,500	1967	6
Large-Scale National Grid Data	1:2,500	1993	7
Large-Scale National Grid Data	1:2,500	1996	8
Historical Aerial Photography	1:2,500	2000	9

Historical Map - Segment A13



Order Details

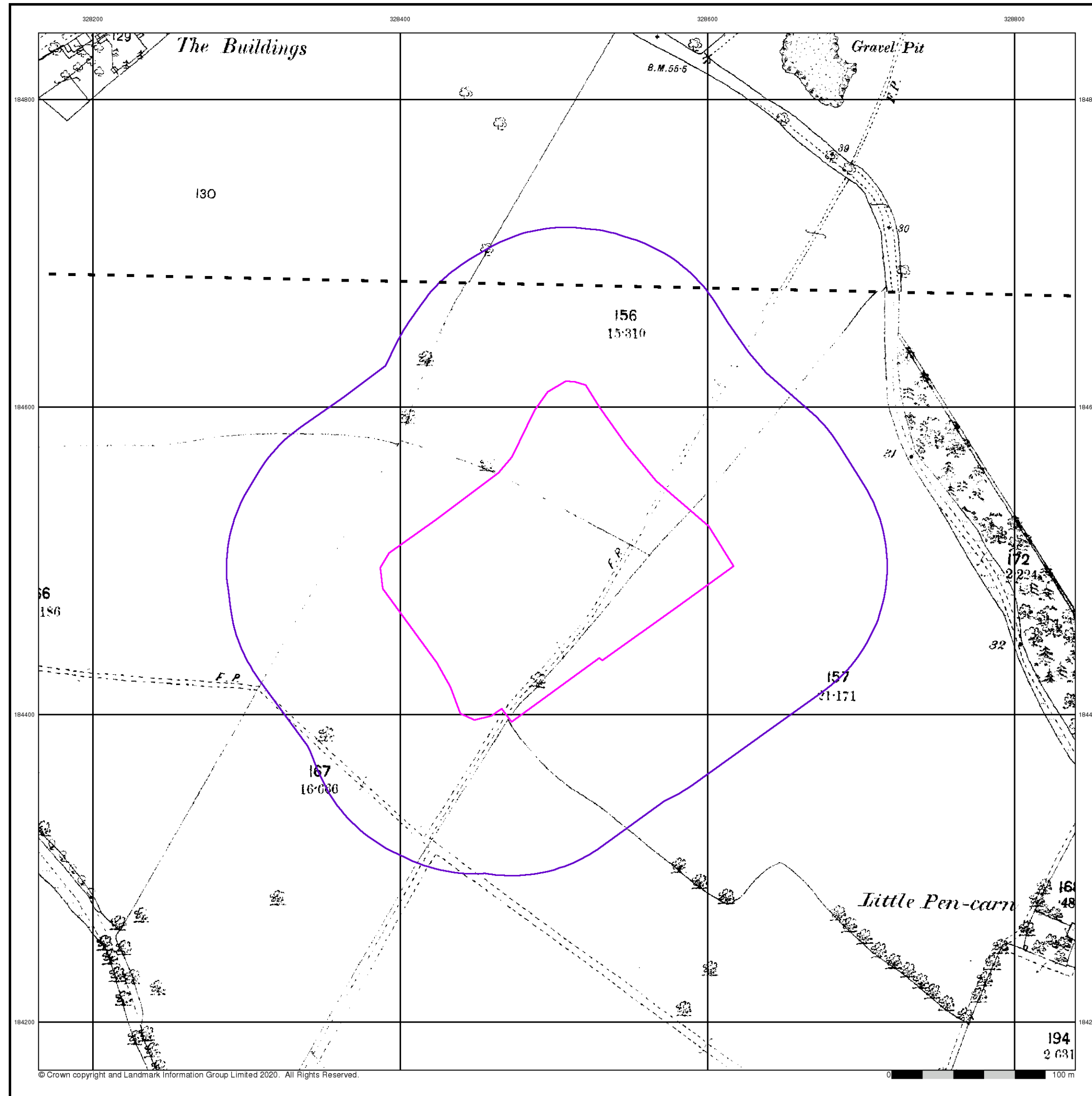
Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport

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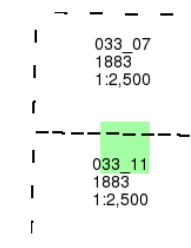
Monmouthshire

Published 1883

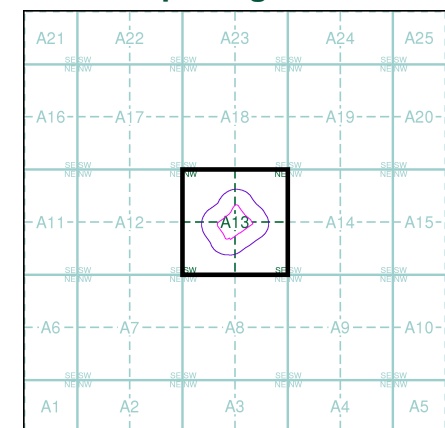
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

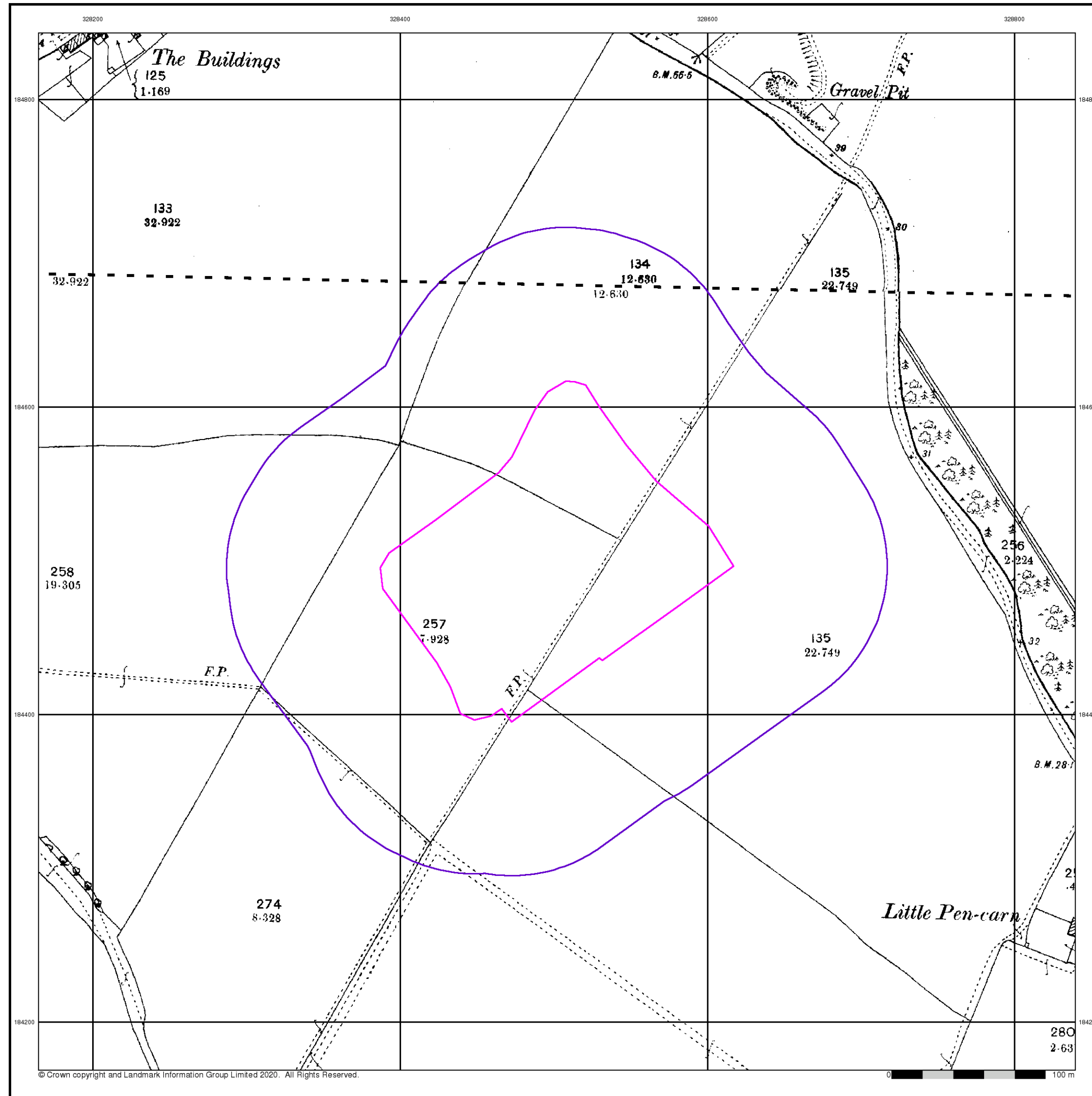


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport



Monmouthshire

Published 1901

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)

033_07
1901
1:2,500

033_11
1901
1:2,500

Historical Map - Segment A13

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

Order Number:

256105007_1_1

Customer Ref:

5197938

National Grid Reference:

328500, 184500

Slice:

A

Site Area (Ha):

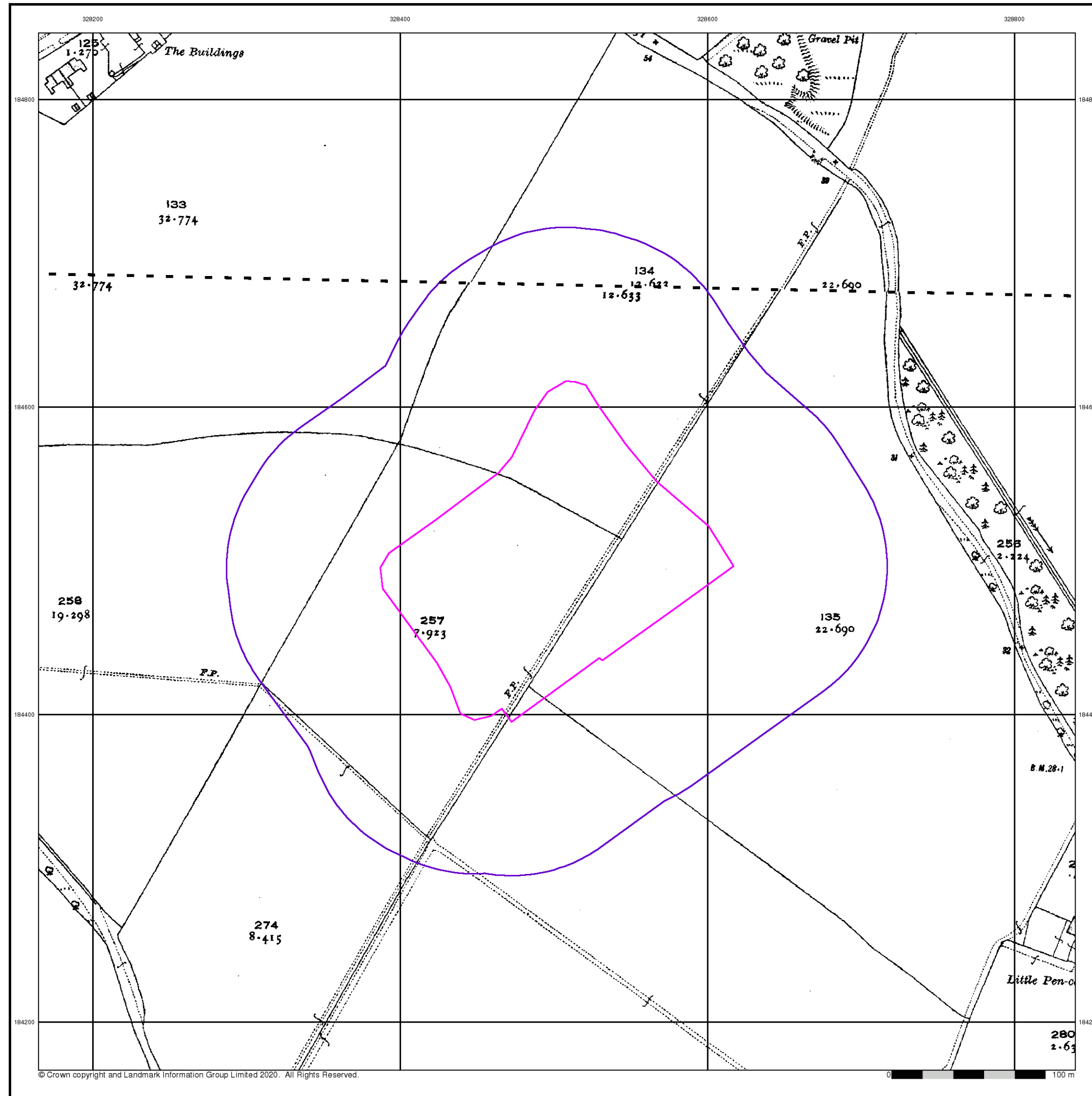
2.68

Search Buffer (m):

100

Site Details

Site at, Newport/Casnewydd, Newport



Monmouthshire

Published 1920 - 1921

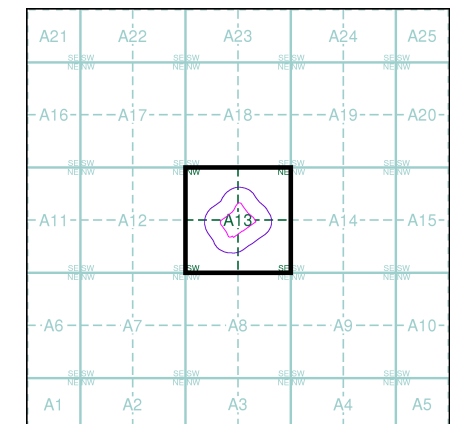
Source map scale - 1:2,500

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)

033_07
1921
1:2,500
033_11
1920
1:2,500

Historical Map - Segment A13

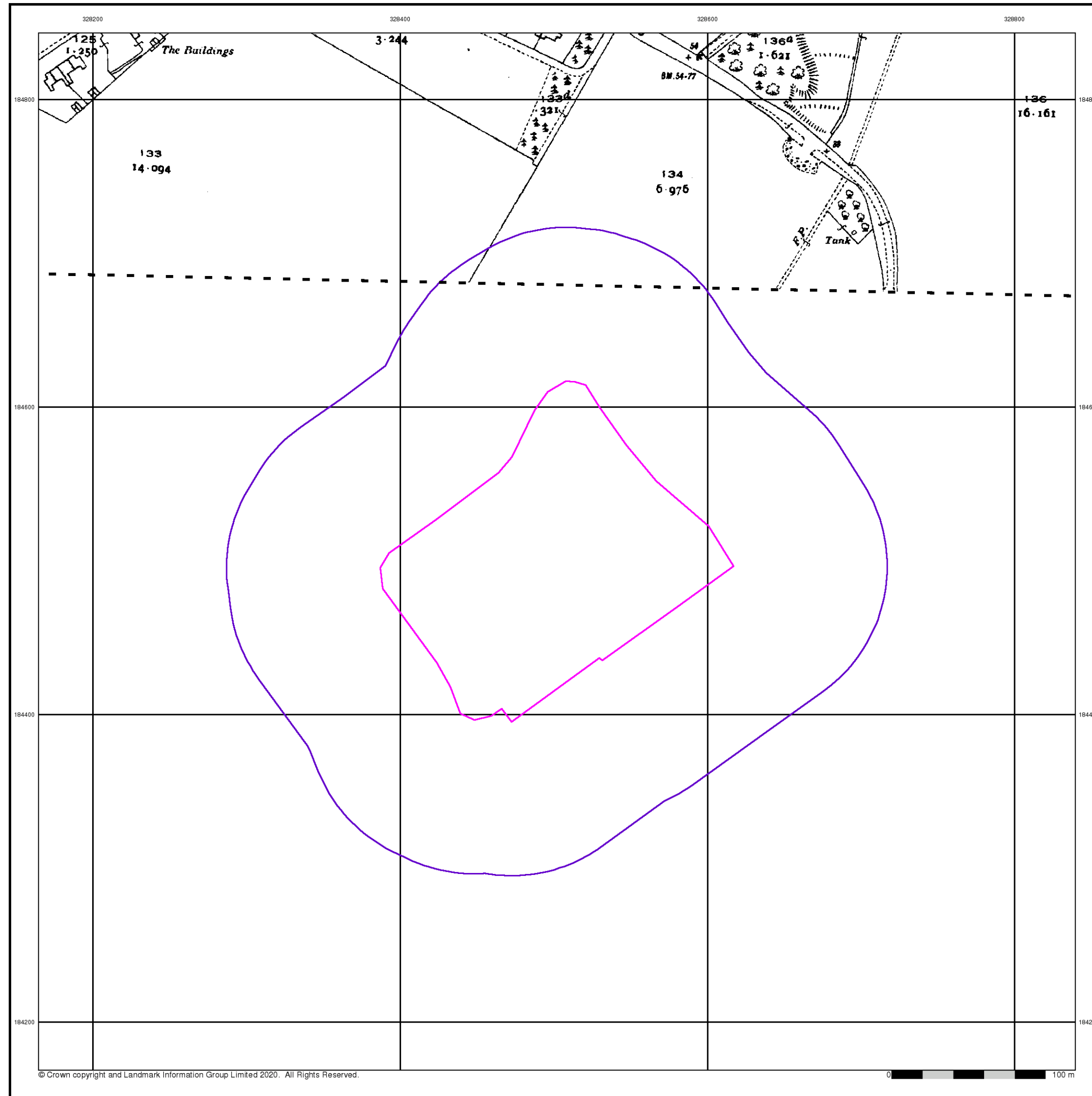


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport



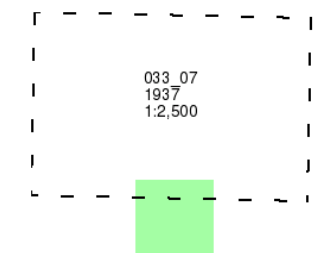
Monmouthshire

Published 1937

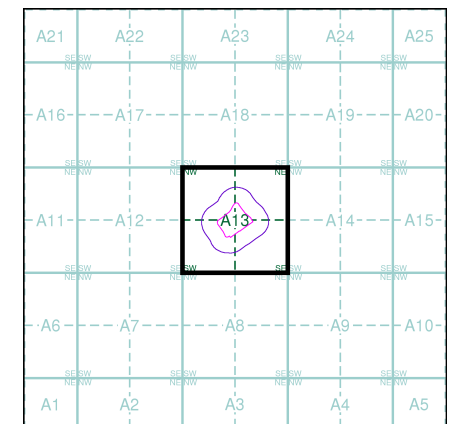
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

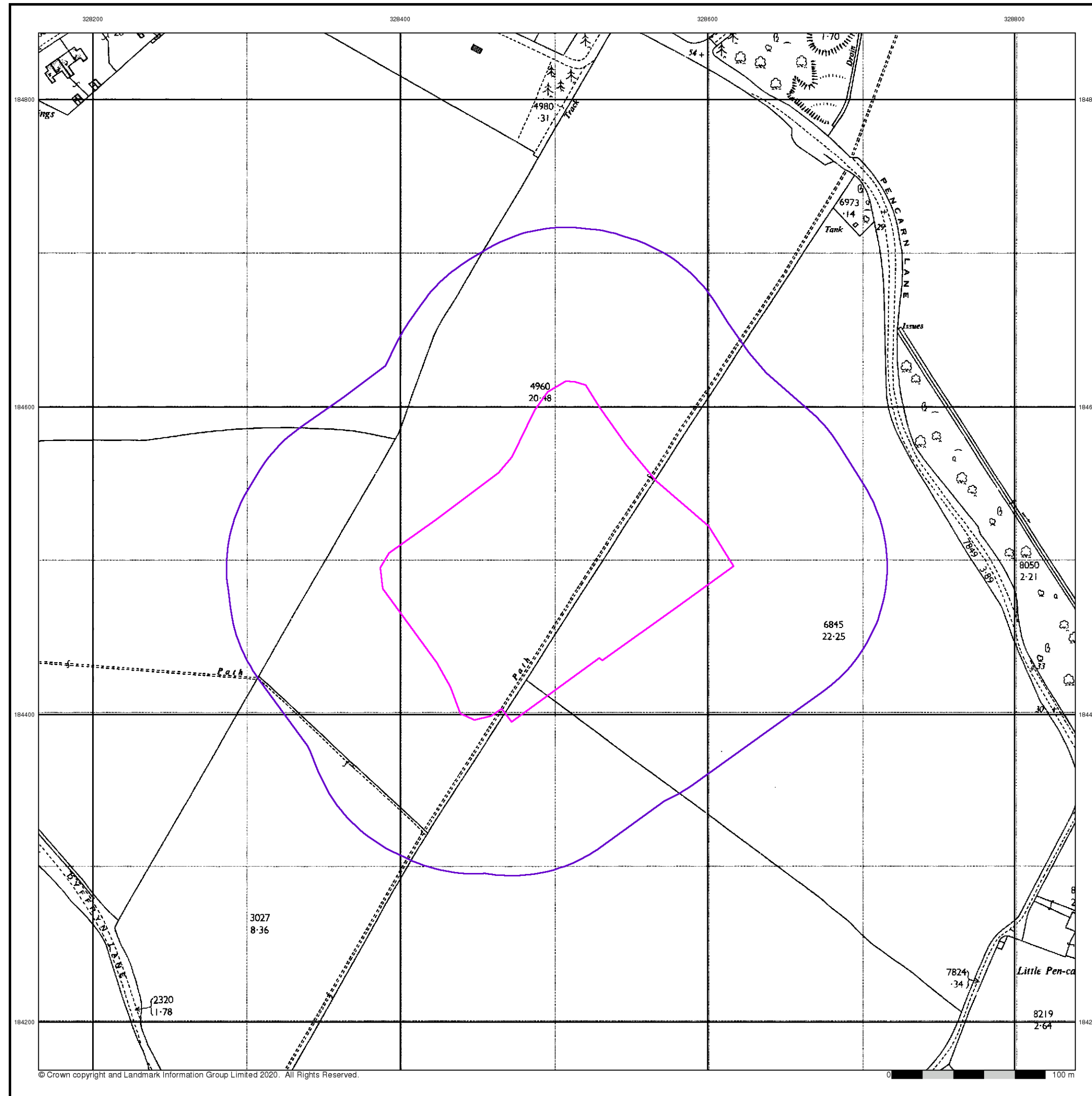


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport



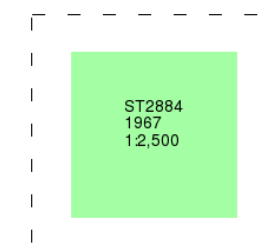
Ordnance Survey Plan

Published 1967

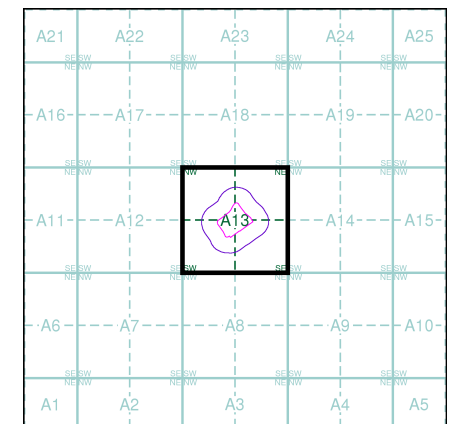
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

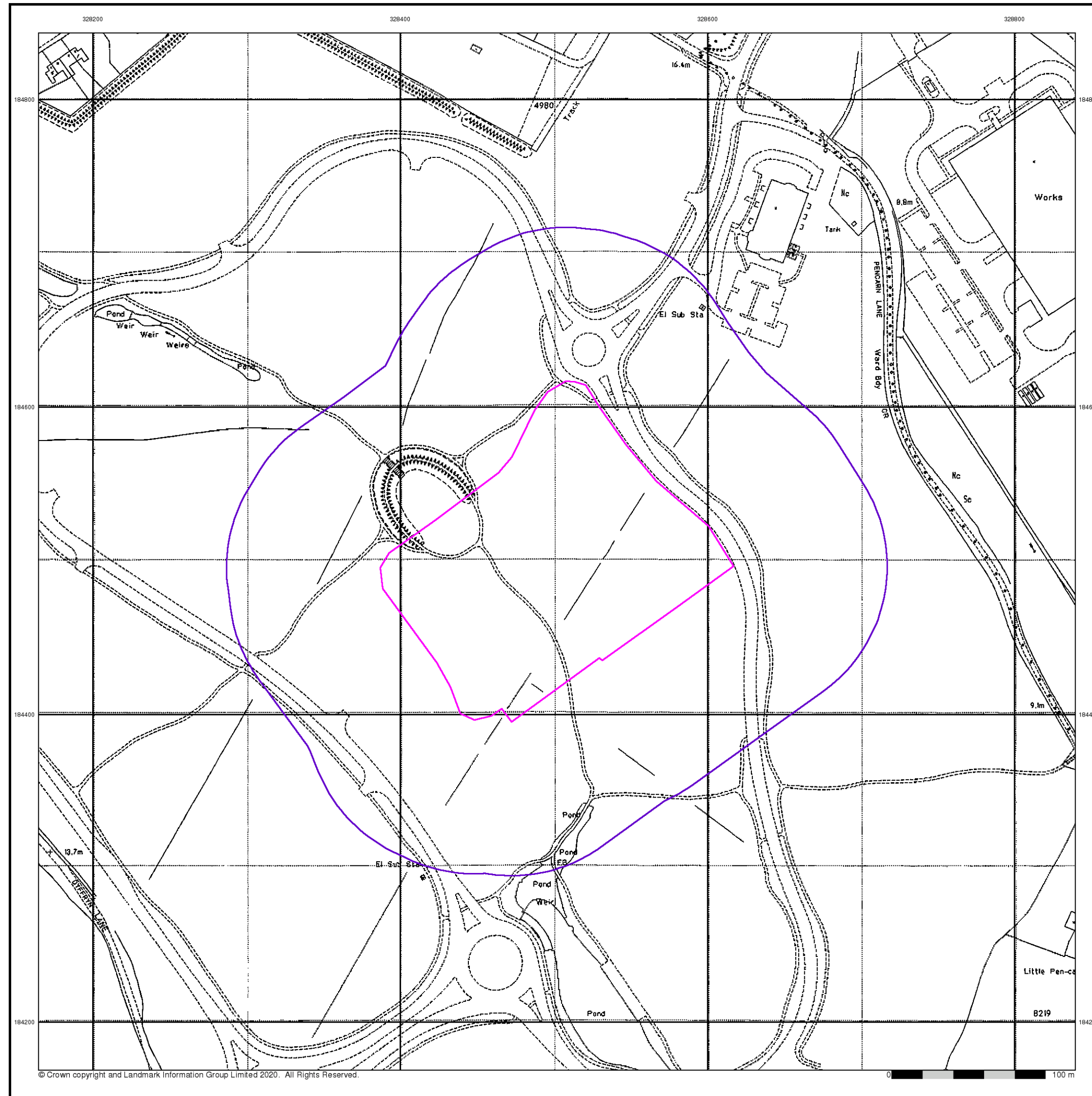


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport



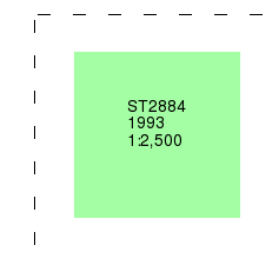
Large-Scale National Grid Data

Published 1993

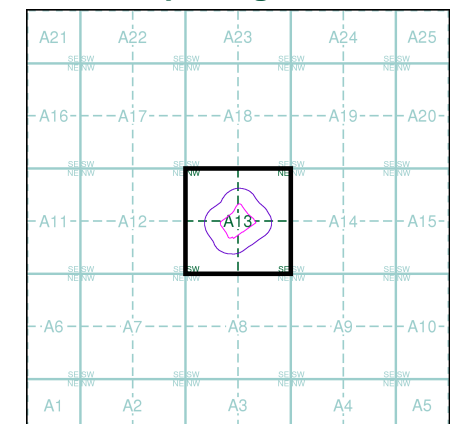
Source map scale - 1:2,500

'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

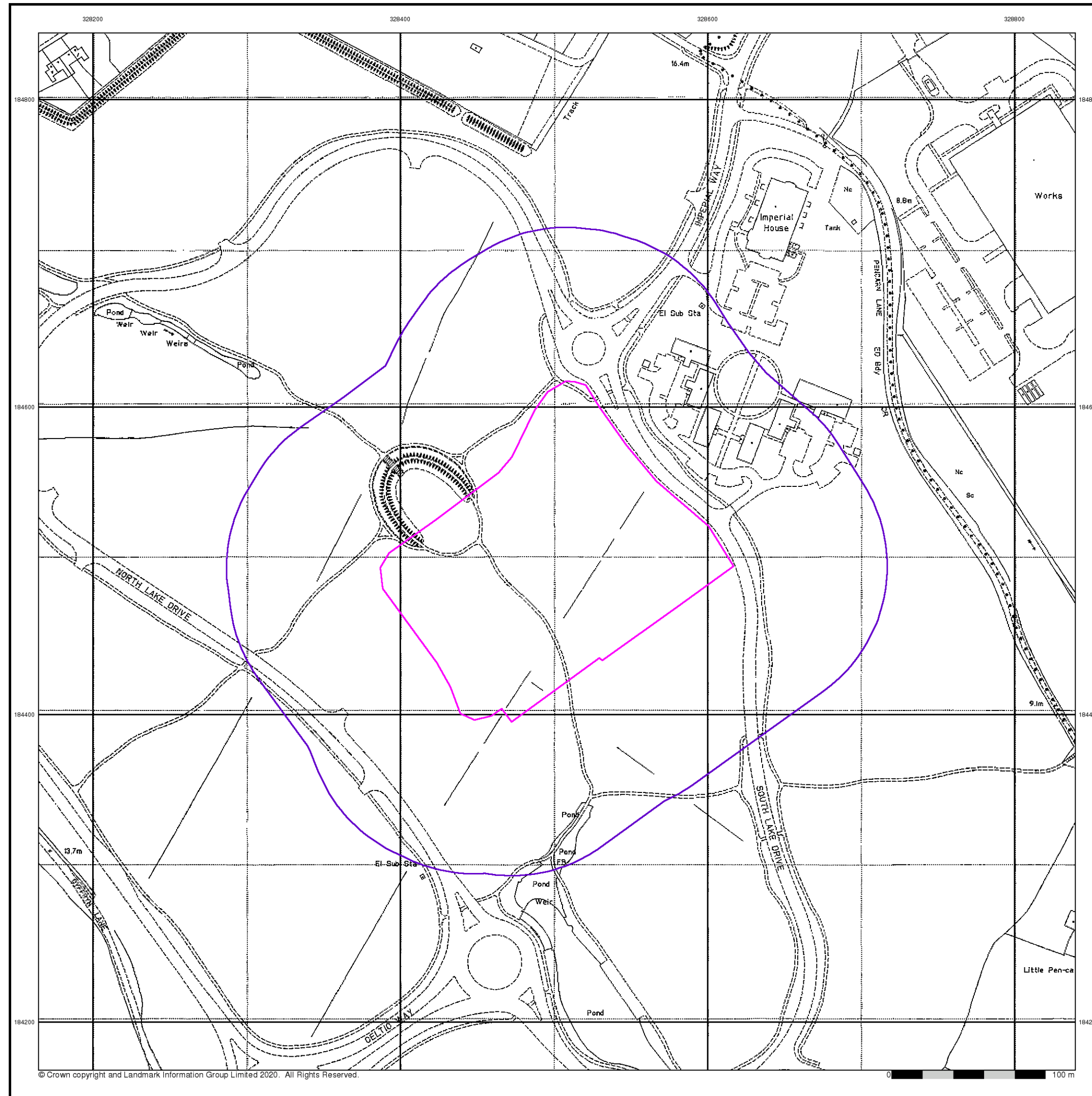


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport



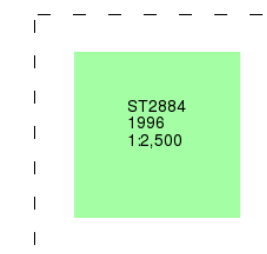
Large-Scale National Grid Data

Published 1996

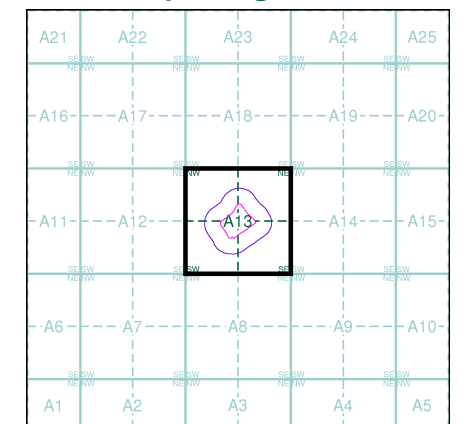
Source map scale - 1:2,500

'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

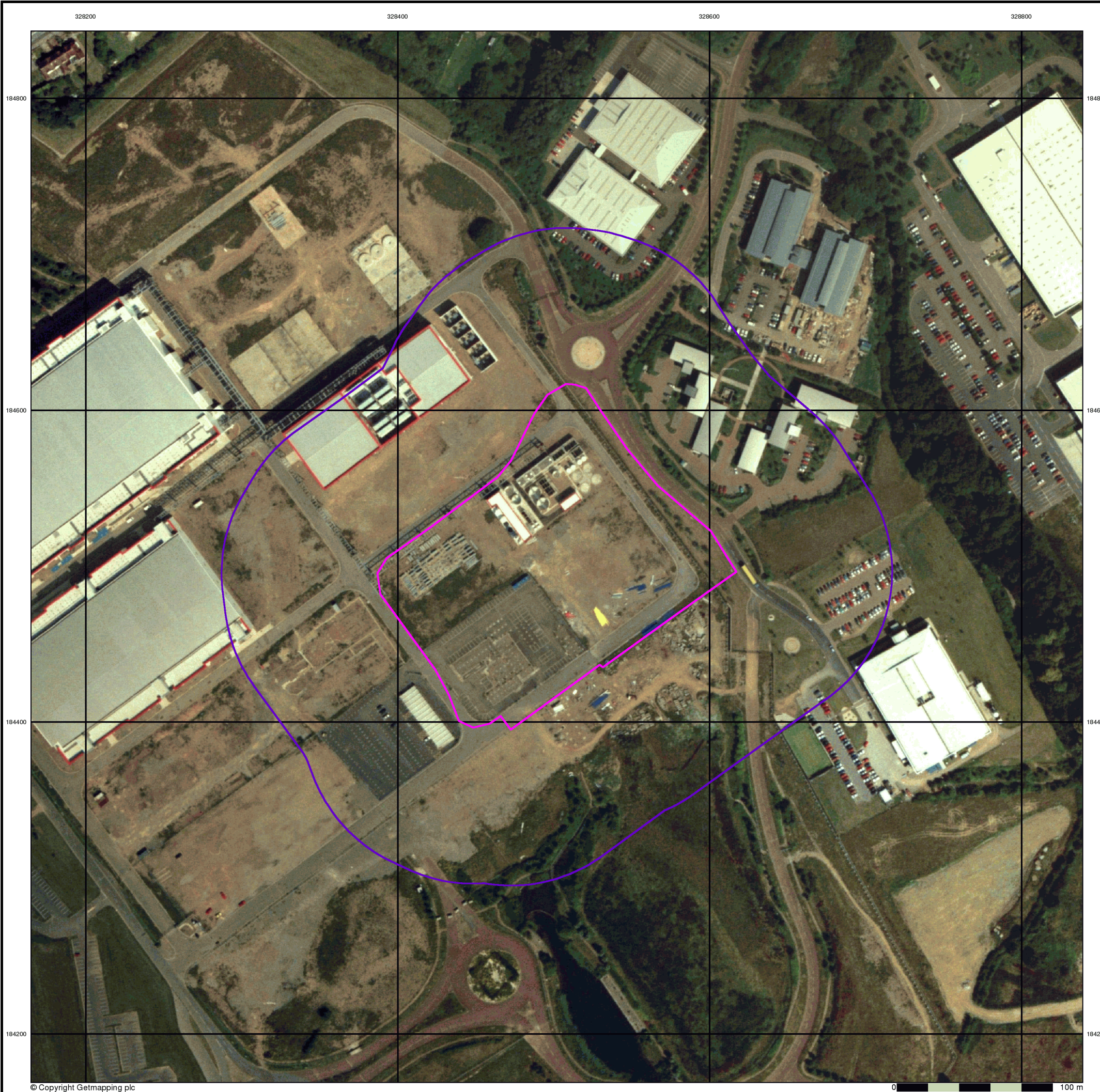


Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport

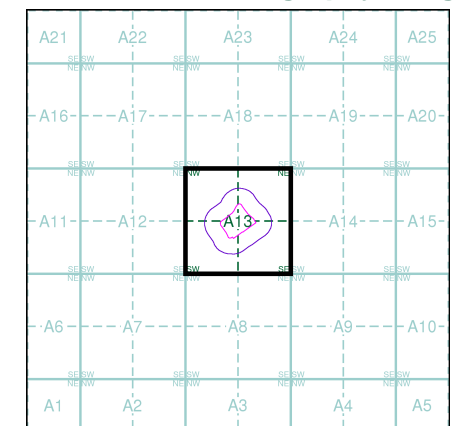


Historical Aerial Photography

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



Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 100

Site Details

Site at, Newport/Casnewydd, Newport

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

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

1:10,000 Raster Mapping

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

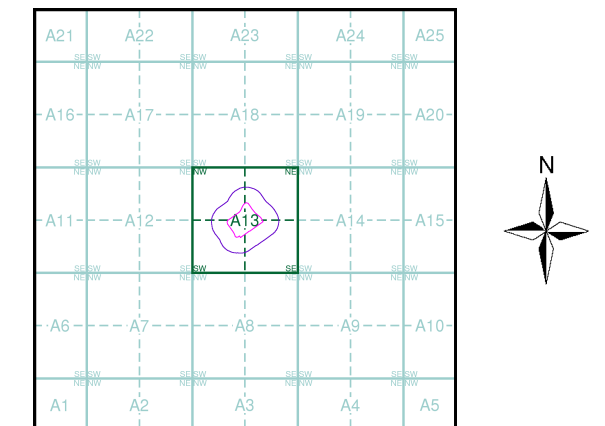
Envirocheck®

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1887	3
Glamorganshire	1:10,560	1901	4
Monmouthshire	1:10,560	1902	5
Glamorganshire	1:10,560	1922	6
Monmouthshire	1:10,560	1922	7
Monmouthshire	1:10,560	1938 - 1954	8
Historical Aerial Photography	1:10,560	1947	9
Glamorganshire	1:10,560	1953	11
Monmouthshire	1:10,560	1954	12
Ordnance Survey Plan	1:10,000	1964	13
Ordnance Survey Plan	1:10,000	1970 - 1972	14
Ordnance Survey Plan	1:10,000	1982 - 1989	15
Newport	1:10,000	1983	16
Ordnance Survey Plan	1:10,000	1992 - 1996	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2020	20

Historical Map - Slice A



Order Details

Order Number: 256105007_1_1
Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

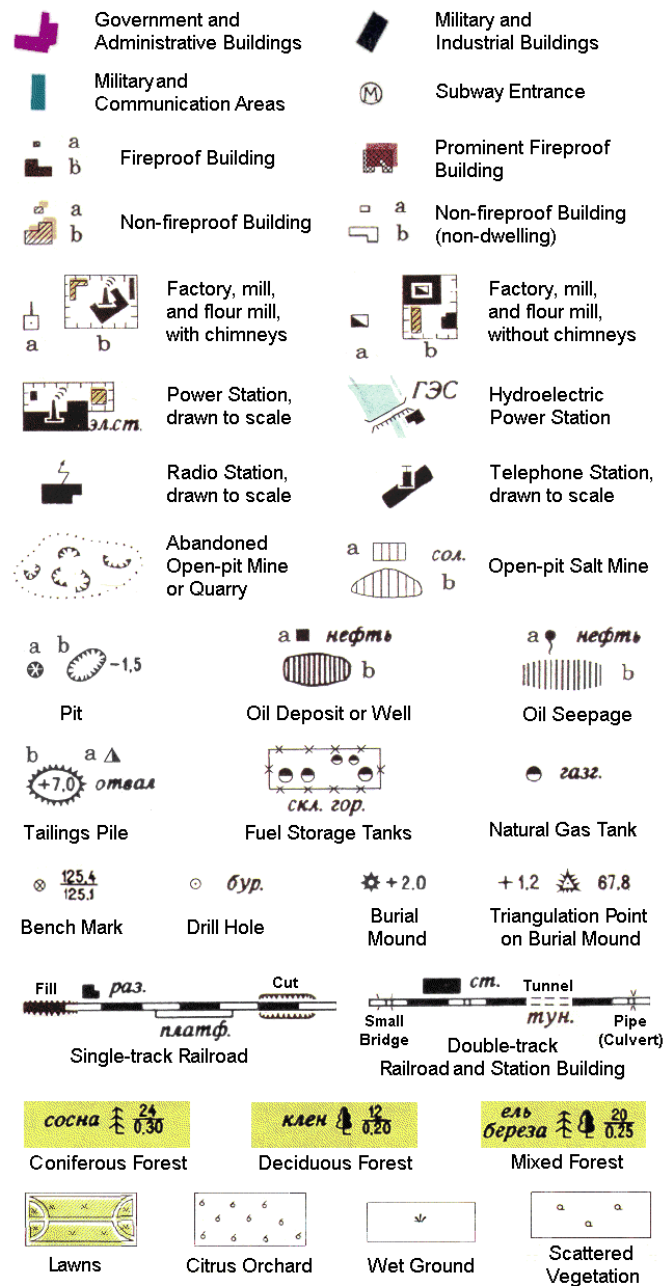
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Russian Military Mapping Legends

1:5,000 and 1:10,000 mapping

a. Not drawn to scale b. Drawn to scale



243.8 Values for prominent elevations

186.0 Numbers for spot elevations, depth soundings, contour lines, etc.

0.2 Velocity of the current, width of river bed, depth of river

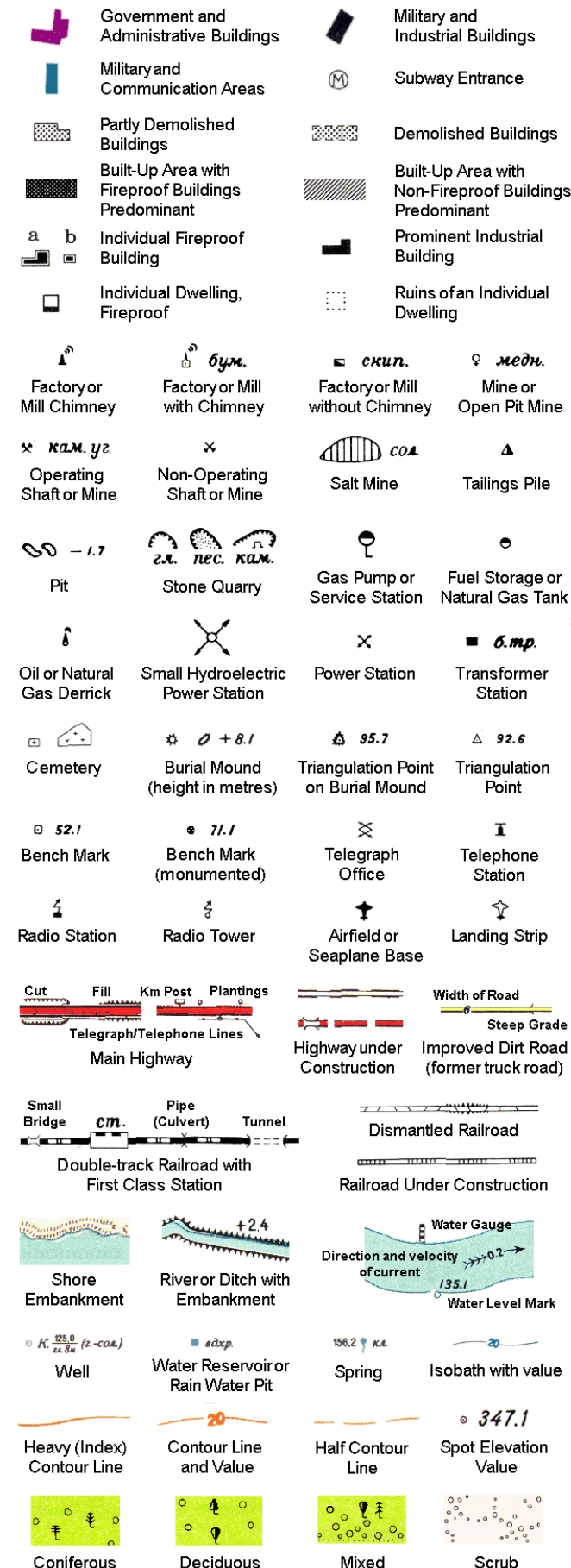
180 180 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

Russian Alphabet (For reference and phonetic interpretation of map text)

А а (A)	З з (Z)	П п (P)	Ч ч (CH)
Б б (B)	И и (I)	Р р (R)	Ш ш (SH)
В в (V)	Й й (Y)	С с (S)	Щ щ (SHCH)
Г г (G)	К к (K)	Т т (T)	Ъ (-)
Д д (D)	Л л (L)	У у (U)	Ы (Y)
Е е (E)	М м (M)	Ф ф (F)	Ь (')
Ё ё (YO)	Н н (N)	Х х (KH)	Э э (E)
Ж ж (ZH)	О о (O)	Ц ц (TS)	Ю ю (YU or IU)
			Я я (YA or IA)

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale



Key to Numbers on Mapping

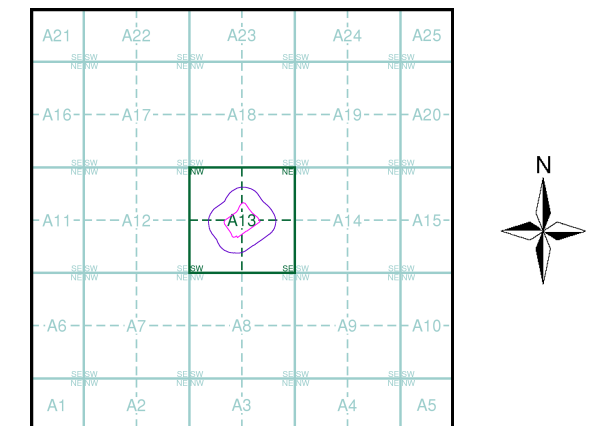
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1887	3
Glamorganshire	1:10,560	1901	4
Monmouthshire	1:10,560	1902	5
Glamorganshire	1:10,560	1922	6
Monmouthshire	1:10,560	1922	7
Monmouthshire	1:10,560	1938 - 1954	8
Historical Aerial Photography	1:10,560	1947	9
Historical Aerial Photography	1:10,560	1947	10
Glamorganshire	1:10,560	1953	11
Monmouthshire	1:10,560	1954	12
Ordnance Survey Plan	1:10,000	1964	13
Ordnance Survey Plan	1:10,000	1970 - 1972	14
Ordnance Survey Plan	1:10,000	1982 - 1989	15
Newport	1:10,000	1983	16
Ordnance Survey Plan	1:10,000	1992 - 1996	17
10K Raster Mapping	1:10,000	1999	18
10K Raster Mapping	1:10,000	2006	19
VectorMap Local	1:10,000	2020	20

Russian Map - Slice A



Order Details

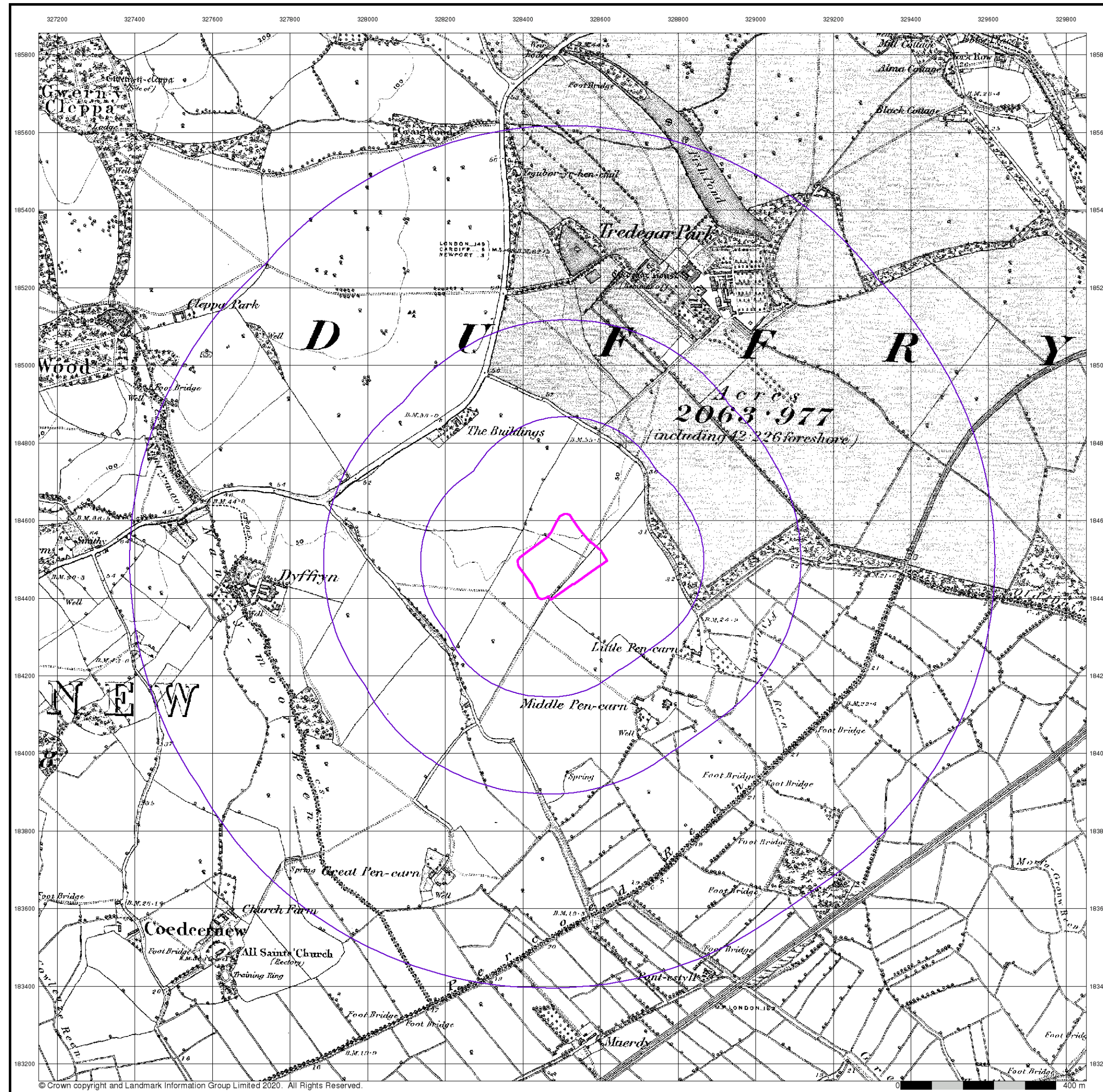
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Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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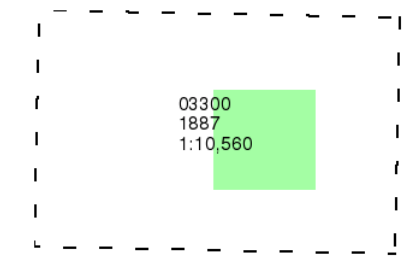
Monmouthshire

Published 1887

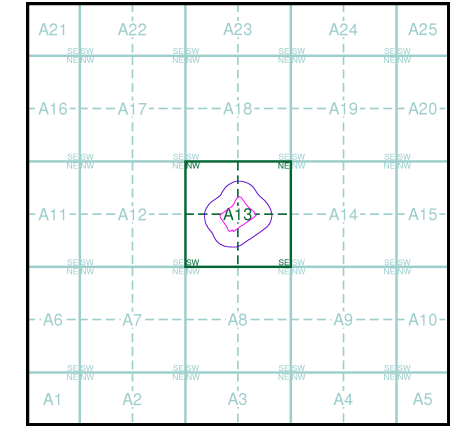
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

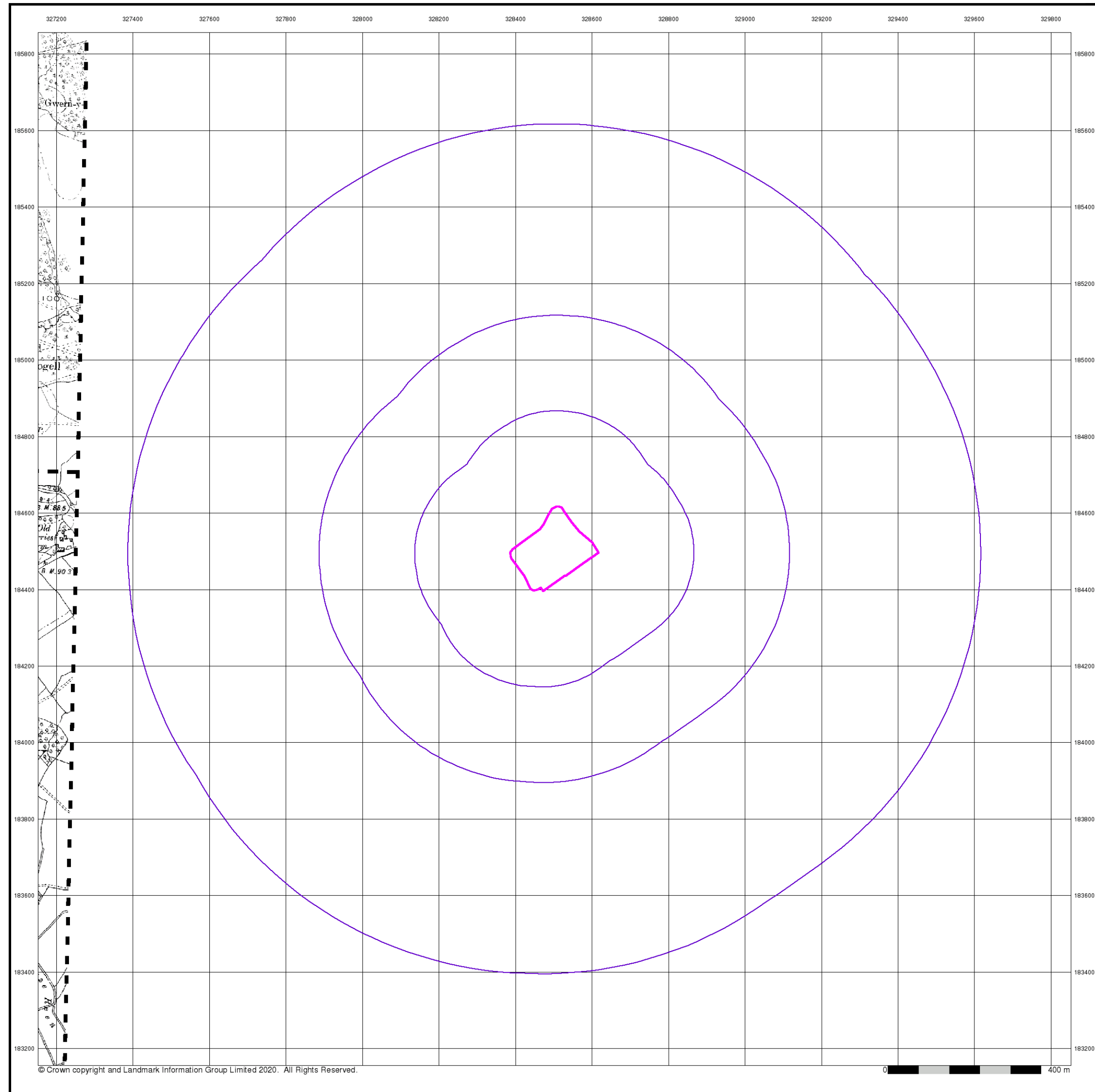
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Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

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Glamorganshire

Published 1901

Source map scale - 1:10,560

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Map Name(s) and Date(s)

038NW
1901
1:10,560

038SW
1901
1:10,560

Historical Map - Slice A

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

Order Number:	256105007_1_1
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Site Area (Ha):	2.68
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Site Details

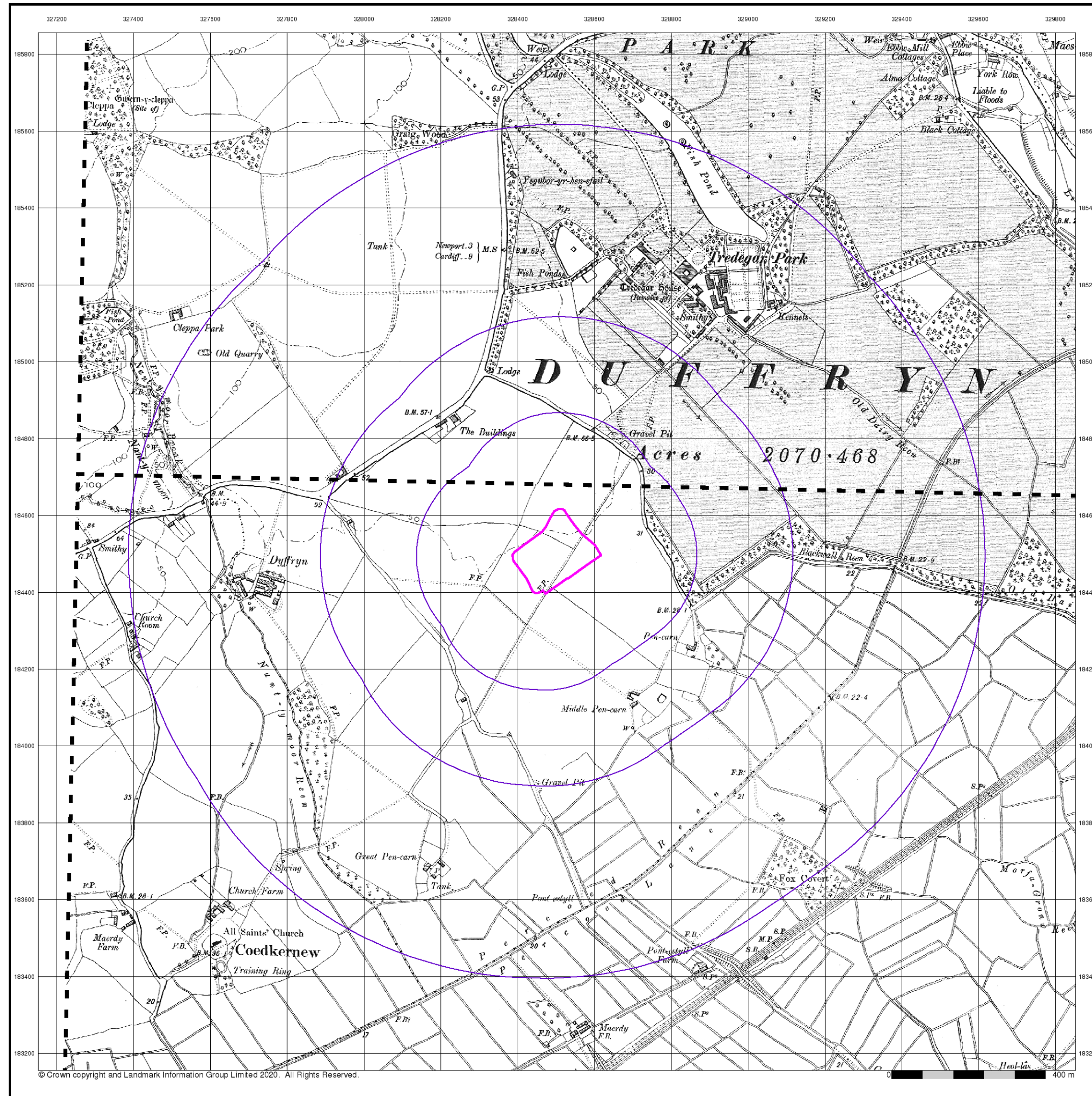
Site at, Newport/Casnewydd, Newport

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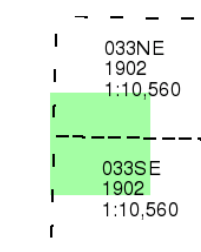
Monmouthshire

Published 1902

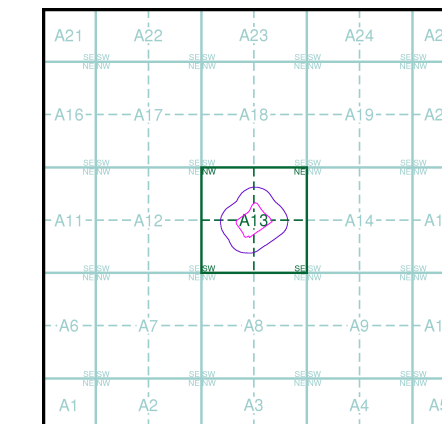
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

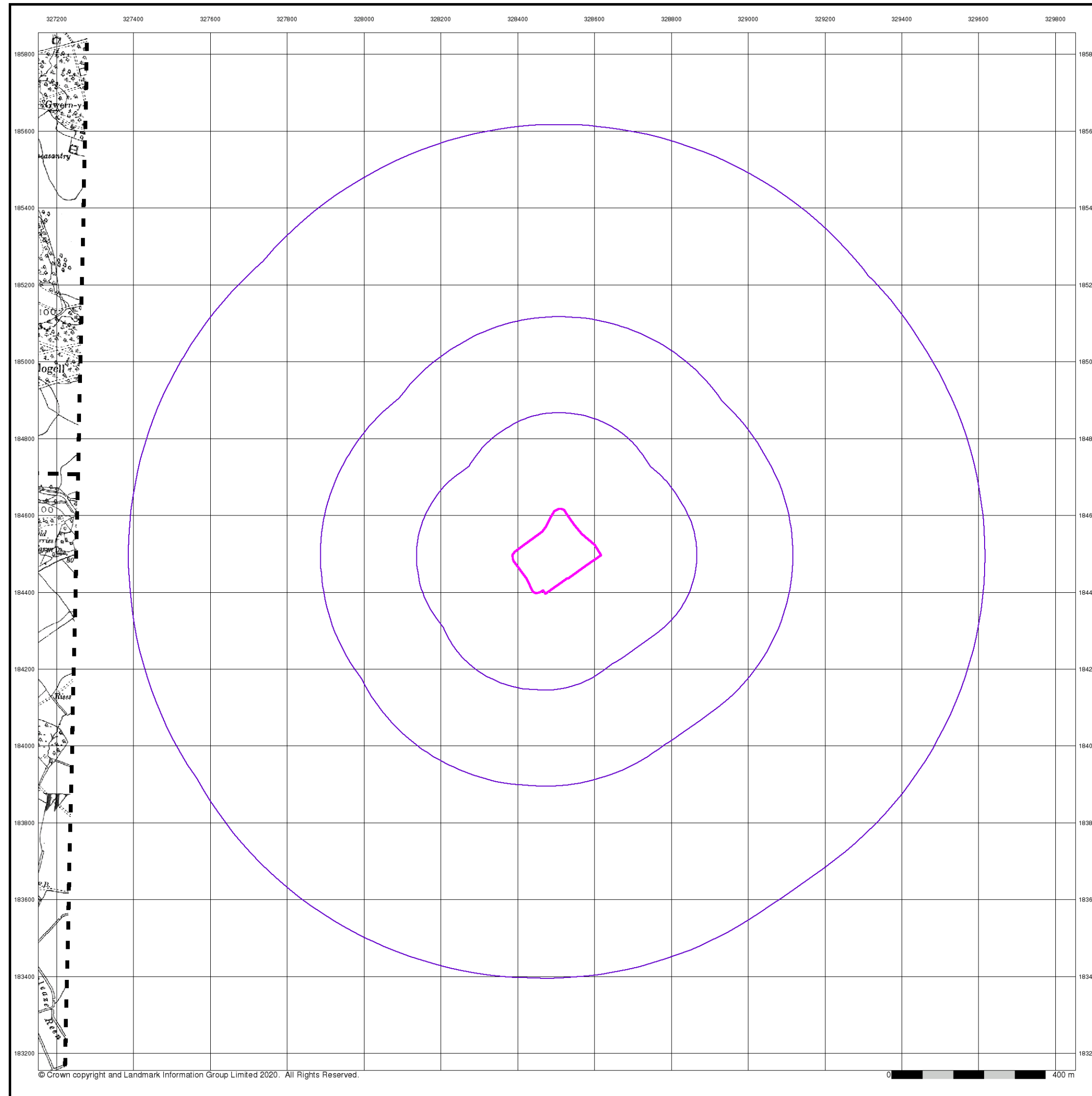
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Search Buffer (m): 1000

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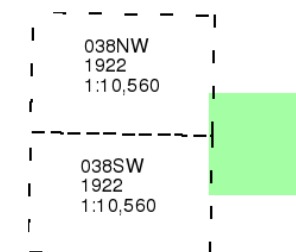
Glamorganshire

Published 1922

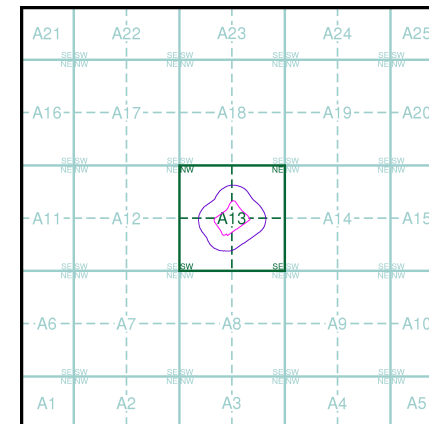
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A

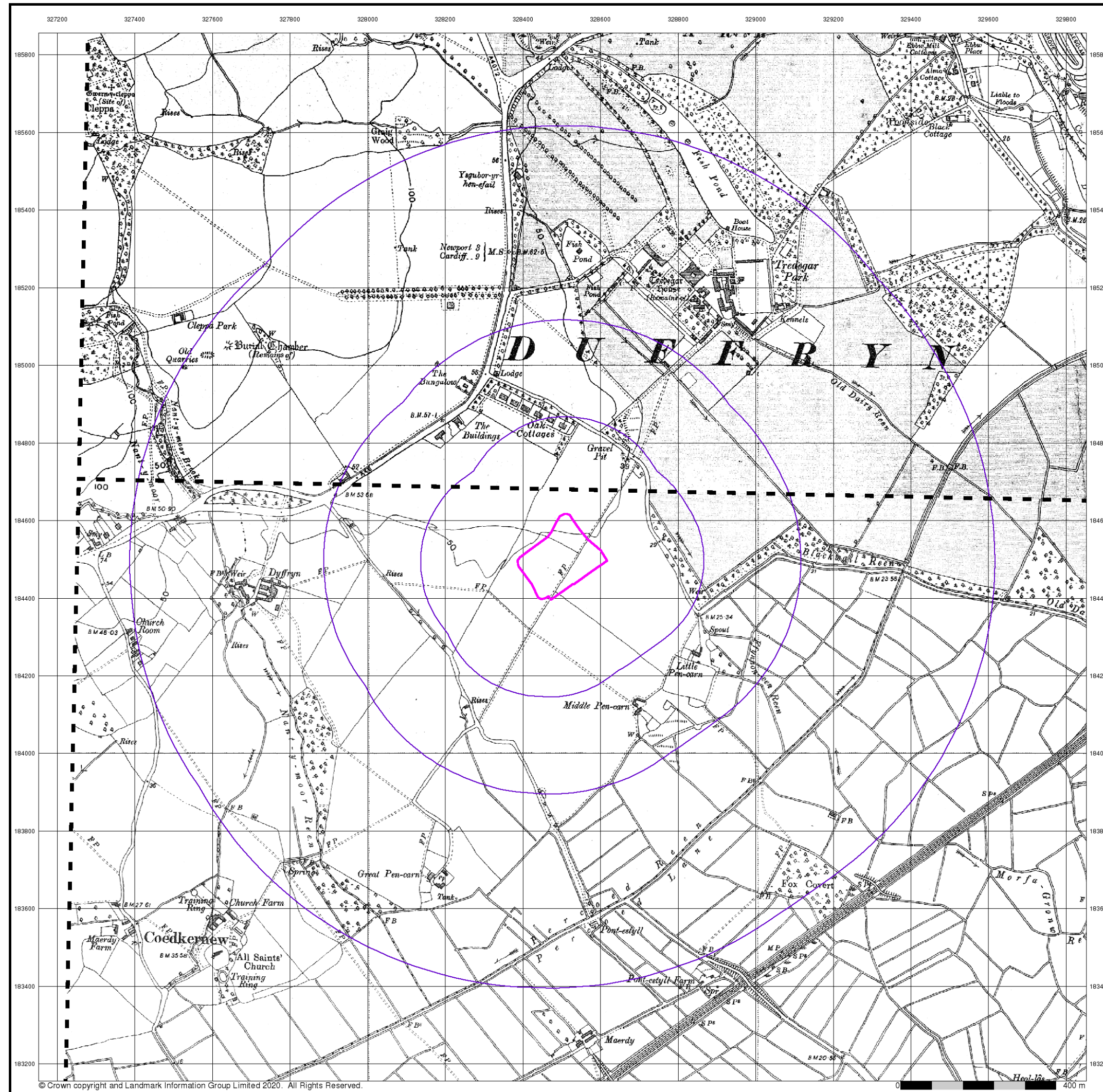


Order Details

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Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

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Monmouthshire

Published 1938 - 1954

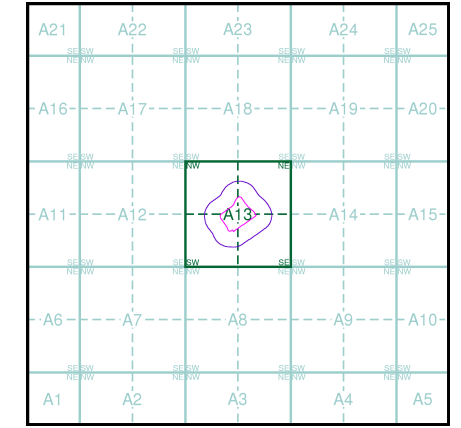
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

033NE
1938
1:10,560
033SE
1954
1:10,560

Historical Map - Slice A

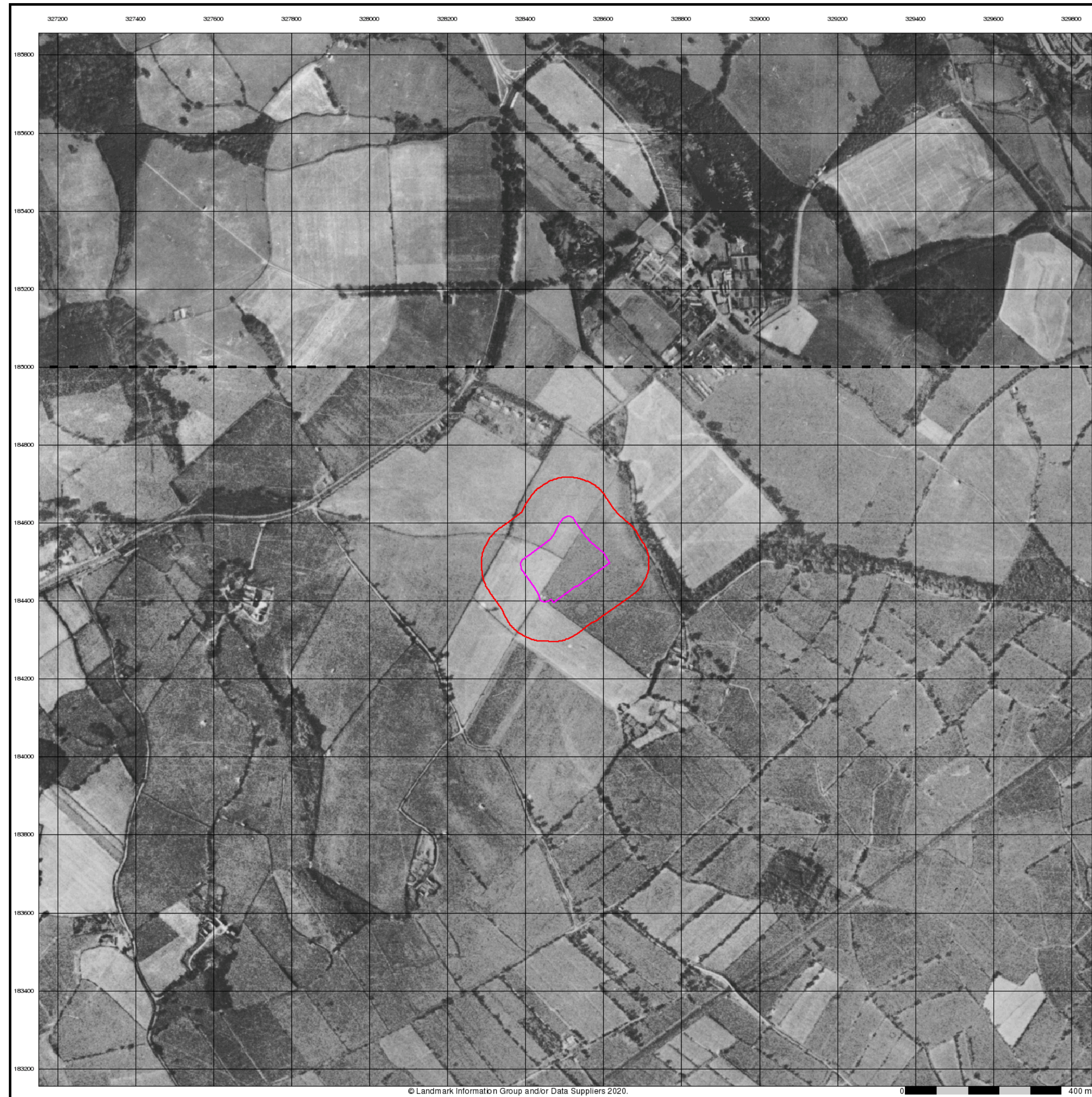


Order Details

Order Number:	256105007_1_1
Customer Ref:	5197938
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Slice:	A
Site Area (Ha):	2.68
Search Buffer (m):	1000

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0 400 m

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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

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

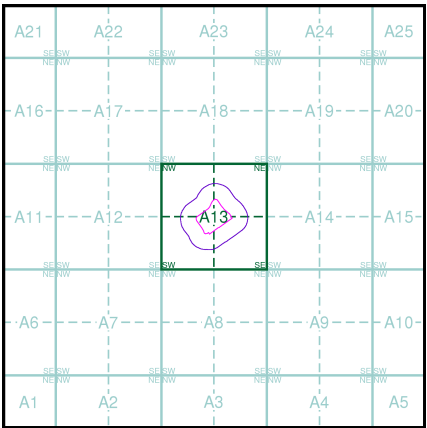
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Map Name(s) and Date(s)

ST28NE
1947
1:10,560

ST28SE
1947
1:10,560

Historical Aerial Photography - Slice A



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HSILIRB

Order Details

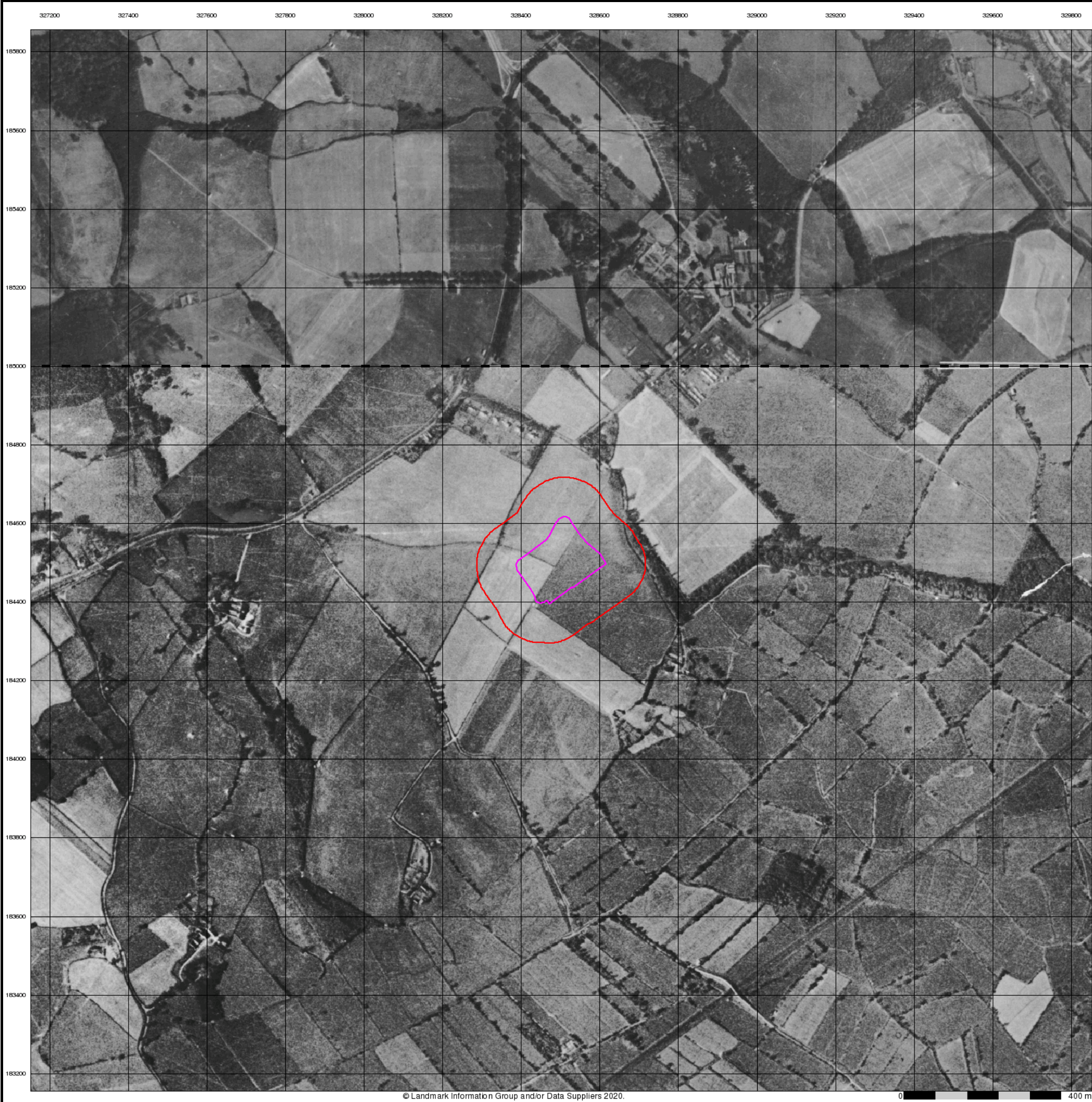
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Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

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Historical Aerial Photography

Published 1947

Source map scale - 1:10,560

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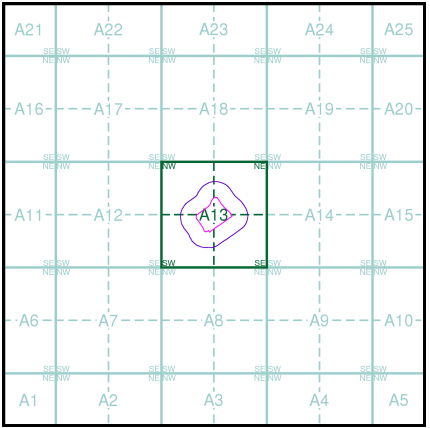
© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)

ST28NE
1947
1:10,560

ST28SE
1947
1:10,560

Historical Aerial Photography - Slice A



LIBRARY
HSILIRB

Order Details

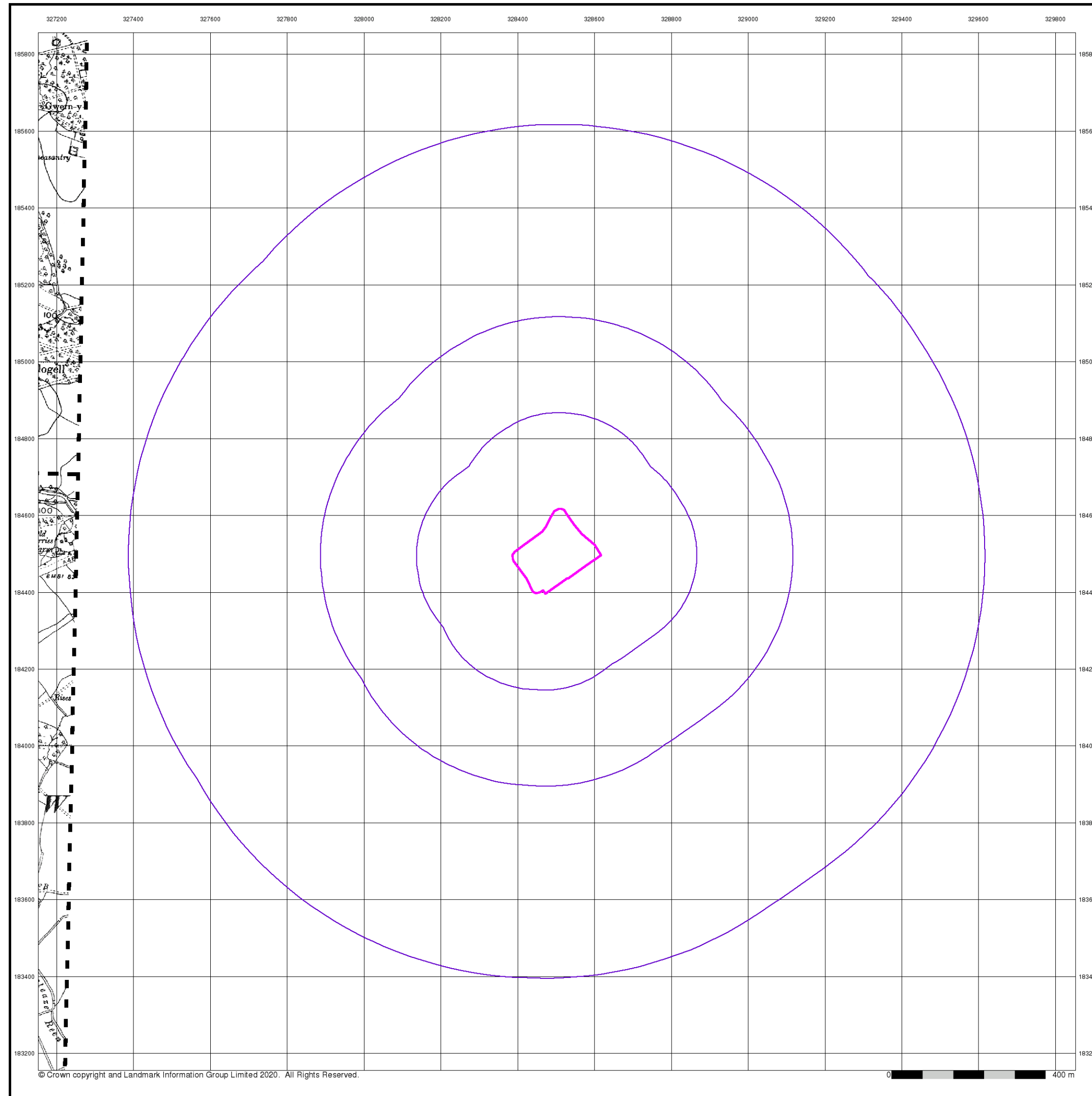
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Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

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Glamorganshire

Published 1953

Source map scale - 1:10,560

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Map Name(s) and Date(s)

038NW
1953
1:10,560

038SW
1953
1:10,560

Historical Map - Slice A

A21A22A23A24A25

A16A17A18A19A20

A11A12A13A14A15

A6A7A8A9A10

A1A2A3A4A5

N

Order Details

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256105007_1_1

Customer Ref:

5197938

National Grid Reference:

328500, 184500

Slice:

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Site Area (Ha):

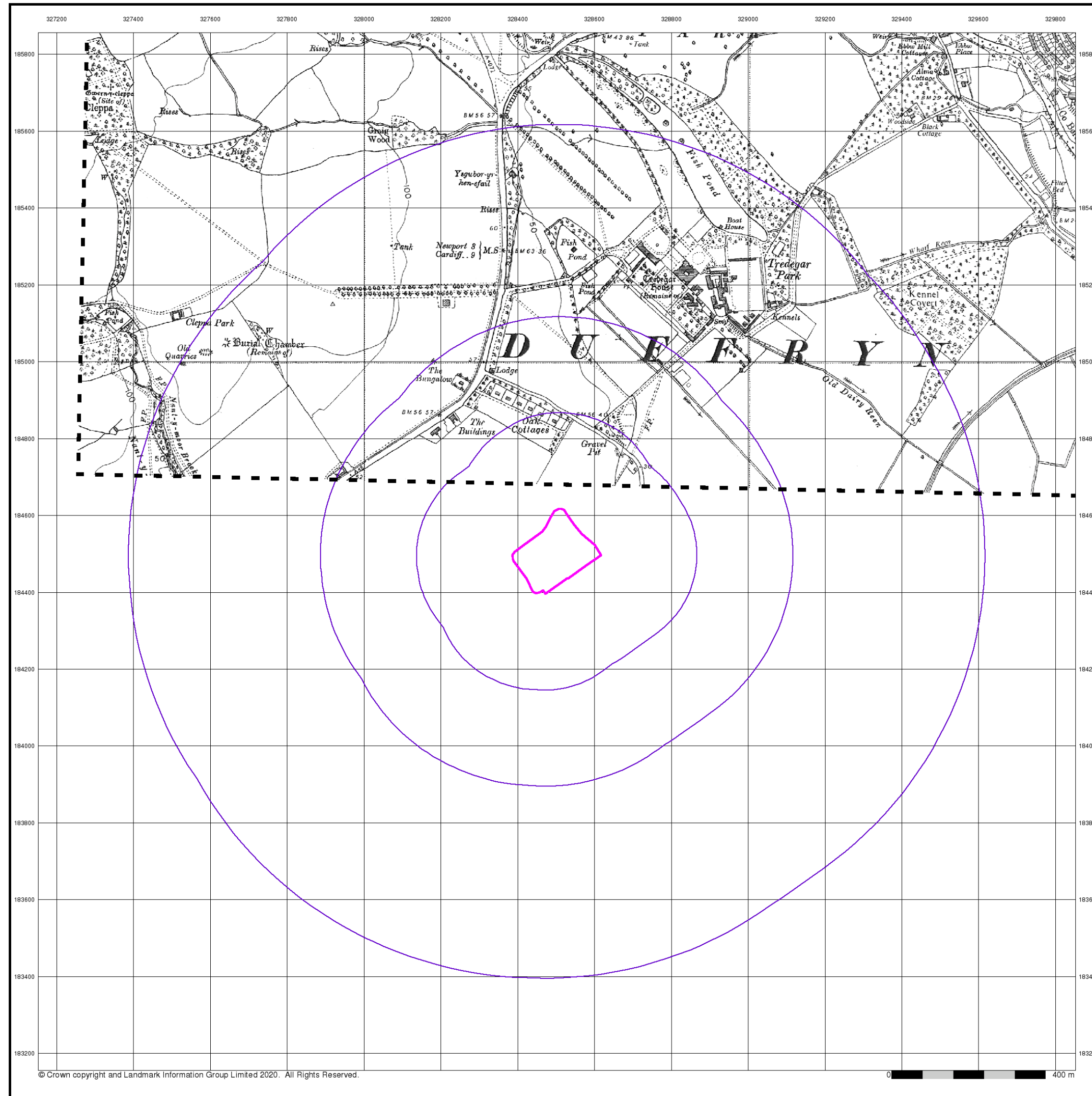
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Site Details

Site at, Newport/Casnewydd, Newport



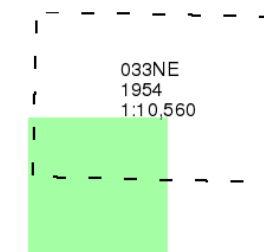
Monmouthshire

Published 1954

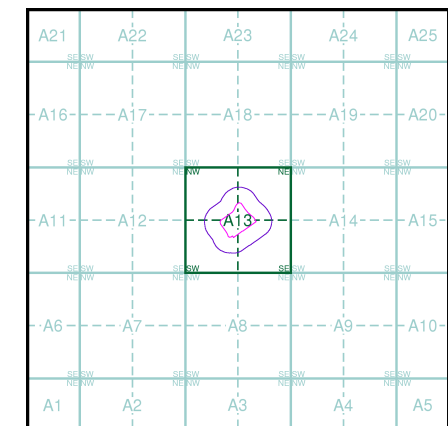
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A

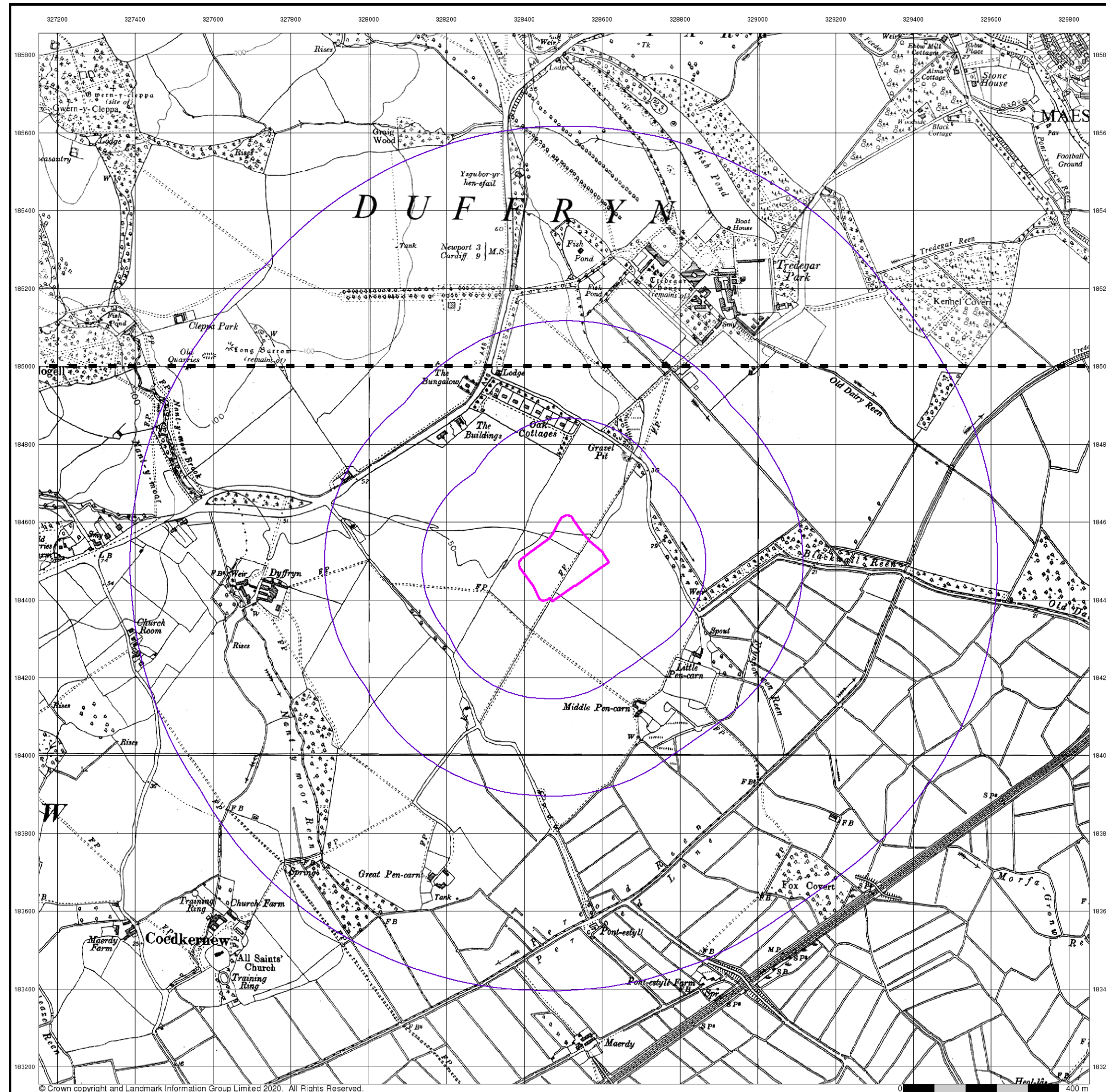


Order Details

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National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport



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Ordnance Survey Plan

Published 1964

Source map scale - 1:10,000

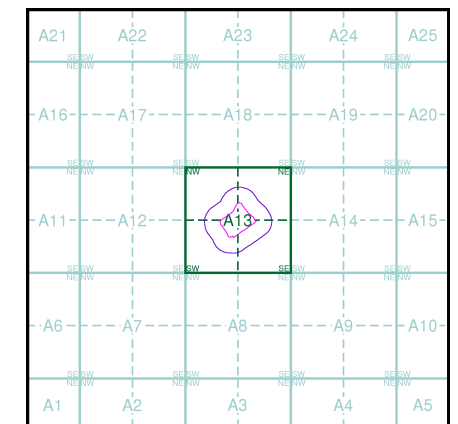
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

ST28NE
1964
1:10,560

ST28SE
1964
1:10,560

Historical Map - Slice A



Order Details

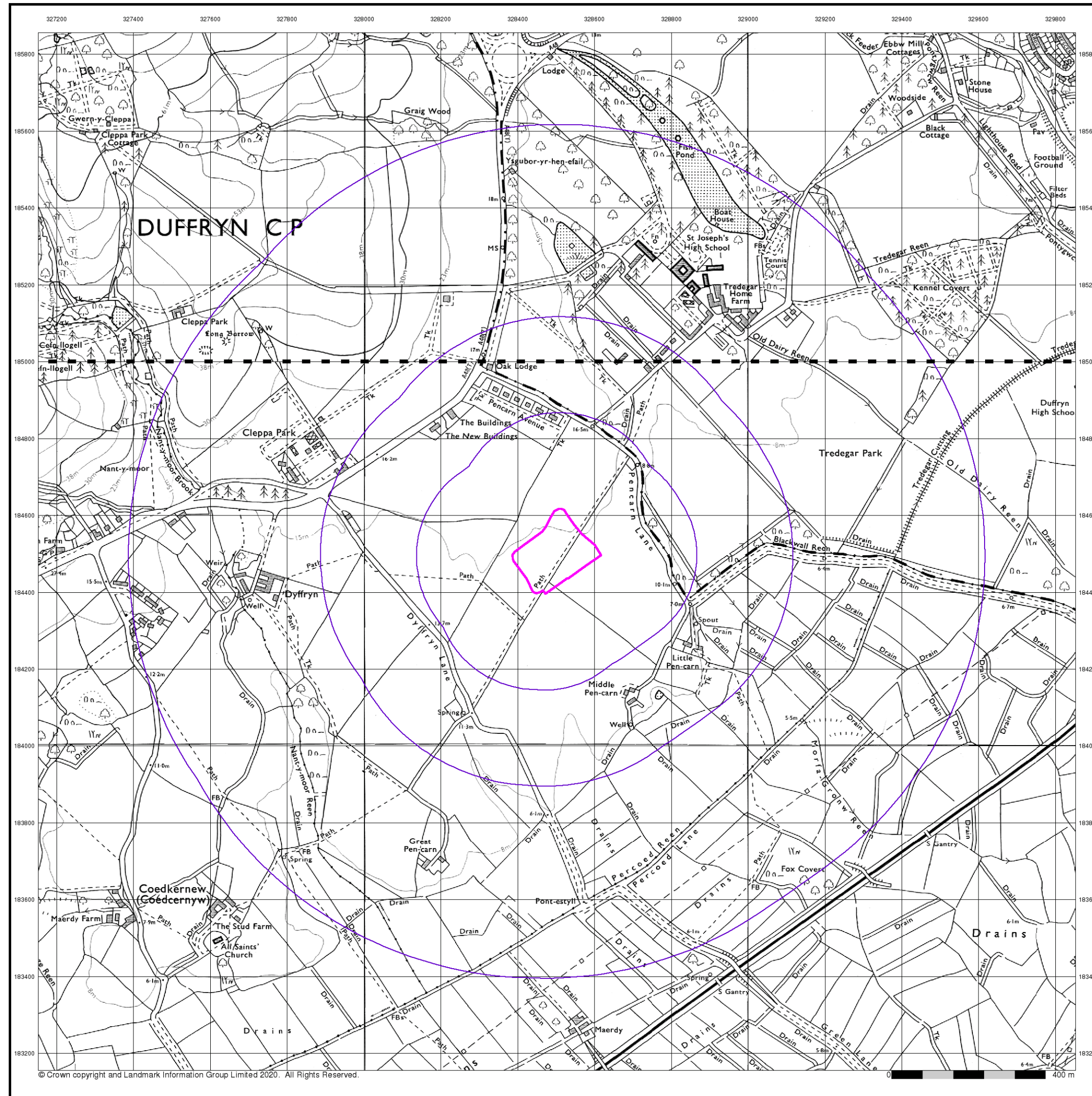
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Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan

Published 1970 - 1972

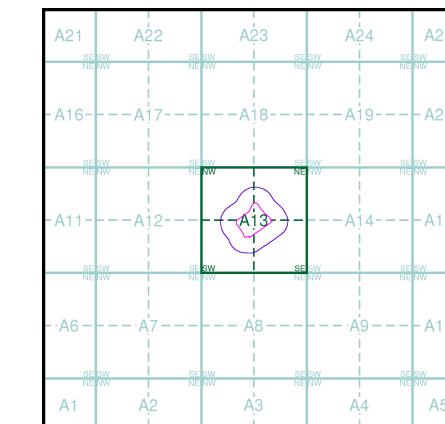
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

ST28NE	1972	1:10,000
ST28SE	1970	1:10,000

Historical Map - Slice A



Order Details

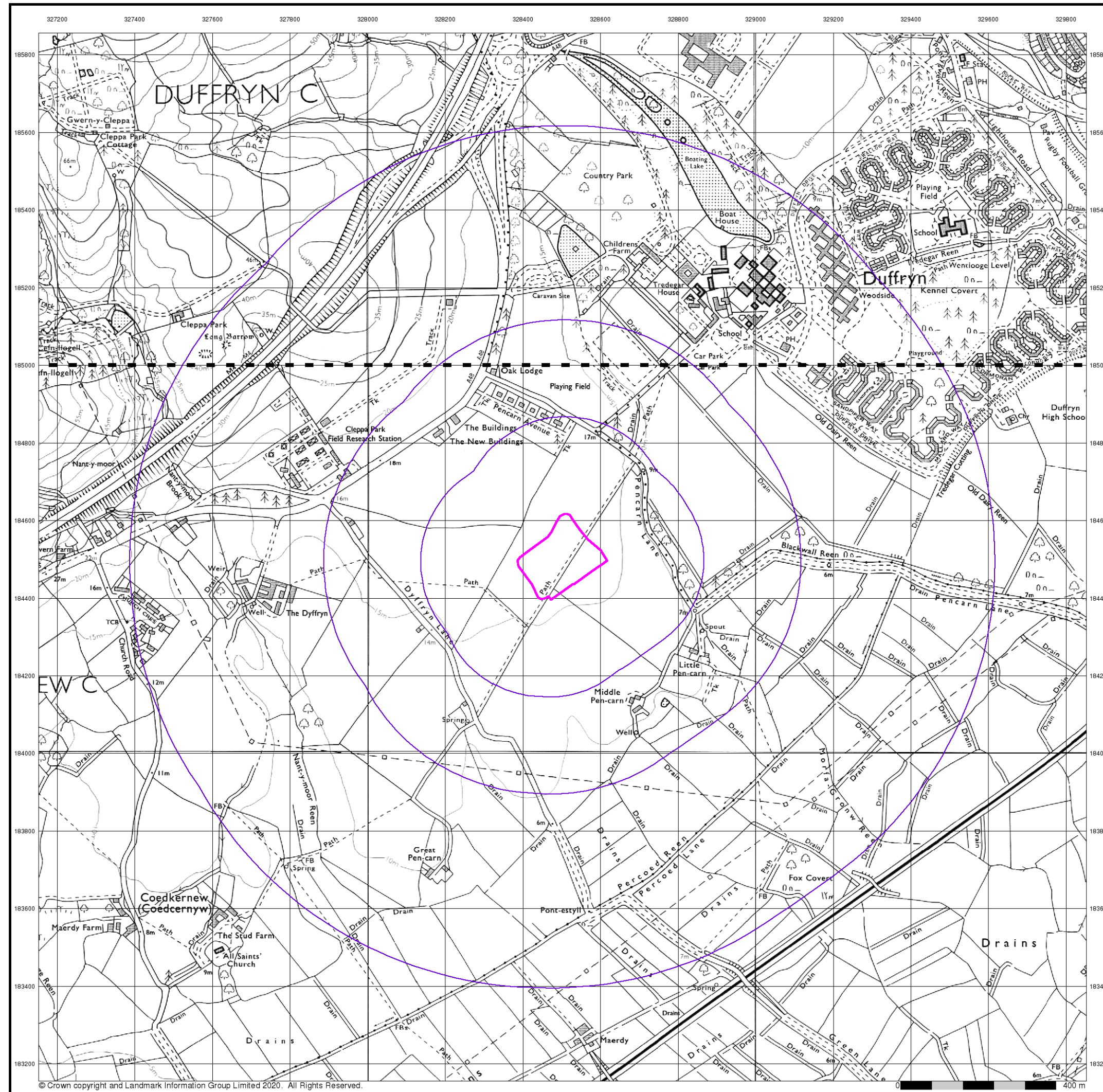
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Ordnance Survey Plan

Published 1982 - 1989

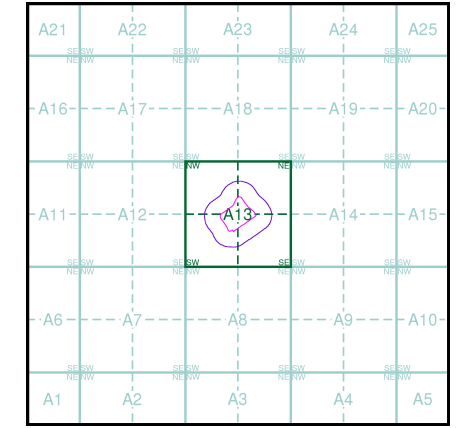
Source map scale - 1:10,000

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Map Name(s) and Date(s)

ST28NE	1982	1:10,000
ST28SE	1989	1:10,000

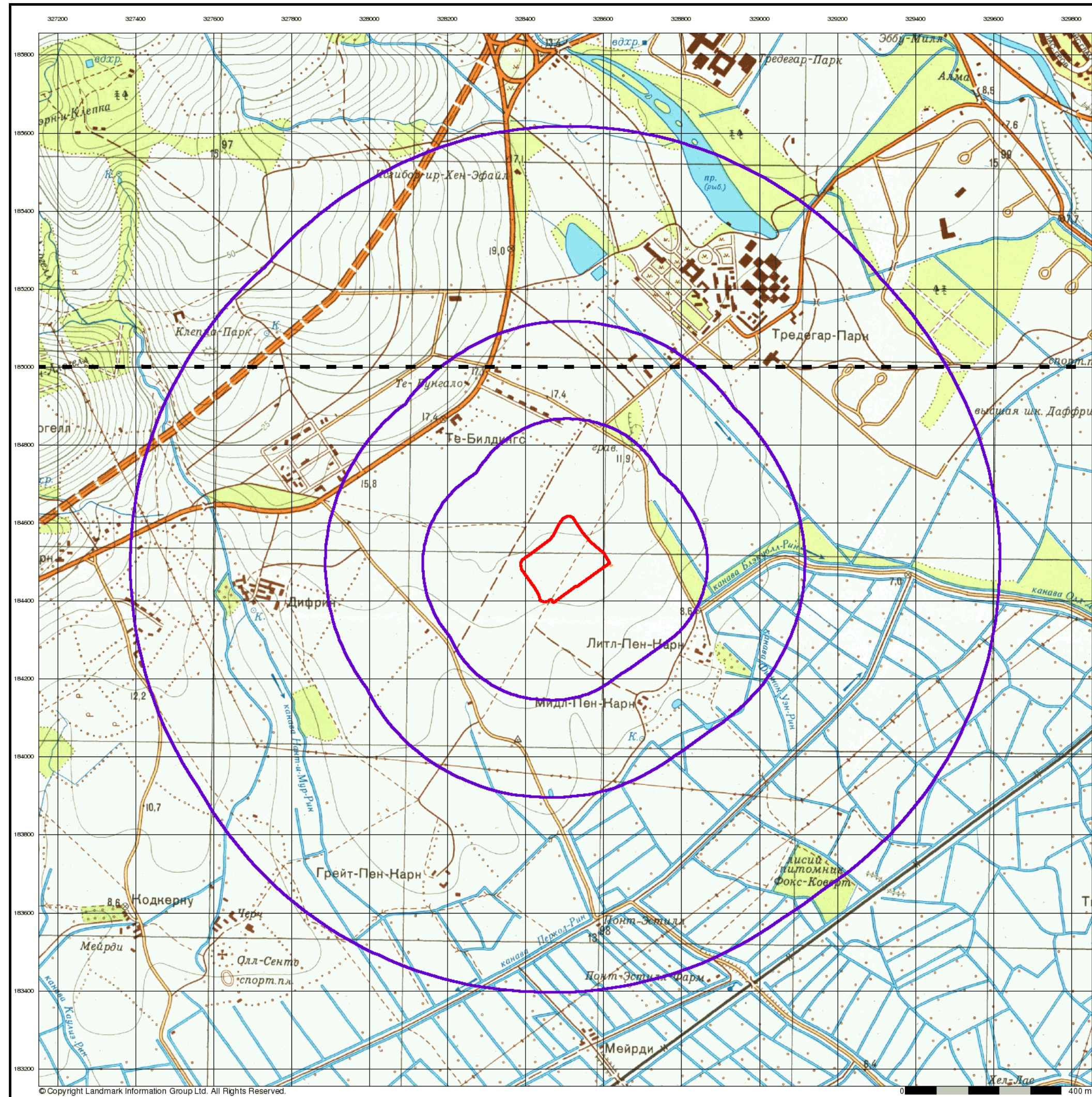
Historical Map - Slice A



Order Details	
Order Number:	256105007_1_1
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Slice:	A
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Site Details

Site at, Newport/Casnewydd, Newport



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Newport

Published 1983

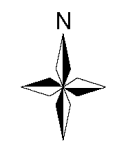
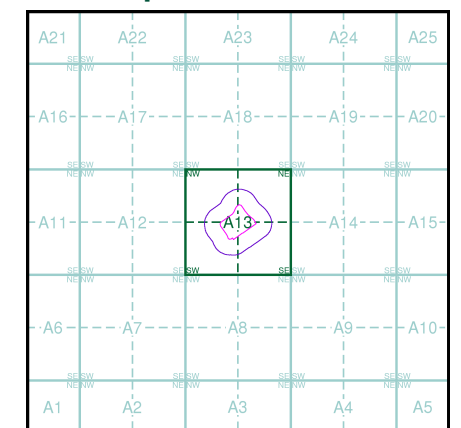
Source map scale - 1:10,000

These maps were produced by the Russian military during the Cold War between 1950 and 1997, and cover 103 towns and cities throughout the U.K. The maps are produced at 1:25,000, 1:10,000 and 1:5,000 scale, and show detailed land use, with colour-coded areas for development, green areas, and non-developed areas. Buildings are coloured black and important building uses (such as hospitals, post offices, factories etc.) are numbered, with a numbered key describing their use. They were produced by the Russians for the benefit of navigation, as well as strategic military sites and transport hubs, for use if they were to have invaded the U.K. The detailed information provided indicates that the areas were surveyed using land-based personnel, on the ground, in the cities that are mapped.

Map Name(s) and Date(s)

ST28NE
1983
1:10,000
ST28SE
1983
1:10,000

Russian Map - Slice A



Order Details

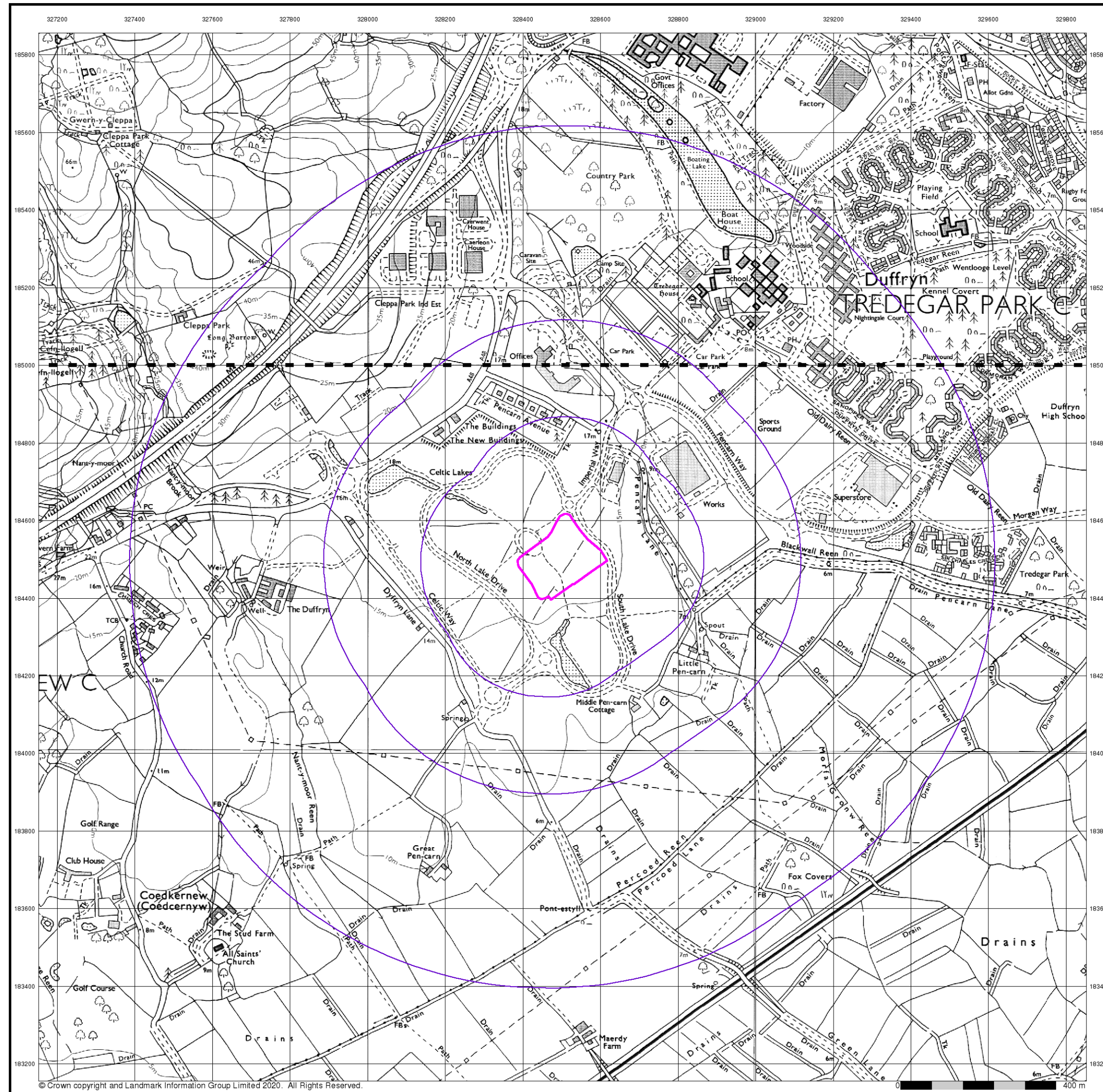
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Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

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Ordnance Survey Plan

Published 1992 - 1996

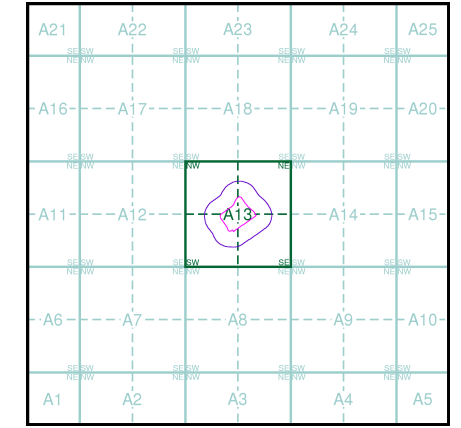
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

ST28NE	1992	1:10,000
ST28SE	1996	1:10,000

Historical Map - Slice A

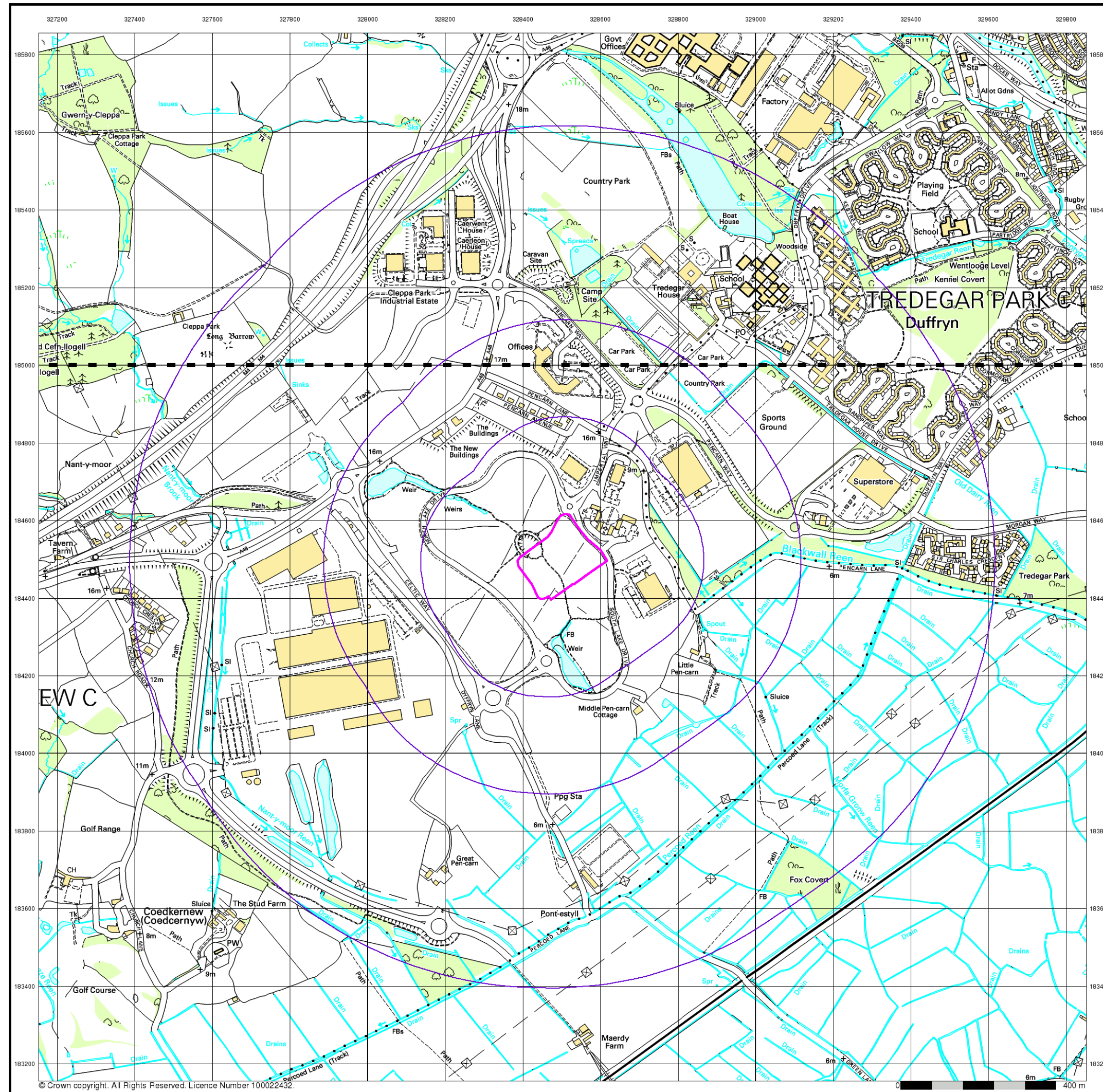


Order Details

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Customer Ref: 5197938
National Grid Reference: 328500, 184500
Slice: A
Site Area (Ha): 2.68
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10k Raster Mapping

Published 1999

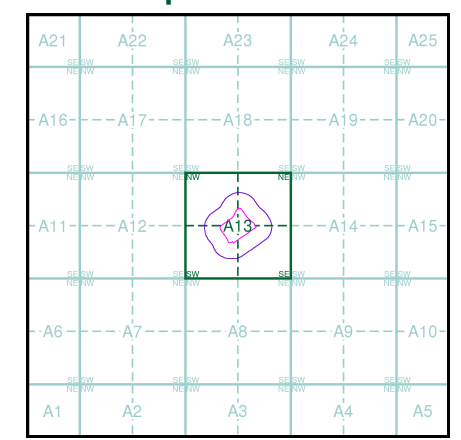
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

ST28NE	1999	1:10,000
ST28SE	1999	1:10,000

Historical Map - Slice A



Order Details

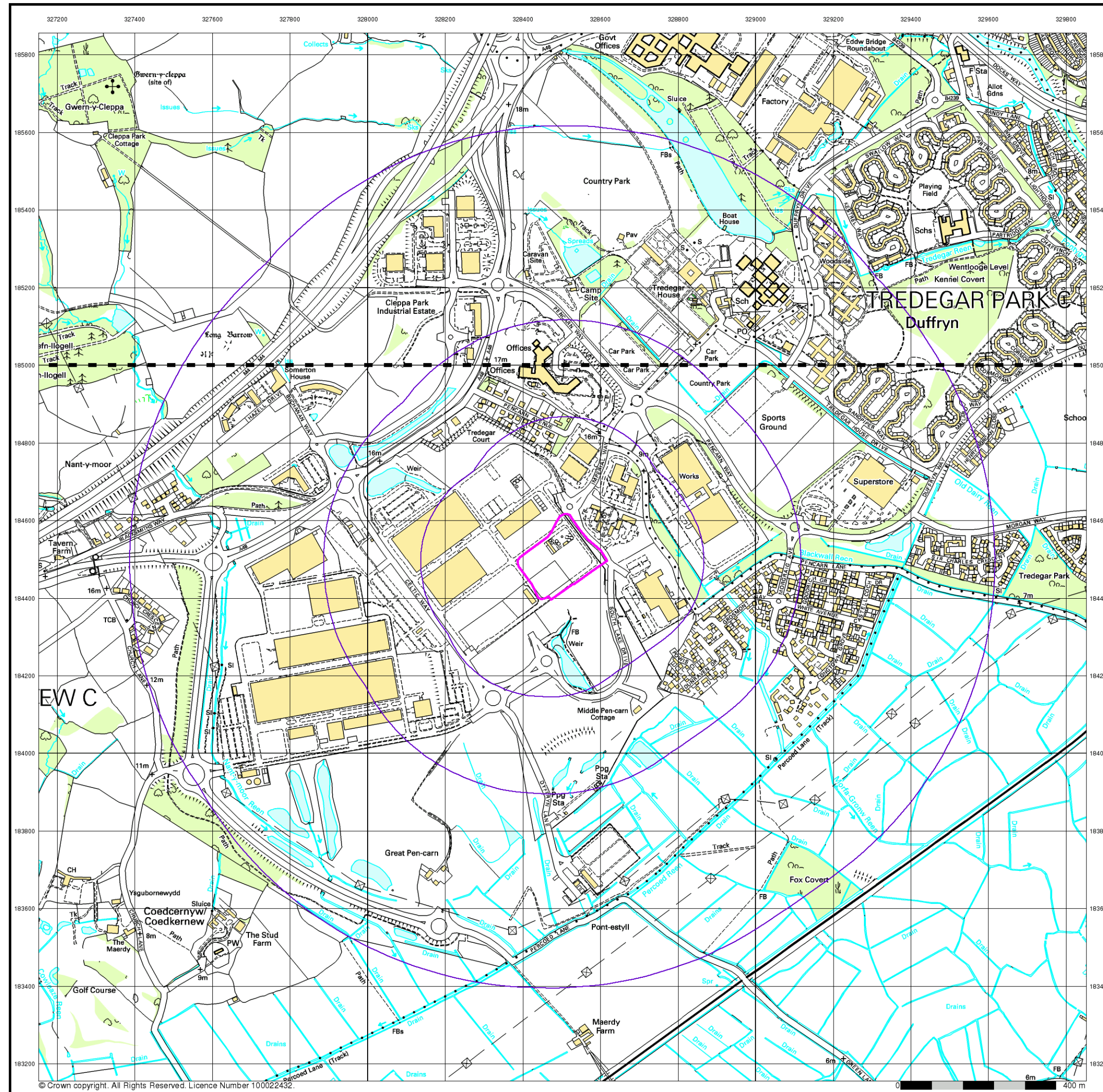
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Search Buffer (m): 1000

Site Details

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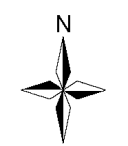
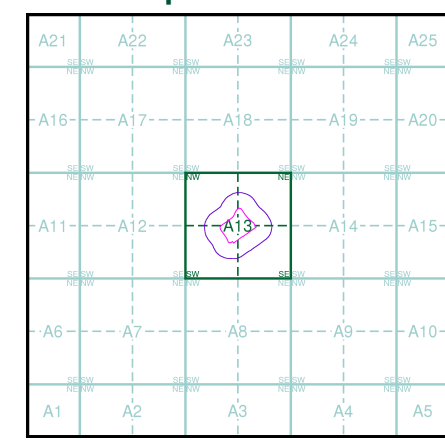
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

ST28NE	2006	1:10,000
ST28SE	2006	1:10,000

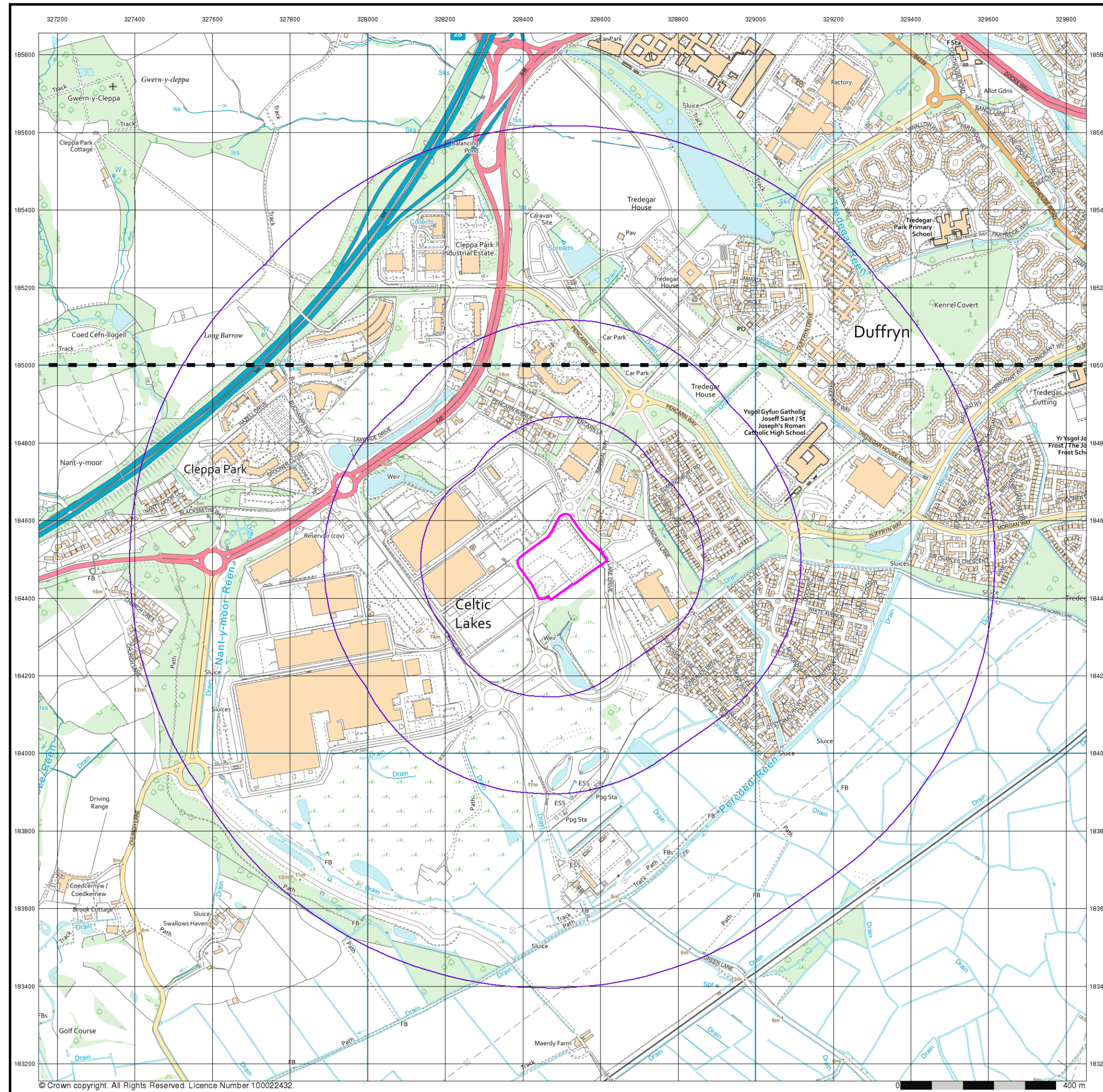
Historical Map - Slice A



Order Details
Order Number: 256105007_1_1
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Site Area (Ha): 2.68
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VectorMap Local

Published 2020

Source map scale - 1:10,000

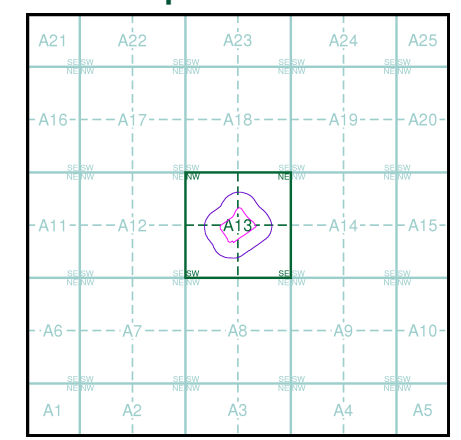
VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap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

Map Name(s) and Date(s)

ST28NE
2020
Variable

ST28SE
2020
Variable

Historical Map - Slice A



Order Details

Order Number: 256105007_1_1
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






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Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TFD	Tidal Flat Deposits	Clay and Silt	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	RTDU	River Terrace Deposits (Undifferentiated)	Sand and Gravel	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PNG	Penarth Group	Mudstone	Not Supplied - Rhaetian
	BLI	Blue Lias Formation	Limestone and Mudstone, Interbedded	Not Supplied - Rhaetian
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic
	SMG	St Maughans Formation	Argillaceous Rocks and [Subequal/Subordinate] Sandstone, Interbedded	Not Supplied - Early Devonian
	SMG	St Maughans Formation	Sandstone	Not Supplied - Early Devonian
	RG	Raglan Mudstone Formation	Mudstone and Sandstone, Interbedded	Not Supplied - Pridoli
	RG	Raglan Mudstone Formation	Sandstone	Not Supplied - Pridoli
	BFLS	Bishop's Frome Limestone Member	Silicate-Conglomerate, Calcite-Cemented (Calcrete)	Not Supplied - Silurian
		Faults		

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Geology 1:50,000 Maps

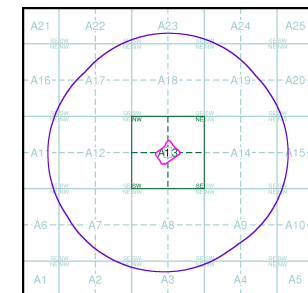
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	249
Map Name:	Newport
Map Date:	1969
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



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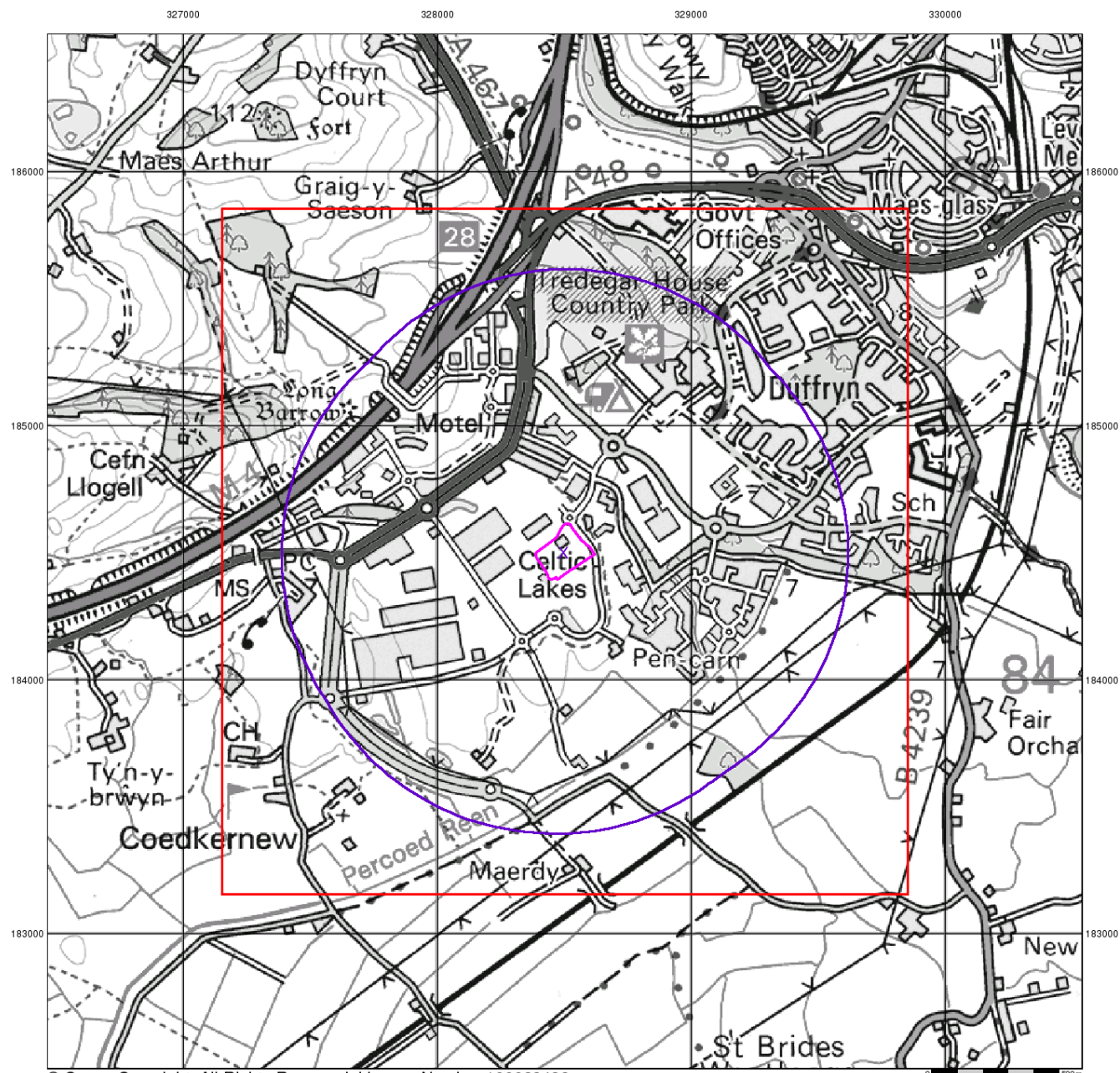
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Customer Reference:	5197938
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Slice:	A
Site Area (Ha):	2.68
Search Buffer (m):	1000

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Artificial Ground and Landslip

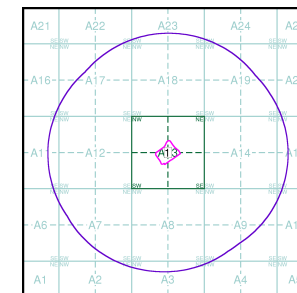
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

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 Slice: A
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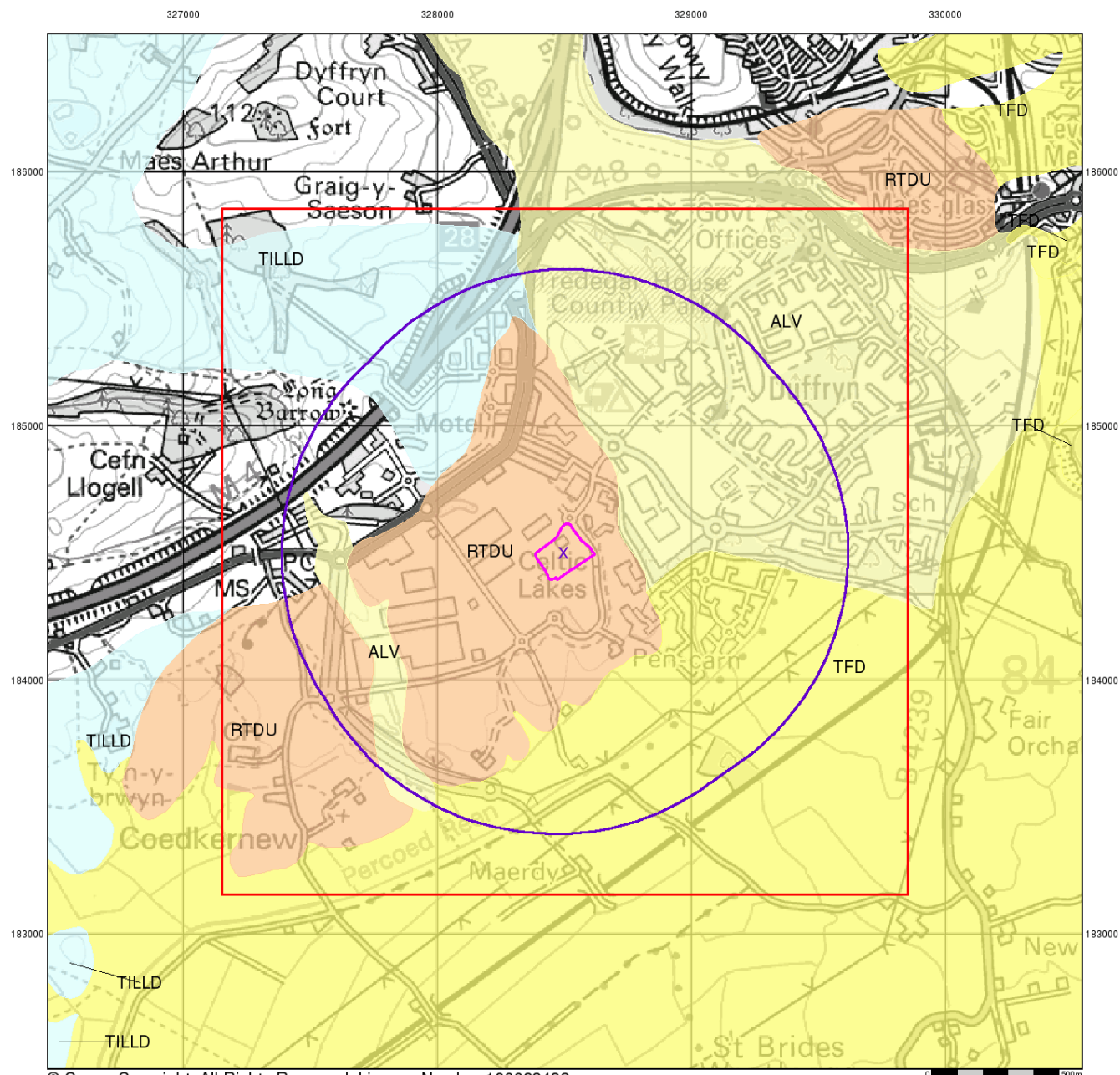
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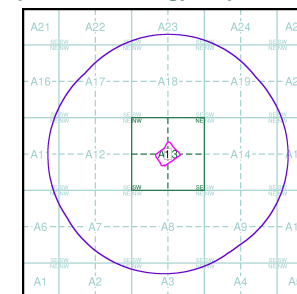
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

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 Slice: A
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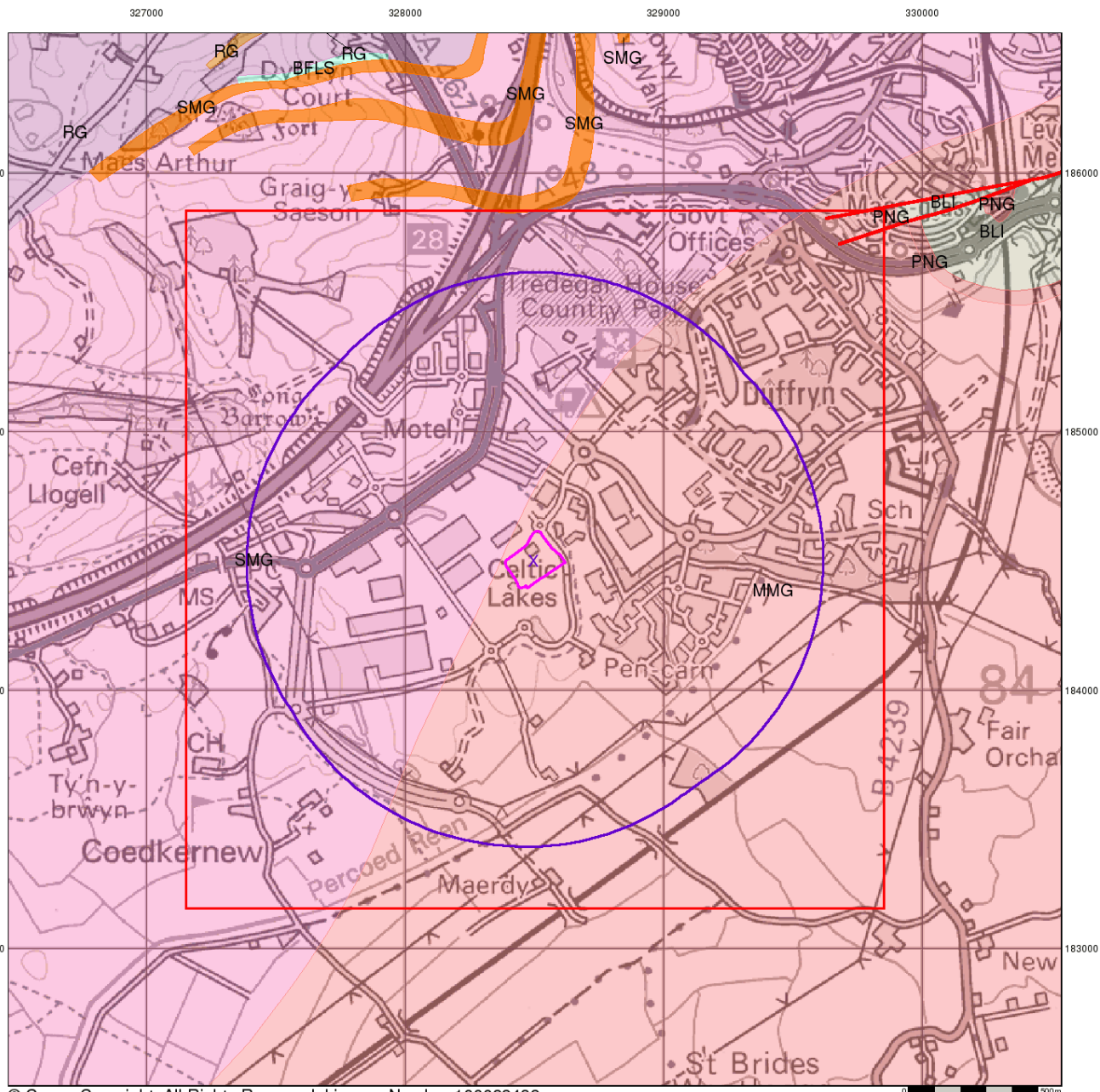
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Bedrock and Faults

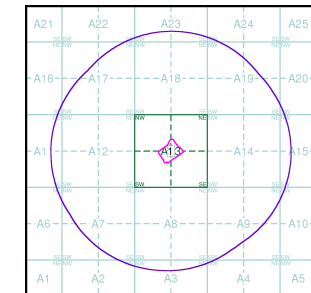
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

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Site Area (Ha): 2.68
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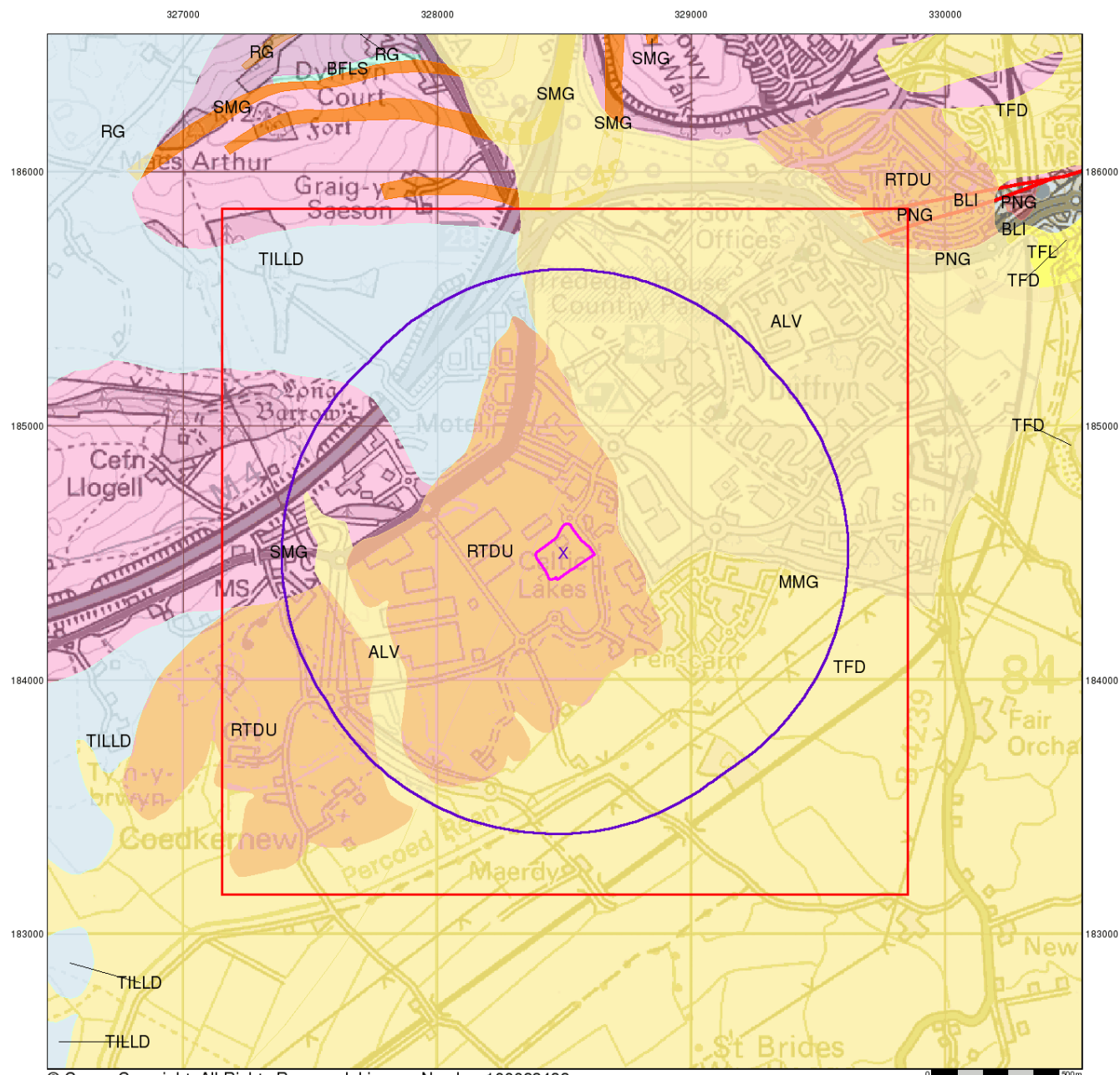
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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

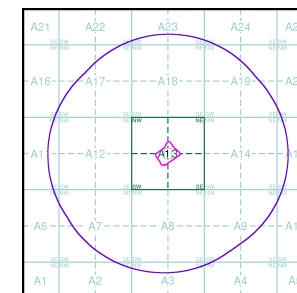
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 256105007_1_1
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National Grid Reference: 328500, 184500
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Site Area (Ha): 2.68
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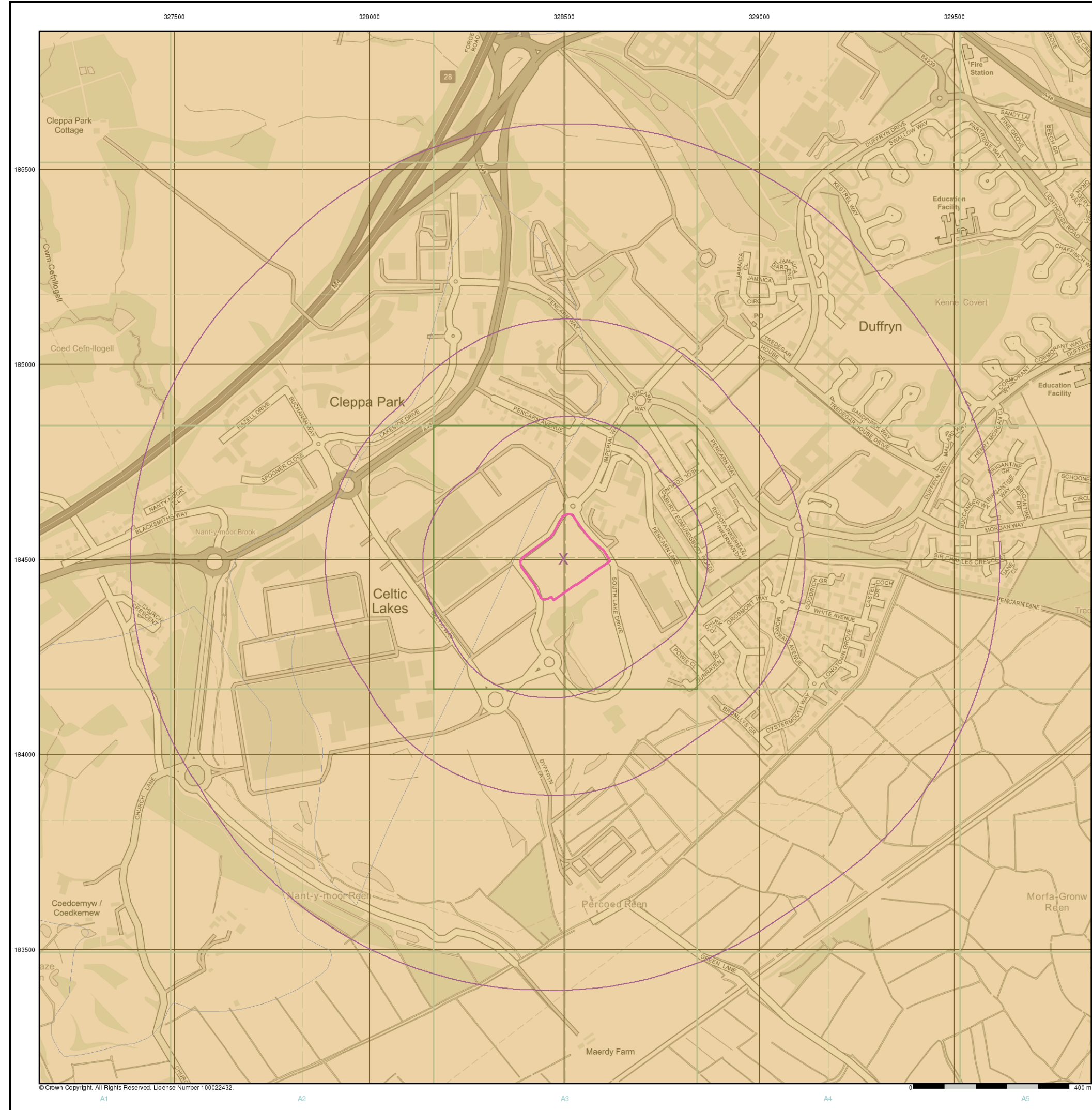
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General

Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg

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

Estimated Soil Chemistry Arsenic - Slice A

Order Details

Order Details:	256105007_1_1
Customer Ref:	5197938
National Grid Reference:	328500, 184500
Slice:	A
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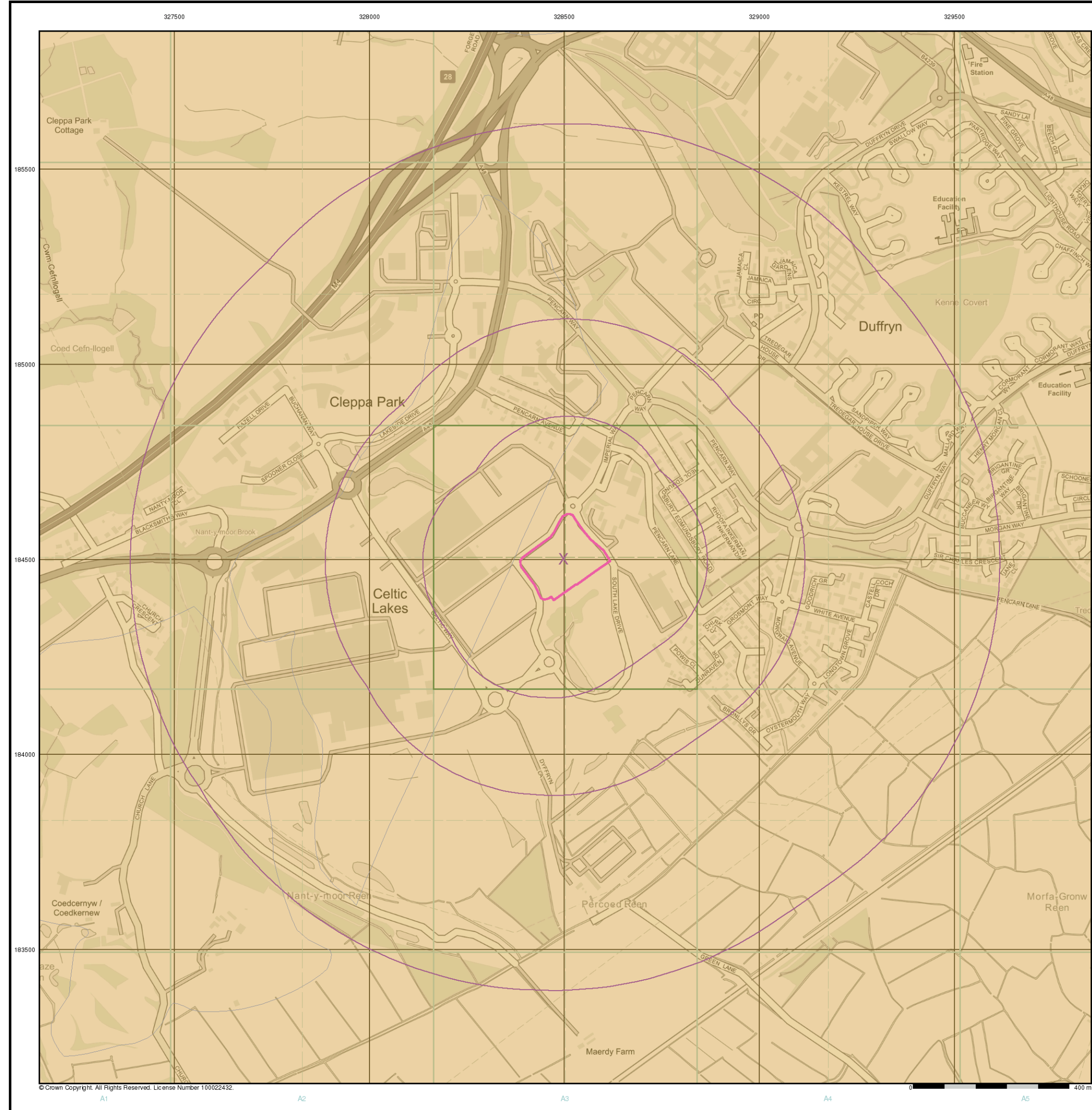
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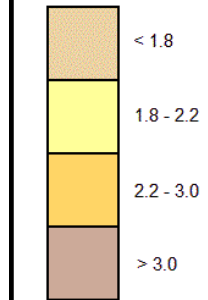
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General

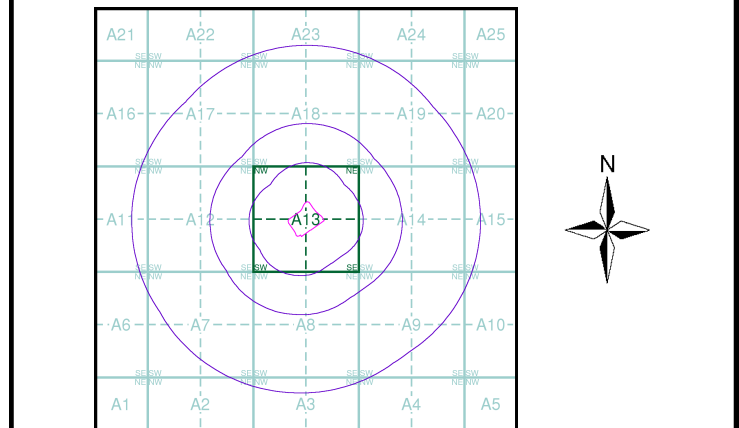
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Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

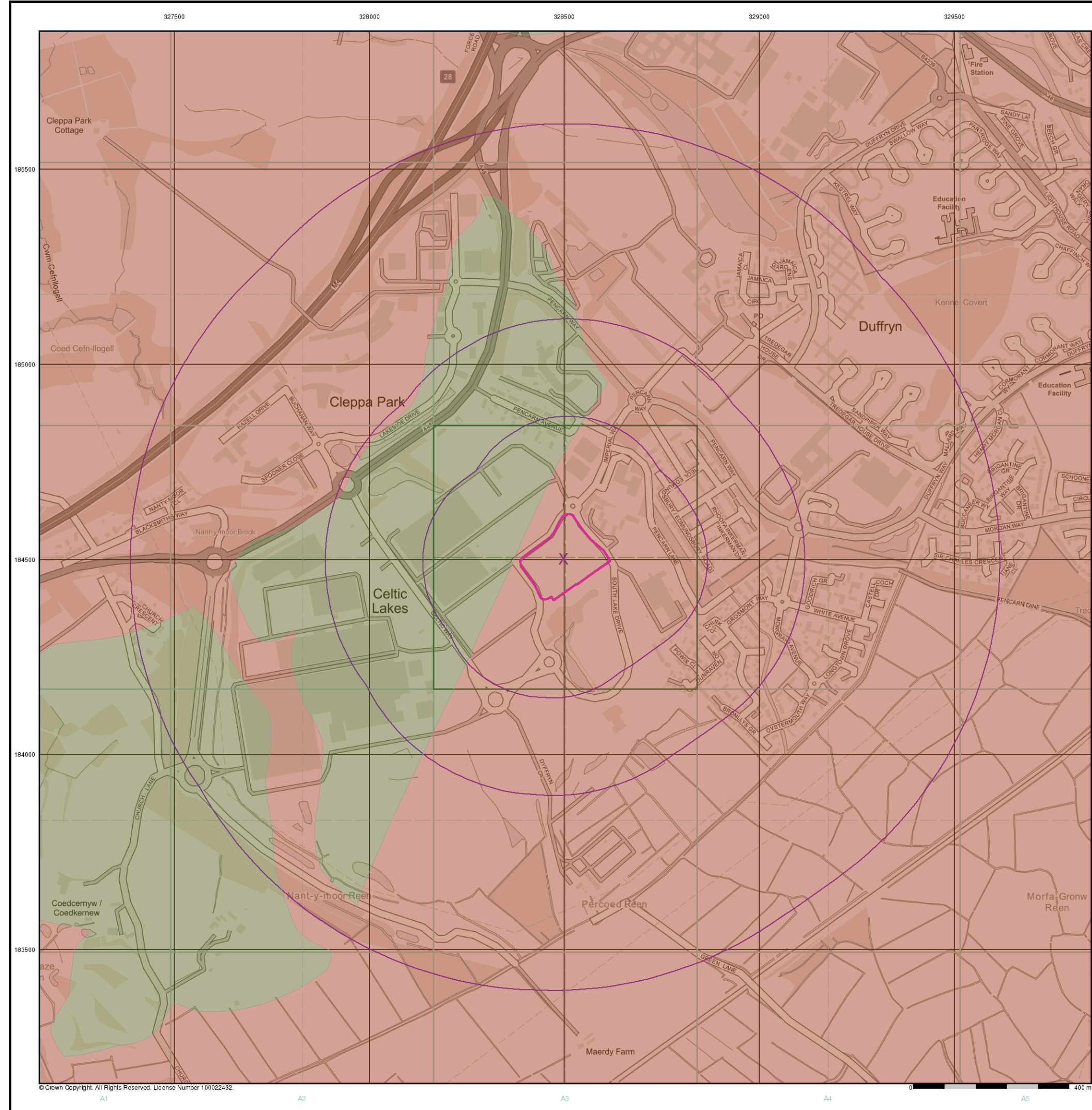
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Site Area (Ha): 2.68
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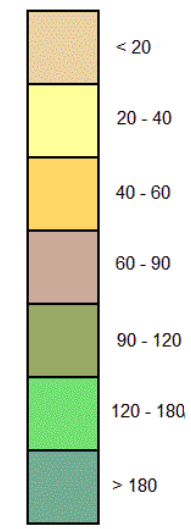


General

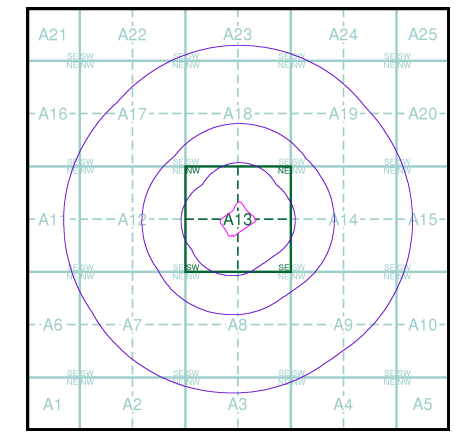
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A

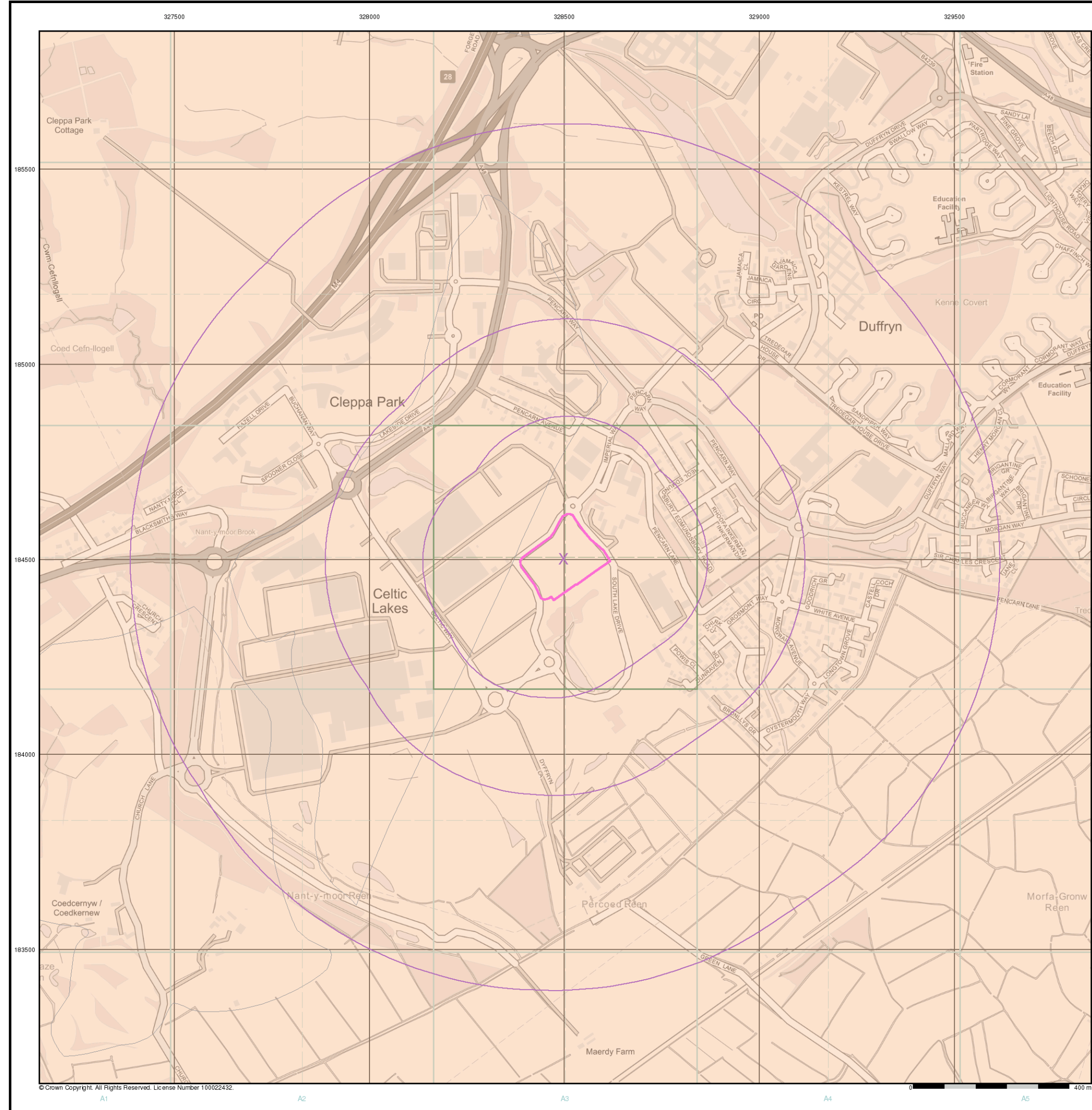


Order Details

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Site Details

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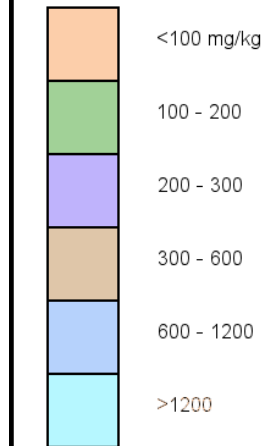
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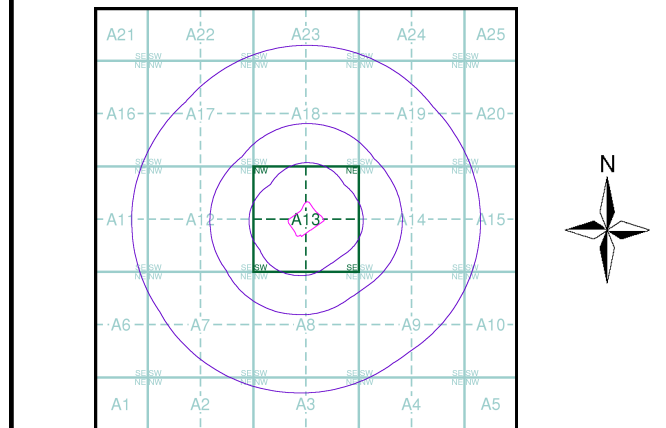
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

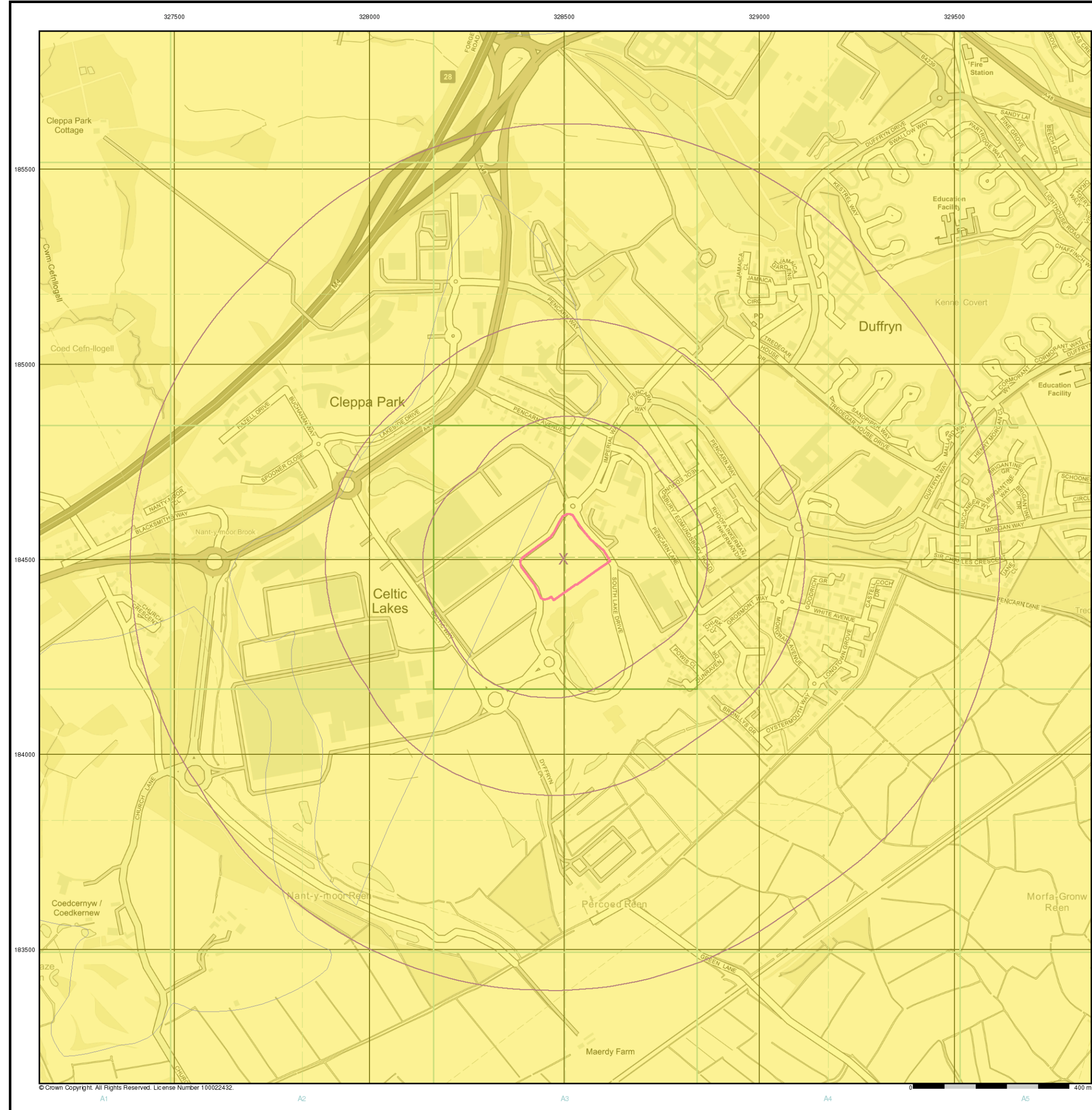
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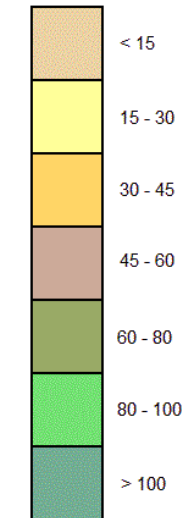
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General

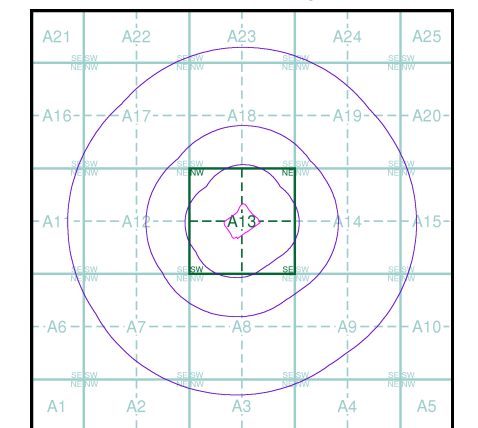
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



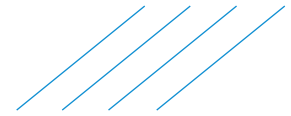
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Search Buffer (m): 1000

Site Details

Site at, Newport/Casnewydd, Newport

Appendix B. Site Walkover Photos



All photographs taken during site visit on 3 September 2020.

Photo 1: Site entrance in south-west corner of the site



Photo 2: Asphalt perimeter road



Photo 3: Asphalt car parking area in the south-west.



Photo 4: View of central area of the car park in the south-west of the site; gravel covered with vegetation cover.



Photo 5: View of north-eastern section of the site



Photo 6: North-eastern site in the area of the former water treatment plant



Photo 7: Eastern boundary of the site showing vegetated strip



Photo 8: Stockpile of material in the centre of the site.



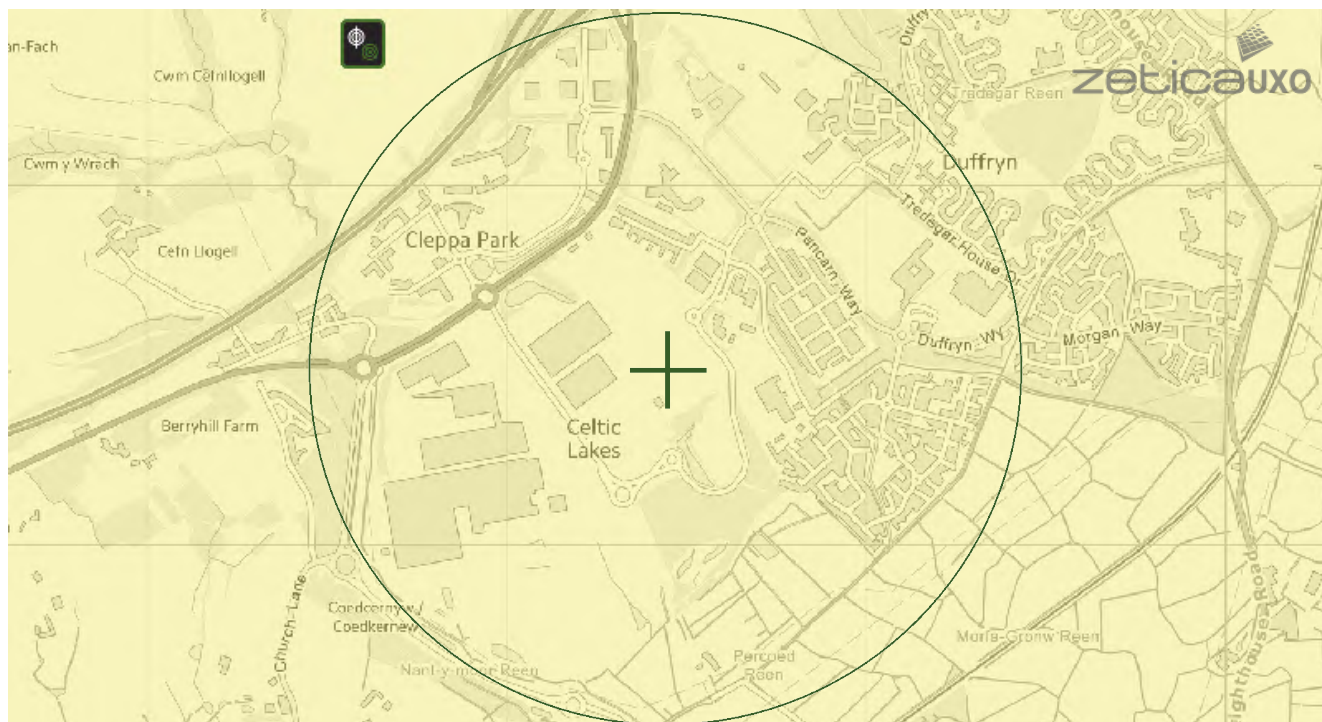
Appendix C. UXO Risk

UNEXPLODED BOMB RISK MAP



SITE LOCATION

Map Centre: 328454,184492



LEGEND

- High:** Areas indicated as having a bombing density of 50 bombs per 1000acre or higher.
- Moderate:** Areas indicated as having a bombing density of 15 to 49 bombs per 1000acre.
- Low:** Areas indicated as having 15 bombs per 1000acre or less.

- military**
- industry**
- UXO find**
- transport**
- dock**
- Luftwaffe targets**
- utilities**
- Bombing decoy**
- other**

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?

Generally, we recommend that a detailed UXO desk study and risk assessment is undertaken for sites in a moderate or high UXB risk area.

Similarly, if your site is near to a designated Luftwaffe target or bombing decoy then additional detailed research is recommended.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low.

Never plan site work or undertake a risk assessment using these maps alone. More detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps.

If my site is in a low risk area, do I need to do anything?

If both the map and other research confirms that there is a low potential for UXO to be present on your site then, subject to your own comfort and risk tolerance, works can proceed with no special precautions.

A low risk really means that there is no greater probability of encountering UXO than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present, you can ask for one of our **pre-desk study assessments (PDSA)**

If I have any questions, who do I contact?

tel: **+44 (0) 1993 886682**

email: **uxo@zetica.com**

web: **www.zeticauxo.com**

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the accompanying notes on our website: (<https://zeticauxo.com/downloads-and-resources/risk-maps/>)

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability for any use of the maps. These maps can be used as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C681 'Unexploded Ordnance (UXO), a guide for the construction industry'.


Boobyer, Mark

From: Abi Newton <abi.newton@zetica.com>
Sent: 16 September 2020 16:56
To: Boobyer, Mark
Cc: Research
Subject: RE: Pre-Desk Study Assessment - Newport

Follow Up Flag: Follow up
Flag Status: Completed

Good afternoon Mark

Please find the PDSA below as requested. Any further queries, don't hesitate to contact us.

	
Pre-Desk Study Assessment	
Site:	Imperial Park, Newport, Wales
Client:	Atkins
Contact:	Mark Boobyer
Date:	16 th September 2020
Pre-WWI Military Activity on or Affecting the Site	None identified.
WWI Military Activity on or Affecting the Site	None identified.
WWI Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: <ul style="list-style-type: none">■ Newport Docks.■ Transport infrastructure and public utilities.■ Industries important to the war effort, including munitions factories, metal and engineering works.■ Military barracks and training areas.
WWI Bombing	None identified on the Site.
Interwar Military Activity on or Affecting the Site	None identified.
WWII Military Activity on or Affecting the Site	None identified.
WWII Strategic Targets (within 5km of Site)	The following strategic targets were located in the vicinity of the Site: <ul style="list-style-type: none">■ Newport Docks.■ Transport infrastructure and public utilities.■ Industries important to the war effort, including metal and engineering works.■ Military camps, training areas and depots.■ Anti-Aircraft (AA) and anti-invasion defences.
WWII Bombing Decoys (within 5km of Site)	3No. The nearest was located approximately 1.3km northwest of the Site.

WWII Bombing	During WWII the Site was located in the Rural District (RD) of Magor & St Mellon's, which officially recorded 366No. High Explosive (HE) bombs with a bombing density of 8.3 bombs per 405 hectares (ha). No readily available records have been found to indicate that the Site was bombed.
Post-WWII Military Activity on or Affecting the Site	None identified.
Recommendation	A detailed desk study, whilst always prudent, is not considered essential in this instance.
<p>This summary is based on a cursory review of readily available records. Caution is advised if you plan to action work based on this summary.</p> <p>It should be noted that where a potentially significant source of UXO hazard has been identified on the Site, the requirement for a detailed desk study and risk assessment has been confirmed and no further research will be undertaken at this stage. It is possible that further in-depth research as part of a detailed UXO desk study and risk assessment may identify other potential sources of UXO hazard on the Site.</p>	

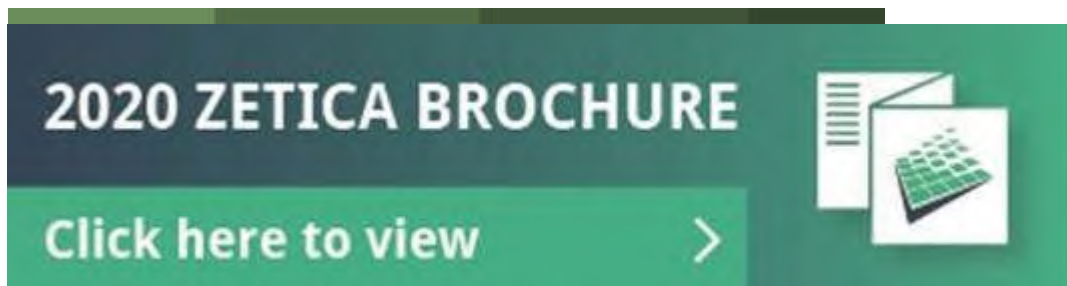
Many thanks

Abi

Abi Newton
Risk Assessor
Zetica Limited



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From: Joe Lingard <Joe.Lingard@zetica.com>
Sent: 09 September 2020 08:02
To: Boobyer, Mark <Mark.Boobyer@atkinsglobal.com>
Cc: Uxo <Uxo@zetica.com>; Research <Research@zetica.com>
Subject: RE: Pre-Desk Study Assessment - Newport

Good morning Mark

That's not a problem. We'll get a PDSA completed for you as quickly as possible.

Many thanks

Joe

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