

Ringland, Newport

Phase 1 Preliminary Site Assessment

Curtins Ref: B065384.000-CUR-00-XX-RP-GE-001-V03

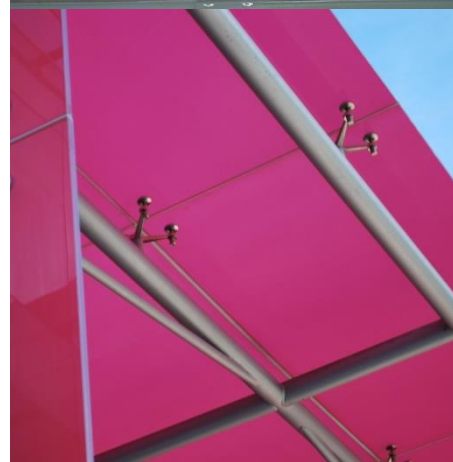
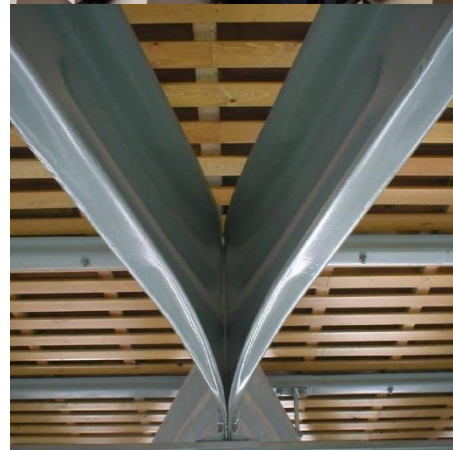
Revision: V03

Issue Date: 24 July 2017

Client Name: Newport City Homes Ltd

Client Address: Nexus House, Mission Court, Newport, South Wales NP20 2DW

Site Address: Ringland, Newport, South Wales, NP19 9JR



Rev	Description	Issued by	Checked	Date
V02	Text in section 2.1 amended regarding red line boundary	GB	DM	19 October 2018
V03	Updated Envirocheck/red line boundary and development proposals included	GB	DM	23 November 2018

This report has been prepared for the sole benefit, use, and information for the client. The liability of Curtins Limited with respect to the information contained in the report will not extend to any third party.

Author	Signature	Date
D A H Morris BSc (Hons) MSc FGS Graduate Geo-Environmental Engineer		24 July 2017

Reviewed	Signature	Date
G A Behrens BSc (Hons) MCIWEM FGS Principal		24 July 2017

Authorised	Signature	Date
D Hammond BSc MSc DIC FGS Associate		24 July 2017

Executive Summary

Appointment	In June 2017 Curtins were instructed by Newport City Homes Ltd to undertake a Phase 1 Preliminary Site Assessment of a site at Ringland, Newport. The site is centred on NGR 335730, 188820 and covers an area of approximately 3.06 Ha. At this stage, it is understood that the redevelopment is to involve the demolition of some buildings currently in existence at the site and the construction of a new housing estate with a range of apartments, houses and small retail area. The houses are likely to have gardens while the apartments and retail areas will be soft landscaping.
Current Site Status	The site is set in a residential area of Newport. The eastern third of the site is mostly open space while the remainder consists of a central public space surrounded by commercial units, housing, car parking and soft landscaped areas. Two blocks of housing in the western portion of the site have recently been demolished
Site History	The site was set in open fields and agricultural land until the 1970s when the buildings currently in existence were constructed. There has been some demolition and construction of buildings in the intervening period.
Geology	Geological mapping indicates that the entirety of the site is underlain by Mercia Mudstone bedrock. Superficial deposits are not indicated to be present. There are no BGS mineral sites within 500m of the site and the site is not located within a coal mining area.
Hydrogeology/Hydrology	The underlying Mercia Mudstone is indicated to host a Secondary B Aquifer The site is not situated within a source protection zone and there are no groundwater abstractions within 500m of the site. The nearest surface watercourse is an unnamed stream 97m to the northwest of the site boundary. There are no surface water abstractions recorded within or within 250m of the boundary of the site. EA Flood Zone maps indicate that a narrow strip along the southern boundary of the site is at low risk of flooding from rivers or the sea while the remainder of the site is at a negligible risk of flooding.
Initial Ground Contamination Assessment	All of the potential source-pathway-receptor linkages identified are assessed as being a Low risk with the exception of the chronic health risk posed to site end users by on and off site soils with the potential to generate ground gases and the potential for end users to come into contact with contaminants in the Made Ground which are assessed as Low/Moderate.
Unexploded Ordnance Risk Assessment	Based upon UXO risk mapping and the undeveloped nature of the site during WW2 the risk posed by UXO is assessed as Low.
Recommendations	The following recommendations are made: • Undertake an intrusive ground investigation for geo-environmental and geotechnical purposes; and • Undertake a generic quantitative risk assessment (GQRA) as part of the ground investigation.

Table of Contents

1.0	Introduction	1
1.1	Project Background	1
1.2	Scope of Services	1
2.0	Current Site and Surrounding Area Details	2
2.1	Site Location and Current Details	2
2.2	Surrounding Area Details	3
3.0	Site History	4
4.0	Geology, Hydrogeology and Hydrology	5
4.1	Geology and Hydrogeology.....	5
4.2	Hydrology	6
5.0	Preliminary Unexploded Ordnance (UXO) Risk Assessment	7
6.0	Conceptual Site Model & Qualitative Risk Assessment.....	8
7.0	Conclusion and Recommendations.....	11
7.1	Outline Scope of Works for Ground Investigation.....	11
7.2	Contaminants of Concern	11

Appendices

Appendix A – Drawings

Appendix B – Supporting Information

Appendix C – Site Walkover Photographs with Key to Photograph Locations

Appendix D – Qualitative Risk Assessment Rationale

1.0 Introduction

1.1 Project Background

In June 2017 Curtins were instructed by Newport City Homes Ltd to undertake a Phase 1 preliminary Site Assessment of a site at Ringland, Newport, South Wales.

1.2 Scope of Services

The Phase 1 is intended to provide an overview of the geo-environmental and geotechnical setting of the site prior to redevelopment. The redevelopment proposals involve the demolition of pre-existing buildings that partially cover the site and the construction of new housing up to five-storeys high. Plans of the proposed development are included in *Appendix A*.

Through this overview the Phase 1 aims to develop both a working conceptual and ground model for the site, as well as present an initial assessment of any risks that could be presented to the development including its intended end users and the wider environment.

Specifically, the Phase 1 provides an initial assessment of the site regarding:

- a) Potential contamination of the site strata by historical and or current use;
- b) The potential impact on the wider environment by historical and or current use of the site of interest;
- c) The potential impact from surrounding land uses and other environmental factors;
- d) Potential problems associated with geological features such as faulting, mineral extraction, mining and land instability;
- e) The location of apparent sub-surface structures that may affect the proposed redevelopment; and
- f) The location of above-surface features that may affect the proposed redevelopment.

2.0 Current Site and Surrounding Area Details

2.1 Site Location and Current Details

The current site was examined using Envirocheck records (1) and during a site walkover carried out on 13/07/2017. Site details are given in *Table 2.1* and a location plan provided in *Figure 2.1*.

Table 2.1 – Site Details

Site Address	Ringland Newport NP19 9JR
NGR	335730, 188820
Area of Site	Approximately 3.06 Ha
Current Site Use and Description	The site is situated at around 26m AOD and is broadly level. The eastern third of the site consists of open grassland with a single terrace of local authority housing. The western two thirds are dominated by a public courtyard surrounded by retail units with housing above. There is a tower block on the western edge. This part of the site also includes car parking and open grassland some of which is the vacant site of recently demolished housing.

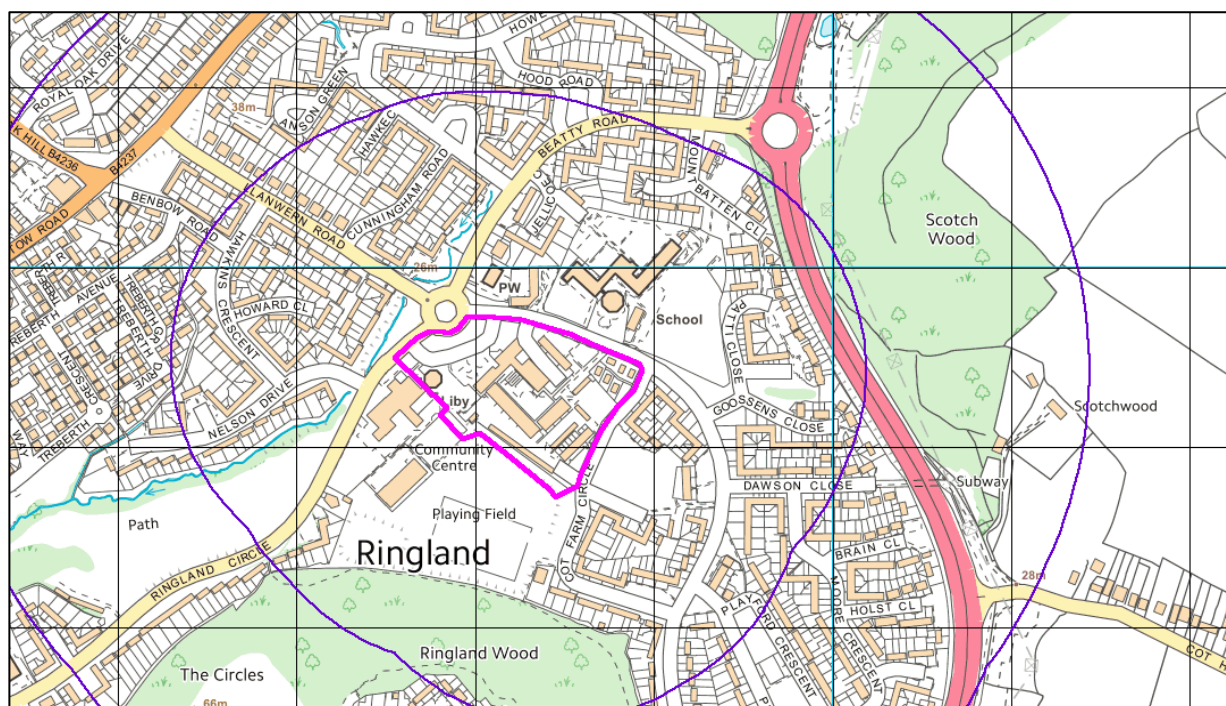


Fig 2.1 – Site Location Plan, site boundary shown in pink

2.2 Surrounding Area Details

Details of land uses within the surrounding area are given in *Table 2.2* below.

Table 2.2 - Surrounding Area

Surrounding Area	N	Residential dwellings and Milton Junior School with associated playing fields.
	E	Residential housing estate with A48 bypass on the far side of the estate 200m distant.
	S	Residential dwellings, playing fields and mature woodland.
	W	Residential dwellings.

3.0 Site History

A review of the available historical mapping and other information for the site, as presented within the Envirocheck report (1), has been undertaken and is presented in *Table 3.1* below. This has also been informed to a degree by the site walkover.

Table 3.1 Previous Site and Surrounding Area Uses and Potential Sources of Contamination.

Date	Description	Potential Sources of Contamination
1880s – 1950s	Site is set in open farmland with no development on the site.	• Limited potential for contamination.
1960 – 1970s	Extensive housing estate constructed on and around the site during the 1960s and early 1970s. The on-site buildings include a short terrace of houses in the eastern part of the site and a larger area of housing including a tower block in the western part of the site. A garage is shown in the northeast corner of the site.	• Uncontrolled deposition of Made Ground during construction of buildings on site and those in surrounding housing estate. • Hydrocarbons associated with the garage.
1980s – Present Day	The garage was demolished and replaced by 6 rectangular housing in the 1990's. No other significant changes are noted on mapping during this period. During the site walkover, it was noted that two terraces have recently been demolished.	• Limited potential for contamination. • Asbestos possibly associated with uncontrolled demolition.

4.0 Geology, Hydrogeology and Hydrology

4.1 Geology and Hydrogeology

A study of the Envirocheck records (1), British Geological Survey (BGS) 1:50,000 mapping records (Bedrock and Superficial Editions) for Newport (Sheet 249) (2) and the BGS online Geology of Britain Viewer (3) indicates the following geological and hydrogeological succession underlying the site:

Table 3.1 Geological/Hydrogeological Succession

Geology	Associated Hydrogeological Classification
Mercia Mudstone Group ¹	Secondary B Aquifer ²

Notes (lithological descriptions from BGS lexicon of named units):

1. Dominantly red, less commonly green-grey, mudstones and subordinate siltstones with thick halite-bearing units in some basinal areas. Thin beds of gypsum/anhydrite widespread; sandstones are also present.
2. These are predominantly lower permeability layers which may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers.

The nearest BGS borehole records available are located over 700m to the north of the site and are associated with the construction of the M4 in the 1960s. These boreholes showed around 1m of firm red silty CLAY overlying marl bedrock. It is considered that these holes are too far from the current site boundary to be indicative of site conditions.

In terms of groundwater vulnerability, the underlying deposits are classified as being a non-aquifer and negligible permeability meaning that groundwater vulnerability is unlikely to be of any significance.

The site is not situated within a Source Protection Zone (SPZ).

The chance of groundwater flooding occurring at the site is indicated to be negligible.

There are no groundwater abstractions within 500m of the site.

4.1.1 Mining

The Envirocheck Report (1) and The Coal Authority's online interactive mapping (4) confirms that the site is not within a coal mining reporting area and therefore, risk posed by coal workings has not been considered further.

Furthermore, the Envirocheck report (1) confirms that there are no BGS recorded mineral sites within 500m of the site boundary.

4.1.2 Other Ground Stability Issues

The Envirocheck report (1) confirms that there is a low risk to no hazard from the following ground stability hazards on and around the site; running sands, collapsible ground, shrinking or swelling clay, compressible ground and ground dissolution. There is however considered to be a moderate risk of landslide hazards.

4.1.3 Land Gas

The BGS Radon Mapping (5) and the Envirocheck report (1) confirms the site is situated in a lower probability radon area where <1% of homes are above the radon action level. On this basis radon protection measures are not considered necessary in the construction of new dwellings or extensions.

Where the new development incorporates a basement the advice of a specialist Radon assessor must be obtained.

4.1.4 Landfill

The Envirocheck report (1) does not show any landfill sites within 500m of the site boundary.

4.2 Hydrology

The nearest surface water feature is an unnamed stream 97m to the north west of the site boundary.

There is no water quality data available for this stream.

There are no designations associated with the site or nearby controlled waters.

No pollution incidents have been recorded within 250m of the site within the last 10 years.

The Envirocheck report (1) does not record any surface water abstractions associated with or located within 250m of the site boundary.

There are no current discharge consents associated with the site.

Flood risk mapping contained within the Envirocheck report (1) indicates that the southern boundary of the site is at a low risk of surface water flooding while for the remainder of the site the risk is negligible.

5.0 Preliminary Unexploded Ordnance (UXO) Risk Assessment

Military activities including those conducted as part of both the First and Second World Wars have resulted in a legacy of unexploded ordnance (UXO) being present within the shallow soils of the UK.

UXO result from various sources including both allied (military training) and German (bombing raids) with a guide figure of approximately 10% of all munitions failing to function as designed.

The likelihood of UXO being encountered on a development site is influenced by several factors including; the proximity to strategic targets, the nature of the development works being undertaken and evidence of local damage in the post-war periods amongst others. To determine the likelihood of UXO being present on a site, a step-wise risk assessment process is followed. This process is outlined within CIRIA C681 Unexploded Ordnance: A Guide for the Construction Industry (6) with the following commentary considered to represent a Preliminary Risk Assessment intended to guide if and where there is a requirement for a Detailed Risk Assessment.

5.1.1 Preliminary UXO Assessment

Regional UXO risk mapping for Monmouthshire (7) shows the site to be located in an area where UXO risk is moderate.

Historical mapping indicates that the site was undeveloped agricultural land during WW2 and that there were no significant strategic targets within 1km of the site boundary.

Furthermore, the western two thirds of the site have been developed since the end of WW2. It is therefore likely that any UXO remaining lodged in the ground would have already been disturbed.

With the preceding information in mind the overall risk posed by UXO at the site is considered to be **Low**.

6.0 Conceptual Site Model & Qualitative Risk Assessment

The conceptual site model (CSM) and Qualitative Risk Assessment (QRA) are presented in the table presented in this section. A diagrammatic CSM is contained within *Appendix A*.

The CSM details the source-pathway-receptor linkages or potential pollutant linkages (PPL) that have been identified for the site. The QRA details the associated level of risk relating to these potential pollutant linkages.

The CSM and QRA concern risk to human health and water environment with additional, more specific risk assessment protocols contained within the main body of this reporting, as detailed in Section 3.1 below.

The QRA follows the framework outlined within CIRIA C552 (8) which is summarised within *Appendix D*.

The 'risk rating' within the QRA refers to the risk that the source, pathway, receptor linkage or PPL is complete. Unless specifically stated it does not necessarily refer to an immediate risk and is intended to be used as a tool to assess the necessity for further assessment/investigation.

6.1 Additional Risk Assessments

The following risk assessments, listed below, are not included within the main CSM and QRA but none-the-less can be of critical importance to the onward development of the site.

- The risk presented by Mining is discussed and assessed in *Section 4.1.1*.
- The risk presented by Radon is discussed and assessed in *Section 4.1.3*.
- The risk presented by UXO is discussed and assessed in *Section 5.0*.

Under current health and safety legislation, employers are required to carry out their own appropriate risk assessments and mitigation to protect themselves and their employees, other human receptors and the environment from potential contamination. Such risks must be adequately mitigated by law, specifically the Construction Design Management (CDM) Regulations (2015) (9) which require 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. It has been assumed that any future construction works on site will be undertaken in compliance with these requirements and therefore construction workers involved in the building works at the site have been discounted as a human receptor in the conceptual site model.

Qualitative Risk
Assessment

Generic
Quantitative Risk
Assessment

Detailed
Quantitative Risk
Assessment or;
Remedial Action

- The table below represents the first stage in the land quality risk assessment process: The Qualitative Risk Assessment.
- In order for a development site to be deemed 'suitable for use', the level of risk needs to be brought down to acceptable levels, i.e. low to negligible risk. The purpose of each stage of risk assessment is ultimately to establish, if there is a requirement for additional levels of assessment to be made in order to have sufficient confidence to support a risk characterisation or management decision, e.g. remedial action.

Conceptual Site Model			Qualitative Risk Assessment			Recommended Actions
Source	Pathway(s)	Receptor(s)	Consequence (with explanations, if applicable)	Likelihood of Occurrence (with explanations if applicable)	Risk Rating	
Made Ground resulting from construction of residential buildings during the 1970s. Garage in the northeast of the site, since replaced by housing in the 1990's	Direct contact, ingestion, inhalation (dust and vapours) May occur in residential gardens or landscape areas	Site end users Residents and visitors	Medium Chronic health risk	Low Given the lack of potential sources of contamination but considering the potential for Made Ground and phases of demolition. The garage was redeveloped in the 1990's and replaced by residential housing.	Low/Moderate	Ground Investigation and Ground Gas Monitoring GQRA as part of Ground Investigation
	Vertical migration through the weathered bedrock (soils) Natural strata considered to have low permeability	Water Environment Underlying bedrock is classified as a Secondary B Aquifer but is classified as a non-aquifer from the perspective of groundwater vulnerability.	Medium Pollution of sensitive water resources	Unlikely There are limited potential sources of contamination and the underlying aquifer is classified as being of low vulnerability.	Low	Ground Investigation and Ground Gas Monitoring Including testing of any groundwater encountered. GQRA as part of Ground Investigation
	Horizontal migration through preferential pathways in the underlying bedrock Natural strata considered to have low permeability	Water Environment Nearest surface water is an unnamed stream 97m to the north west of the site.	Medium Pollution of sensitive water resources	Unlikely There are limited potential sources of contamination and the underlying deposits are largely impermeable.	Low	Ground Investigation and Ground Gas Monitoring GQRA as part of Ground Investigation
Off-site sources of potential contamination: Made Ground from construction of surrounding housing estates during the 1970s	Horizontal migration through the superficial deposits and air (dust/particulates) Followed by... Direct contact, ingestion, inhalation (dust and vapours)	Site end users Residents and visitors	Medium Chronic health risk	Unlikely There are limited potential sources of contamination surrounding the site.	Low	Ground Investigation and Ground Gas Monitoring GQRA as part of Ground Investigation



	Horizontal migration through the superficial and bedrock deposits	Water Environment Secondary B Aquifer Classified as a non-aquifer from the perspective of groundwater vulnerability. The site is not situated within a Source Protection Zone (SPZ)	Medium Pollution of sensitive water resources	Unlikely There are limited sources of contamination and the underlying deposits are of low permeability making the movement of contaminants slow and natural attenuation of contaminants high.	Low	Ground Investigation and Ground Gas Monitoring GQRA as part of Ground Investigation
On and off-site soils with the potential to generate ground gases Made Ground deposits on and off site.	Vertical and horizontal migration through the superficial and bedrock deposits	Site end users Residents and visitors	Medium Chronic health risk	Low Likelihood There may be inclusions within the Made Ground on site capable of gas generation. However, it must be noted that with reference to BS8576 (2013) <i>Guidance on investigations for ground gas – Permanent gases and Volatile Organic Compounds</i> , organic inclusions within Made Ground & Natural sources are considered to have a Very Low to Low gassing potential.	Moderate/Low	Ground Gas Monitoring as part of ground investigation

7.0 Conclusion and Recommendations

The qualitative risk assessment (QRA) determined a generally low level of risk associated with the proposed development.

The QRA concluded by recommending that generic quantitative risk assessments (GQRA) were conducted to confirm the assessment of risk ascribed to each of the respective potential pollutant linkages (PPLs). While the risks are generally thought to be low it is still recommended that a GQRA is carried out in order to provide actual data to support the conclusions of the QRA. It is recommended that the GQRA is conducted as part of a ground investigation in support of the engineering design of the proposed development an outline scope for which is detailed in the section hereafter.

In summary, the following recommendations are made:

- Undertake an intrusive ground investigation;
- Undertake a GQRA as part of the ground investigation; and,
- Undertake Ground Gas Monitoring

It is further recommended that this work is completed in advance of any development works taking place.

7.1 Outline Scope of Works for Ground Investigation

It is envisaged that the ground investigation will comprise the following actions, all undertaken under the supervision of a suitably qualified engineer in line with current guidance and best practice:

- Boreholes - to provide reliable geotechnical information e.g. soil & rock strength parameters, the ability to facilitate soil gas monitoring.
- Associated geotechnical and environmental laboratory testing - to develop a working ground model, classify the natural material for re-use on site and assess the potential risk to end users of the site and other sensitive receptors.
- Soil gas monitoring - to confirm the risk to end users of the site from soil gases.

7.2 Contaminants of Concern

Any contaminants encountered are likely to be typical of Made Ground and related to the construction or demolition of the houses on site and, given the age of the buildings may include asbestos.

There is the potential for hydrocarbons associated with the former garage in the northeast of the site. It is not clear from the historical maps if the garage was for vehicle maintenance or dispensing fuel with possibility of underground storage tanks. This part of the site redeveloped as housing in the 1990's/2000's therefore some removal of sources or remediation has likely taken place.

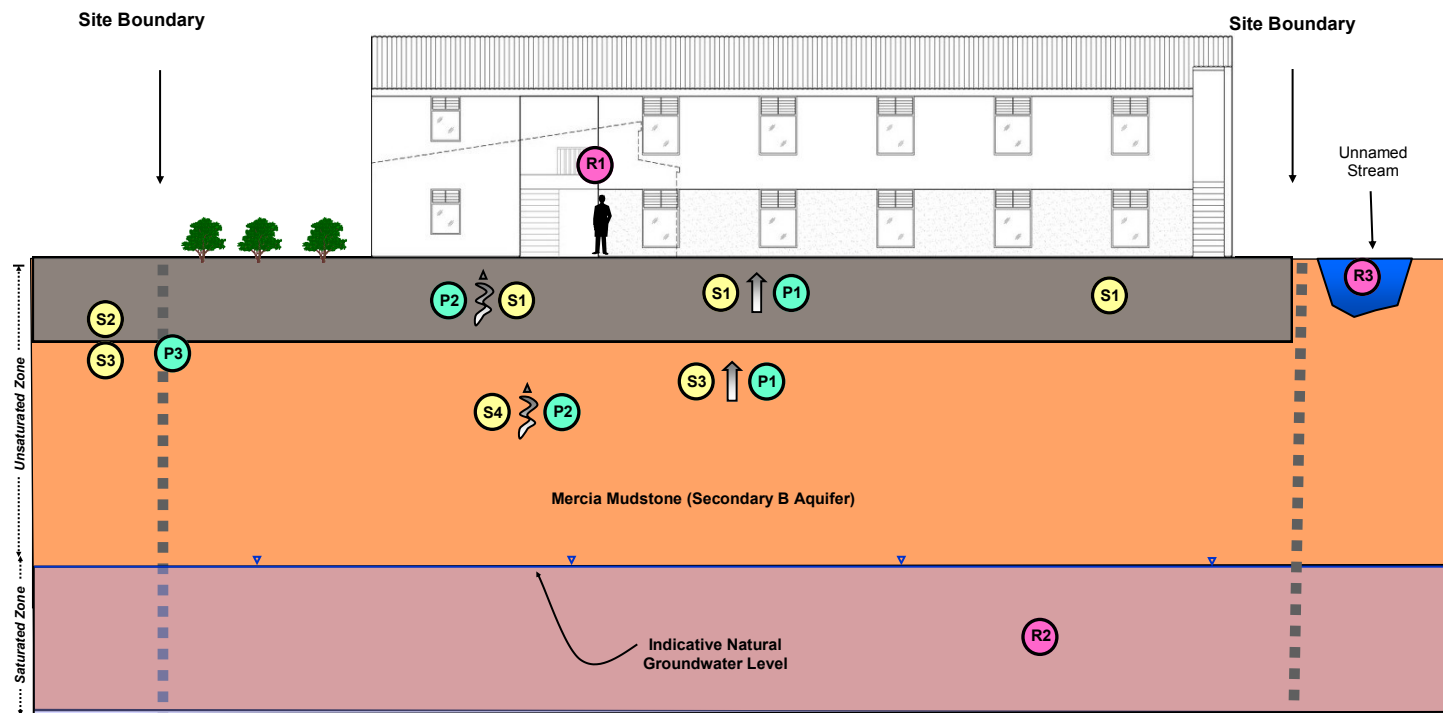
References

1. **Landmark Information Group.** *Envirocheck Report*. November 2018. Order Number 186850305_1_1
2. **British Geological Survey.** *BGS 1:50,000 Mapping Records (Solid and Drift) Newport (Sheet 249)*. 1997.
3. —. *Geology of Britain Viewer*. *British Geological Survey*. [Online]
<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>.
4. **The Coal Authority.** *Interactive Coal Mining Risk Map*. [Online]
<http://mapapps2.bgs.ac.uk/coalauthority/home.html>.
5. **Public Health England and BGS.** *UK Radon Map*. [Online]
<http://www.ukradon.org/information/ukmaps>.
6. **CIRIA.** *C681 Unexploded Ordnance (UXO); A guide for the construction industry*. London : s.n., 2009.
7. **Zetica.** *Regional Unexploded Bomb Risk Map (Monmouthshire)*. accessed May 2017.
8. **CIRIA.** *C552 Contaminated Land Risk Assessment. A Guide to Good Practice*. 2001.
9. **Health and Safety Executive.** *Construction (Design and Management) Regulations*. 2015.
10. **Environment Agency.** *Whats in Your Backyard*. [Online] <http://apps.environment-agency.gov.uk/wiyby/default.aspx>.

Appendix A – Drawings

- Curtins drawing B065384.000-CUR-00-XX-DR-GE-002-V01_Conceptual Model
- Powel Dobson Architects Proposed Masterplan 30/10/2018 17095(05)101

B065384.000-CUR-00-XX-DR-GE-002-V01_Conceptual Model



Sources

- S1** Made-ground (On site)
- S2** Made-ground (Off site)
- S3** Natural soils (On & off site)
- S4** Ground gas sources

Pathways

- P1** Direct contact, ingestion and or inhalation
- P2** Vertical migration
- P3** Horizontal migration

Receptors

- R1** End users
- R2** Groundwater
- R3** Surface water
- R4**
- R5**



Quayside, 40-58 Hotwell Road,
Bristol, BS8 4UQ
Tel: 0117 302 7560

Project

Ringland, Newport

Drawing Title

Diagrammatic Conceptual Model

Job Reference

B065384.000

Date

14/07/2017

Author

DM

Checked

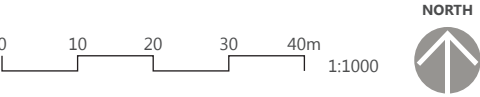
GB

Client

Newport City Homes Ltd

Not to scale

NOTE:
THIS ILLUSTRATIVE MASTERPLAN DEMONSTRATES HOW THE CONCEPT MASTERPLAN COULD BE DEVELOPED IN LINE WITH THE PROPOSED PARAMETERS. ITS PURPOSE IS PURELY INDICATIVE AND IT IS INTENDED A DETAILED SCHEME WILL BE FULLY DEVELOPED FOR A RESERVED MATTERS APPLICATION IN DUE COURSE.



Figured dimensions and levels to be used.
Any inaccuracies must be notified to the architect.
Detail drawings and large scale drawings take precedence over smaller drawings.

Rev:

Rev:

Rev:

Rev:

PRELIMINARY	
PLANNING	✓
DESIGN	
TENDER	
CONSTRUCTION	

powelldobson
ARCHITECTS

Cardiff Office: Suite 1F, Building One, Eastern Business Park, Wern Fawr Lane, Old St Mellons, Cardiff CF3 5EA
Tel: +44 (0)333 33 201 001 Fax: +44 (0)29 2079 1212 email: cardiff@powelldobson.com

Contract: Newport City Homes
Ringland Regeneration
Title: Proposed Masterplan

Drawing No. 17095(05)101
Rev. /

Scale: 1:1000 @A3
Date: 30/10/2018
Drawn: AJP
Checked: BK

Appendix B – Supporting Information

- Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

186850305_1_1

Customer Reference:

B065384

National Grid Reference:

335650, 188860

Slice:

A

Site Area (Ha):

3.09

Search Buffer (m):

1000

Site Details:

Ringland Centre

NEWPORT

NP19 9HG

Client Details:

Mr G Behrens

Curtins Consulting Ltd

Quayside

40-58 Hotwell Road

Bristol

BS8 4UQ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	18
Hazardous Substances	-
Geological	19
Industrial Land Use	23
Sensitive Land Use	28
Data Currency	31
Data Suppliers	36
Useful Contacts	37

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.

Copyright Notice

© Landmark Information Group Limited 2018. The Copyright on the information and data and its format as contained in this Envirocheck® Report ("Report") is the property of Landmark Information Group Limited ("Landmark") and several other Data Providers, including (but not limited to) Ordnance Survey, British Geological Survey, the Environment Agency/Natural Resources Wales and Natural England, and must not be reproduced in whole or in part by photocopying or any other method. The Report is supplied under Landmark's Terms and Conditions accepted by the Customer. A copy of Landmark's Terms and Conditions can be found with the Index Map for this report. Additional copies of the Report may be obtained from Landmark, subject to Landmark's charges in force from time to time. The Copyright, design rights and any other intellectual rights shall remain the exclusive property of Landmark and /or other Data providers, whose Copyright material has been included in this Report. © Environment Agency & United Kingdom Research and Innovation 2018. © Natural Resources Wales & United Kingdom Research and Innovation 2018.

Natural England Copyright Notice

Site of Special Scientific Interest, National Nature Reserve, Ramsar, Special Protection Area, Special Conservation Area, Marine Nature Reserve data (derived from Ordnance Survey 1:10000 raster) is provided by, and used with the permission of, Natural England who retain the copyright and Intellectual Property Rights for the data.

Scottish Natural Heritage Copyright

Contains SNH information licensed under the Open Government Licence v3.0.

Ove Arup Copyright Notice

The Mining Instability data was obtained on licence from Ove Arup & Partners Limited (for further information, contact mining.review@arup.com). No reproduction or further use of such Data is to be made without the prior written consent of Ove Arup & Partners Limited. The supplied Mining Instability data is derived from publicly available records and other third party sources and neither Ove Arup & Partners nor Landmark warrant the accuracy or completeness of such information or data.

Peter Brett Associates Copyright Notice

The cavity data presented has been extracted from the PBA enhanced version of the original DEFRA national cavity databases. PBA/DEFRA retain the copyright & intellectual property rights in the data. Whilst all reasonable efforts are made to check that the information contained in the cavity databases is accurate we do not warrant that the data is complete or error free. The information is based upon our own researches and those collated from a number of external sources and is continually being augmented and updated by PBA. In no event shall PBA/DEFRA or Landmark be liable for any loss or damage including, without limitation, indirect or consequential loss or damage arising from the use of this data.

Radon Potential dataset Copyright Notice

Information supplied from a joint dataset compiled by The British Geological Survey and Public Health England.

Natural Resources Wales Copyright Notice

Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number 100019741. Crown Copyright and Database Right. Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Some features of this information are based on digital spatial data licensed from the Centre for Ecology & Hydrology © NERC (CEH). Defra, Met Office and DARD Rivers Agency © Crown copyright. © Cranfield University. © James Hutton Institute. Contains OS data © Crown copyright and database right 2018. Land & Property Services © Crown copyright and database right.

Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			3	
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 1				3
Integrated Pollution Prevention And Control	pg 2				4
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3				1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters					
Prosecutions Relating to Authorised Processes	pg 3				1
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions	pg 3				7 (*15)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 8	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 8	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 9		4	8	63

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					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 18	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 18				4
Potentially Infilled Land (Water)	pg 18		4	4	5
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
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 19	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 19	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 20				5
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				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards				n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 23		1	10	17
Fuel Station Entries	pg 25				2
Points of Interest - Commercial Services	pg 25		1	3	2
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 26				4
Points of Interest - Public Infrastructure	pg 26				4
Points of Interest - Recreational and Environmental	pg 26		2	3	
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland	pg 28		4	7	24
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves	pg 30				1
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	227	1	335500 188600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	309	1	336050 189050
1	Discharge Consents Operator: Newport Borough Council Property Type: Undefined Or Other Location: Newport Coldra Housing Development Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: An0017101 Permit Version: 1 Effective Date: 19th November 1986 Issued Date: 19th November 1986 Revocation Date: 19th April 1993 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Stream Status: Consent expired Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	446	2	335300 189300
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: A Combined Sewer Overflow Treberth, Treberth Estate Cso, Newport, Wales Authority: Natural Resources Wales Catchment Area: Not Supplied Reference: An0157801 Permit Version: 2 Effective Date: 31st March 2005 Issued Date: 24th February 2005 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Unnamed Watercourse Status: Effective Positional Accuracy: Located by supplier to within 10m	A12SE (W)	492	2	335061 188699
2	Discharge Consents Operator: Dwr Cymru Cyfyngedig Property Type: Sewerage Network - Sewers - Water Company Location: Treberth Estate Newport Newport Cbc, Newport, Wales Authority: Natural Resources Wales Catchment Area: River Usk (Afon Wysg) Reference: AN0157801 Permit Version: 1 Effective Date: 13th December 1991 Issued Date: 13th December 1991 Revocation Date: 30th March 2005 Discharge Type: Unspecified Discharge: Not Supplied Environment: Receiving Water: Unnamed Watercourse Status: New Consent, by Application (Water Resources Act 1991, Section 88) Positional Accuracy: Located by supplier to within 100m	A12SE (W)	497	2	335040 188740
3	Integrated Pollution Controls Name: Dwr Cymru Cyfyngedig Ltd Location: Nash Wastewater Treatment Works, West Nash, NEWPORT, Gwent, NP6 2YN Authority: Environment Agency, Welsh Region Permit Reference: BE4827 Dated: 24th November 1998 Process Type: IPC minor (non-substantial) variation to previous variation Description: 1.3 A (C) Combustion processes within the Fuel & Power Industry Status: Authorisation revoked Positional Accuracy: Unknown	A19SW (NE)	594	3	336100 189395
3	Integrated Pollution Controls Name: Dwr Cymru Cyfyngedig Ltd Location: Nash Treatment Works, Nash, NEWPORT, Gwent, NP6 2YH Authority: Environment Agency, Welsh Region Permit Reference: BB3450 Dated: 9th October 1998 Process Type: IPC new application Description: 1.3 A (C) Combustion processes within the Fuel & Power Industry Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A19SW (NE)	598	3	336100 189400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Integrated Pollution Controls Name: Electrotech Ltd Location: Ringland Way, NEWPORT, Gwent, NP6 2TA Authority: Environment Agency, Welsh Region Permit Reference: AY3229 Dated: Not Supplied Process Type: Application since found to be exempt from IPC Description: 4.4 A (B) processes involving Halogens within the Chemical Industry Status: Application received by the EA but is not yet authorised Positional Accuracy: Unknown	A19SW (NE)	702	3	336163 189483
5	Integrated Pollution Prevention And Control Name: Spts Technologies Limited Location: Spts Technologies Ea/Epr/Hp3131ku/V002, Spp Process Technology Systems Uk Ltd, Ringland Way,,, Newport, South Wales, NP18 2TA Authority: Natural Resources Wales Permit Reference: BP3232FJ Original Permit Ref: Hp3131ku Effective Date: 12th September 2011 Status: Effective 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 Activity Code: 4.2 A(1) (H) Activity Description: Inorganic Chemicals; Using Hydrogen Fluoride/Chloride Etc If Release To Air (Other Than Chemicals Manufacture Etc) Primary Activity: N	A19SW (NE)	706	2	336163 189488
5	Integrated Pollution Prevention And Control Name: Spp Process Technology Systems Uk Limited Location: Spp Process Technology Systems Ea/Epr/Hp3131ku/T001, Spp Process Technology Systems Uk Ltd, Ringland Way,,, Newport, South Wales, NP18 2TA Authority: Natural Resources Wales Permit Reference: HP3131KU Original Permit Ref: Hp3131ku Effective Date: 8th January 2010 Status: Superseded By Variation Application Type: Transfer App. Sub Type: Whole with Fit and Proper Person 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 Activity Code: 4.2 A(1) (H) Activity Description: Inorganic Chemicals; Using Hydrogen Fluoride/Chloride Etc If Release To Air (Other Than Chemicals Manufacture Etc) Primary Activity: N	A19SW (NE)	706	2	336163 189488
5	Integrated Pollution Prevention And Control Name: Aviza Technology Ltd Location: Coed Rhedyn, Ringland Way, Newport, Gwent, NP18 2TA Authority: Natural Resources Wales Permit Reference: TP3238UR Original Permit Ref: Np3033bm Effective Date: 4th June 2007 Status: Superseded By Variation Application Type: Variation App. Sub Type: Standard Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (H) Activity Description: Inorganic Chemicals; Using Hydrogen Fluoride/Chloride Etc If Release To Air (Other Than Chemicals Manufacture Etc) Primary Activity: N 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	A19SW (NE)	706	2	336163 189488

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Integrated Pollution Prevention And Control Name: Aviza Technology Ltd Location: Coed Rhedyn, Ringland Way, NEWPORT, Gwent, NP18 2TA Authority: Natural Resources Wales Permit Reference: Np3033bm Original Permit Ref: Np3033bm Effective Date: 11th March 2005 Status: Superseded By Variation Application Type: Application App. Sub Type: New Positional Accuracy: Automatically positioned to the address Activity Code: 4.2 A(1) (H) Activity Description: Inorganic Chemicals; Using Hydrogen Fluoride/Chloride Etc If Release To Air (Other Than Chemicals Manufacture Etc) Primary Activity: N 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	A19SW (NE)	706	2	336163 189488
6	Local Authority Pollution Prevention and Controls Name: Tesco Stores Ltd Location: Chepstow Road, NEWPORT, Gwent, NP19 9EZ Authority: Newport City Council, Public Protection and Environmental Services Permit Reference: P011/05v2 Dated: 31st December 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address	A12NE (W)	517	4	335003 188995
	Nearest Surface Water Feature	A13NW (W)	20	-	335501 188921
7	Prosecutions Relating to Authorised Processes Location: Department of Transport, Coldra, NEWPORT, NP Prosecution Text: Transporting Controlled Waste Comprising Bricks, Rubble And Soil, Without A Licence. Stopped At Dot Facility. Prosecution Act: Copa89 (Amendment) S1 Hearing Date: 31st May 2001 Verdict: Guilty Fine: 250 Costs: 200 Positional Accuracy: Manually positioned to the road within the address or location	A19NW (NE)	773	3	336011 189636
8	Water Abstractions Operator: Mr A N Dartnell Licence Number: 20/56/72/0051 Permit Version: 1 Location: Borehole At Llanwern 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: Llanwern Farm Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th October 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	780	3	336400 189370
9	Water Abstractions Operator: Celtic Inns Limited Licence Number: 20/56/72/0033 Permit Version: 101 Location: Pond At Caerleon (Point C) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Nov to 31-Mar Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 19th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	874	3	335700 189815

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0033 Permit Version: Not Supplied Location: Pond At, Caerleon (point C) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 35000 Details: Licenced from 01-Nov to 31-Mar Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	874	3	335705 189815
9	Water Abstractions Operator: Celtic Inns Limited Licence Number: 20/56/72/0033 Permit Version: 101 Location: Pond At Caerleon (Point C) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 19th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	879	3	335700 189820
9	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0033 Permit Version: Not Supplied Location: Pond At, Caerleon (point C) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 5000 Details: Licenced from 01-Apr to 31-Oct Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NE (N)	879	3	335705 189820
10	Water Abstractions Operator: Celtic Manor Resort Licence Number: 20/56/72/0035 Permit Version: 102 Location: Pond Near Catsash Road Authority: Natural Resources Wales Abstraction: Golf Courses: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Area Of Land At Celtic Manor Golf Club Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	977	2	335150 189820

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0035 Permit Version: 101 Location: Pond Near Catsash Road Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Existing Pond Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	977	3	335150 189820
	Water Abstractions Operator: Celtic Inns Limited Licence Number: 20/56/72/0033 Permit Version: 101 Location: Pond At Caerleon (Point B) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Nov to 31-Mar Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 19th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1258	3	335900 190175
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0033 Permit Version: Not Supplied Location: Pond At, Caerleon (point B) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 5000 Details: Licenced from 01-Apr to 31-Oct Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1259	3	335905 190175
	Water Abstractions Operator: Celtic Manor Resort Licence Number: 20/56/72/0033 Permit Version: 102 Location: Pond At Caerleon (Point A) Authority: Natural Resources Wales Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1263	2	335900 190180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Celtic Manor Resort Licence Number: 20/56/72/0033 Permit Version: 102 Location: Pond At Caerleon (Point A) Authority: Natural Resources Wales Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 11 January Authorised End: 03 July Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1263	2	335900 190180
	Water Abstractions Operator: Celtic Manor Resort Licence Number: 20/56/72/0033 Permit Version: 102 Location: Pond At Caerleon (Point A) Authority: Natural Resources Wales Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st April 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1263	2	335900 190180
	Water Abstractions Operator: Celtic Inns Limited Licence Number: 20/56/72/0033 Permit Version: 101 Location: Pond At Caerleon (Point B) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Licenced from 01-Apr to 31-Oct Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 19th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1263	3	335900 190180
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0033 Permit Version: Not Supplied Location: Pond At, Caerleon (point B) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 35000 Details: Licenced from 01-Nov to 31-Mar Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SE (N)	1264	3	335905 190180

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0039 Permit Version: 101 Location: Impoundment On Un-Named Tributary Of Caldicot Reens Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Un-Named Stream Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 6th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NE (NE)	1705	3	336420 190475
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0039 Permit Version: 101 Location: Impoundment On Un-Named Tributary Of Caldicot Reens Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Area Of Land At Celtic Manor Golf Club Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 6th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A24NE (NE)	1710	3	336420 190480
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0039 Permit Version: 101 Location: Impoundment On Un-Named Tributary Of Caldicot Reens Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Area Of Land At Celtic Manor Golf Club Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 6th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1710	3	336420 190480
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0039 Permit Version: 101 Location: Impoundment On Un-Named Tributary Of Caldicot Reens Authority: Environment Agency, Welsh Region Abstraction: Golf Courses: Dust Suppression Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Area Of Land At Celtic Manor Golf Club Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 6th September 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A24NE (NE)	1710	3	336420 190480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0033 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 5000 Details: Pond C Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1793	3	335055 190655
	Water Abstractions Operator: Celtic Inns Limited Licence Number: 20/56/72/0033 Permit Version: 101 Location: Pond At Caerleon (Point A) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pond B Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 19th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1794	3	335050 190655
	Water Abstractions Operator: The Celtic Manor Hotel Limited Licence Number: 20/56/72/0033 Permit Version: Not Supplied Location: Pond At, Caerleon (point A) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 600 Yearly Rate (m3): 35000 Details: Licenced from 01-Nov to 31-Mar Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Approximate location provided by supplier	(N)	1798	3	335055 190660
	Water Abstractions Operator: Celtic Inns Limited Licence Number: 20/56/72/0033 Permit Version: 101 Location: Pond At Caerleon (Point A) Authority: Environment Agency, Welsh Region Abstraction: Hotels; Public Houses And Conference Centres: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pond A Authorised Start: 01 November Authorised End: 31 March Permit Start Date: 19th August 2003 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1799	3	335050 190660
	Groundwater Vulnerability Soil Classification: Not classified Map Sheet: Sheet 36 Mid Glamorgan Scale: 1:100,000	A13NE (NE)	0	3	335653 188860
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - B	A13NE (NE)	0	2	335653 188860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
11	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 275.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A13NW (NW)	20	5	335569 188990
12	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A13NW (W)	38	5	335478 188879
13	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 371.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A13NW (W)	62	5	335461 188862
14	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 228.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A13NW (N)	140	5	335618 189085
15	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: Usk and Llwyd Primacy: 1	A12SE (W)	291	5	335228 188829
16	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SE (W)	312	5	335211 188815
17	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SE (W)	315	5	335208 188813

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18SW (NW)	330	5	335454 189244
19	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 123.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18SW (NW)	366	5	335429 189273
20	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: Usk and Llwyd Primacy: 1	A12SE (W)	394	5	335149 188743
21	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 462.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SE (W)	395	5	335148 188742
22	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 58.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18SW (NW)	457	5	335316 189322
23	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 97.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SE (NW)	511	5	335270 189358
24	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SE (NW)	511	5	335270 189358
25	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 80.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SE (NW)	511	5	335270 189358
26	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A8NE (S)	515	5	335831 188249

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
27	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 246.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A8NE (S)	515	5	335831 188249
28	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 88.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SE (NW)	517	5	335263 189361
29	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9NW (SE)	543	5	335990 188290
30	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 31.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9NW (SE)	555	5	335998 188281
31	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 320.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12NW (W)	565	5	334947 188937
32	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12NW (W)	565	5	334947 188937
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12NW (W)	586	5	334933 188997
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 142.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A9NW (SE)	586	5	336014 188254
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SE (NW)	594	5	335183 189399

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A8SW (S)	625	5	335623 188123
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A8SW (S)	625	5	335623 188123
38	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: Usk and Llwyd Primacy: 1	A8SW (S)	662	5	335533 188101
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A8SW (S)	664	5	335531 188100
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 119.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SE (NW)	683	5	335024 189378
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 286.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A8SW (S)	692	5	335480 188086
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12NW (W)	722	5	334829 189135
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 61.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12NW (W)	734	5	334822 189153
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	761	5	334969 188358

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SW (W)	772	5	334789 188626
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SW (W)	772	5	334806 188575
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 36.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17SW (W)	774	5	334803 189212
48	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: Usk and Llwyd Primacy: 1	A14SE (E)	774	5	336485 188550
49	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: Usk and Llwyd Primacy: 1	A14SE (E)	783	5	336493 188545
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 45.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	788	5	334831 188500
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 59.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SE (E)	795	5	336505 188540
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 41.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SW (W)	798	5	334741 188685
53	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 6.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	808	5	334925 188339

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A12SW (W)	817	5	334714 188717
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 354.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	825	5	334795 188488
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 498.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	829	5	335796 189758
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 187.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	830	5	334799 188471
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17NE (NW)	831	5	335219 189690
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	837	5	335852 189754
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	837	5	335851 189754
61	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 9.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	850	5	335933 189745
62	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 0.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	853	5	335942 189745

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 0.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	853	5	335942 189745
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	853	5	335943 189745
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	853	5	335941 189746
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 459.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A14SE (E)	855	5	336558 188513
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A19NW (NE)	857	5	336174 189656
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 275.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7SE (SW)	878	5	335212 188008
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 249.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A19NW (N)	882	5	336010 189753
70	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A19NW (NE)	887	5	336025 189753
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 229.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A19NW (N)	890	5	336023 189758

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	909	5	334827 188300
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	912	5	334825 188297
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 283.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A15SW (E)	919	5	336666 188617
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 78.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	924	5	335961 189814
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 34.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	924	5	335947 189817
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 95.9 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	925	5	334840 188256
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 60.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A18NE (N)	932	5	335934 189830
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 266.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	948	5	334885 188171
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 11.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A11NE (W)	960	5	334553 188970

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 467.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17NW (NW)	971	5	334773 189531
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A7NW (SW)	976	5	334819 188203
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A23SE (N)	990	5	335967 189881
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 26.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A19NW (NE)	990	5	336258 189761
85	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 3.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Usk and Llwyd Primacy: 1	A17NE (NW)	1000	5	335160 189849

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Newport County Borough Council - Has no landfill data to supply		0	6	335653 188860
86	Potentially Infilled Land (Non-Water) Bearing Ref: NW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A17SE (NW)	600	-	335290 189469
87	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1902	A9NE (SE)	807	-	336468 188444
88	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1922	A19SE (NE)	900	-	336592 189288
89	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A15NW (E)	955	-	336726 189063
90	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NE (E)	91	-	335873 188856
91	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (N)	154	-	335625 189099
92	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A13NW (N)	176	-	335608 189121
93	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12NE (W)	216	-	335298 188937
94	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A13NW (NW)	262	-	335388 189138
95	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12SE (W)	342	-	335182 188802
96	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18SW (NW)	364	-	335439 189275
97	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12NE (W)	456	-	335056 188866
98	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A12NW (W)	564	-	334948 188943
99	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A8SW (S)	668	-	335534 188095
100	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A12SW (W)	686	-	334913 188564
101	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1954	A6NE (W)	974	-	334623 188498
102	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1965	A11NE (W)	996	-	334554 189175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Triassic Rocks (Undifferentiated)	A13NE (NE)	0	1	335653 188860
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 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	A13NE (NE)	0	1	335653 188860
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A13SW (SW)	221	1	335497 188607
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A14NW (E)	275	1	336031 189013
	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	A17SE (NW)	452	1	335216 189251
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 35 - 45 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A8NW (S)	588	1	335441 188212
	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	A8SW (S)	726	1	335402 188079

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 35 - 45 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A7NW (SW)	976	1	334711 188340
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A15SW (E)	995	1	336748 188627
103	BGS Recorded Mineral Sites Site Name: Cwm Wood Location: Christchurch, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176499 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	A17SE (NW)	600	1	335291 189470
104	BGS Recorded Mineral Sites Site Name: Great Milton Location: Christchurch, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176397 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Blue Lias Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	870	1	336522 188414
105	BGS Recorded Mineral Sites Site Name: Coldra Wood Location: Christchurch, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176497 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	A18NW (N)	909	1	335572 189853
106	BGS Recorded Mineral Sites Site Name: Little Milton Location: Christchurch, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176396 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Blue Lias Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A15NW (E)	958	1	336726 189073

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
107	BGS Recorded Mineral Sites Site Name: Coed Goleu Location: Christchurch, Newport, Gwent Source: British Geological Survey, National Geoscience Information Service Reference: 176395 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: Blue Lias Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A19SE (NE)	964	1	336652 189312
	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 No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	335653 188860
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	335653 188860
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	335653 188860
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	335653 188860
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	75	1	335587 188693
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	131	1	335736 188621
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	185	1	335619 188575
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	196	1	335972 188950
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	201	1	335659 188546
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	219	1	335984 188983
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	249	1	335476 188575
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	335653 188860
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	335653 188860
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	221	1	335497 188607

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	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	A13NE (NE)	0	1	335653 188860
	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	A13NE (NE)	0	1	335653 188860

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	Contemporary Trade Directory Entries Name: Jr Electrical Services Location: 38, Hawkins Crescent, Newport, Gwent, NP19 9FQ Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	205	-	335365 189043
109	Contemporary Trade Directory Entries Name: T M Cleaning Services Location: 18, Llanwern Road, Newport, Gwent, NP19 9GF Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	256	-	335328 189079
110	Contemporary Trade Directory Entries Name: J & A Coal Transport Ltd Location: 24, Anson Green, Newport, Gwent, NP19 9GN Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	311	-	335406 189204
111	Contemporary Trade Directory Entries Name: Newport Wrought Iron Work Location: 157, Howe Circle, Newport, Gwent, NP19 9GS Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	374	-	335815 189283
111	Contemporary Trade Directory Entries Name: Welded Metal Products Location: 157, Howe Circle, Newport, Gwent, NP19 9GS Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (N)	374	-	335815 189283
112	Contemporary Trade Directory Entries Name: Low Cost Motor Company Location: Royal Oak, Newport, NP19 9FL Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	381	-	335163 189056
112	Contemporary Trade Directory Entries Name: Germania Location: Royal Oak Garage, Augustus Pl, Chepstow Rd, Newport, Gwent, NP19 9FN Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the address or location	A12NE (W)	383	-	335163 189060
113	Contemporary Trade Directory Entries Name: City Markings Location: 46, Edward German Crescent, Newport, Gwent, NP19 9ND Classification: Road Marking & Surfacing Equipment & Material Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	381	-	335517 188405
114	Contemporary Trade Directory Entries Name: Gaslite Location: 49, The Coldra, Newport, Gwent, NP18 2LS Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	422	-	335525 189361
115	Contemporary Trade Directory Entries Name: Clean Sweep Cleaning Location: 39, Royal Oak Drive, Newport, Gwent, NP18 1JE Classification: Carpet, Curtain & Upholstery Cleaners Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	460	-	335252 189284
116	Contemporary Trade Directory Entries Name: Poyner Fuels Location: 17, Butterworth Close, Newport, Gwent, NP19 9LY Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	495	-	335301 188406
117	Contemporary Trade Directory Entries Name: Esso Location: Chepstow Road, Newport, Gwent, NP19 9EZ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location	A12NE (W)	516	-	335005 189001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	Contemporary Trade Directory Entries Name: Treberth Service Station Location: Chepstow Road, Newport, Gwent, NP19 9EZ Classification: Petrol Filling Stations - 24 Hour Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	517	-	335003 188995
117	Contemporary Trade Directory Entries Name: Esso Location: Chepstow Road, Newport, Gwent, NP19 9EZ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (W)	524	-	334997 189004
118	Contemporary Trade Directory Entries Name: Newport Appliance Services Ltd Location: Hillside, Treberth Crescent, Newport, Gwent, NP19 9TF Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	549	-	334975 188778
119	Contemporary Trade Directory Entries Name: Alcatel-Lucent Location: Coldra Wood, Chepstow Road, Newport, Gwent, NP18 2YB Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	601	-	335746 189536
119	Contemporary Trade Directory Entries Name: Data Telecommunication Location: Coldra Wood, Chepstow Road, Newport, Gwent, NP18 2YB Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	601	-	335746 189536
120	Contemporary Trade Directory Entries Name: S P T S Technologies Location: Coed Rhedyn, Ringland Way, Newport, NP18 2TA Classification: Electronic Component Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A19SW (NE)	705	-	336162 189488
120	Contemporary Trade Directory Entries Name: Aviza Technology Ltd Location: Coed Rhedyn, Ringland Way, Newport, Gwent, NP18 2TA Classification: Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SW (NE)	706	-	336163 189488
121	Contemporary Trade Directory Entries Name: A T Willett Location: Ringwood Avenue, Newport, Gwent, NP19 9DW Classification: Dairies Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	796	-	334836 188477
122	Contemporary Trade Directory Entries Name: Chepstow Road Filling Station Location: Chepstow Road, Newport, Gwent, NP19 9EY Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	803	-	334713 188804
122	Contemporary Trade Directory Entries Name: Autoplus Location: Chepstow Rd, Newport, Gwent, NP19 9EZ Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	804	-	334712 188804
123	Contemporary Trade Directory Entries Name: P L S Location: 37, Kier Hardie Crescent, Newport, Gwent, NP19 9ER Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	808	-	334717 189052
124	Contemporary Trade Directory Entries Name: Pharma Test Uk Ltd Location: Five Oaks, Christchurch, Newport, Gwent, NP18 1JJ Classification: Chemists' & Pharmacists' Suppliers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SW (NW)	837	-	334801 189343

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	Contemporary Trade Directory Entries Name: Talbotbay Location: 668, Chepstow Road, Newport, Gwent, NP19 9EY Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	858	-	334663 188763
126	Contemporary Trade Directory Entries Name: Coldra Location: Chepstow Road, Langstone, Newport, Gwent, NP18 2NX Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	904	-	336217 189686
126	Contemporary Trade Directory Entries Name: Coldra Tyres Location: Chepstow Road, Langstone, Newport, Gwent, NP18 2NX Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	904	-	336217 189686
127	Contemporary Trade Directory Entries Name: Pressed 4 Time Location: Newport, Gwent, NP19 9dw Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A11SE (W)	945	-	334636 188541
128	Fuel Station Entries Name: Newport Express Location: Chepstow Road , , Newport, Newport, NP19 8EA Brand: ESSO Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A12NE (W)	517	-	335003 188995
129	Fuel Station Entries Name: Arc Clean Car Centre Location: Chepstow Road , , Newport, Newport, NP19 9EY Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	803	-	334713 188804
130	Points of Interest - Commercial Services Name: City Motor Salvage Location: 6 Goossens Close, Newport, NP19 9JN Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A13SE (E)	141	7	335912 188820
131	Points of Interest - Commercial Services Name: Newport Wrought Iron Work Location: 157 Howe Circle, Newport, NP19 9GS Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A18SE (N)	374	7	335815 189283
131	Points of Interest - Commercial Services Name: Newport Wrought Iron Work Location: 157 Howe Circle, Newport, NP19 9GS Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A18SE (N)	374	7	335815 189283
131	Points of Interest - Commercial Services Name: Welded Metal Products Location: 157 Howe Circle, Newport, NP19 9GS Category: Construction Services Class Code: Metalworkers Including Blacksmiths Positional Accuracy: Positioned to address or location	A18SE (N)	374	7	335815 189283
132	Points of Interest - Commercial Services Name: IMO - arc Clean Car Centres Location: Chepstow Road, Newport, NP19 9EZ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A12SW (W)	807	7	334708 188817

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	Points of Interest - Commercial Services Name: Talbotbay Location: 668 Chepstow Road, Newport, NP19 9EY Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A12SW (W)	858	7	334663 188763
133	Points of Interest - Manufacturing and Production Name: Factory Location: NP18 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A19SW (NE)	716	7	336168 189497
133	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	723	7	336168 189505
134	Points of Interest - Manufacturing and Production Name: Tank Location: NP18 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	893	7	335582 189838
135	Points of Interest - Manufacturing and Production Name: Lime Kiln (Disused) Location: NP18 Category: Industrial Features Class Code: Lime Kilns Positional Accuracy: Positioned to address or location	A23SE (N)	976	7	335782 189909
136	Points of Interest - Public Infrastructure Name: Newport Chepstow Rd Express Location: Chepstow Road, Newport, NP19 9EZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	517	7	335003 188995
136	Points of Interest - Public Infrastructure Name: Newport Chepstow Road Express Location: 26-36 Chepstow Road, Newport, NP19 8EA Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	517	7	335002 188995
136	Points of Interest - Public Infrastructure Name: Esso Location: Chepstow Road, Newport, NP19 9EZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A12NE (W)	524	7	334997 189004
137	Points of Interest - Public Infrastructure Name: Filter Bed (Disused) Location: NP18 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A17NE (NW)	816	7	335272 189695
138	Points of Interest - Recreational and Environmental Name: Play Area Location: Nr Ringland Circle, NP19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A13NW (W)	9	7	335554 188845
138	Points of Interest - Recreational and Environmental Name: Play Area Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	13	7	335551 188842
139	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	A12NE (W)	290	7	335224 188946

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
140	Points of Interest - Recreational and Environmental Name: Playground Location: Edward German Crescent, NP19 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8NW (SW)	360	7	335425 188489
140	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	A8NW (SW)	369	7	335411 188486

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
141	Ancient Woodland Name: Not Supplied Reference: 16075 Area(m²): 5122.71 Type: Ancient and Semi-Natural Woodland	A13SW (S)	118	2	335602 188647
142	Ancient Woodland Name: Not Supplied Reference: 8495 Area(m²): 63699.68 Type: Ancient and Semi-Natural Woodland	A13SW (S)	129	2	335583 188643
143	Ancient Woodland Name: Not Supplied Reference: 16082 Area(m²): 1875.09 Type: Ancient and Semi-Natural Woodland	A13NE (NE)	229	2	335984 189004
144	Ancient Woodland Name: Not Supplied Reference: 8501 Area(m²): 121908.44 Type: Ancient and Semi-Natural Woodland	A14NW (E)	244	2	336003 188999
145	Ancient Woodland Name: Not Supplied Reference: 16071 Area(m²): 1106.36 Type: Ancient and Semi-Natural Woodland	A8NE (S)	287	2	335666 188459
146	Ancient Woodland Name: Not Supplied Reference: 48371 Area(m²): 6102.07 Type: Ancient Woodland Site of Unknown Category	A8NE (S)	295	2	335751 188456
147	Ancient Woodland Name: Not Supplied Reference: 16086 Area(m²): 2599.53 Type: Ancient and Semi-Natural Woodland	A18SE (NE)	362	2	335914 189230
148	Ancient Woodland Name: Not Supplied Reference: 8498 Area(m²): 13223.24 Type: Ancient and Semi-Natural Woodland	A18SE (NE)	368	2	335908 189244
149	Ancient Woodland Name: Not Supplied Reference: 16067 Area(m²): 12046.78 Type: Ancient and Semi-Natural Woodland	A8NW (S)	392	2	335601 188364
150	Ancient Woodland Name: Not Supplied Reference: 16076 Area(m²): 8731.64 Type: Ancient and Semi-Natural Woodland	A12SE (W)	406	2	335173 188674
151	Ancient Woodland Name: Not Supplied Reference: 16087 Area(m²): 4428.15 Type: Ancient and Semi-Natural Woodland	A18SE (N)	458	2	335778 189382
152	Ancient Woodland Name: Not Supplied Reference: 16072 Area(m²): 7921.38 Type: Ancient and Semi-Natural Woodland	A7NE (SW)	510	2	335243 188433
153	Ancient Woodland Name: Not Supplied Reference: 16089 Area(m²): 3037.56 Type: Ancient and Semi-Natural Woodland	A18SE (N)	532	2	335876 189429
154	Ancient Woodland Name: Not Supplied Reference: 8493 Area(m²): 69773.65 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	556	2	335998 188279

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	Ancient Woodland Name: Not Supplied Reference: 16090 Area(m ²): 5404.39 Type: Ancient and Semi-Natural Woodland	A18SE (N)	559	2	335768 189489
156	Ancient Woodland Name: Not Supplied Reference: 8500 Area(m ²): 6817.12 Type: Ancient and Semi-Natural Woodland	A18SE (NE)	562	2	335906 189456
157	Ancient Woodland Name: Not Supplied Reference: 16066 Area(m ²): 1272.23 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	585	2	336087 188306
158	Ancient Woodland Name: Not Supplied Reference: 22204 Area(m ²): 37996.2 Type: Restored Ancient Woodland Site	A18SW (NW)	592	2	335359 189489
159	Ancient Woodland Name: Not Supplied Reference: 16063 Area(m ²): 2118.44 Type: Ancient and Semi-Natural Woodland	A8SE (S)	635	2	335727 188110
160	Ancient Woodland Name: Not Supplied Reference: 16065 Area(m ²): 1941.81 Type: Ancient and Semi-Natural Woodland	A9NW (SE)	643	2	336032 188199
161	Ancient Woodland Name: Not Supplied Reference: 16069 Area(m ²): 2771.37 Type: Ancient and Semi-Natural Woodland	A7NE (SW)	653	2	335089 188386
162	Ancient Woodland Name: Not Supplied Reference: 16092 Area(m ²): 4113.25 Type: Ancient and Semi-Natural Woodland	A19NW (NE)	694	2	335997 189556
163	Ancient Woodland Name: Not Supplied Reference: 16096 Area(m ²): 1876.86 Type: Ancient and Semi-Natural Woodland	A18NE (N)	798	2	335812 189724
164	Ancient Woodland Name: Not Supplied Reference: 16091 Area(m ²): 1267.57 Type: Ancient and Semi-Natural Woodland	A19NW (NE)	808	2	336235 189563
165	Ancient Woodland Name: Not Supplied Reference: 8503 Area(m ²): 79328.58 Type: Ancient and Semi-Natural Woodland	A18NE (N)	810	2	335745 189747
166	Ancient Woodland Name: Not Supplied Reference: 16081 Area(m ²): 18110.4 Type: Ancient and Semi-Natural Woodland	A14NE (E)	825	2	336610 188947
167	Ancient Woodland Name: Not Supplied Reference: 22206 Area(m ²): 12326.34 Type: Restored Ancient Woodland Site	A18NW (N)	839	2	335557 189782
168	Ancient Woodland Name: Not Supplied Reference: 41483 Area(m ²): 21033.31 Type: Plantation on Ancient Woodland	A19NW (NE)	849	2	336296 189569

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
169	Ancient Woodland Name: Not Supplied Reference: 16098 Area(m ²): 1509.12 Type: Ancient and Semi-Natural Woodland	A18NE (N)	853	2	335950 189742
170	Ancient Woodland Name: Not Supplied Reference: 16091 Area(m ²): 1820.55 Type: Ancient and Semi-Natural Woodland	A19NE (NE)	863	2	336332 189559
171	Ancient Woodland Name: Not Supplied Reference: 16097 Area(m ²): 5541.62 Type: Ancient and Semi-Natural Woodland	A19NW (NE)	877	2	336031 189740
172	Ancient Woodland Name: Not Supplied Reference: 8382 Area(m ²): 94558.08 Type: Ancient and Semi-Natural Woodland	A9SW (S)	914	2	336024 187894
173	Ancient Woodland Name: Not Supplied Reference: 8494 Area(m ²): 29021.47 Type: Ancient and Semi-Natural Woodland	A7NW (SW)	932	2	334768 188328
174	Ancient Woodland Name: Not Supplied Reference: 16068 Area(m ²): 7334.52 Type: Ancient and Semi-Natural Woodland	A7NW (SW)	936	2	334769 188328
175	Ancient Woodland Name: Not Supplied Reference: 22205 Area(m ²): 11326.56 Type: Restored Ancient Woodland Site	A17NE (NW)	953	2	335015 189720
176	Local Nature Reserves Name: St. Julians Park Multiple Area: N Area (m2): 530732.42 Source: Newport City Council Designation Date: 19th June 2017	A16SE (W)	981	6	334600 189263

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Torfaen County Borough Council - Department for the Environmental Monmouthshire Council - Environment Department Newport City Council - Public Protection and Environmental Services	April 2014 January 2015 January 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Welsh Region Natural Resources Wales	August 2014 October 2018	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	October 2018 October 2018	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control Torfaen County Borough Council - Department for the Environmental Monmouthshire Council - Environmental Health Department Newport City Council - Public Protection and Environmental Services	December 2015 June 2014 June 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Monmouthshire Council - Environmental Health Department Newport City Council - Public Protection and Environmental Services Torfaen County Borough Council - Department for the Environmental	June 2014 June 2014 November 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Torfaen County Borough Council - Department for the Environmental Monmouthshire Council - Environmental Health Department Newport City Council - Public Protection and Environmental Services	December 2015 June 2014 June 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - Welsh Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Welsh Region Natural Resources Wales	March 2013 March 2013	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 January 2015	Annually
Substantiated Pollution Incident Register Environment Agency Wales - South East Area Natural Resources Wales	October 2018 October 2018	Quarterly Quarterly
Water Abstractions Environment Agency - Welsh Region Natural Resources Wales	October 2018 October 2018	Quarterly Quarterly
Water Industry Act Referrals Environment Agency - Welsh Region Natural Resources Wales	October 2017 October 2018	Quarterly Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
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	February 2018	Quarterly
Flooding from Rivers or Sea without Defences Natural Resources Wales	February 2018	Quarterly
Areas Benefiting from Flood Defences Natural Resources Wales	February 2018	Quarterly
Flood Water Storage Areas Natural Resources Wales	February 2018	Quarterly
Flood Defences Natural Resources Wales	November 2018	Quarterly
OS Water Network Lines Ordnance Survey	October 2018	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 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency Wales - South East Area Natural Resources Wales	October 2018 October 2018	Quarterly Quarterly
Local Authority Landfill Coverage Monmouthshire Council - Environment Newport City Council Torfaen County Borough Council - Department for the Environmental	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Monmouthshire Council - Environment Newport City Council Torfaen County Borough Council - Department for the Environmental	May 2000 May 2000 May 2000	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	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Monmouthshire Council - Environment Torfaen County Borough Council - Planning Department Newport City Council - Planning Department	February 2016 February 2016 October 2015	Variable Variable Variable
Planning Hazardous Substance Consents Monmouthshire Council - Environment Torfaen County Borough Council - Planning Department Newport City Council - Planning Department	February 2016 February 2016 October 2015	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	November 2018	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	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	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	August 2018	Quarterly
Fuel Station Entries Experian Catalyst	August 2018	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	September 2018	Quarterly
Points of Interest - Education and Health PointX	September 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2018	Quarterly
Points of Interest - Public Infrastructure PointX	September 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural Resources Wales	August 2018	Bi-Annually
Areas of Adopted Green Belt Monmouthshire Council Newport City Council	August 2018 August 2018	As notified As notified
Areas of Unadopted Green Belt Monmouthshire Council Newport City Council	August 2018 August 2018	As notified As notified
Areas of Outstanding Natural Beauty Natural Resources Wales	August 2018	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 Monmouthshire Council Newport City Council Torfaen County Borough Council	August 2018 August 2018 August 2018	Bi-Annually Bi-Annually Bi-Annually
Marine Nature Reserves Natural Resources Wales	August 2018	Bi-Annually
National Nature Reserves Natural Resources Wales	August 2018	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 2017 October 2005	Bi-Annually
Ramsar Sites Natural Resources Wales	February 2018	Bi-Annually
Sites of Special Scientific Interest Natural Resources Wales	February 2018	Bi-Annually
Special Areas of Conservation Natural Resources Wales	August 2018	Bi-Annually
Special Protection Areas Natural Resources Wales	August 2018	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Natural Resources Wales Ty Cambria, 29 Newport Road, Cardiff, CF24 0TP	Telephone: 0300 065 3000 Email: enquiries@naturalresourceswales.gov.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	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	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	TFD	Tidal Flat Deposits	Clay and Silt	Not Supplied - Holocene
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	RTD2	River Terrace Deposits, 2	Sand and Gravel	Not Supplied - Quaternary
	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
	LVN	Lavernock Shales Member	Mudstone	Not Supplied - Hettangian
	PNG	Penarth Group	Mudstone	Not Supplied - Rhaetian
	STM	St Mary's Well Bay Member	Limestone and Mudstone, Interbedded	Not Supplied - Rhaetian
	BAN	Blue Anchor Formation	Mudstone and Siltstone	Not Supplied - Norian
	BAN	Blue Anchor Formation	Mudstone	Not Supplied - Norian
	MMG	Mercia Mudstone Group	Mudstone	Not Supplied - Early Triassic
	BRS	Brownstones Formation	Sandstone	Not Supplied - Lochkovian
	SMG	St Maughans Formation	Argillaceous Rocks and [Subequal/Subordinate] Sandstone, Interbedded	Not Supplied - Early Devonian
	SMG	St Maughans Formation	Limestone	Not Supplied - Early Devonian
	SMG	St Maughans Formation	Sandstone	Not Supplied - Early Devonian
		Faults		



Geology 1:50,000 Maps

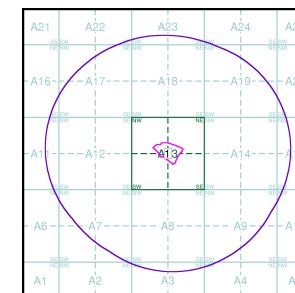
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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



Order Details:

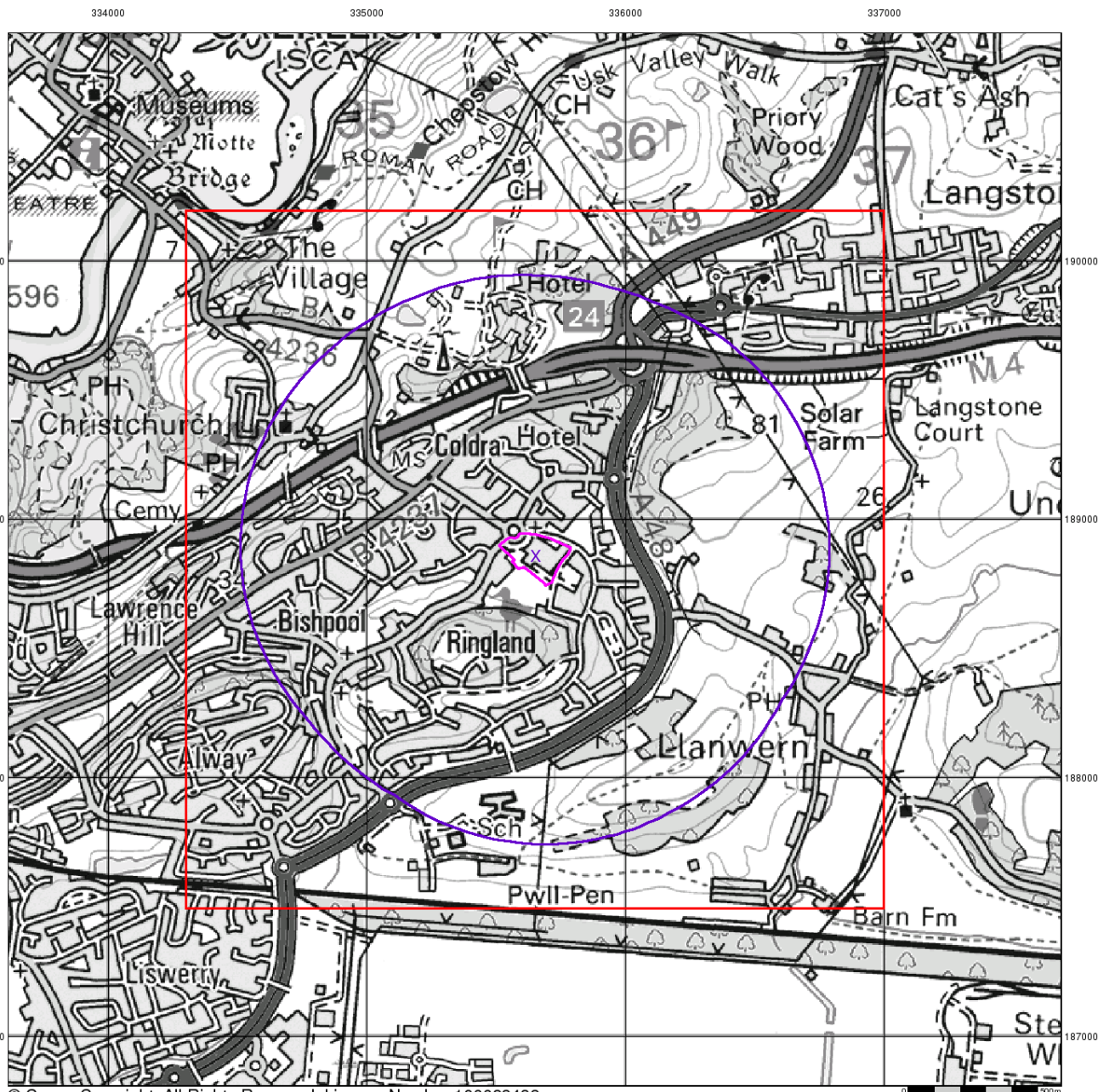
Order Number:	186850305_1_1
Customer Reference:	B065384
National Grid Reference:	335650, 188860
Slice:	A
Site Area (Ha):	3.09
Search Buffer (m):	1000

Site Details:

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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



© Crown Copyright. All Rights Reserved. License Number 100022432.



Artificial Ground and Landslip

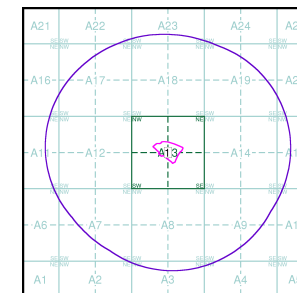
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Order Number: 186850305_1_1
 Customer Reference: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details:

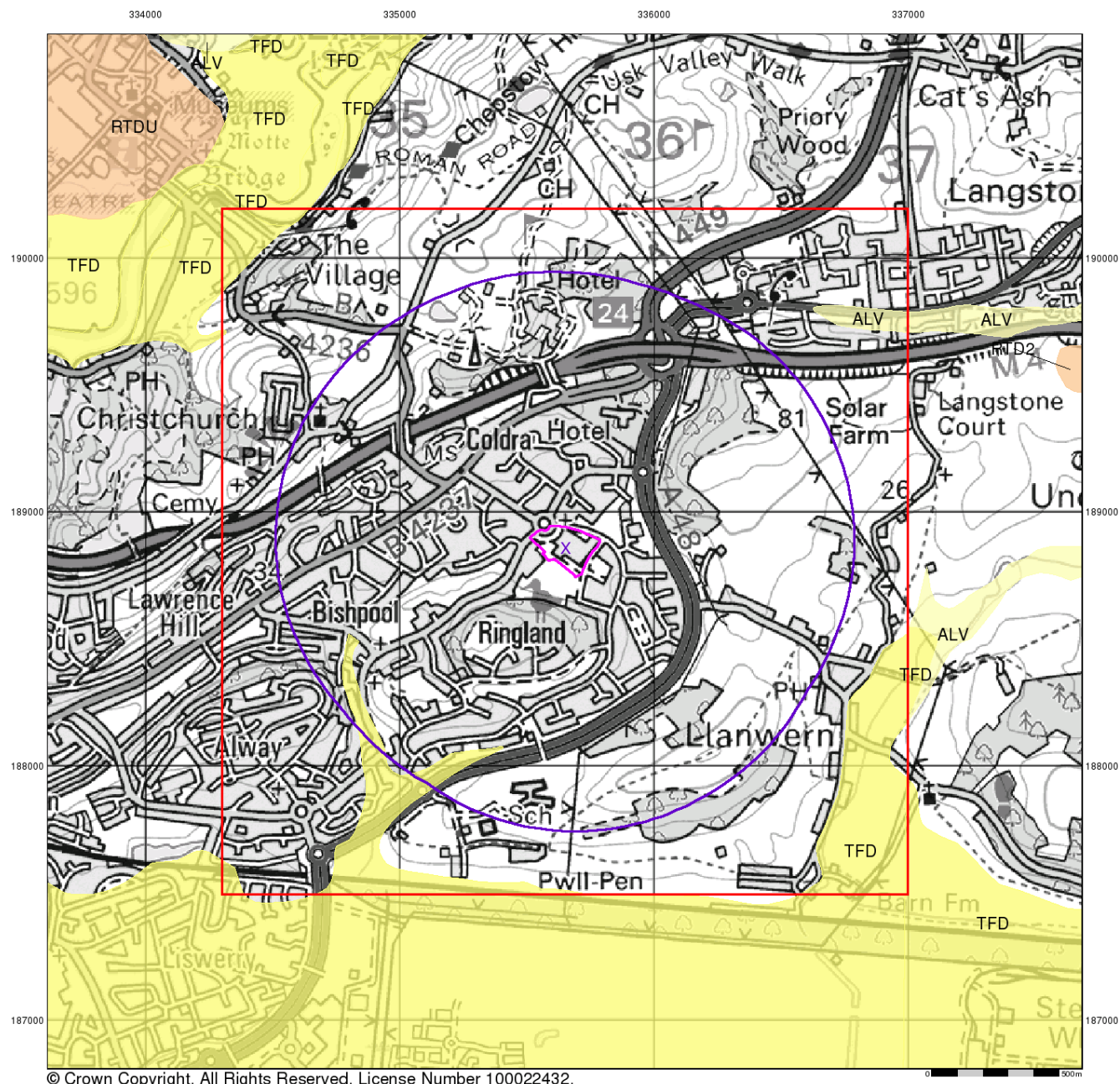
Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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

v15.0 21-Nov-2018

Page 2 of 5



© Crown Copyright. All Rights Reserved. License Number 100022432.



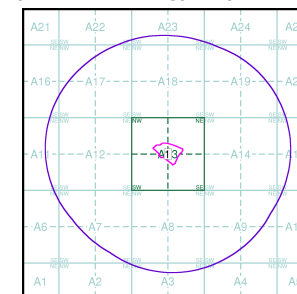
Superficial Geology

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:

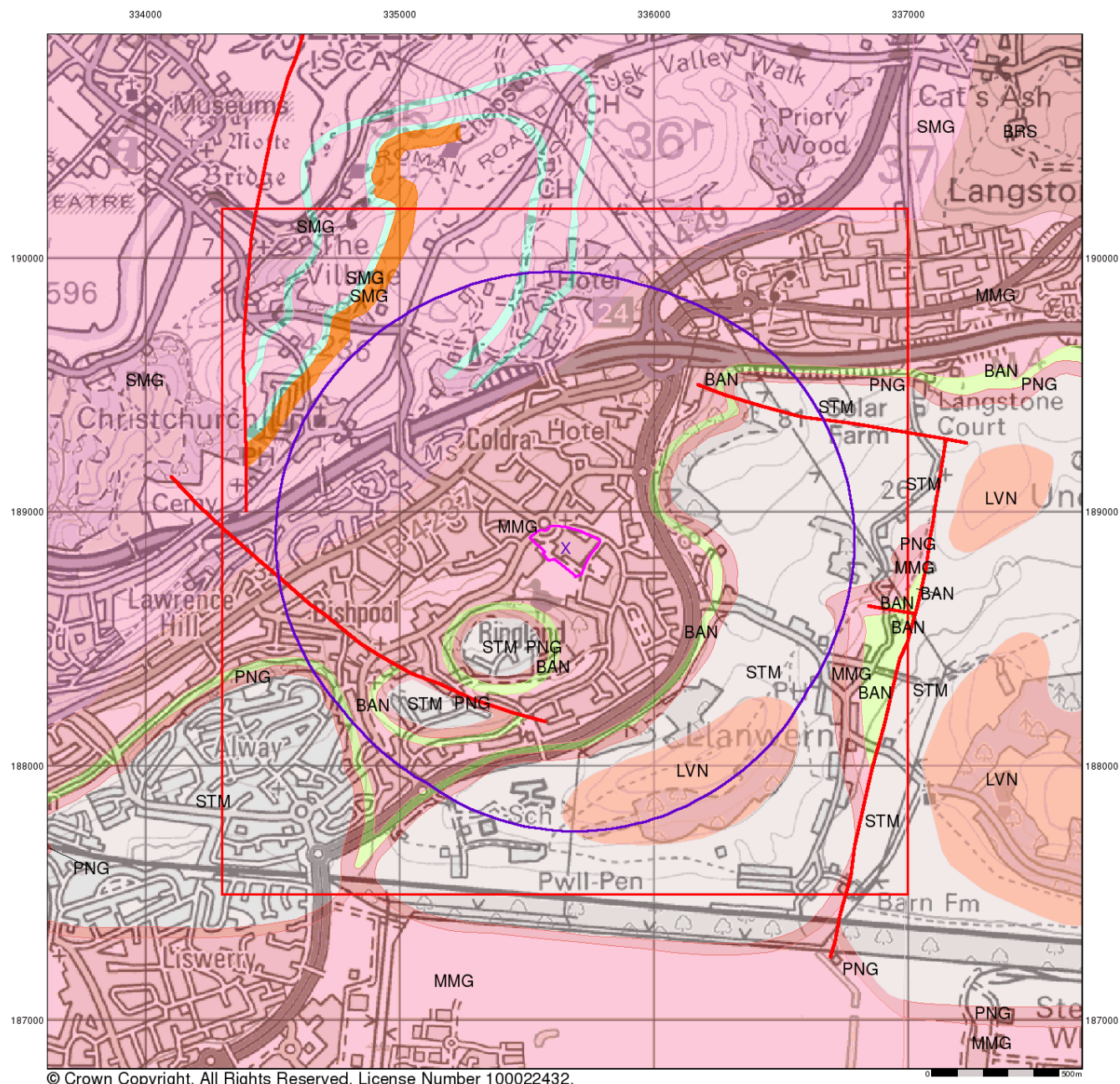
Order Number: 186850305_1_1
 Customer Reference: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details:

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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



© Crown Copyright. All Rights Reserved. License Number 100022432.



Bedrock and Faults

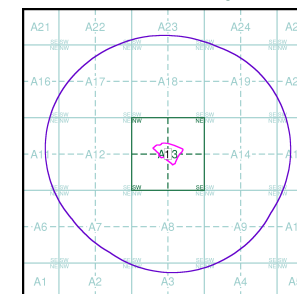
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:

Order Number: 186850305_1_1
 Customer Reference: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details:

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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

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		Ch
	CH		F E Sta
	FB		Fn
	GP		MP
	MS		Pol Sta
	PO		PC
	PH		SB
	Spr		TCB
	TCP		W

1:10,000 Raster Mapping

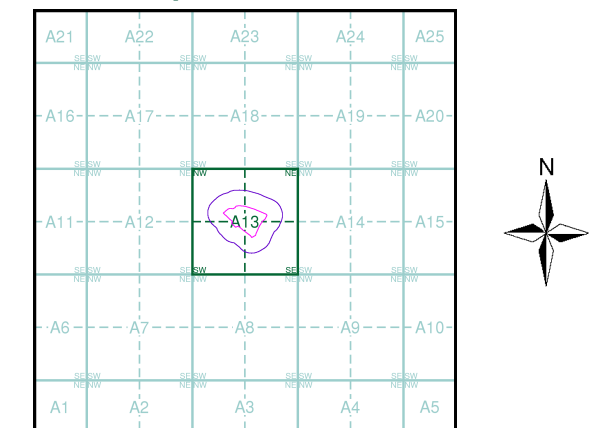
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1886 - 1887	3
Monmouthshire	1:10,560	1902	4
Monmouthshire	1:10,560	1922	5
Monmouthshire	1:10,560	1938 - 1954	6
Historical Aerial Photography	1:10,560	1947 - 1949	7
Historical Aerial Photography	1:10,560	1947	8
Monmouthshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1971 - 1973	11
Ordnance Survey Plan	1:10,000	1978	12
Ordnance Survey Plan	1:10,000	1981 - 1989	13
Newport	1:10,000	1983	14
Ordnance Survey Plan	1:10,000	1987	15
Ordnance Survey Plan	1:10,000	1990	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2018	19

Historical Map - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Fireproof Building Prominent Fireproof Building

Non-fireproof Building Non-fireproof Building (non-dwelling)

Factory, mill, and flour mill, with chimneys Factory, mill, and flour mill, without chimneys

Power Station, drawn to scale Hydroelectric Power Station

Radio Station, drawn to scale Telephone Station, drawn to scale

Abandoned Open-pit Mine or Quarry Open-pit Salt Mine

Pit Oil Deposit or Well Oil Seepage

Tailings Pile Fuel Storage Tanks Natural Gas Tank

Bench Mark Drill Hole Burial Mound Triangulation Point on Burial Mound

Single-track Railroad Small Bridge Double-track Railroad and Station Building

Coniferous Forest Deciduous Forest Mixed Forest

Lawns Citrus Orchard Wet Ground Scattered Vegetation

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

180/12 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

Government and Administrative Buildings Military and Industrial Buildings

Military and Communication Areas Subway Entrance

Partly Demolished Buildings Demolished Buildings

Built-Up Area with Fireproof Buildings Predominant Built-Up Area with Non-Fireproof Buildings Predominant

Individual Fireproof Building Prominent Industrial Building

Individual Dwelling, Fireproof Ruins of an Individual Dwelling

Factory or Mill Chimney Factory or Mill with Chimney Factory or Mill without Chimney Mine or Open Pit Mine

Operating Shaft or Mine Non-Operating Shaft or Mine Salt Mine Tailings Pile

Pit Stone Quarry Gas Pump or Service Station Fuel Storage or Natural Gas Tank

Oil or Natural Gas Derrick Small Hydroelectric Power Station Power Station Transformer Station

Cemetery Burial Mound (height in metres) Triangulation Point on Burial Mound Triangulation Point

Bench Mark Bench Mark (monumented) Telegraph Office Telephone Station

Radio Station Radio Tower Airfield or Seaplane Base Landing Strip

Telegraph/Telephone Lines Main Highway Highway under Construction Improved Dirt Road (former truck road)

Double-track Railroad with First Class Station Dismantled Railroad Railroad Under Construction

Shore Embankment River or Ditch with Embankment Direction and velocity of current Water Gauge Water Level Mark

Well Water Reservoir or Rain Water Pit Spring Isobath with value

Heavy (Index) Contour Line Contour Line and Value Half Contour Line Spot Elevation Value

Coniferous Deciduous Mixed Scrub

Key to Numbers on Mapping

ST38NE_Newport

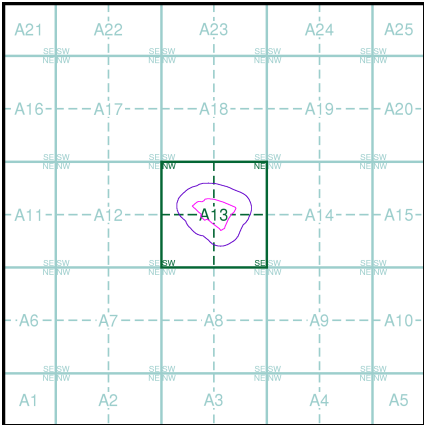
No.	Description
48	Post Office



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:10,560	1886 - 1887	3
Monmouthshire	1:10,560	1902	4
Monmouthshire	1:10,560	1922	5
Monmouthshire	1:10,560	1938 - 1954	6
Historical Aerial Photography	1:10,560	1947 - 1949	7
Historical Aerial Photography	1:10,560	1947	8
Monmouthshire	1:10,560	1954	9
Ordnance Survey Plan	1:10,000	1964 - 1965	10
Ordnance Survey Plan	1:10,000	1971 - 1973	11
Ordnance Survey Plan	1:10,000	1978	12
Ordnance Survey Plan	1:10,000	1981 - 1989	13
Newport	1:10,000	1983	14
Ordnance Survey Plan	1:10,000	1987	15
Ordnance Survey Plan	1:10,000	1990	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2018	19

Russian Map - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



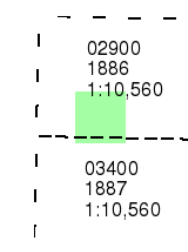
Monmouthshire

Published 1886 - 1887

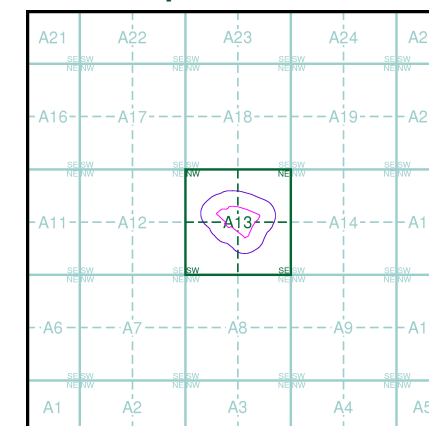
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

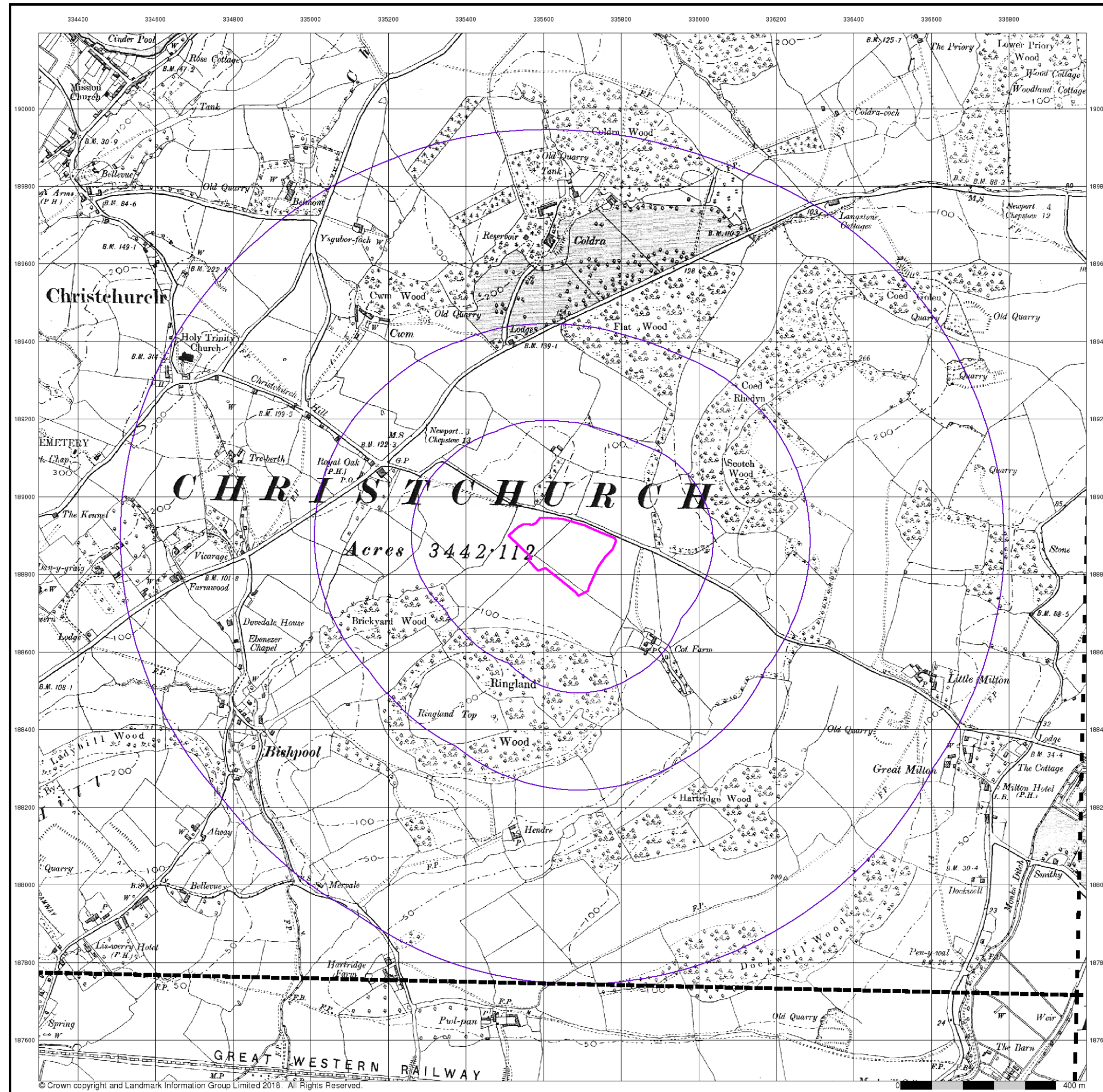
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



© Crown copyright and Landmark Information Group Limited 2018. All Rights Reserved.



Monmouthshire

Published 1902

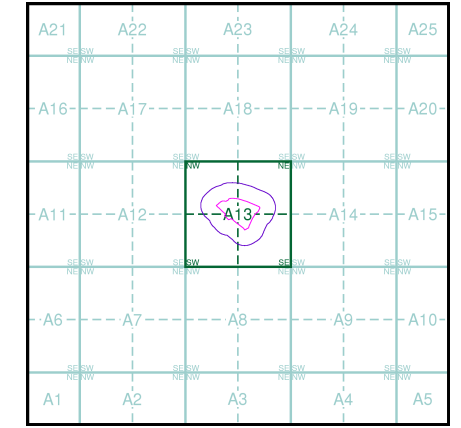
Source map scale - 1:10,560

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)

029SW 1902 1:10,560	029SE 1902 1:10,560
034NW 1902 1:10,560	034NE 1902 1:10,560

Historical Map - Slice A



Order Details

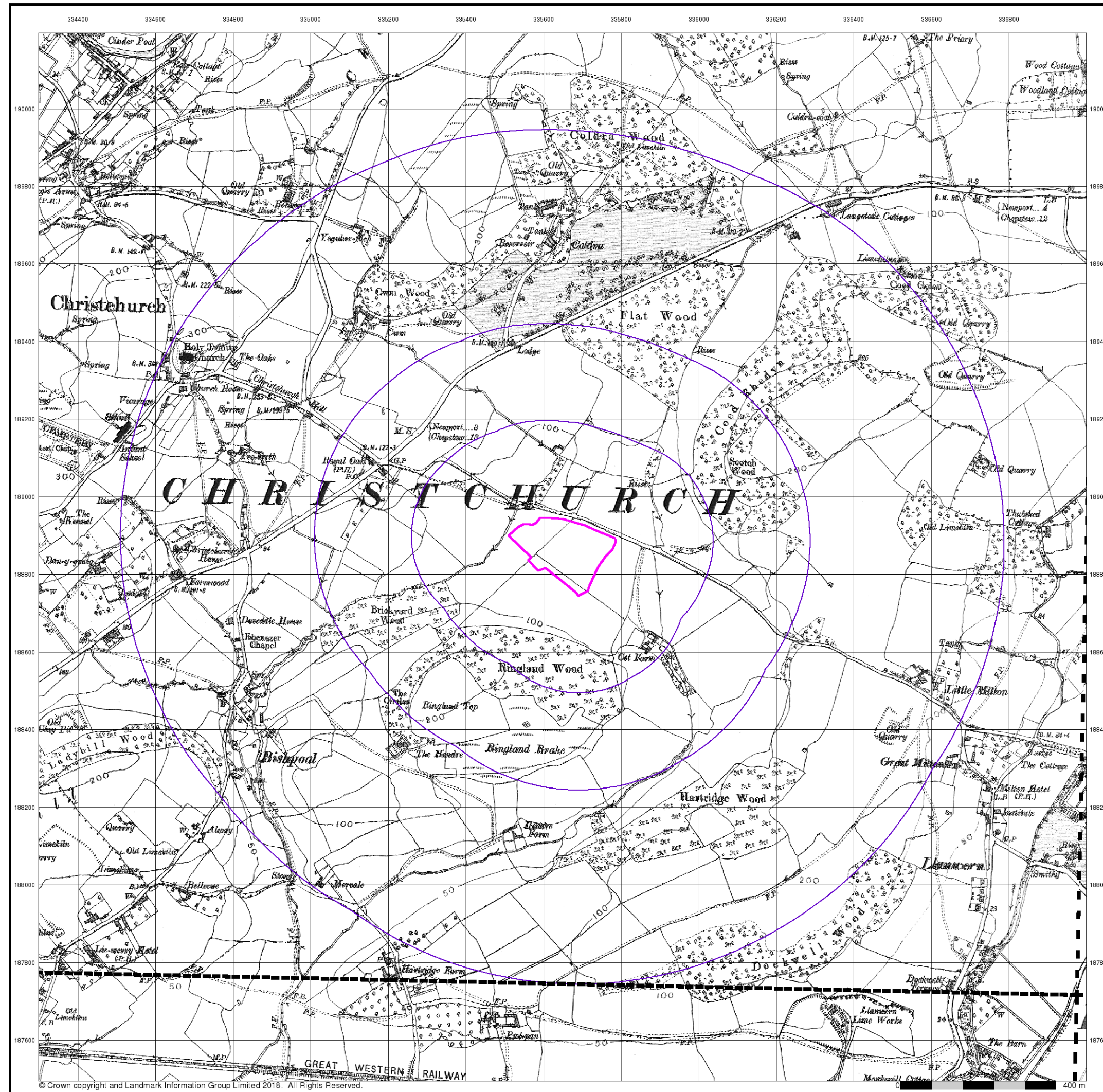
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



Monmouthshire

Published 1922

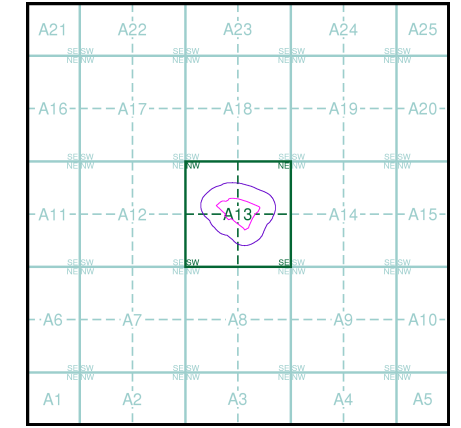
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

029SW 1922 1:10,560	029SE 1922 1:10,560
034NW 1922 1:10,560	034NE 1922 1:10,560

Historical Map - Slice A



Order Details

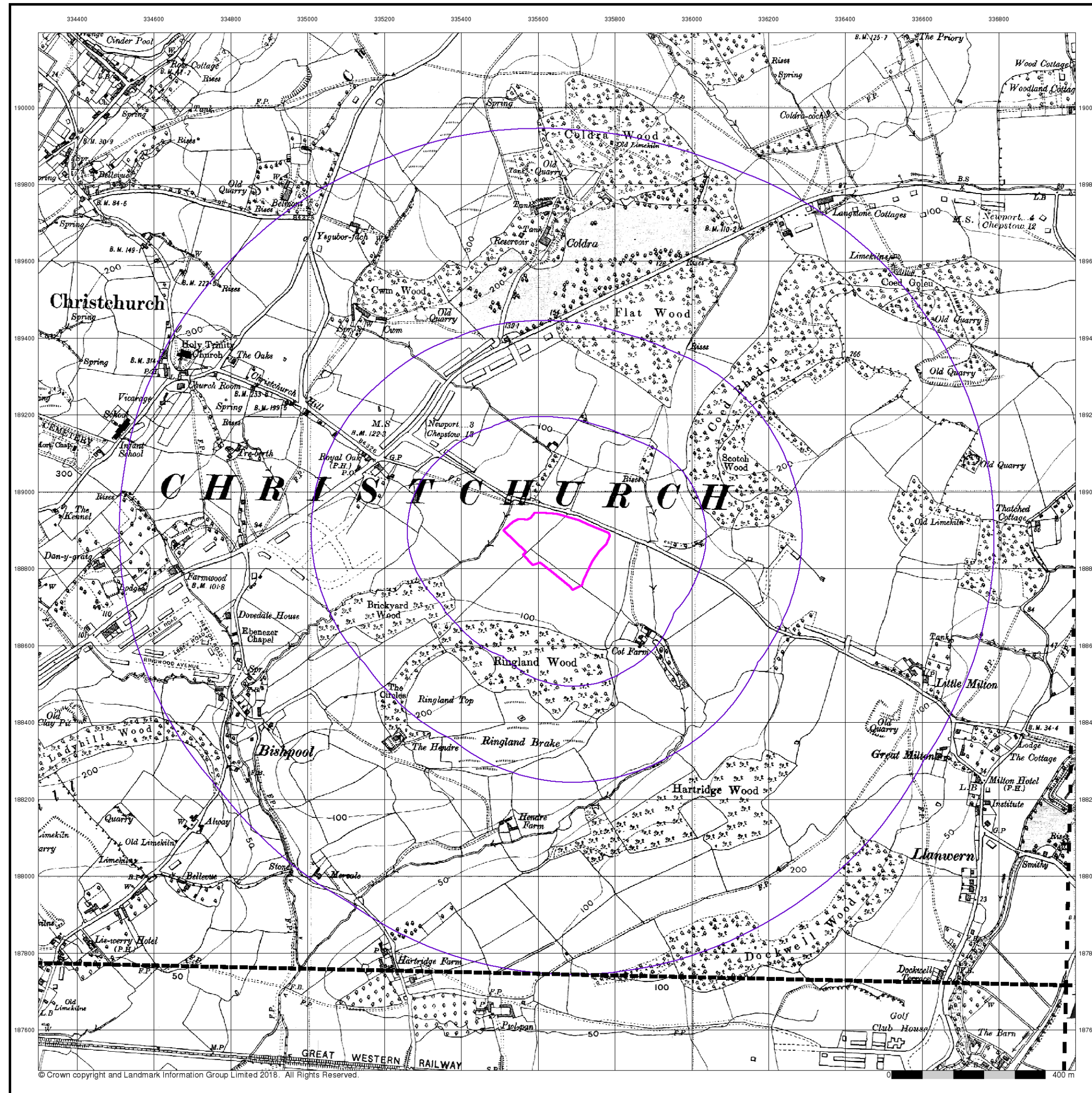
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



Monmouthshire

Published 1938 - 1954

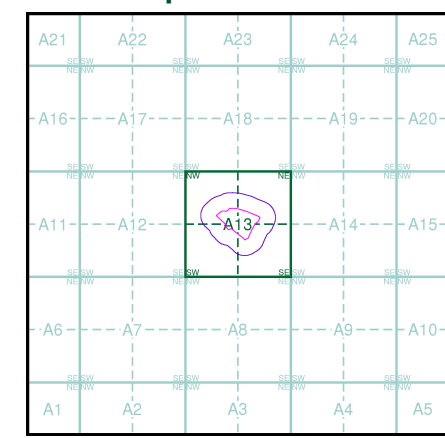
Source map scale - 1:10,560

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)

029SW 1938 1:10,560	029SE 1954 1:10,560
034NW 1938 1:10,560	034NE 1954 1:10,560

Historical Map - Slice A



Order Details

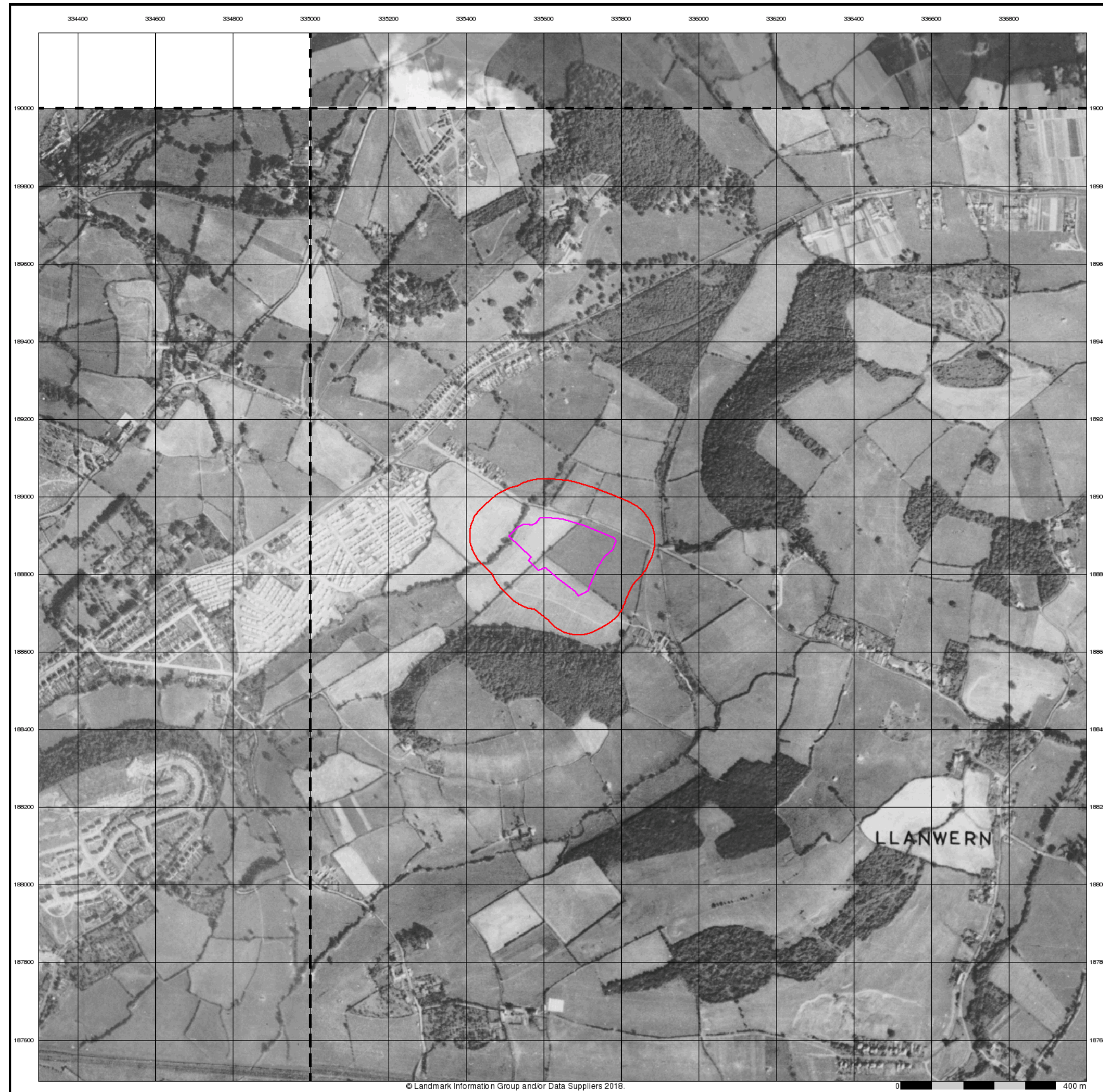
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



© Landmark Information Group and/or Data Suppliers 2018.



Historical Aerial Photography

Published 1947 - 1949

Source map scale - 1:10,560

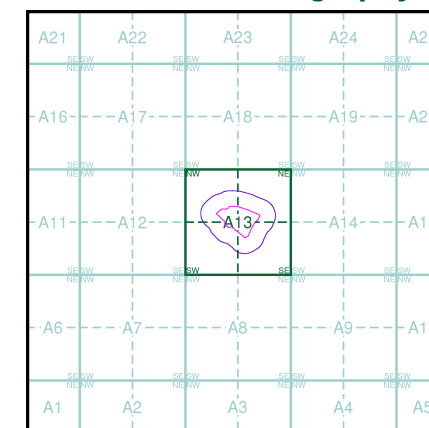
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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.

© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)

ST39SE	1949	1:10,560
ST38NW	1947	1:10,560
ST38NE	1947	1:10,560

Historical Aerial Photography - Slice A



LIBRARY
HSILIRB

Order Details

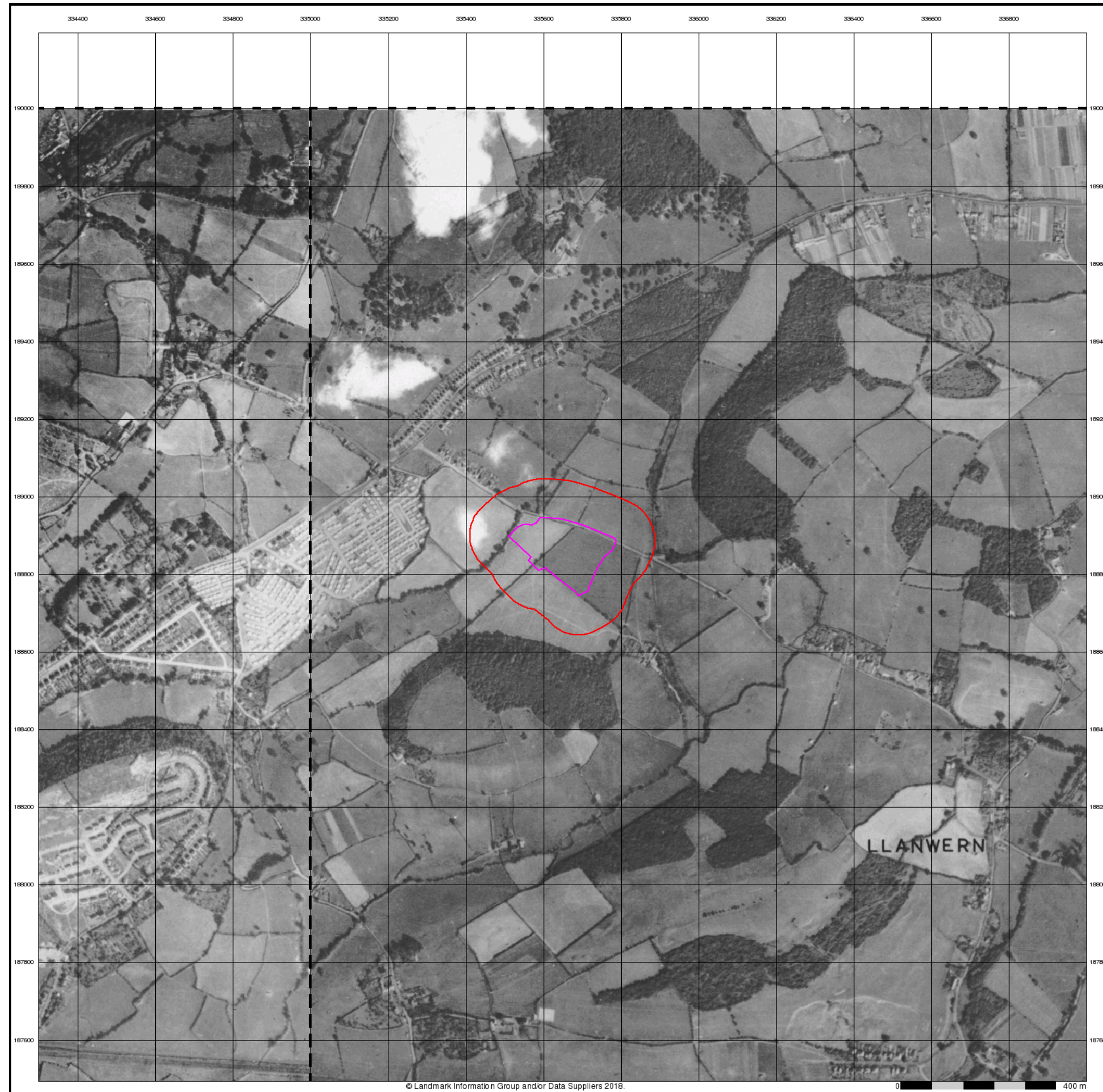
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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



Historical Aerial Photography

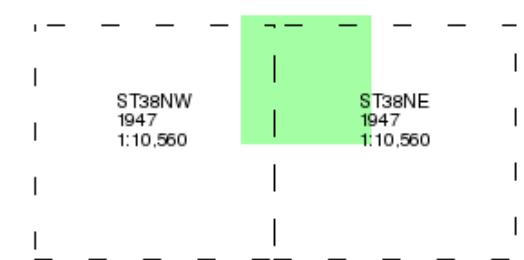
Published 1947

Source map scale - 1:10,560

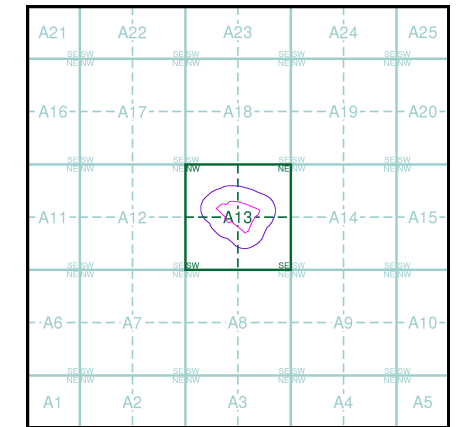
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 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.

© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



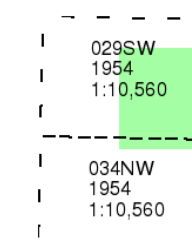
Monmouthshire

Published 1954

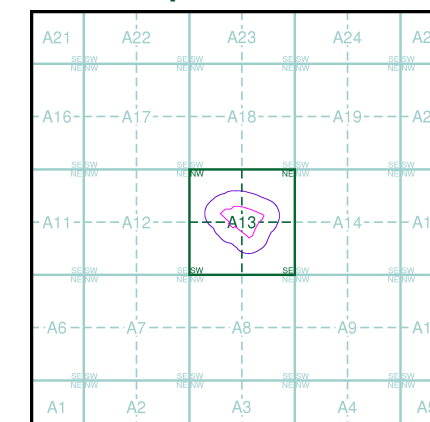
Source map scale - 1:10,560

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)



Historical Map - Slice A



Order Details

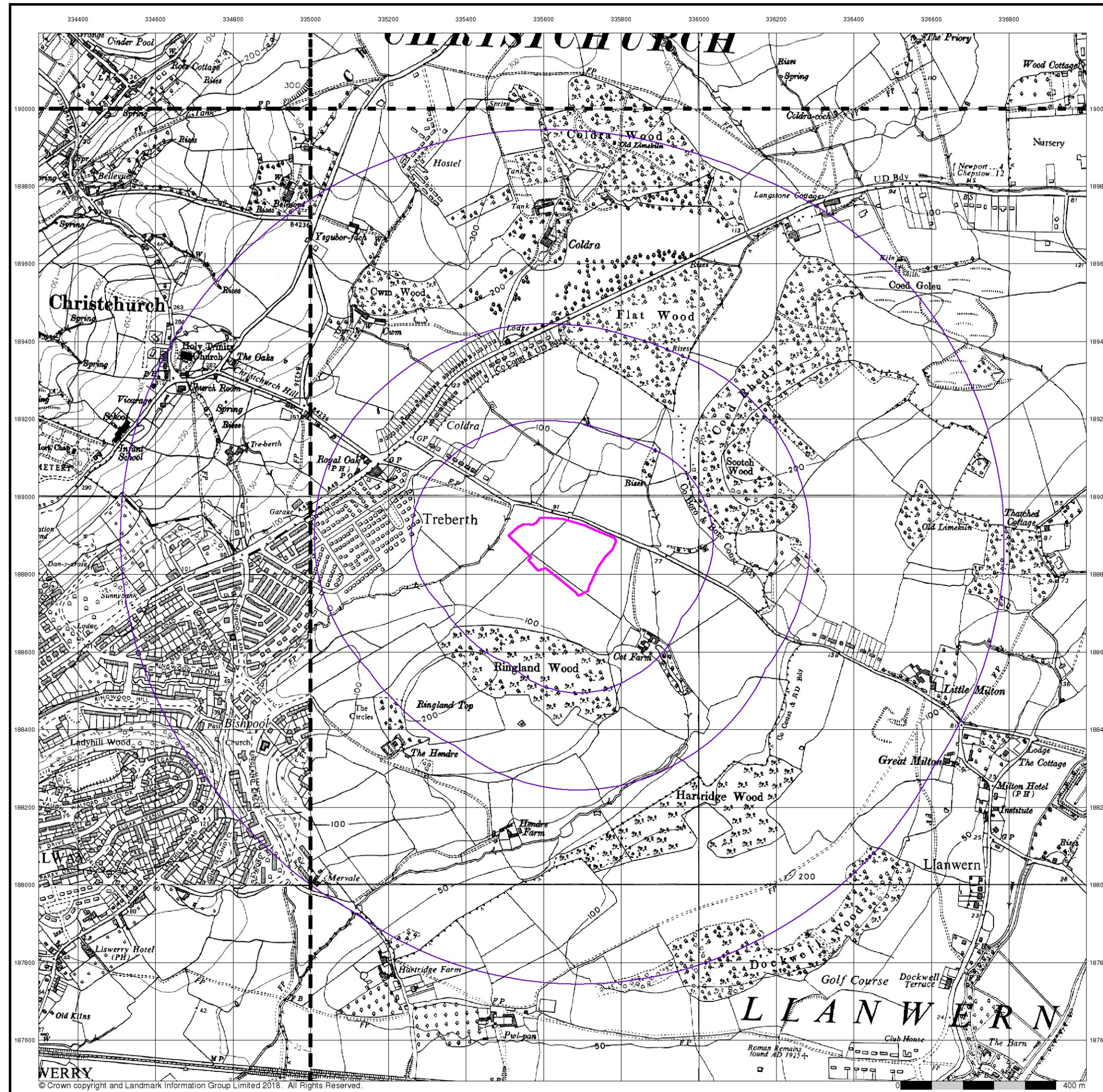
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



Ordnance Survey Plan

Published 1964 - 1965

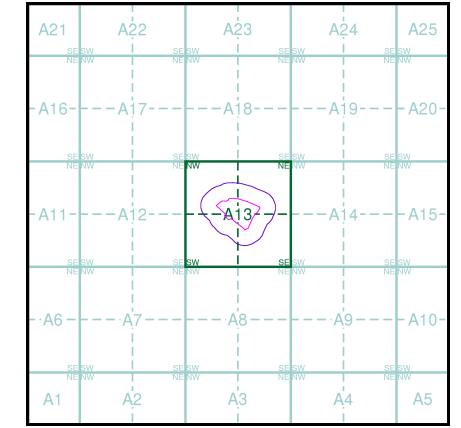
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

ST39SW	ST39SE
1964	1964
1:10,560	1:10,560
ST38NW	ST38NE
1965	1965
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



Ordnance Survey Plan

Published 1971 - 1973

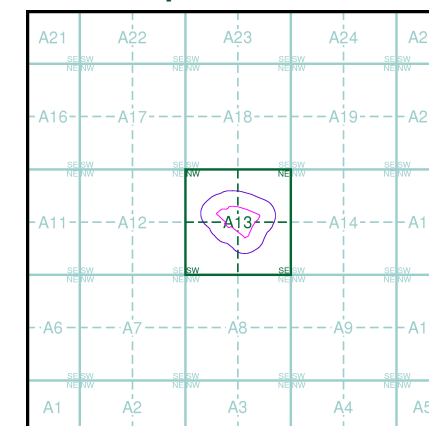
Source map scale - 1:10,000

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)

ST39SW	ST39SE
1972	1971
1:10,000	1:10,560
ST38NW	ST38NE
1973	1973
1:10,000	1:10,000

Historical Map - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

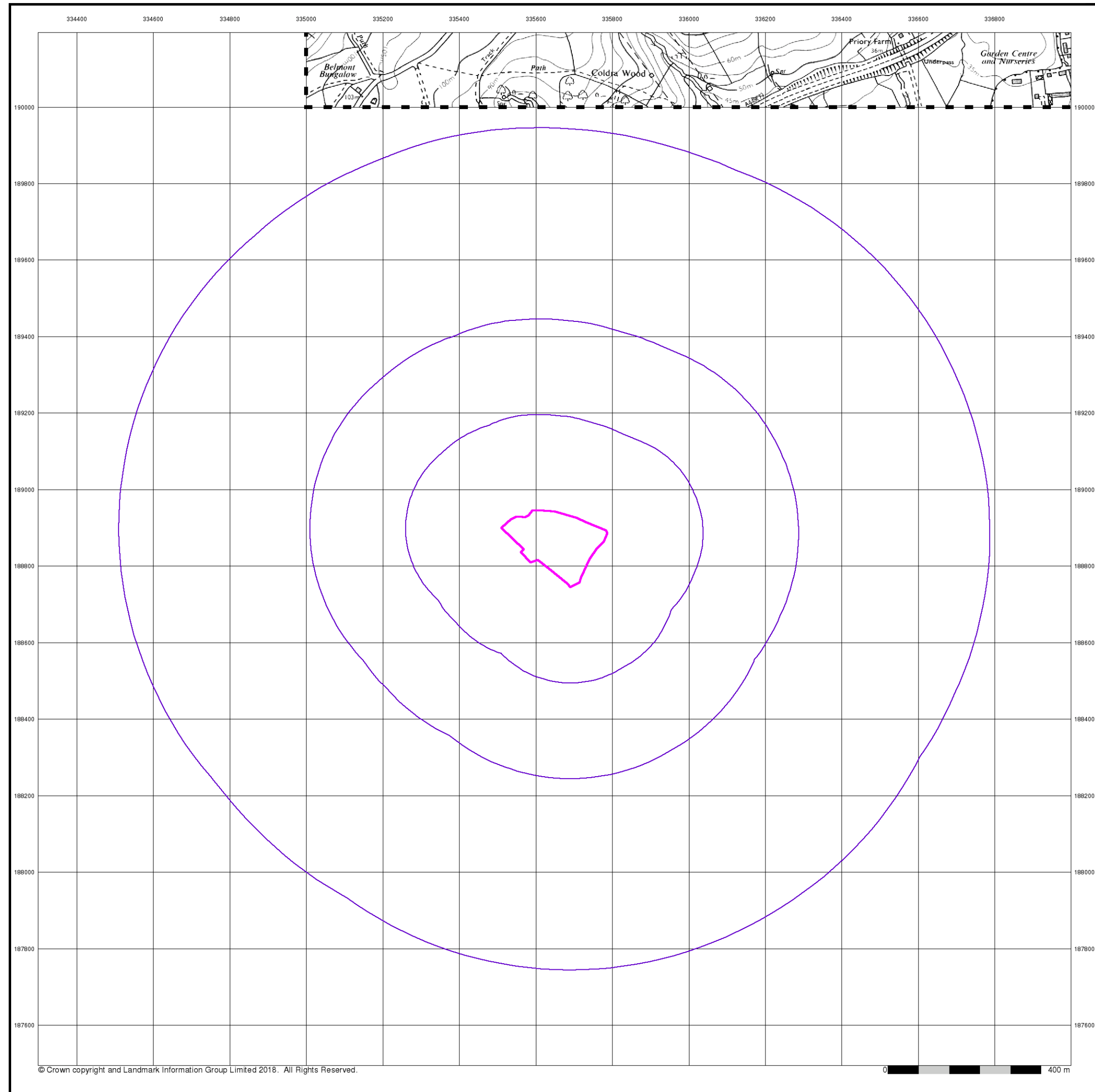
Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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





Ordnance Survey Plan

Published 1978

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)

ST39SE
1978
1:10,000

Historical Map - Slice A

Order Details

Order Number:	186850305_1_1
Customer Ref:	B065384
National Grid Reference:	335650, 188860
Slice:	A
Site Area (Ha):	3.09
Search Buffer (m):	1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

INFORMATION GROUP

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

© Crown copyright and Landmark Information Group Limited 2018. All Rights Reserved.

A Landmark Information Group Service v50.0 21-Nov-2018 Page 12 of 19



Ordnance Survey Plan

Published 1981 - 1989

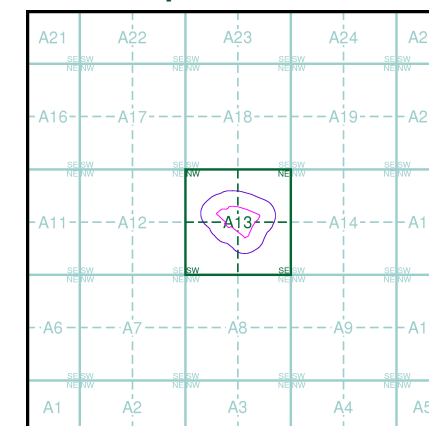
Source map scale - 1:10,000

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)

ST39SW	1983	1:10,000
ST38NW	1981	1:10,000
ST38NE	1989	1:10,000

Historical Map - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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



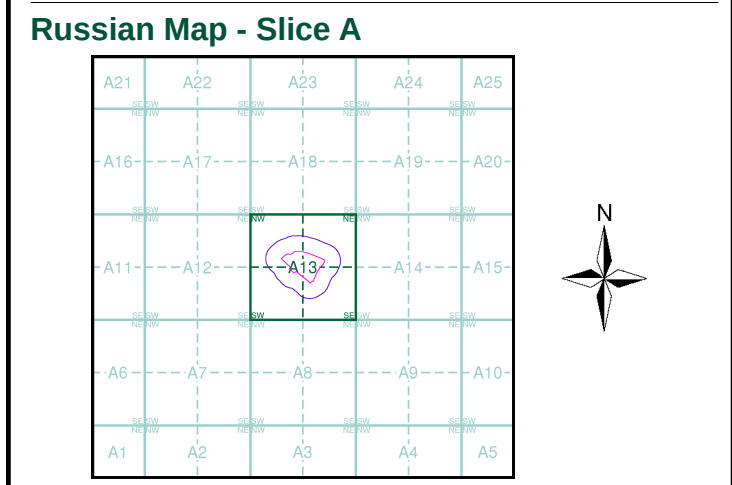


© Copyright Landmark Information Group Ltd. All Rights Reserved.



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.

ST39SW 1983 1:10,000	ST39SE 1983 1:10,000
ST38NW 1983 1:10,000	ST38NE 1983 1:10,000



Order Details
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details
Ringland Centre, NEWPORT, NP19 9HG

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



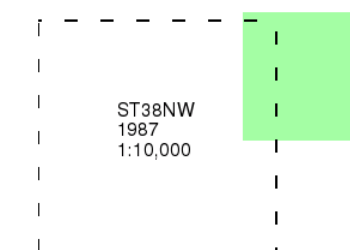
Ordnance Survey Plan

Published 1987

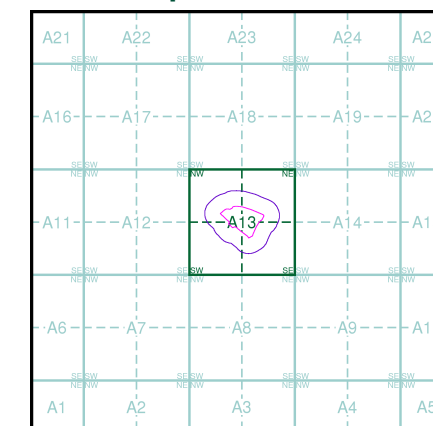
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

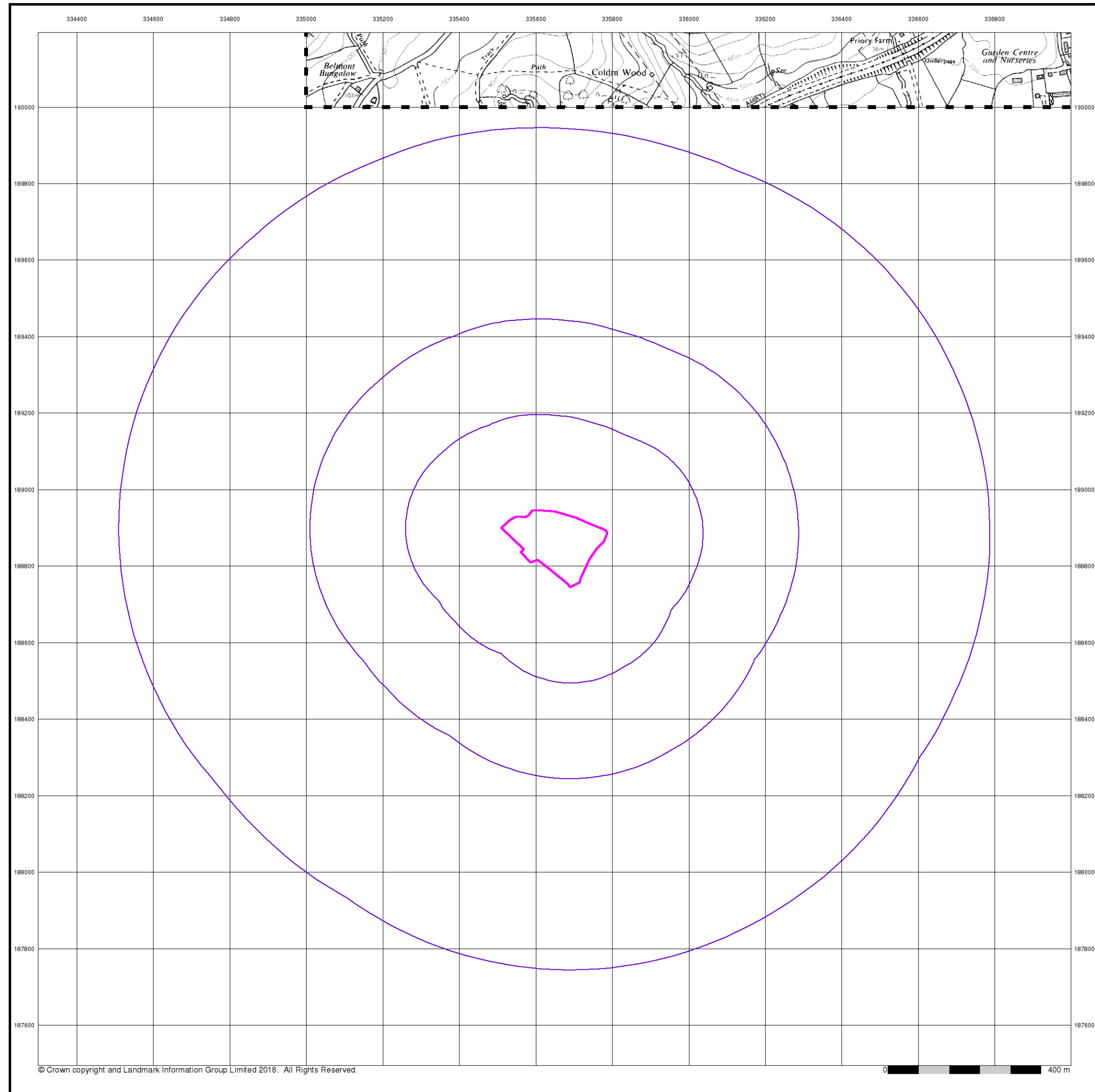
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



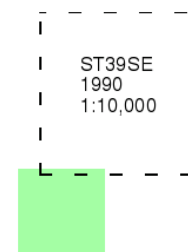
Ordnance Survey Plan

Published 1990

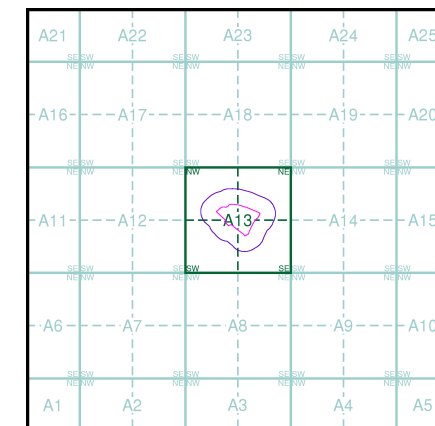
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

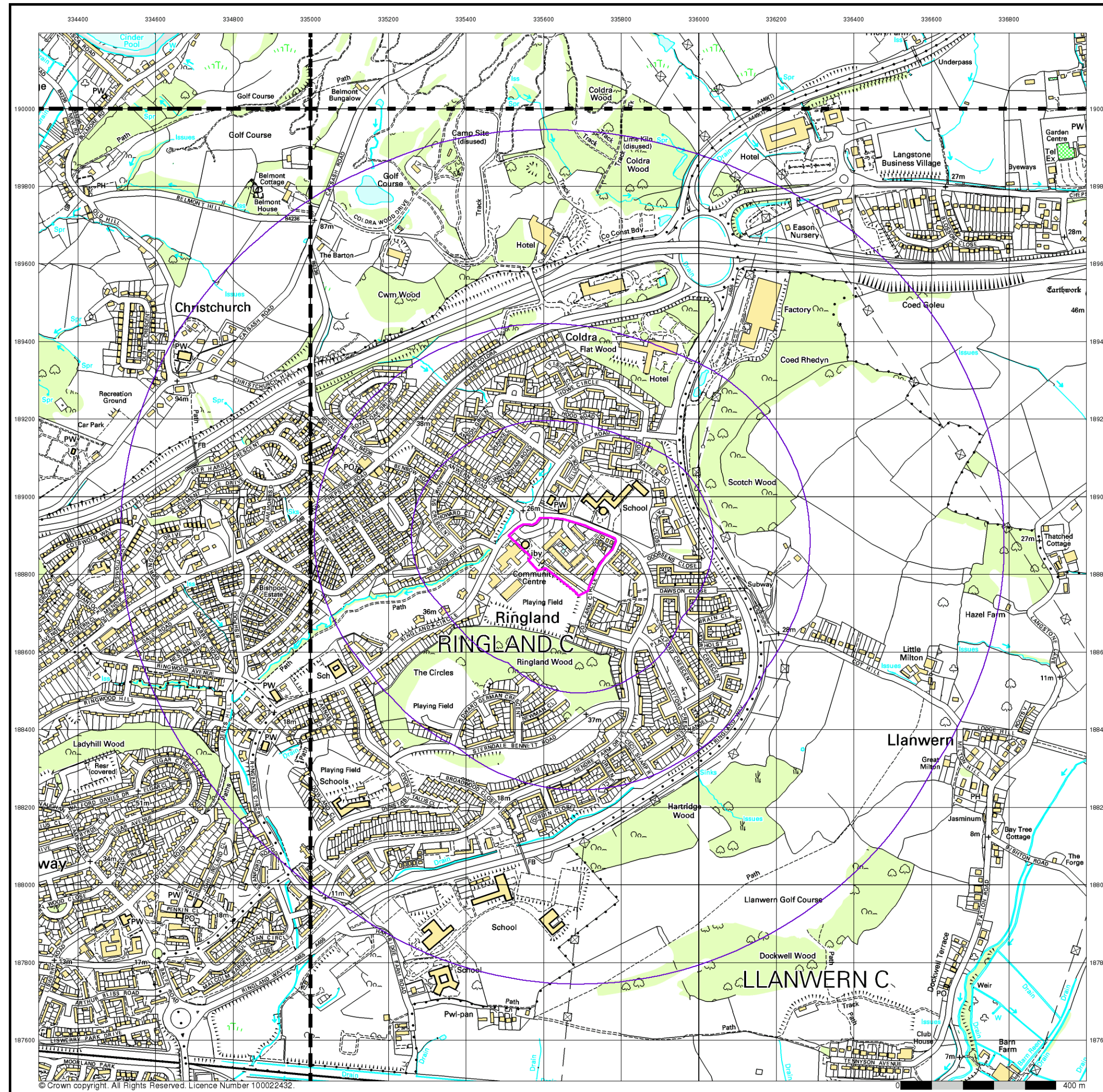
Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



10k Raster Mapping

Published 1999

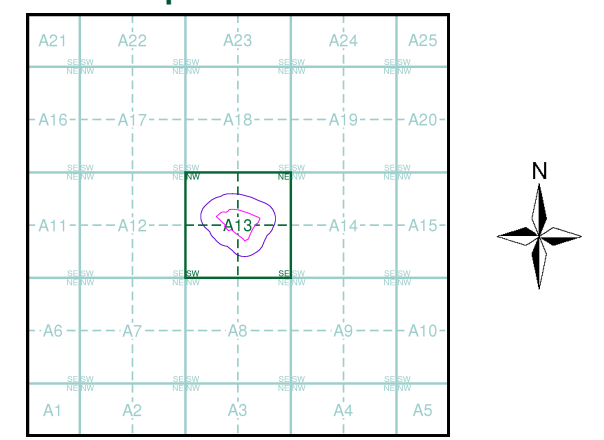
Source map scale - 1:10,000

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)

ST39SW	ST39SE
1999	1999
1:10,000	1:10,000
ST38NW	ST38NE
1999	1999
1:10,000	1:10,000

Historical Map - Slice A



Order Details
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details
Ringland Centre, NEWPORT, NP19 9HG



© Crown copyright. All Rights Reserved. Licence Number 100022432.



10k Raster Mapping

Published 2006

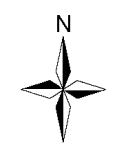
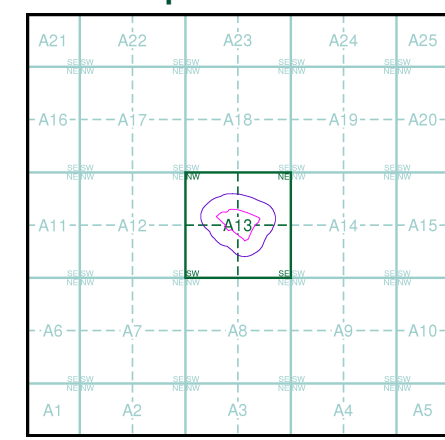
Source map scale - 1:10,000

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)

ST39SW	ST39SE
2006	2006
1:10,000	1:10,000
ST38NW	ST38NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

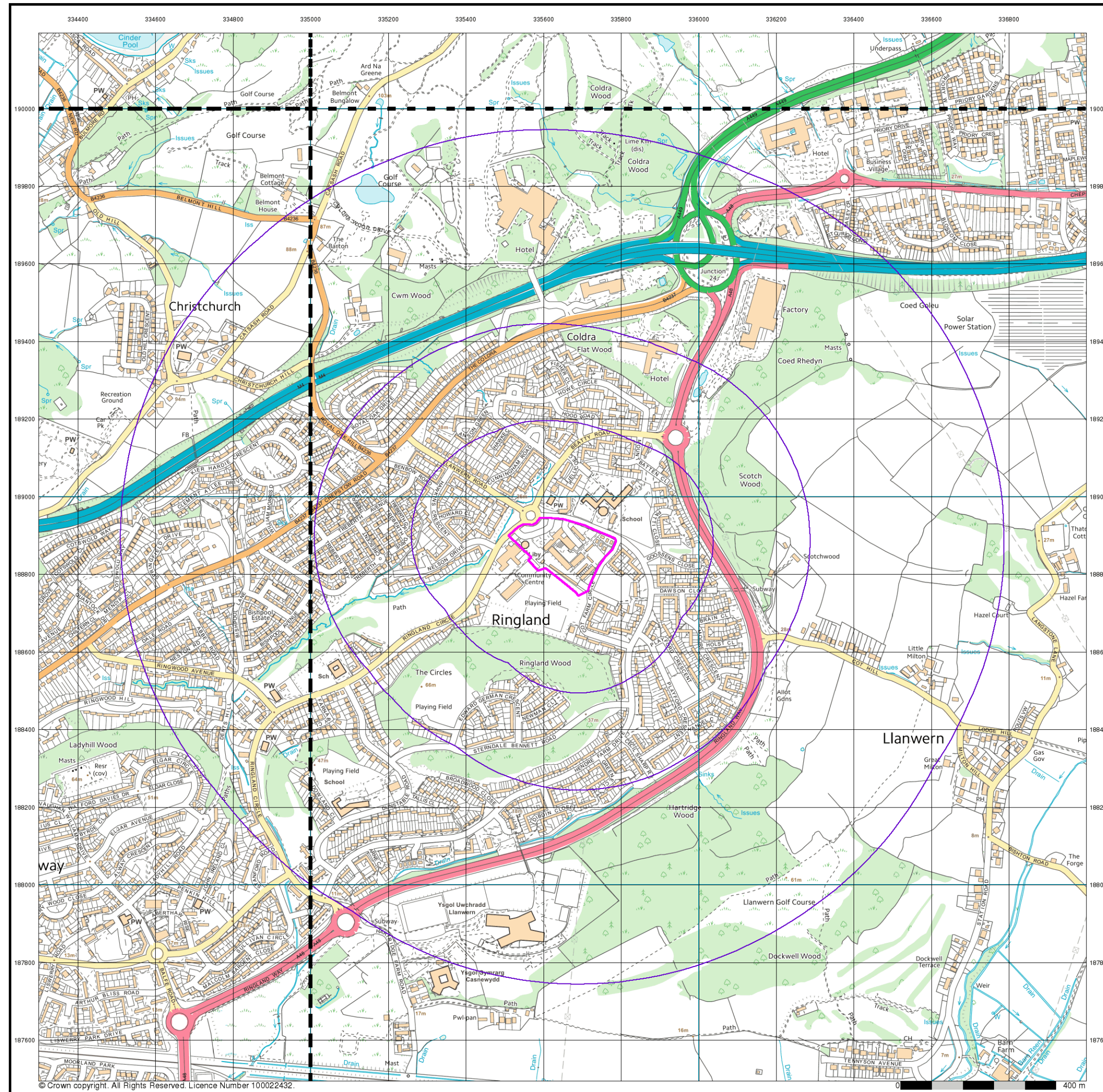
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



VectorMap Local

Published 2018

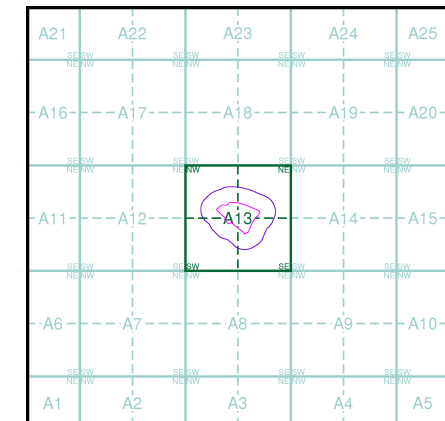
Source map scale - 1:10,000

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)

ST39SW 2018 Variable	ST39SE 2018 Variable
ST38NW 2018 Variable	ST38NE 2018 Variable

Historical Map - Slice A



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

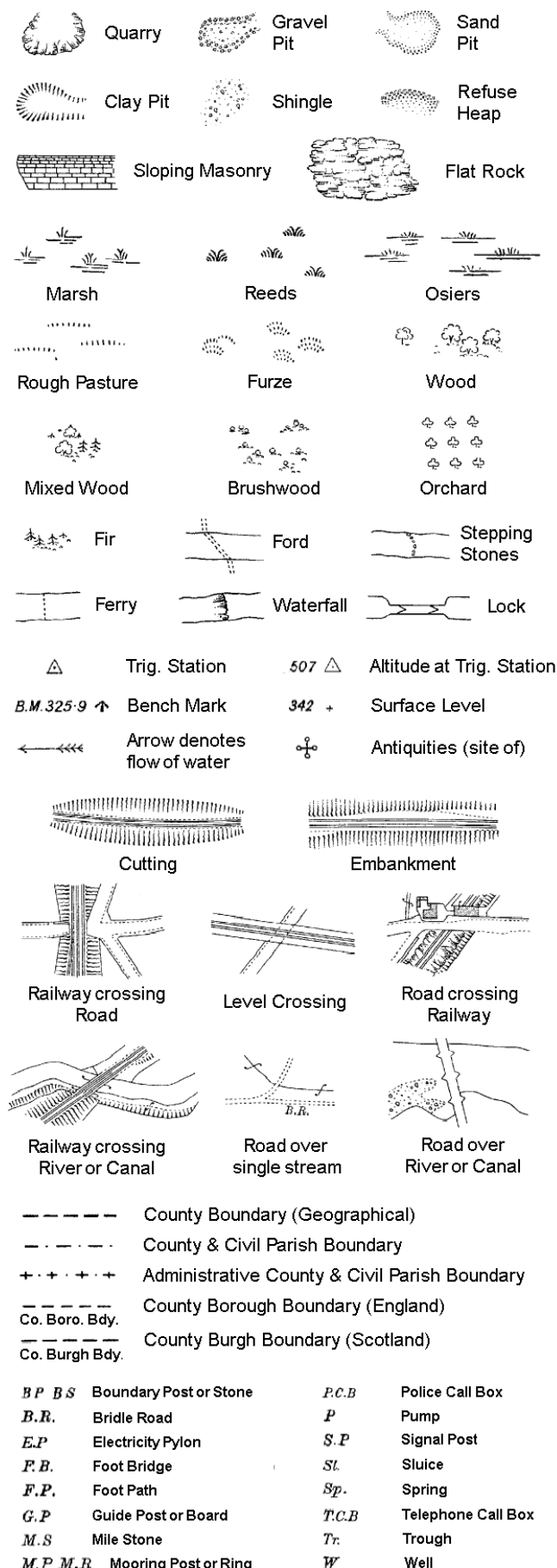
Ringland Centre, NEWPORT, NP19 9HG



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

Historical Mapping Legends

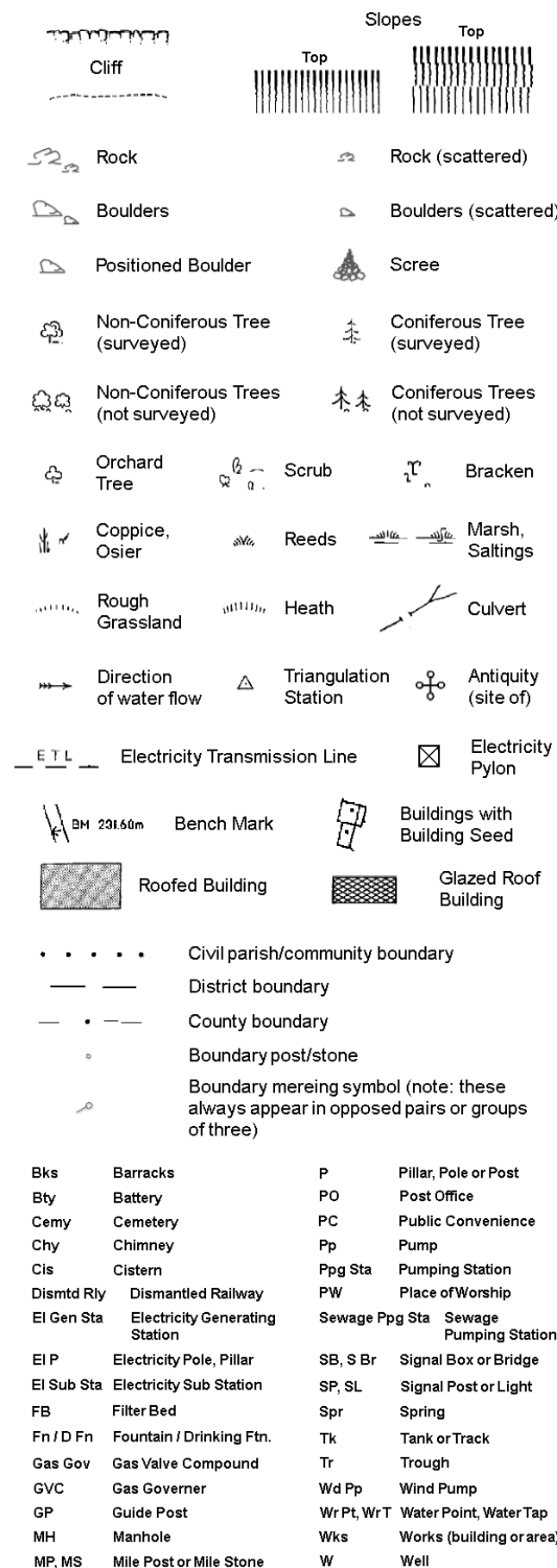
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



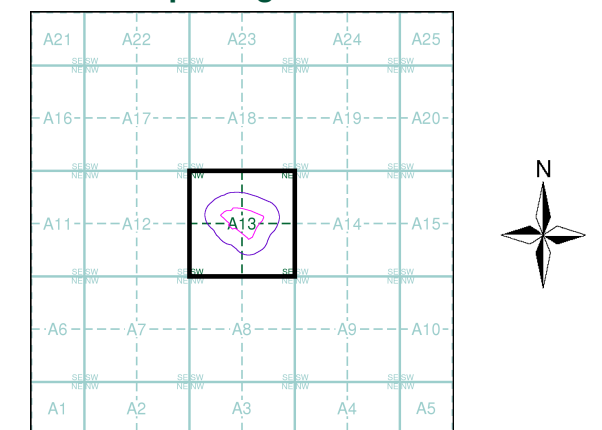
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Monmouthshire	1:2,500	1883	2
Monmouthshire	1:2,500	1901	3
Monmouthshire	1:2,500	1920	4
Monmouthshire	1:2,500	1937	5
Ordnance Survey Plan	1:1,250	1963 - 1964	6
Additional SIMs	1:1,250	1964 - 1989	7
Ordnance Survey Plan	1:2,500	1965 - 1969	8
Ordnance Survey Plan	1:1,250	1968	9
Ordnance Survey Plan	1:2,500	1971	10
Supply of Unpublished Survey Information	1:1,250	1974	11
Supply of Unpublished Survey Information	1:1,250	1975	12
Additional SIMs	1:2,500	1984	13
Additional SIMs	1:1,250	1988 - 1989	14
Ordnance Survey Plan	1:1,250	1990	15
Large-Scale National Grid Data	1:1,250	1992	16
Large-Scale National Grid Data	1:1,250	1996	17
Historical Aerial Photography	1:2,500	2000	18

Historical Map - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



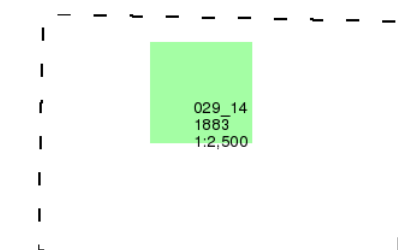
Monmouthshire

Published 1883

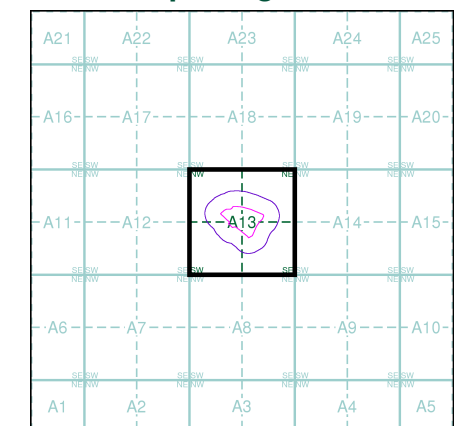
Source map scale - 1:2,500

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

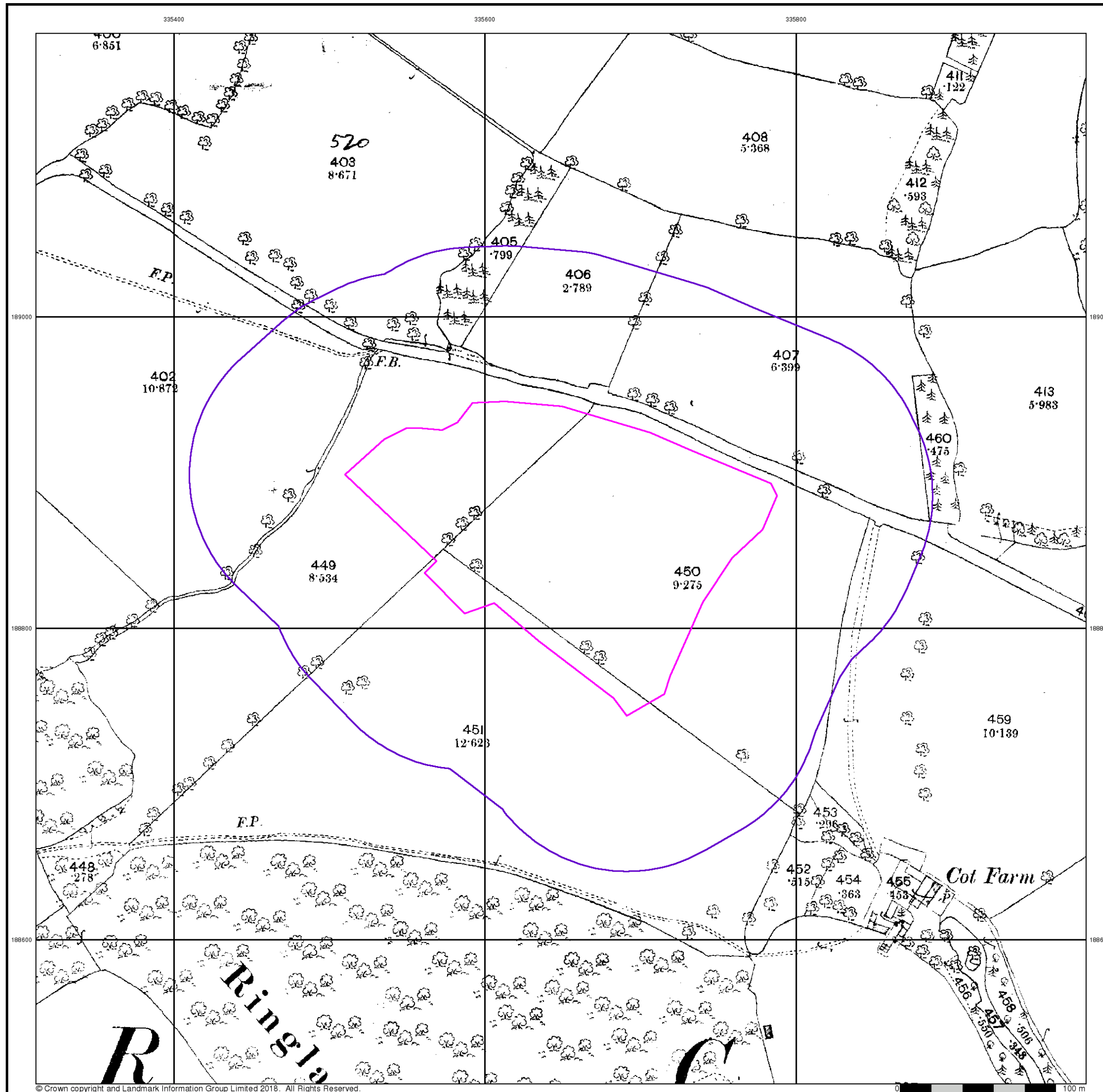
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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





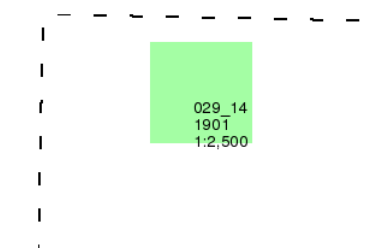
Monmouthshire

Published 1901

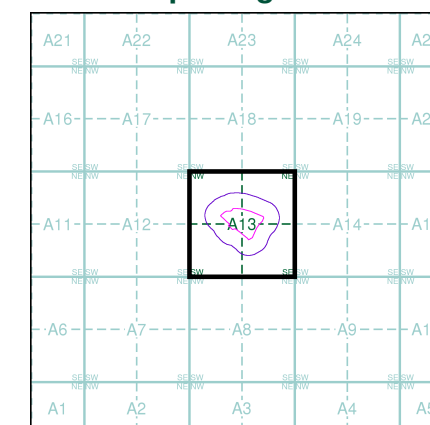
Source map scale - 1:2,500

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)



Historical Map - Segment A13



Order Details

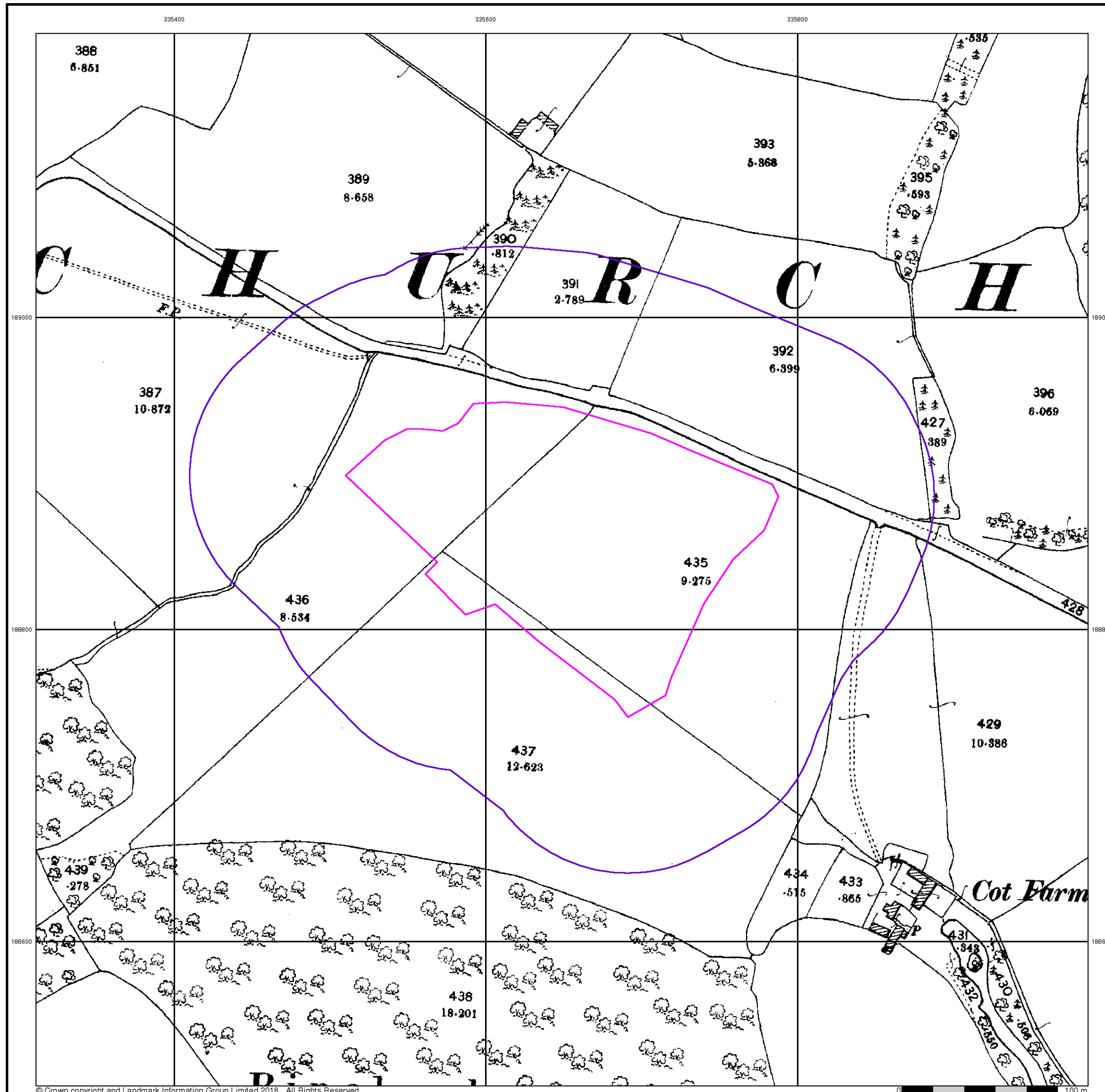
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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





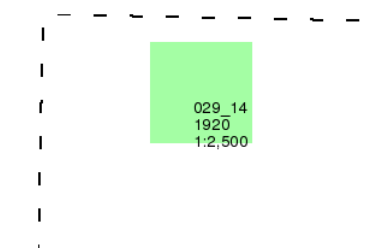
Monmouthshire

Published 1920

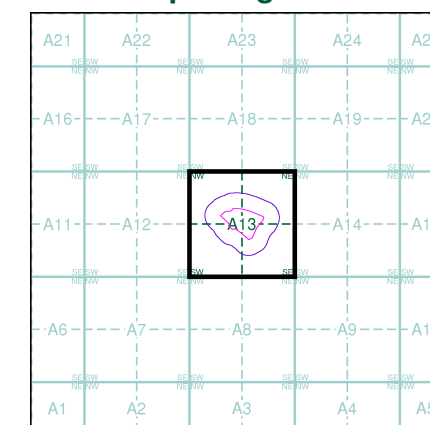
Source map scale - 1:2,500

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

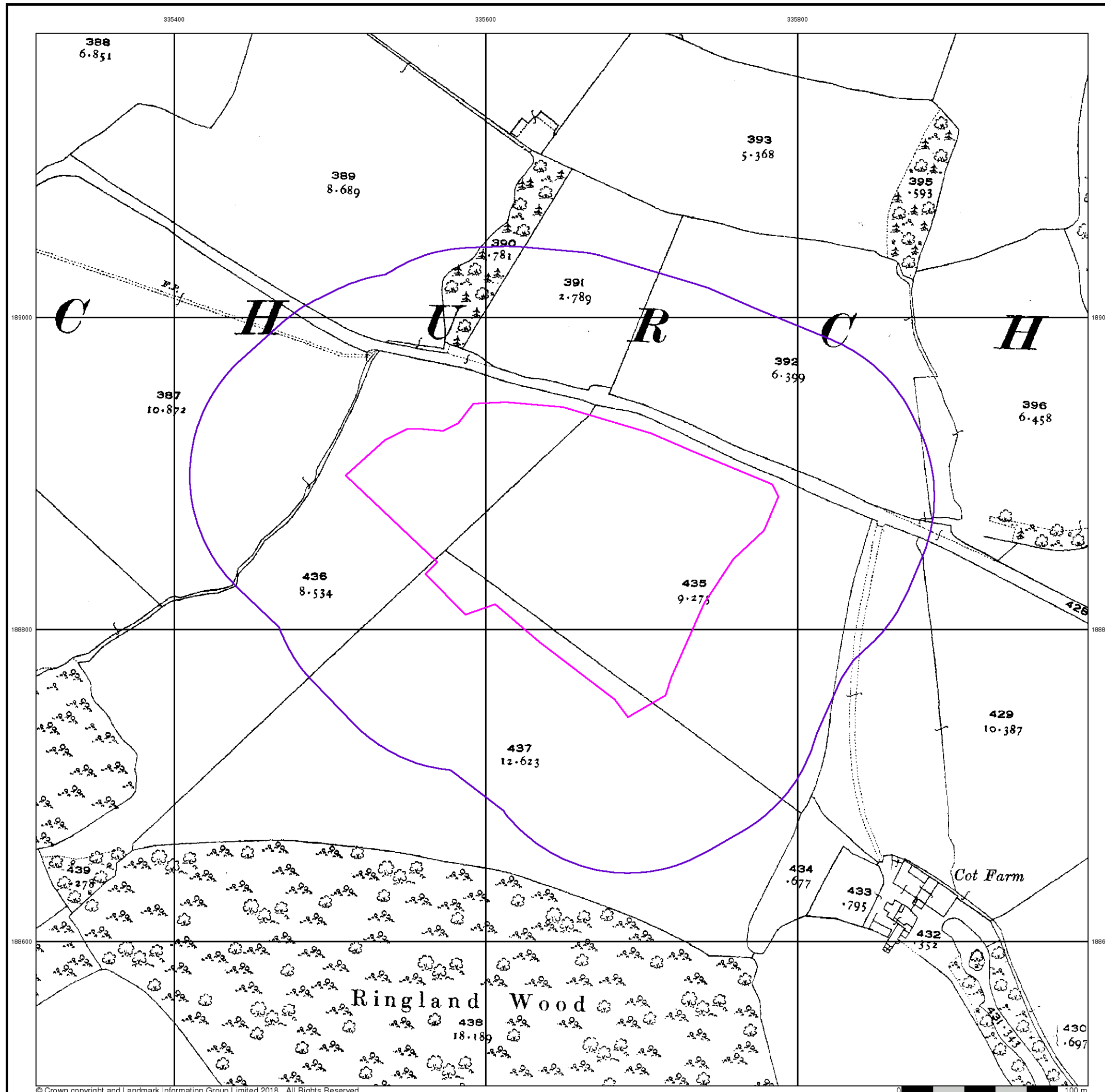
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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





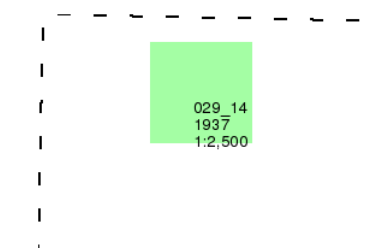
Monmouthshire

Published 1937

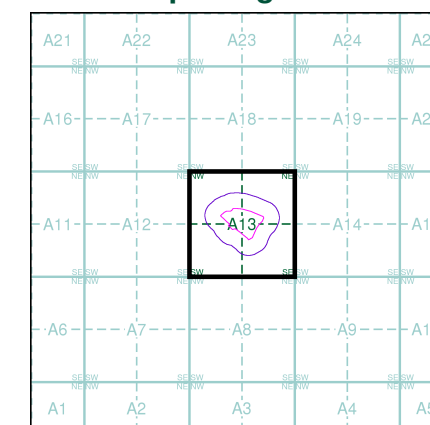
Source map scale - 1:2,500

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

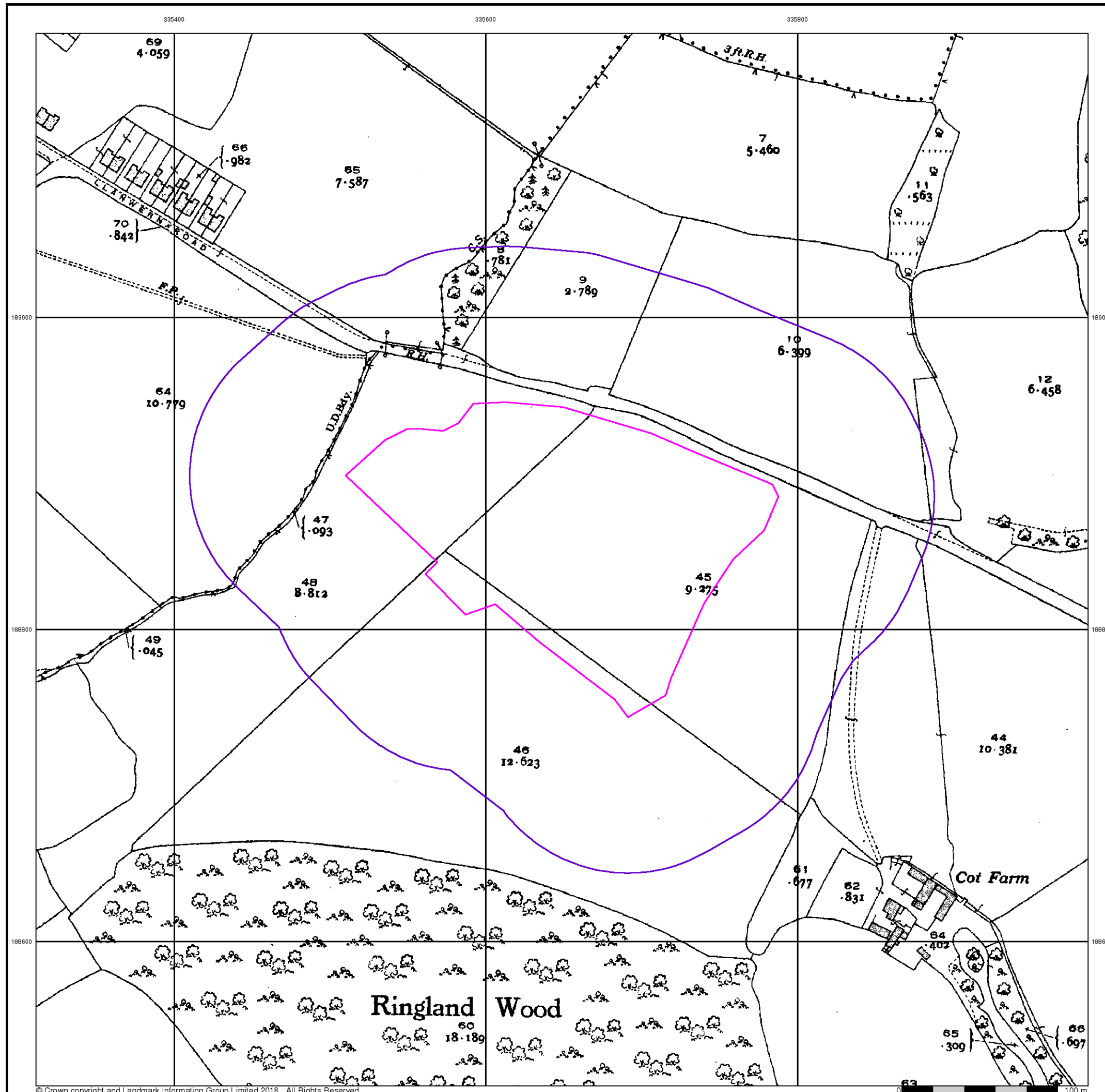
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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





Ordnance Survey Plan

Published 1963 - 1964

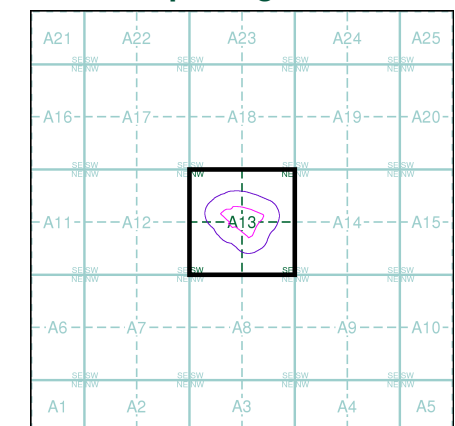
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST3589SW 1963 1:1,250	ST3589SE 1963 1:1,250
ST3588NW 1964 1:1,250	ST3588NE 1964 1:1,250

Historical Map - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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





Additional SIMs

Published 1964 - 1989

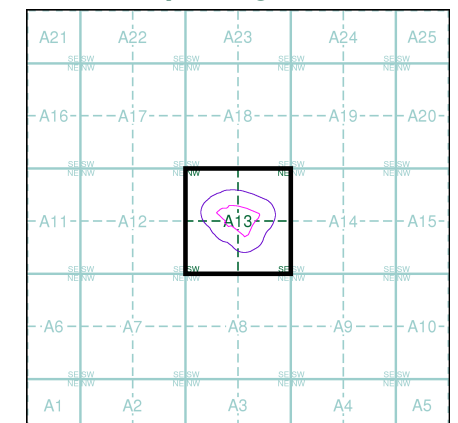
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST3589SW 1985 1:1,250	ST3589SE 1981 1:1,250
ST3588NW 1964 1:1,250	ST3588NE 1989 1:1,250

Historical Map - Segment A13



Order Details

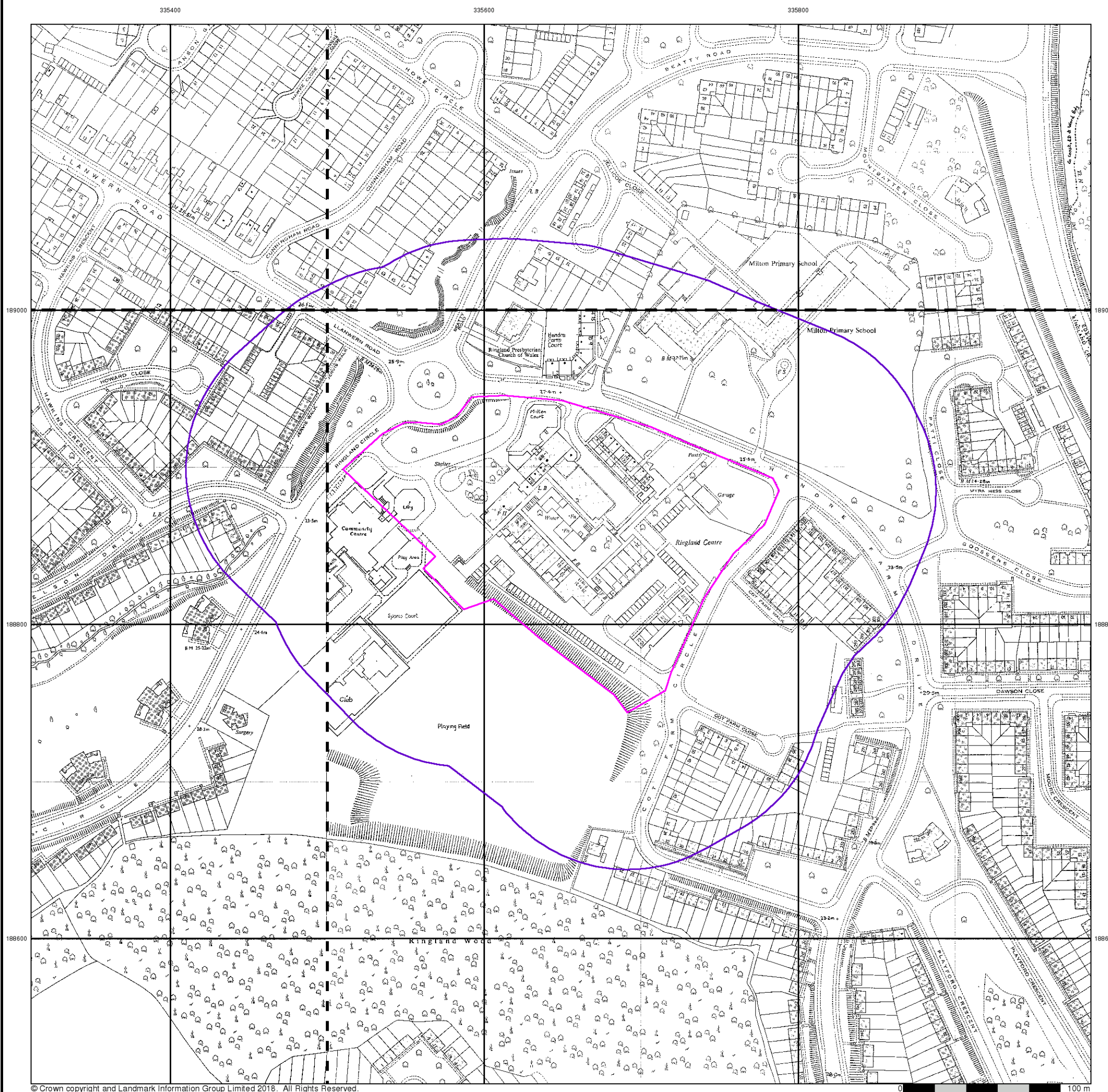
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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





Ordnance Survey Plan

Published 1965 - 1969

Source map scale - 1:2,500

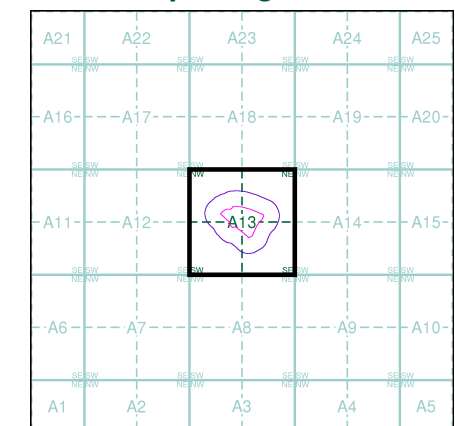
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

ST3589
1969
1:2,500

ST3588
1965
1:2,500

Historical Map - Segment A13



Order Details

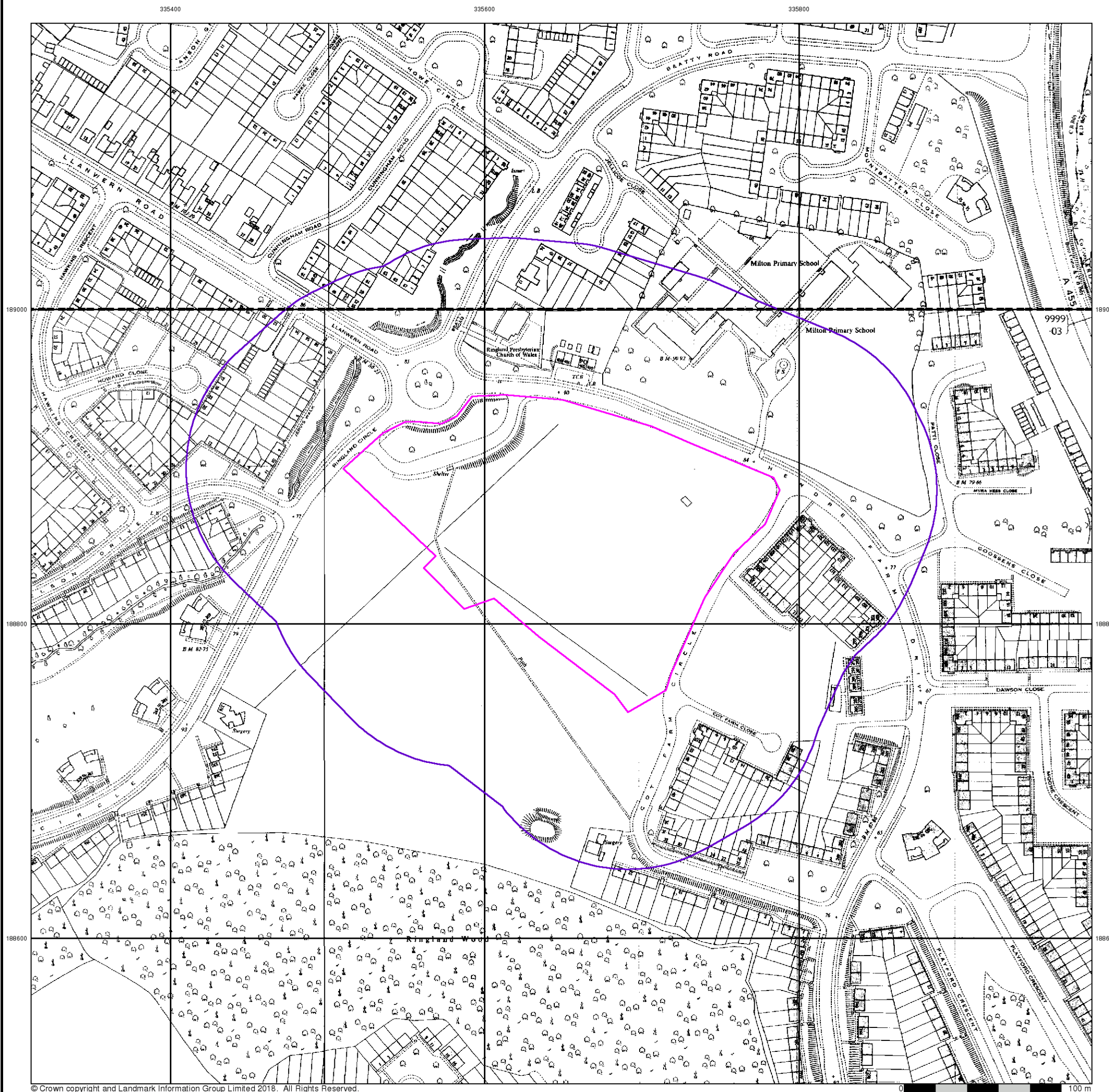
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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





Ordnance Survey Plan

Published 1968

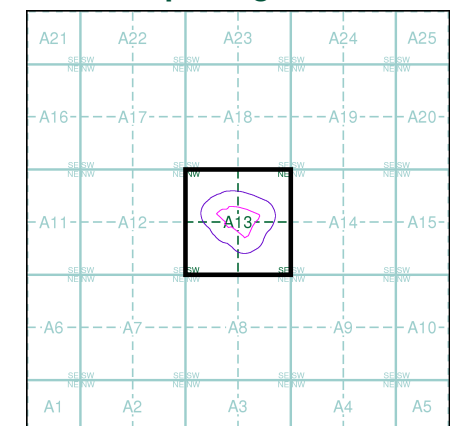
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST3589SW 1968 1:1,250	ST3589SE 1968 1:1,250
ST3588NE 1968 1:1,250	

Historical Map - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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



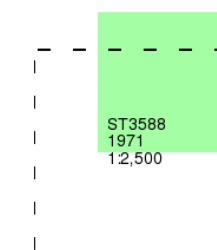
Ordnance Survey Plan

Published 1971

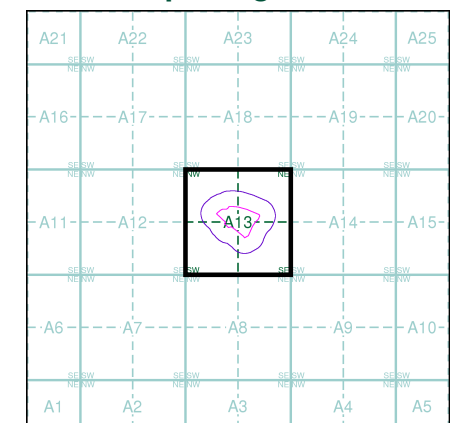
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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





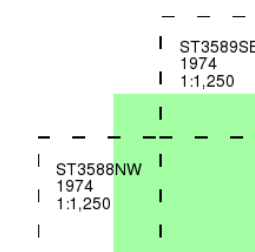
Supply of Unpublished Survey Information

Published 1974

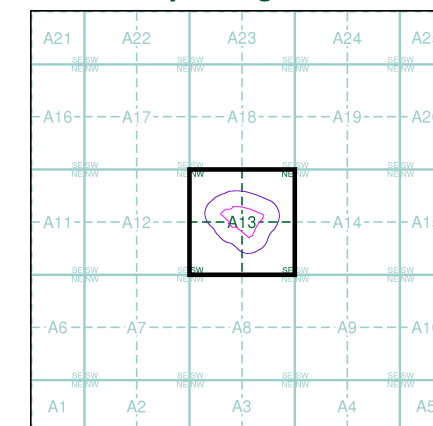
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They 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: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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



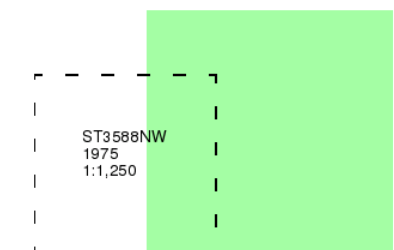
Supply of Unpublished Survey Information

Published 1975

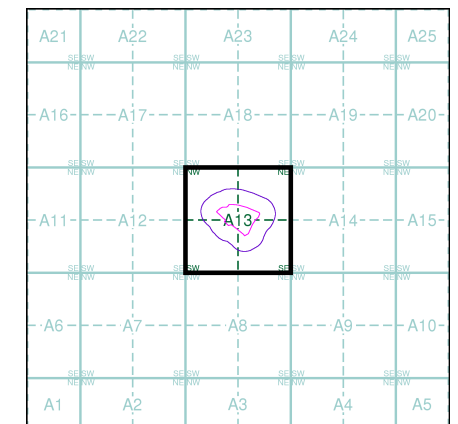
Source map scale - 1:1,250

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

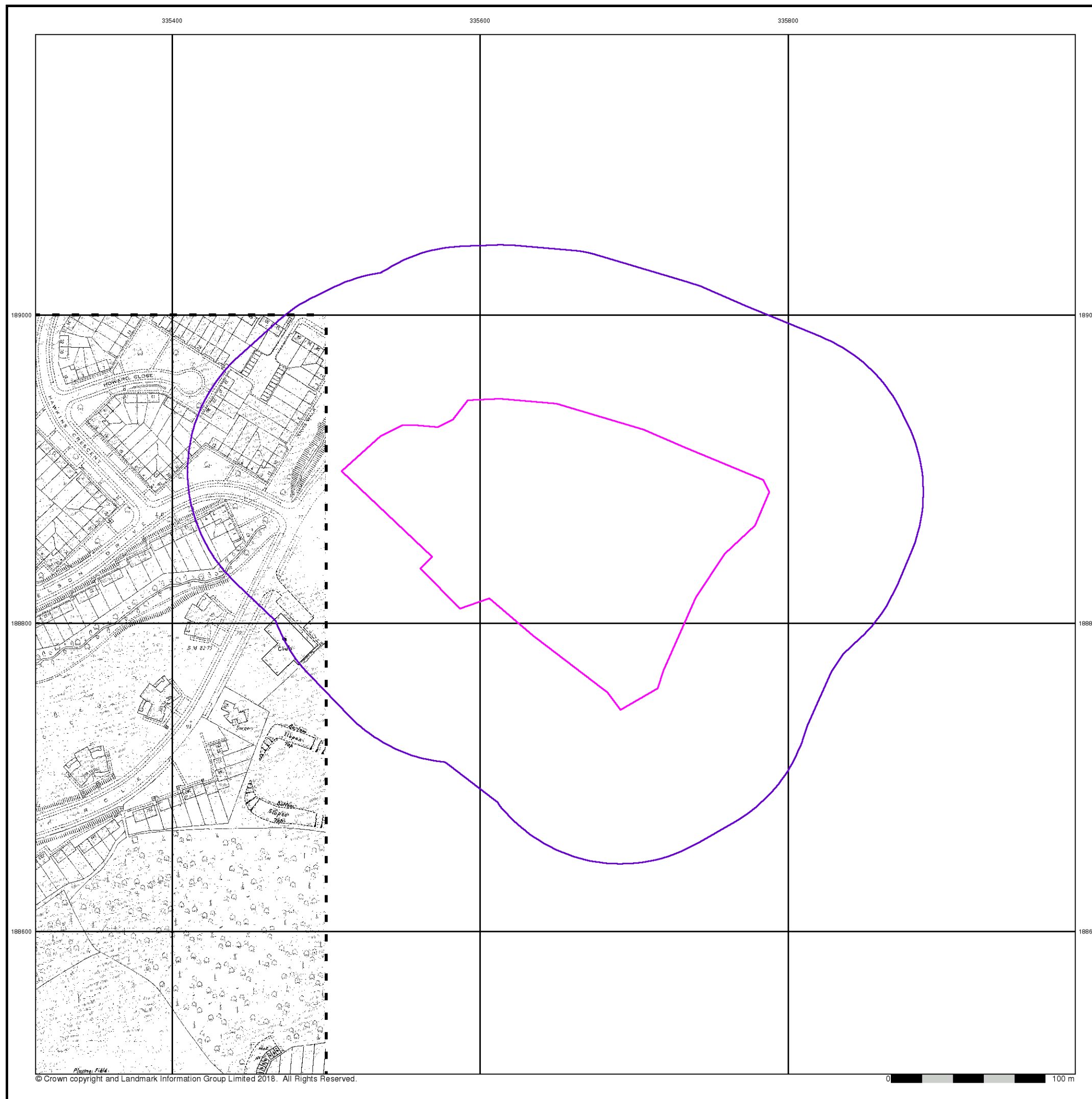
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

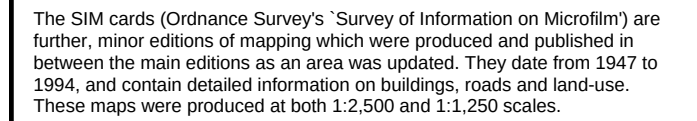
Site Details

Ringland Centre, NEWPORT, NP19 9HG



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





ST3589
1984
1:2,500



Ringland Centre, NEWPORT, NP19 9HG

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



Additional SIMs

Published 1988 - 1989

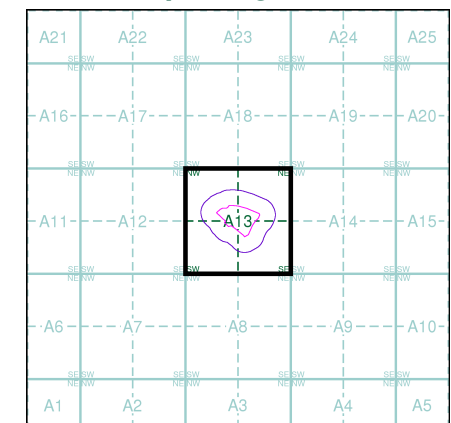
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST3589SW	ST3589SE
1989	1988
1:1,250	1:1,250

Historical Map - Segment A13



Order Details

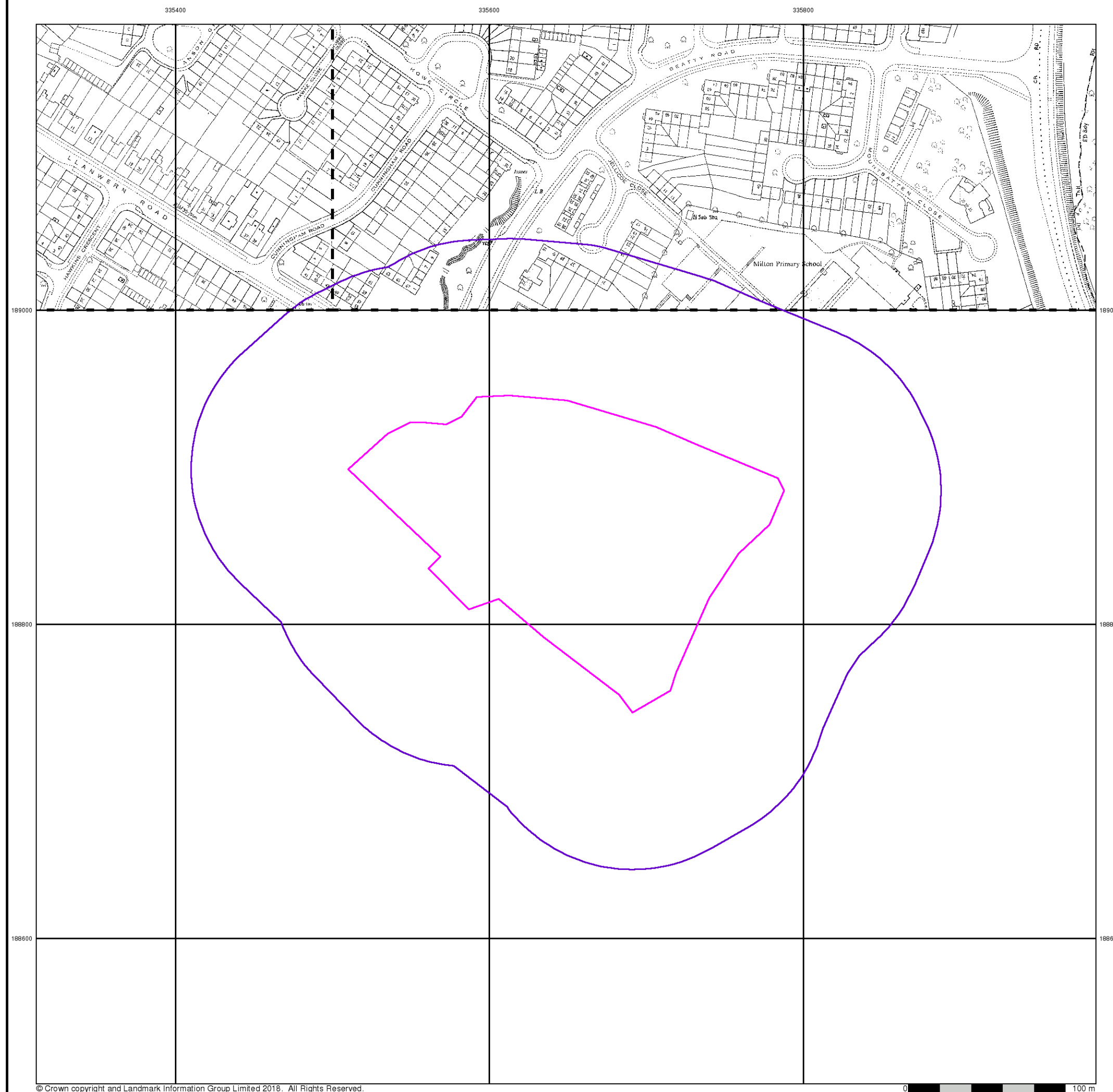
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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





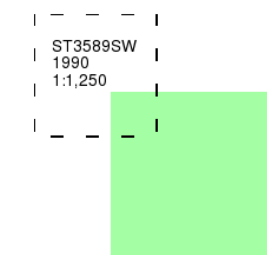
Ordnance Survey Plan

Published 1990

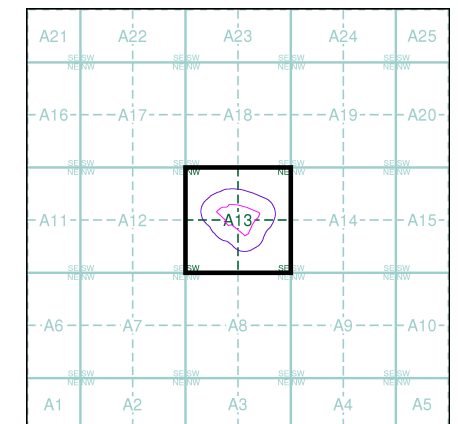
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

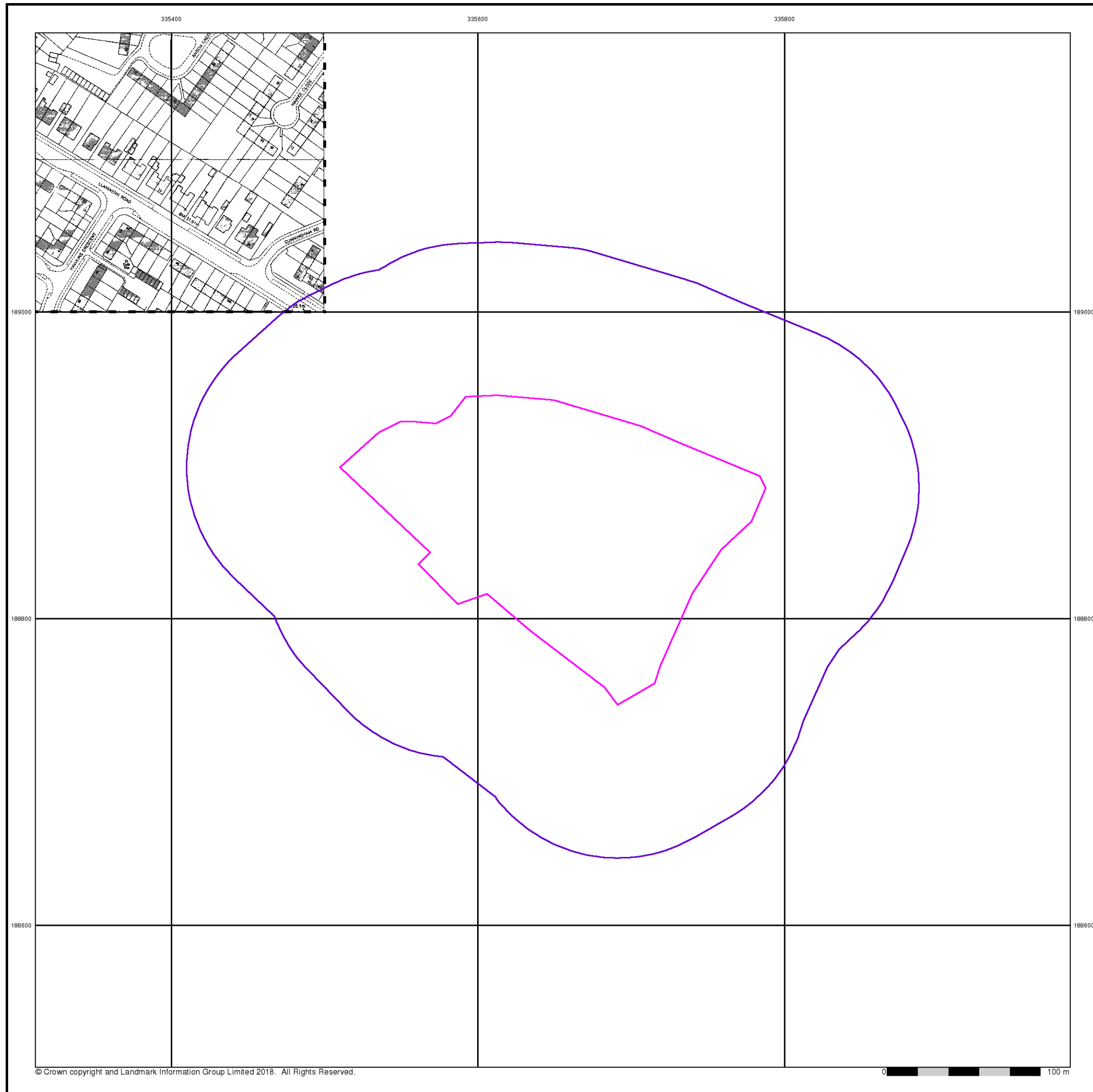
Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

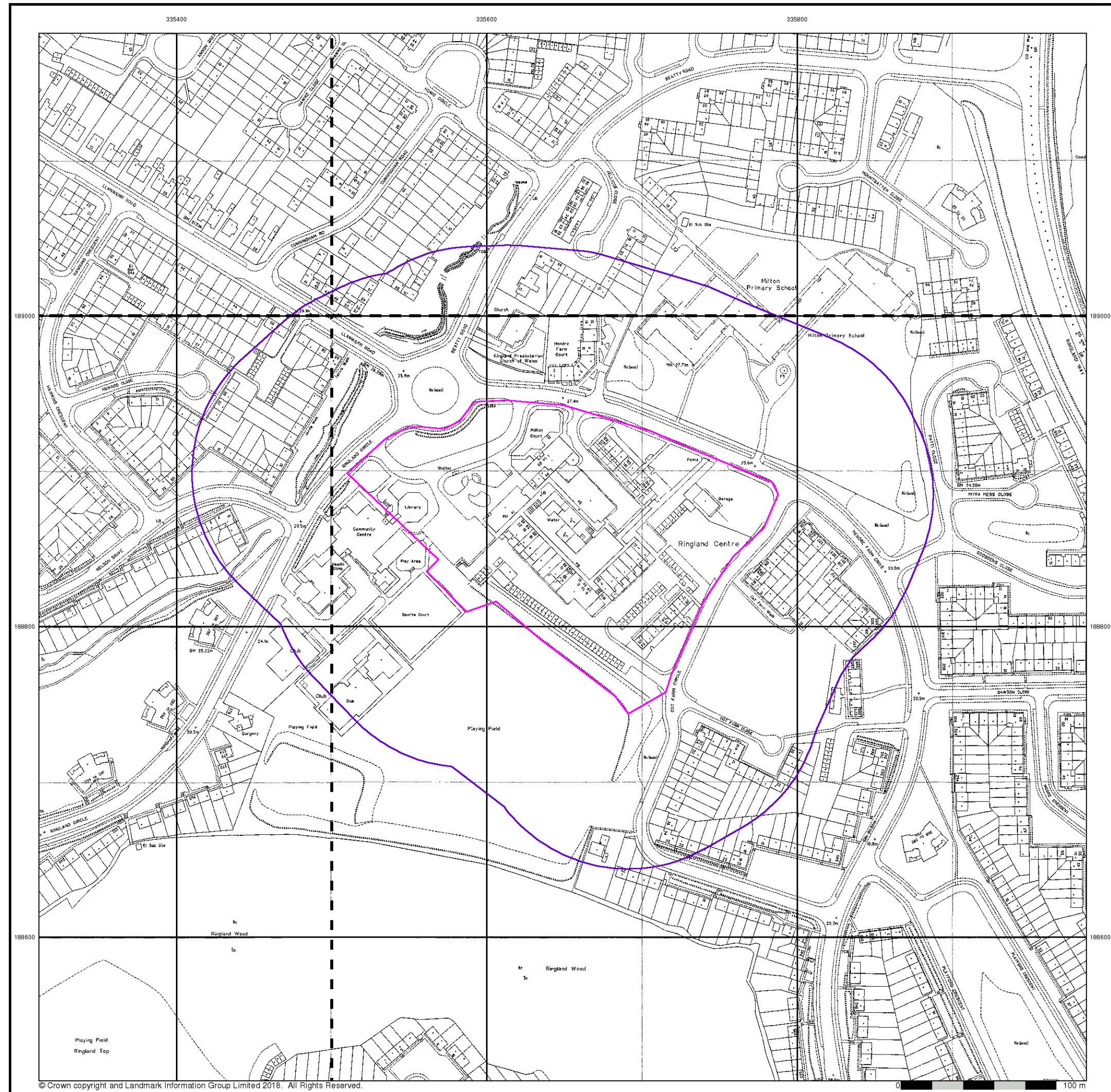
Site Details

Ringland Centre, NEWPORT, NP19 9HG



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





Large-Scale National Grid Data

Published 1992

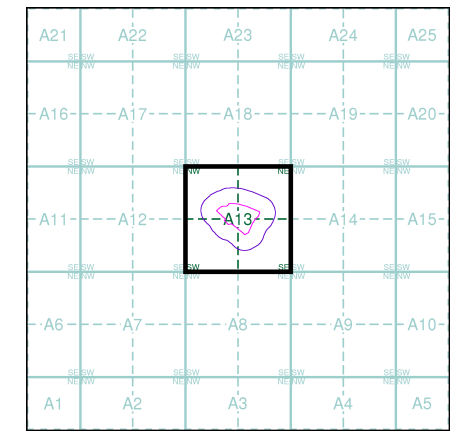
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

ST3589SW	1992	1:1,250
ST3589SE	1992	1:1,250
ST3588NW	1992	1:1,250
ST3588NE	1992	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

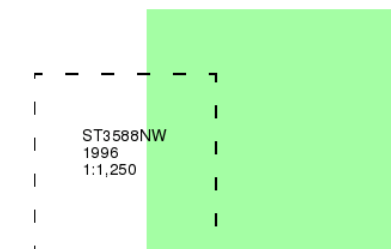
Site Details

Ringland Centre, NEWPORT, NP19 9HG

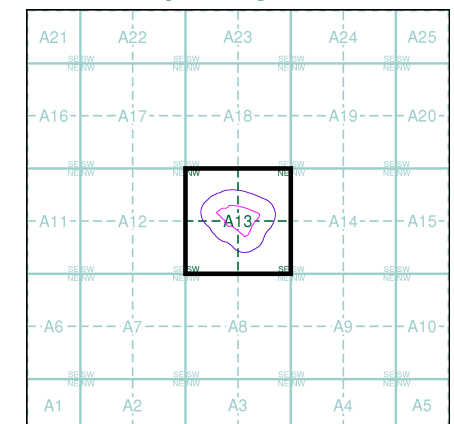


Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark®
INFORMATION GROUP

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

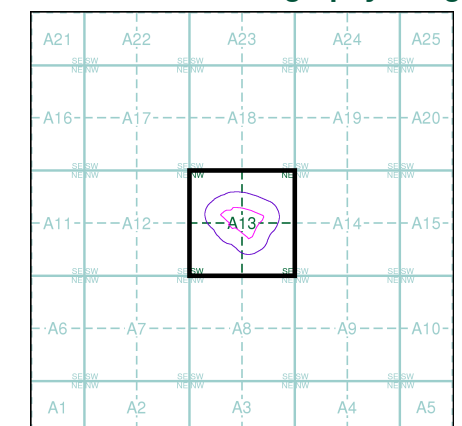


Historical Aerial Photography

Published 2000

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 100

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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



General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location
- 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
- 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 (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

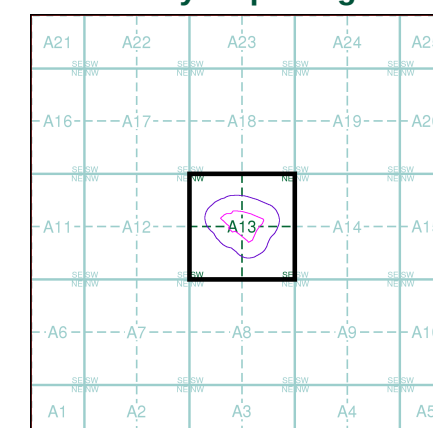
Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

Site Sensitivity Map - Segment A13

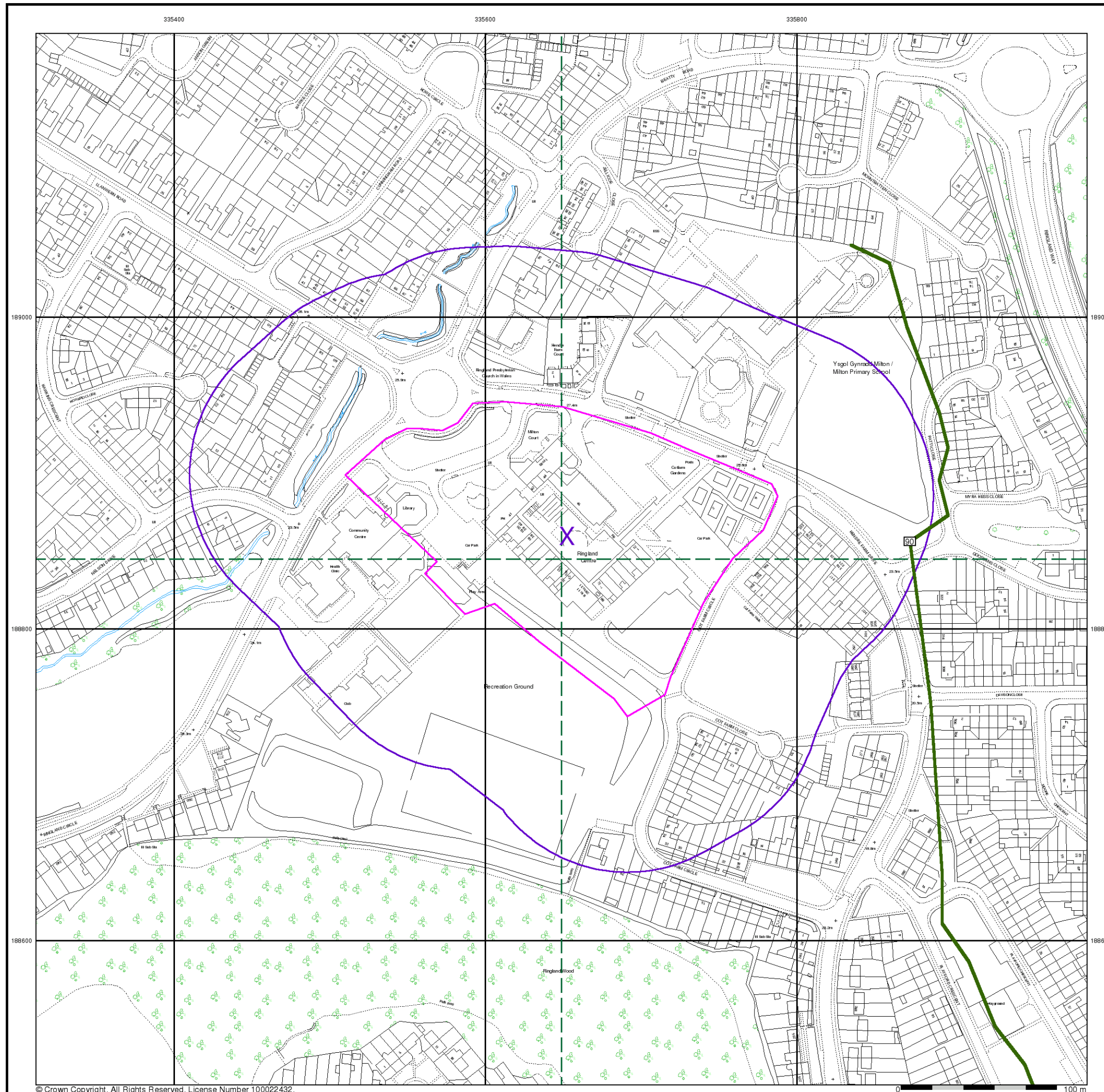


Order Details

Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Plot Buffer (m): 100

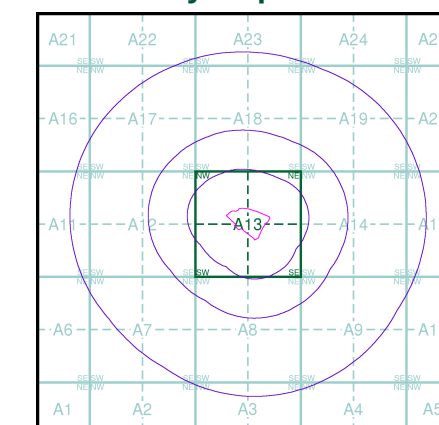
Site Details

Ringland Centre, NEWPORT, NP19 9HG



- 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 and 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
- 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 (Non-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
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A

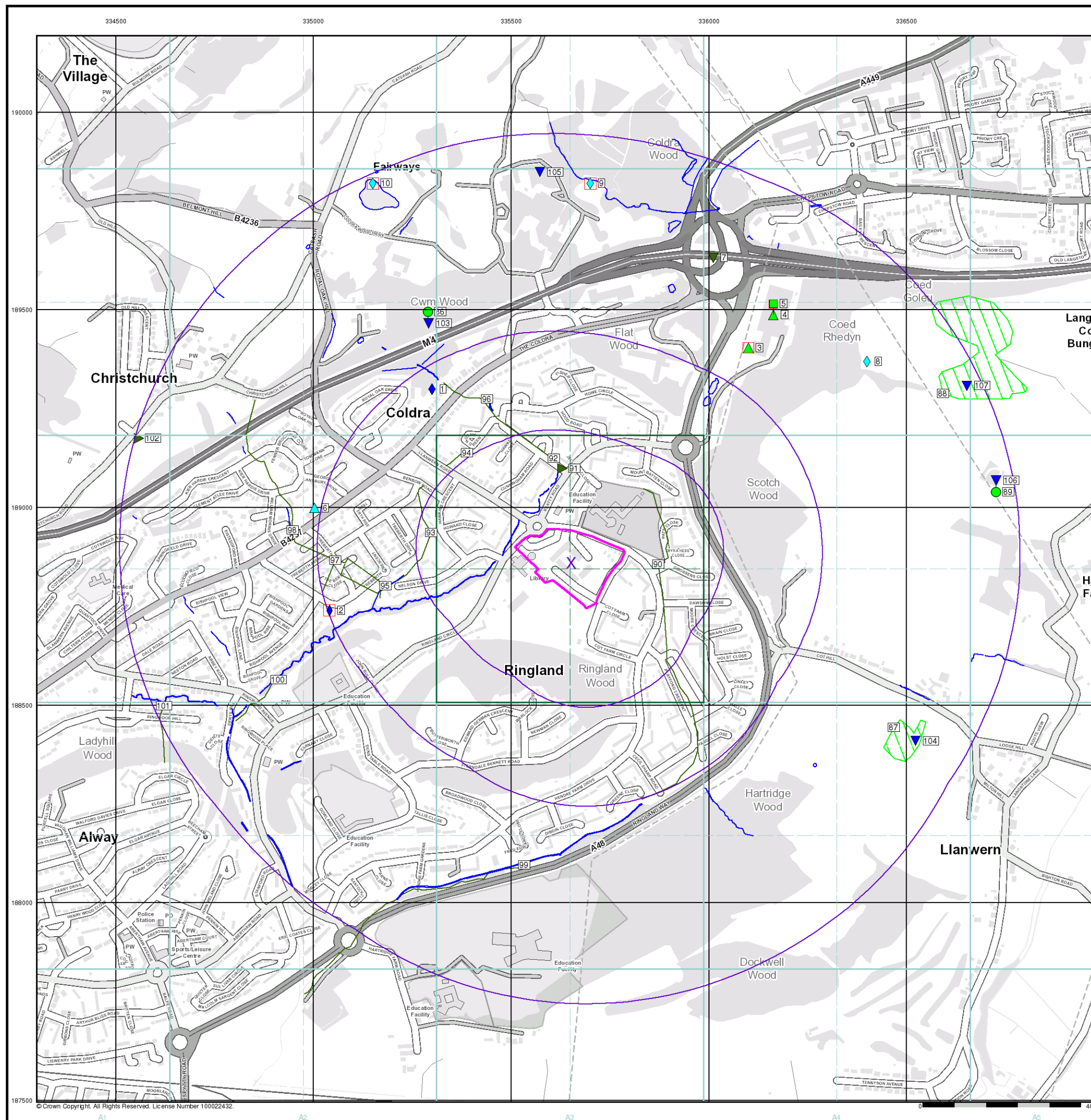


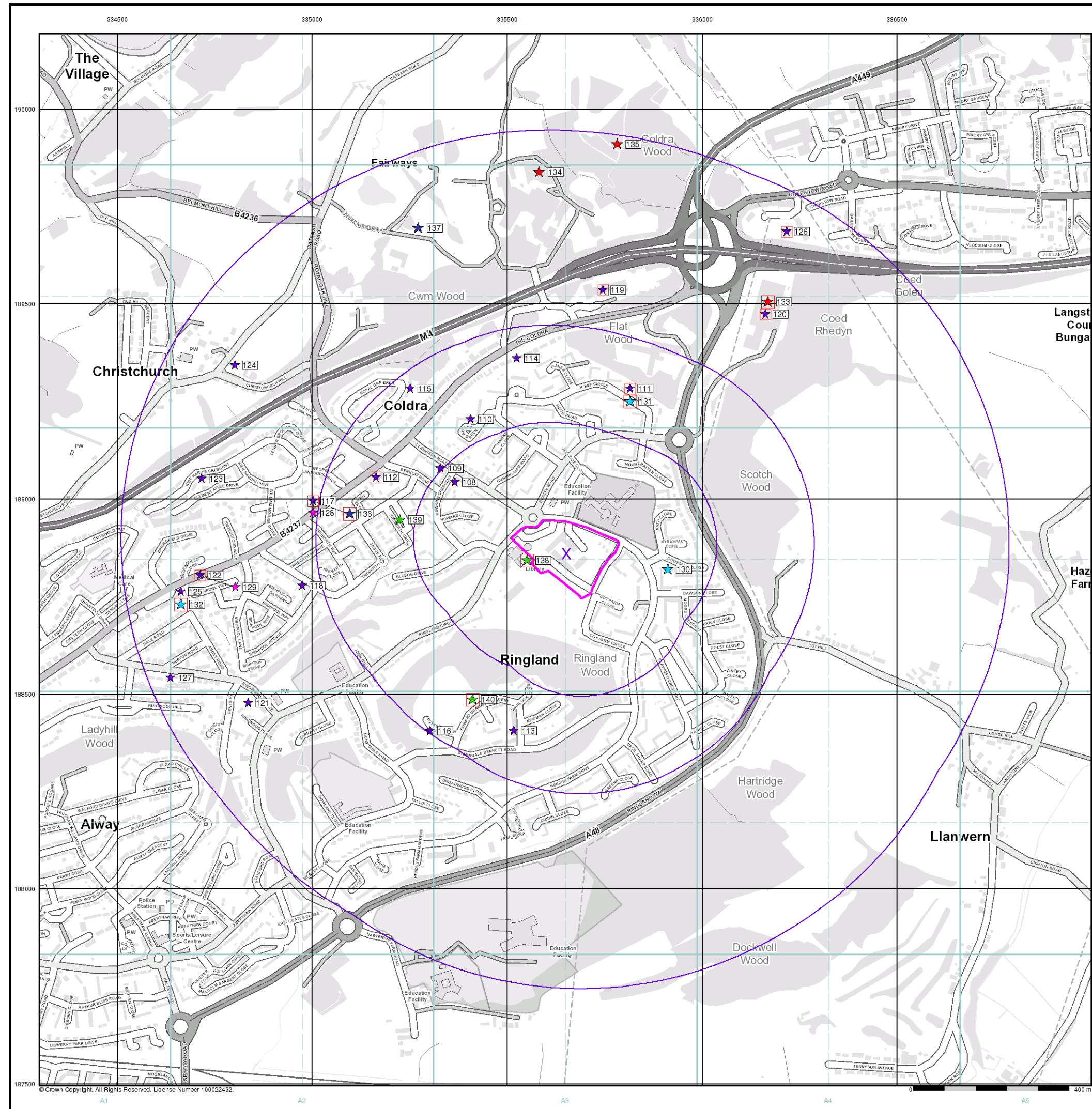
Order Details

Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG





© Crown Copyright. All Rights Reserved. License Number 100022432.



Industrial Land Use Map

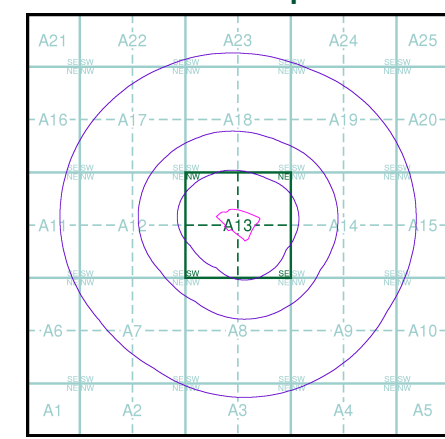
General

- 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: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



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

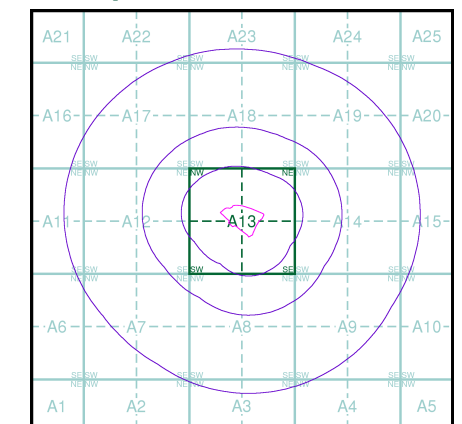
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

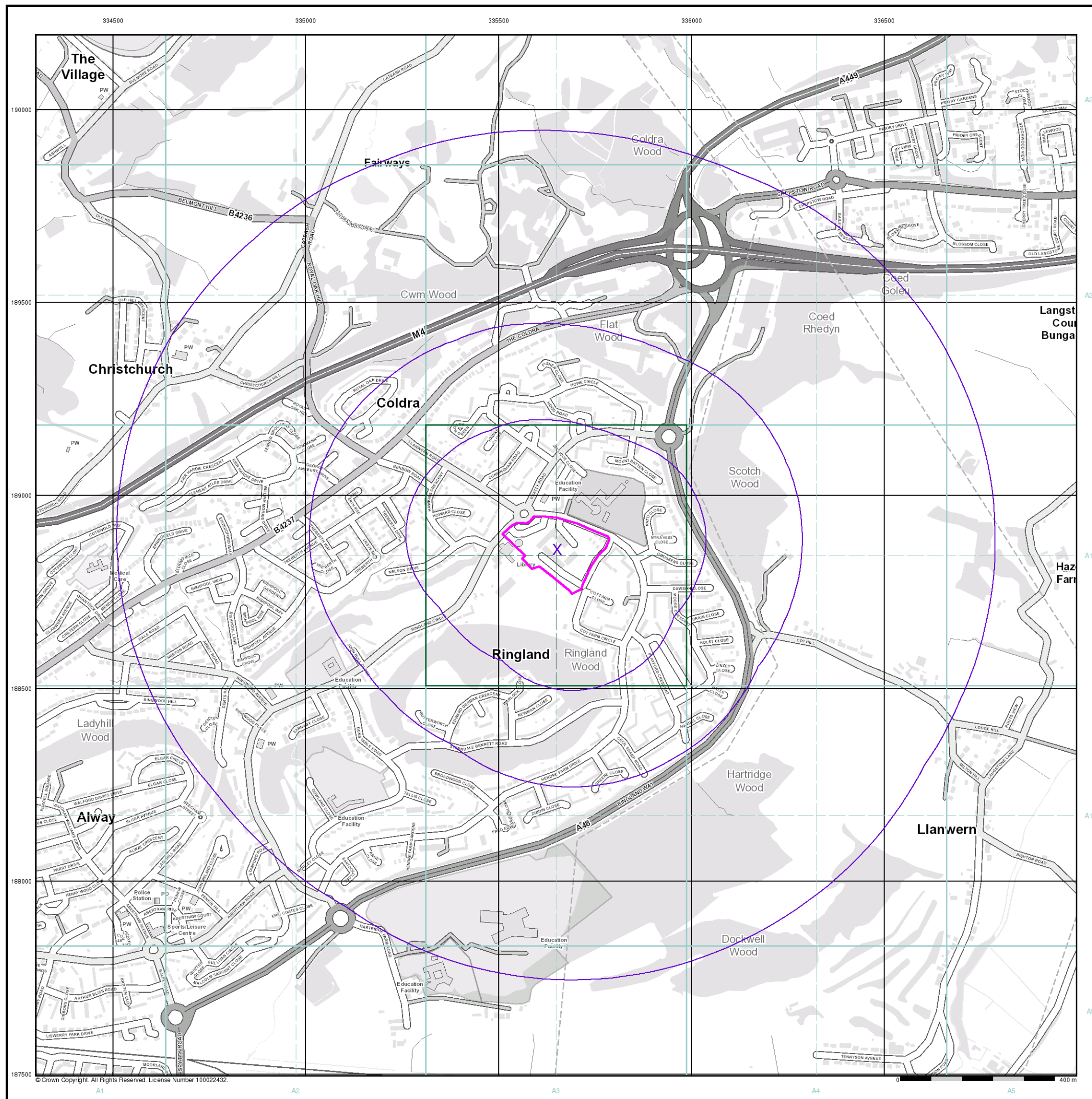


Order Details

Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



General

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

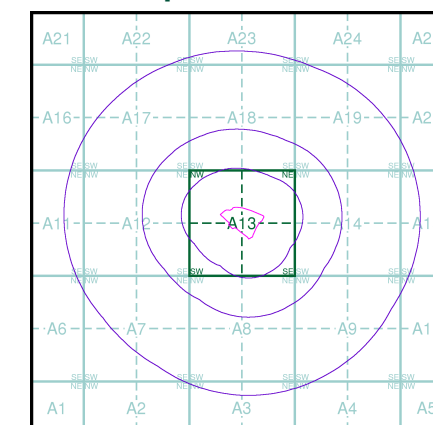
Agency and Hydrological (Boreholes)

-  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

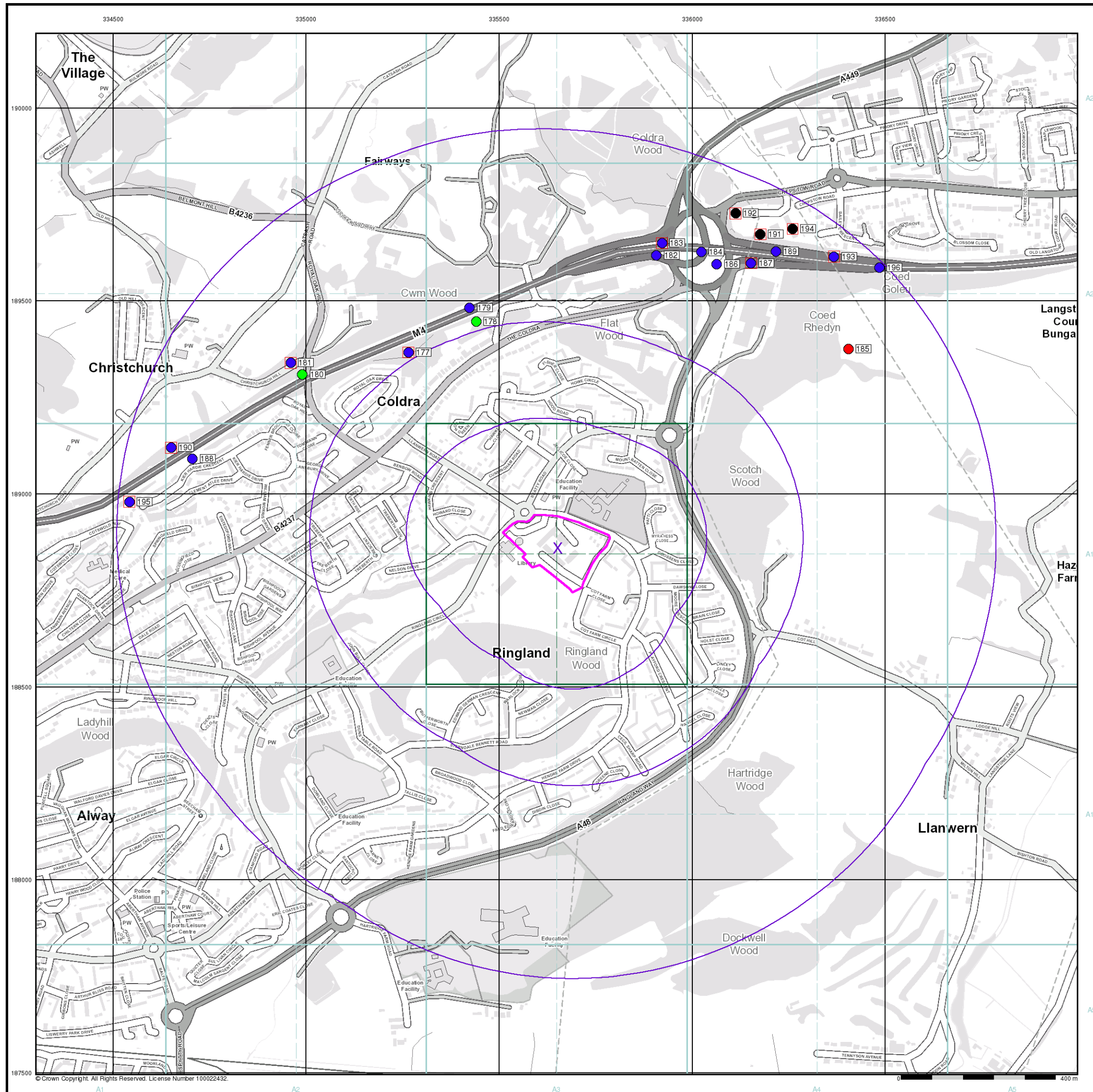


Order Details

Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



General

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

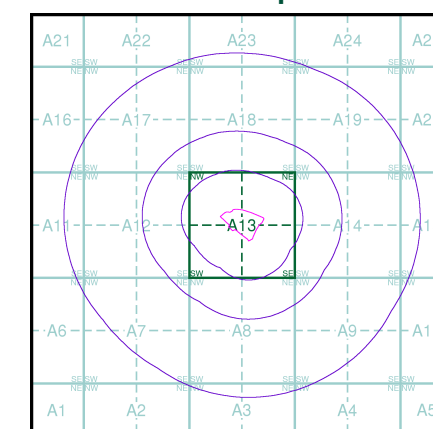
OS Water Network Data

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

Contours (height in meters)

- Standard Contour     Mean Low Water
- Master Contour     Mean High Water
- Spot Height  167.3

OS Water Network Map - Slice A

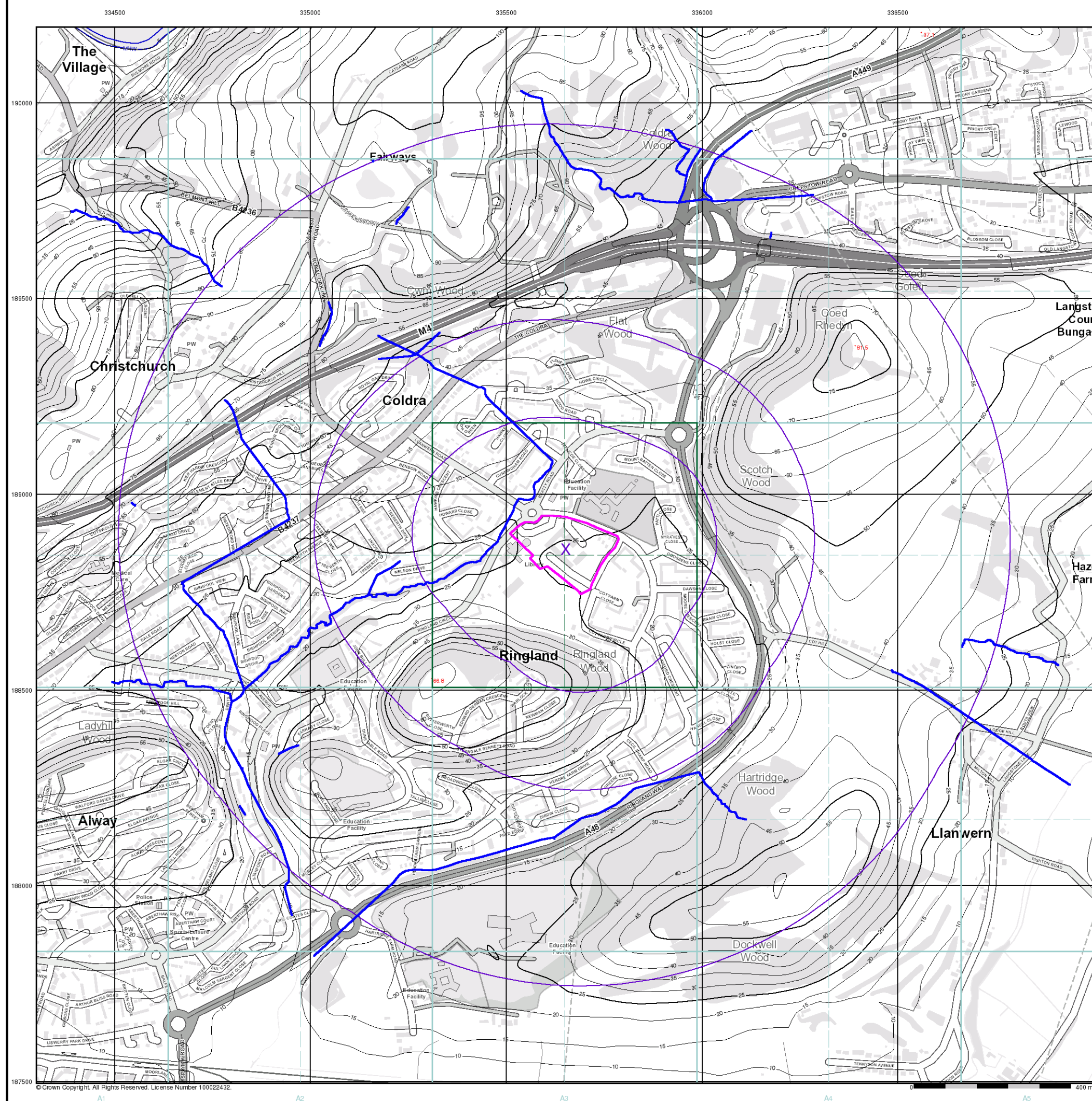


Order Details

Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



General

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

Risk of Flooding from Surface Water

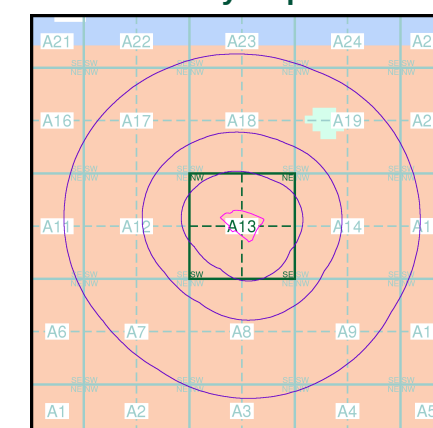
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

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

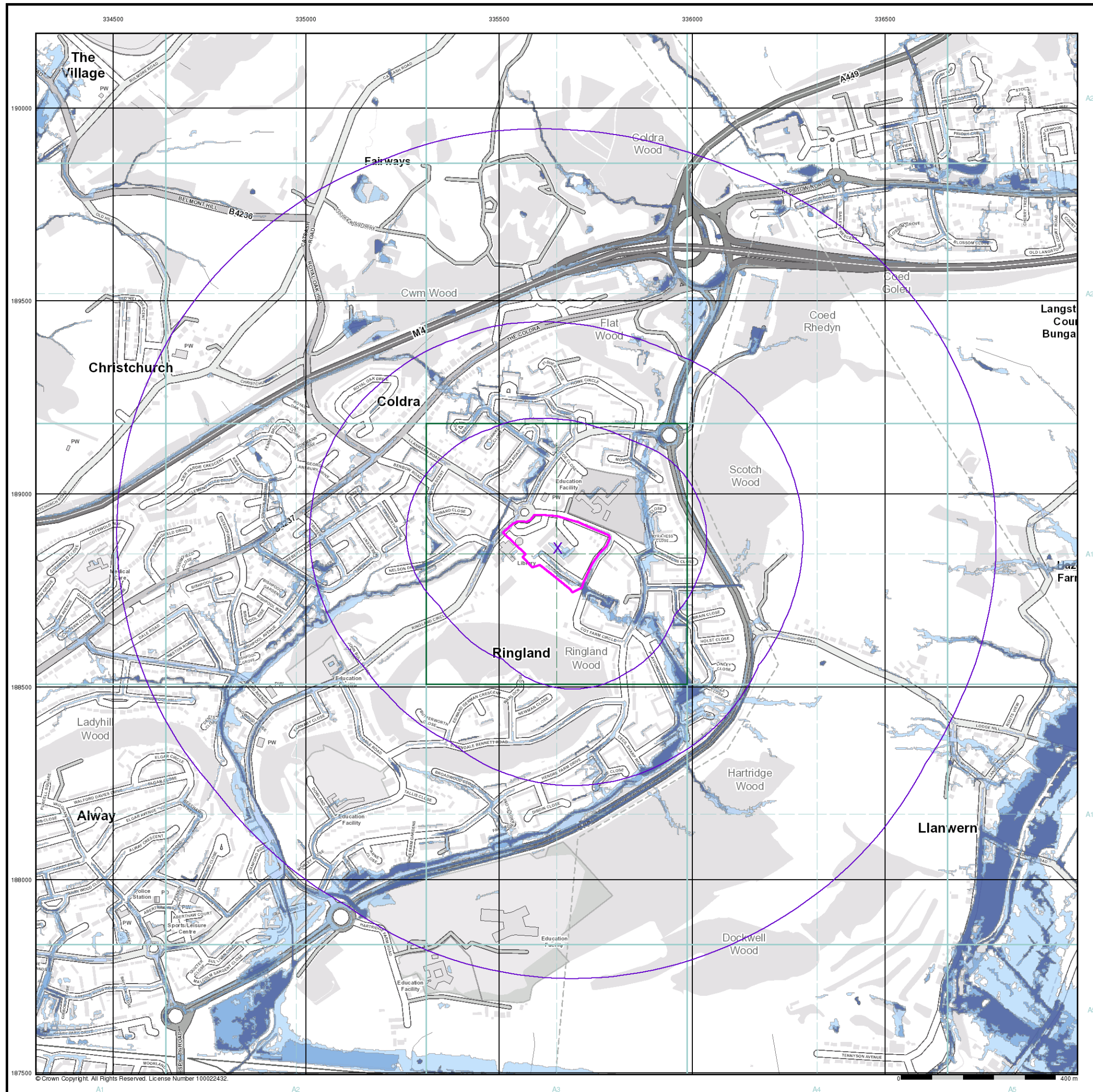


Order Details

Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG



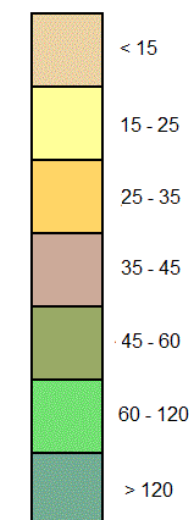


General

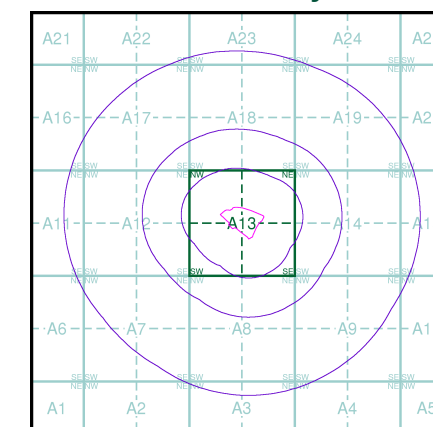
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

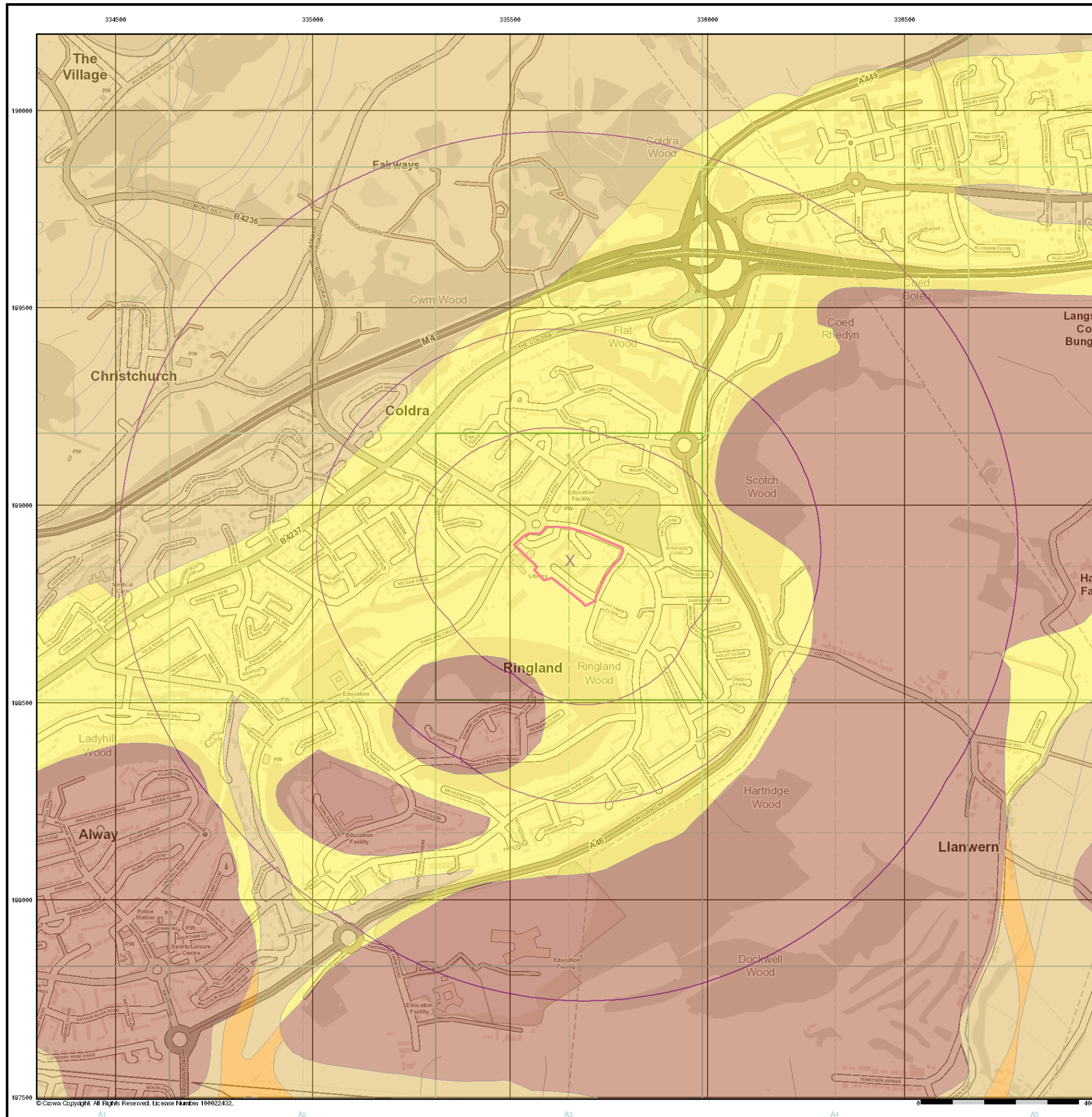
Order Details: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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



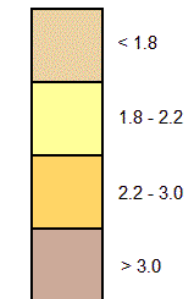


General

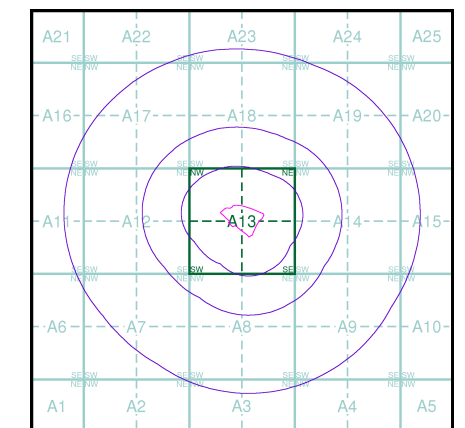
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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

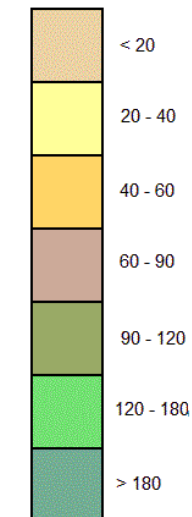


General

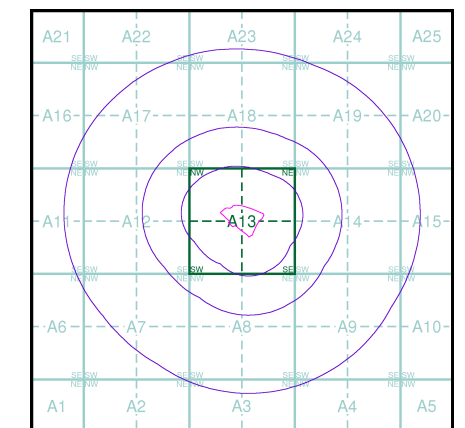
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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

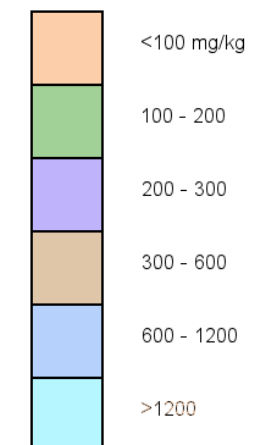


General

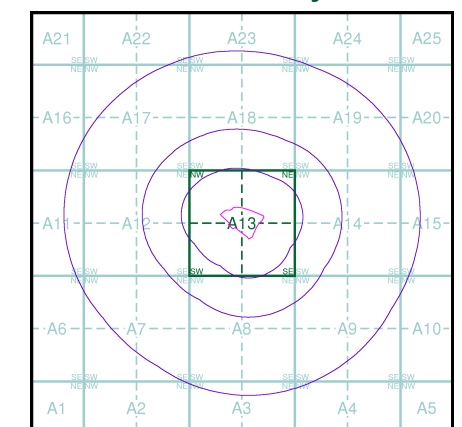
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

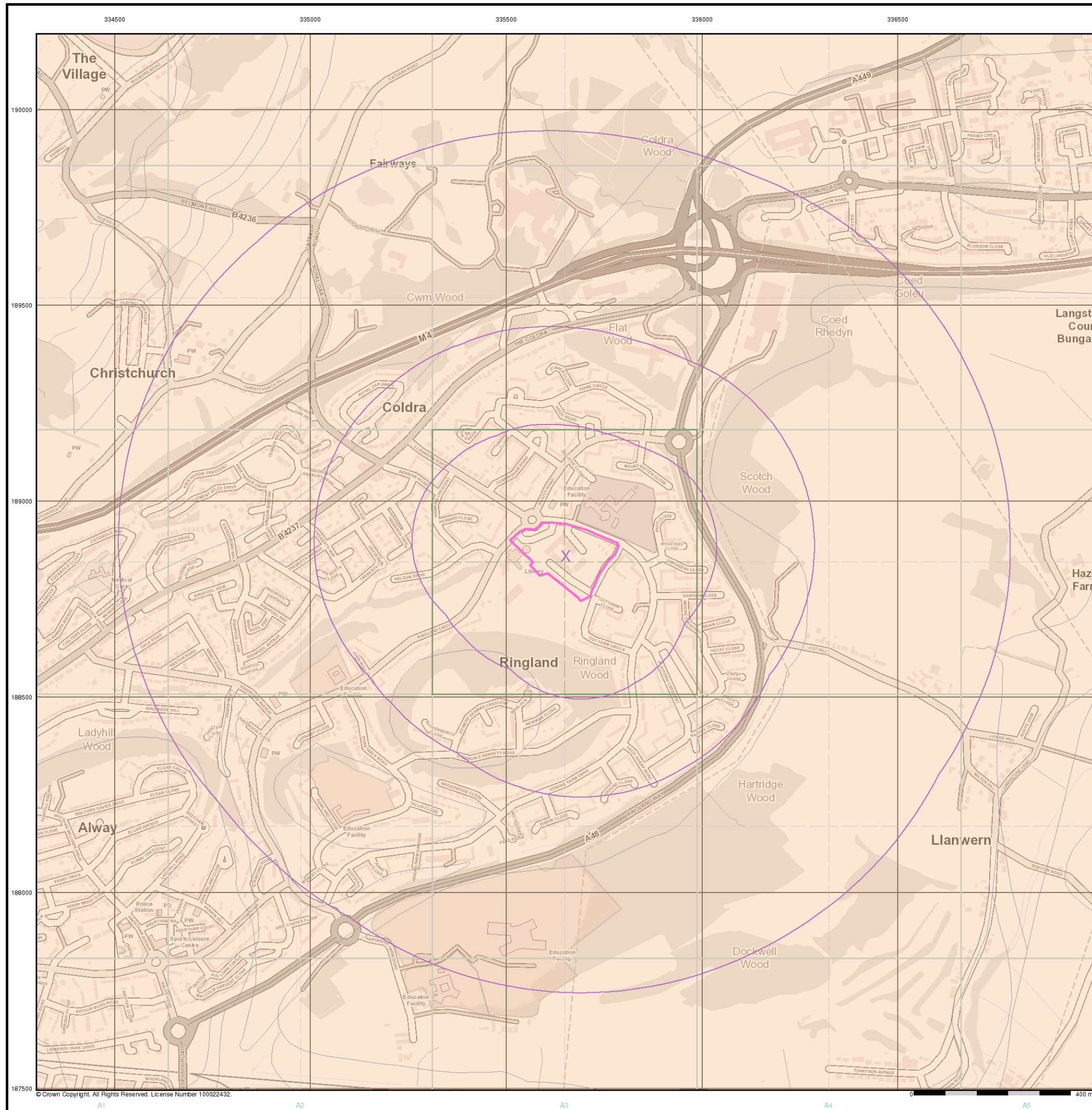
Order Details: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335650, 188860
Slice: A
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
INFORMATION GROUP

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

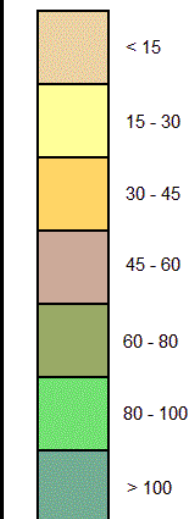


General

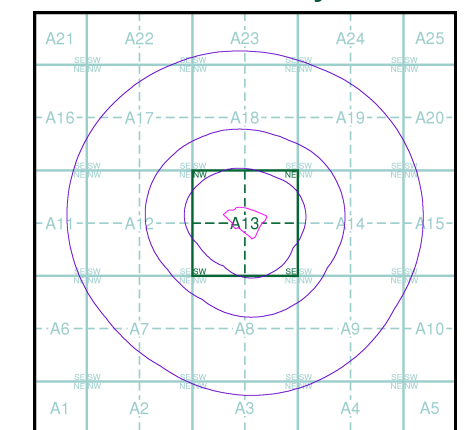
 Specified Site
  Specified Buffer(s)
  Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A

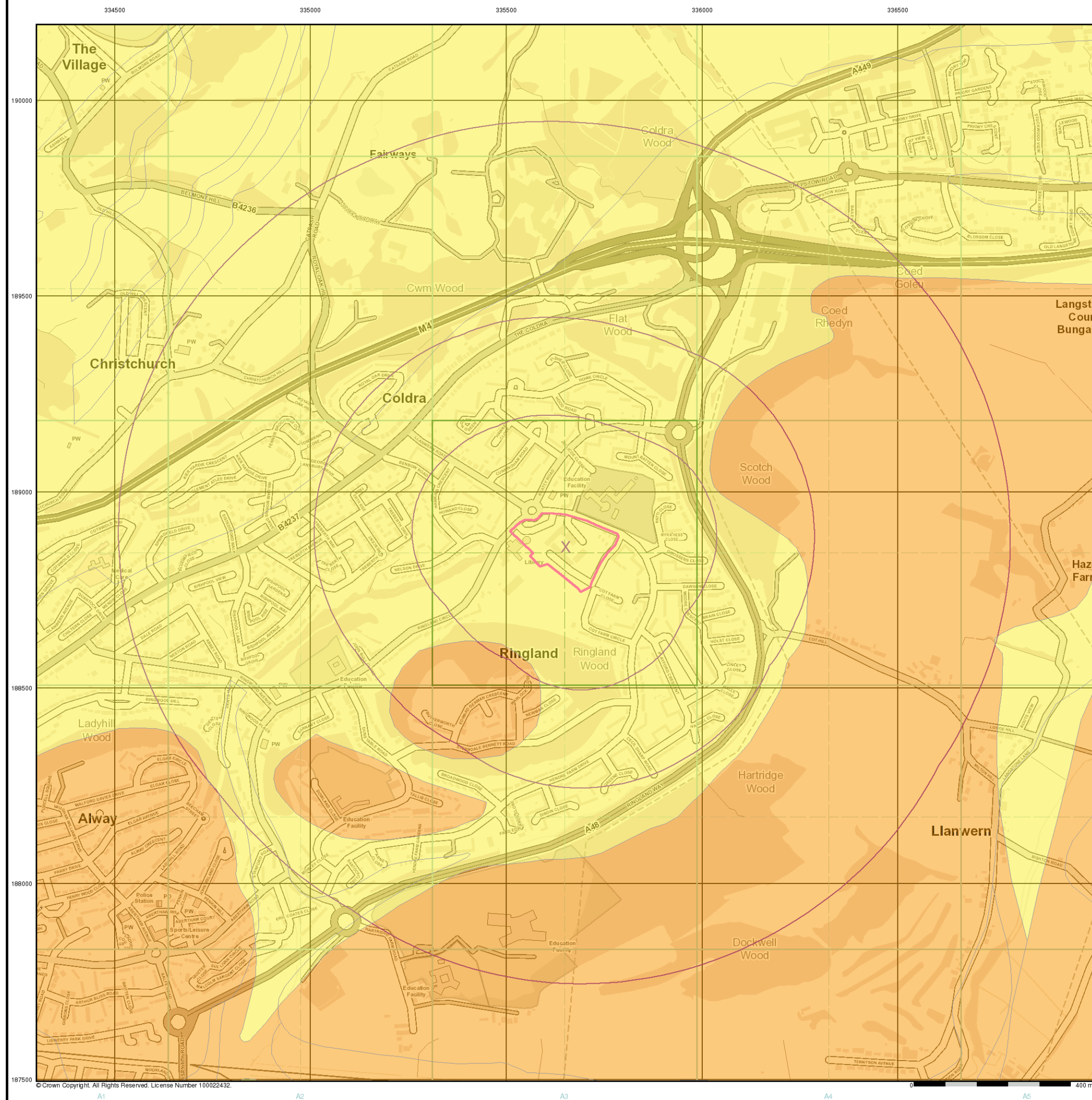


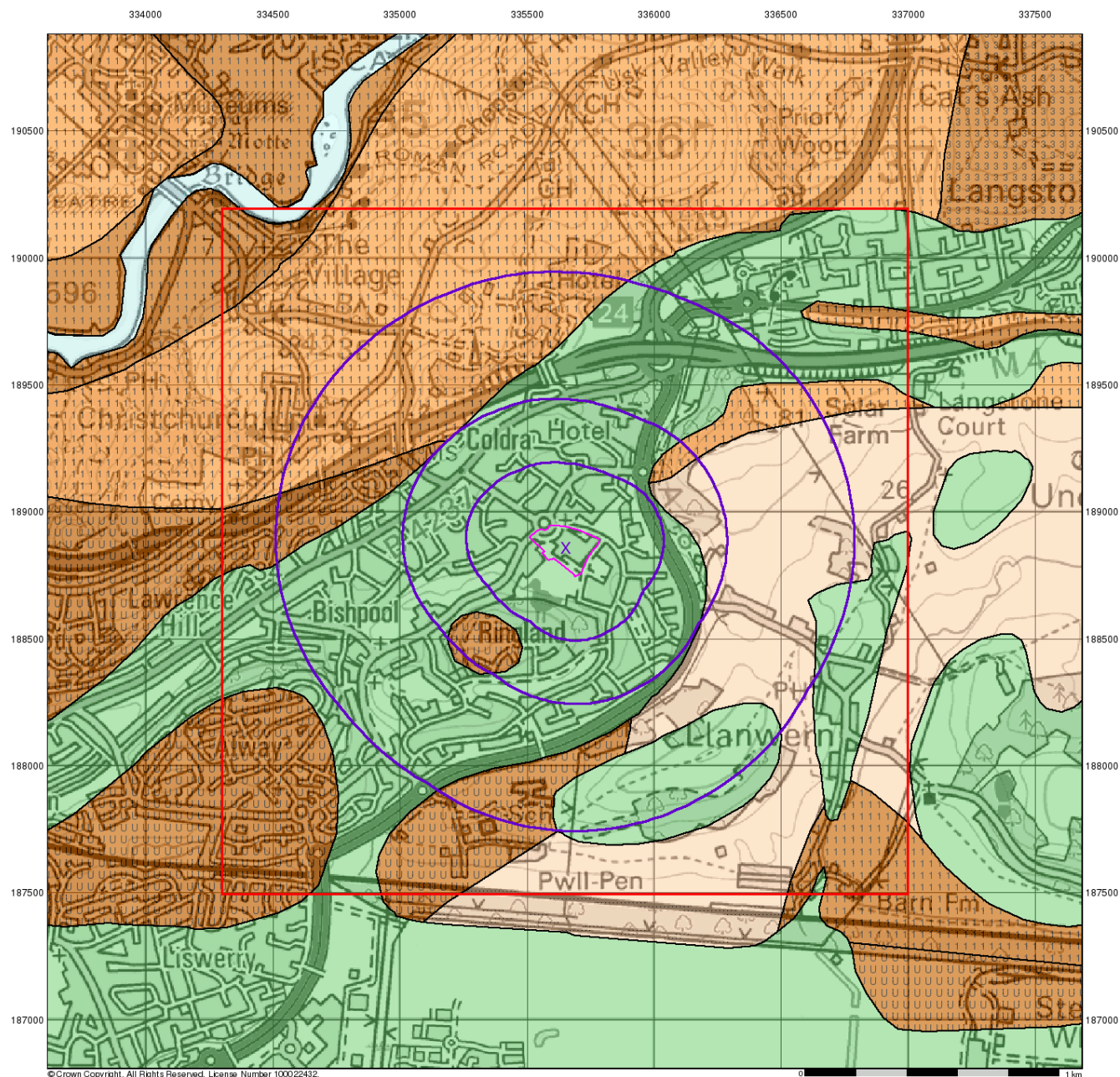
Order Details

Order Details: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG





Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

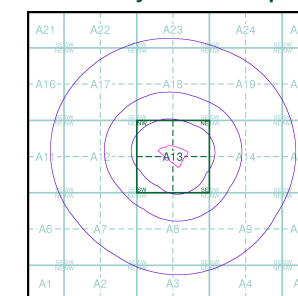
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

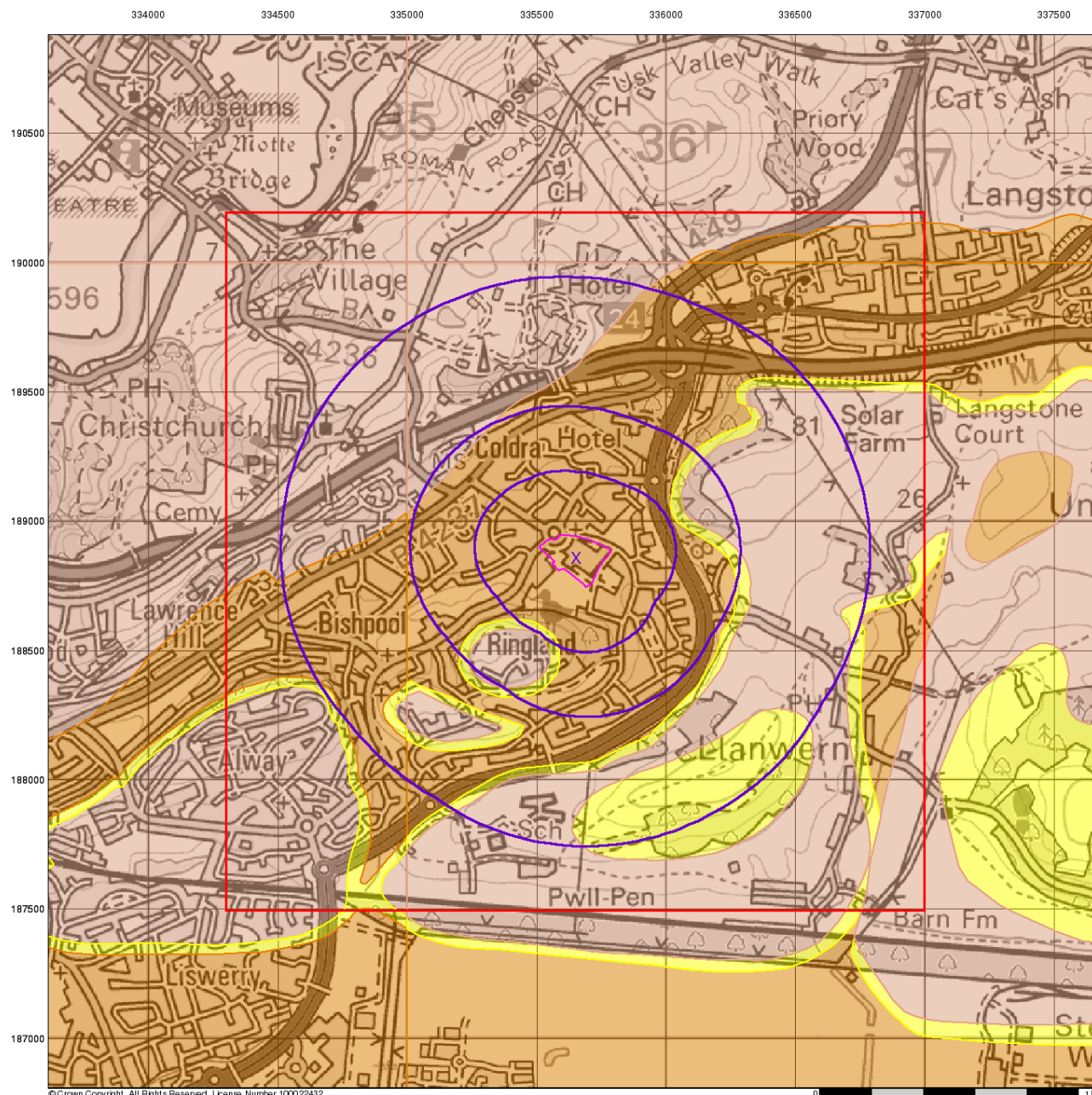
Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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



© Crown Copyright. All Rights Reserved. License Number 100022432.



Bedrock Aquifer Designation

General

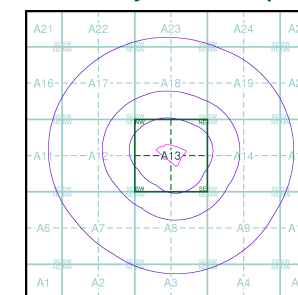
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

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

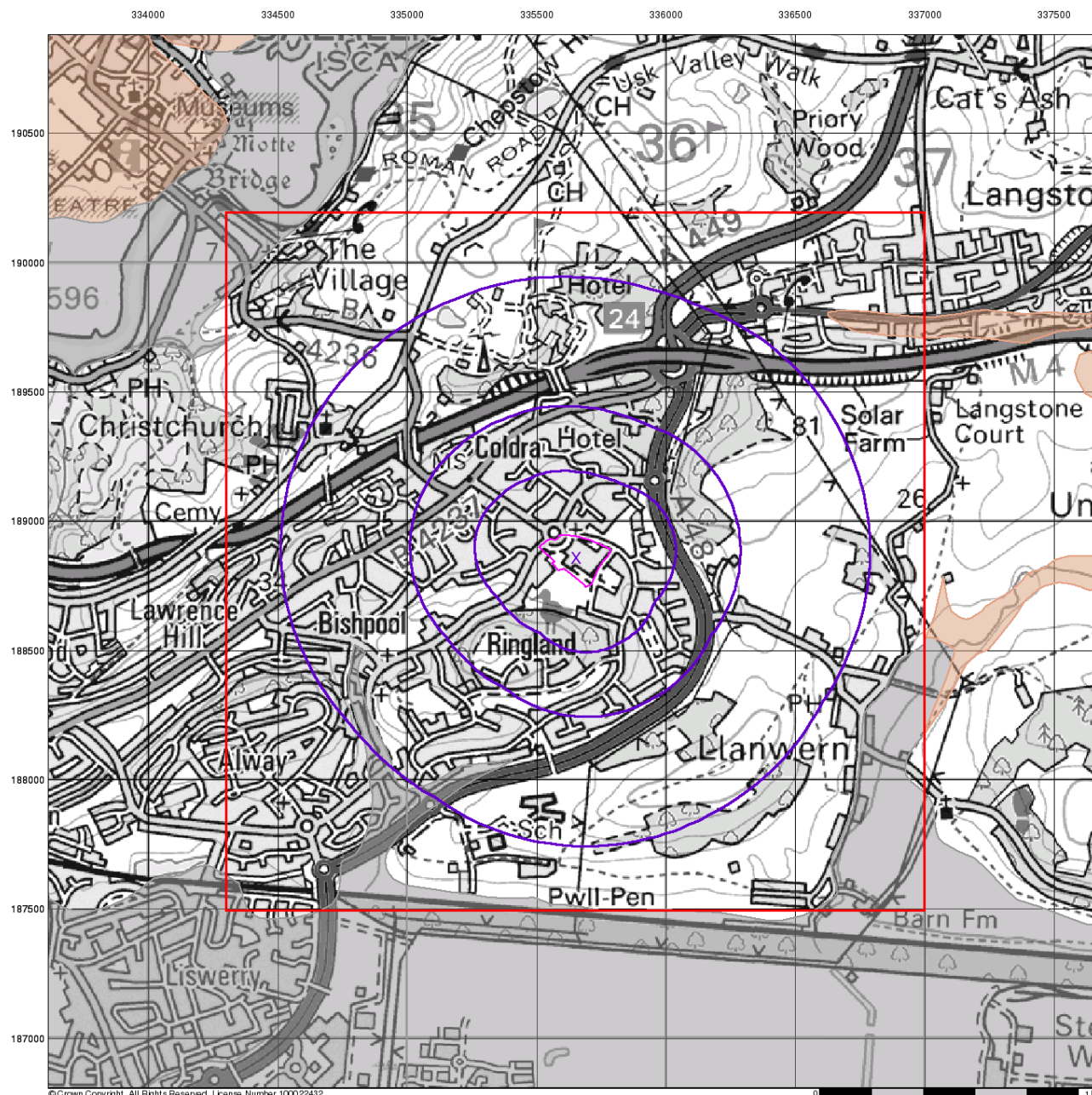
Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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



© Crown Copyright. All Rights Reserved. License Number 100022432.



Superficial Aquifer Designation

General

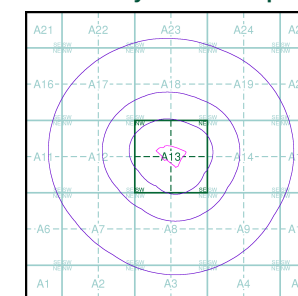
- ◊ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- B Map ID

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

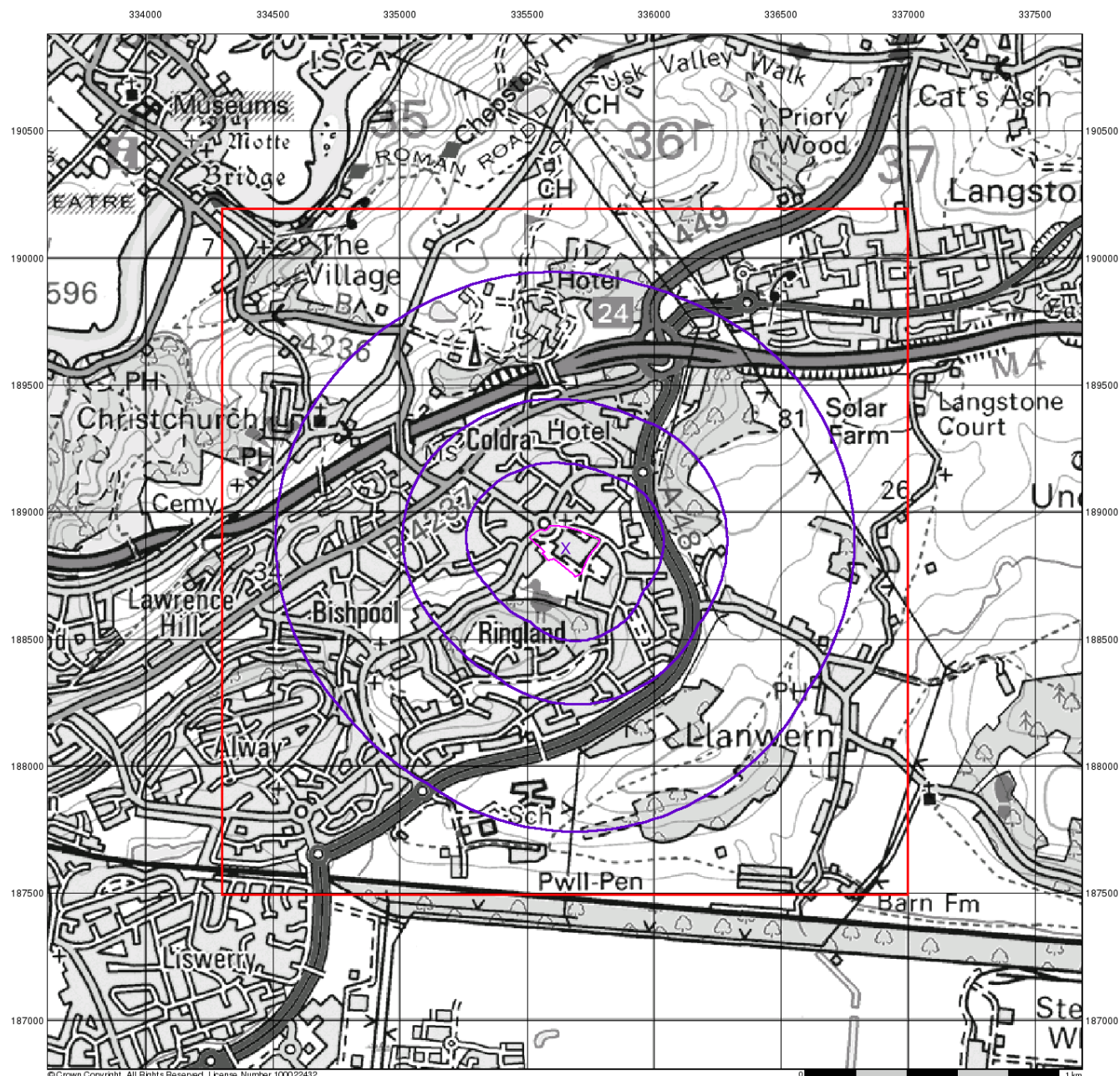
Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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



© Crown Copyright. All Rights Reserved. License Number 100022432.



Source Protection Zones

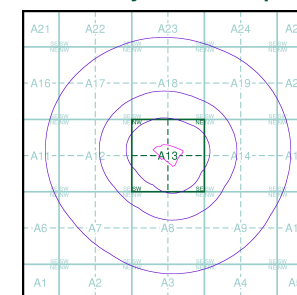
General

- 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

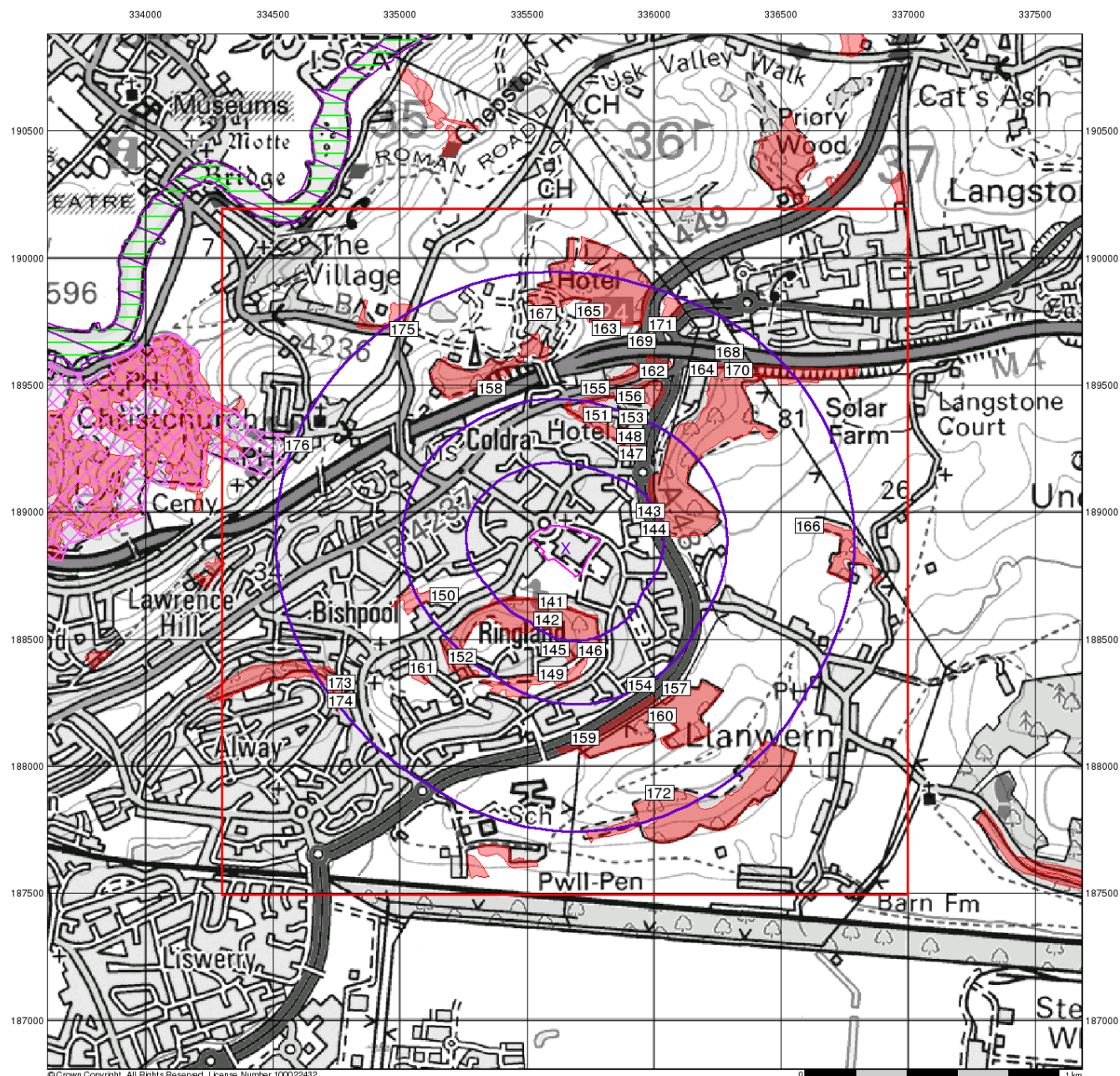
Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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



© Crown Copyright. All Rights Reserved. License Number 100022432.

0 1 km



Sensitive Land Uses

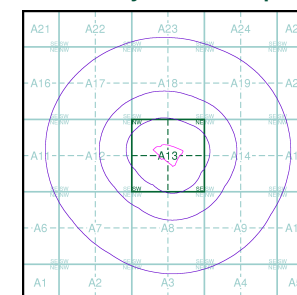
General

- 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

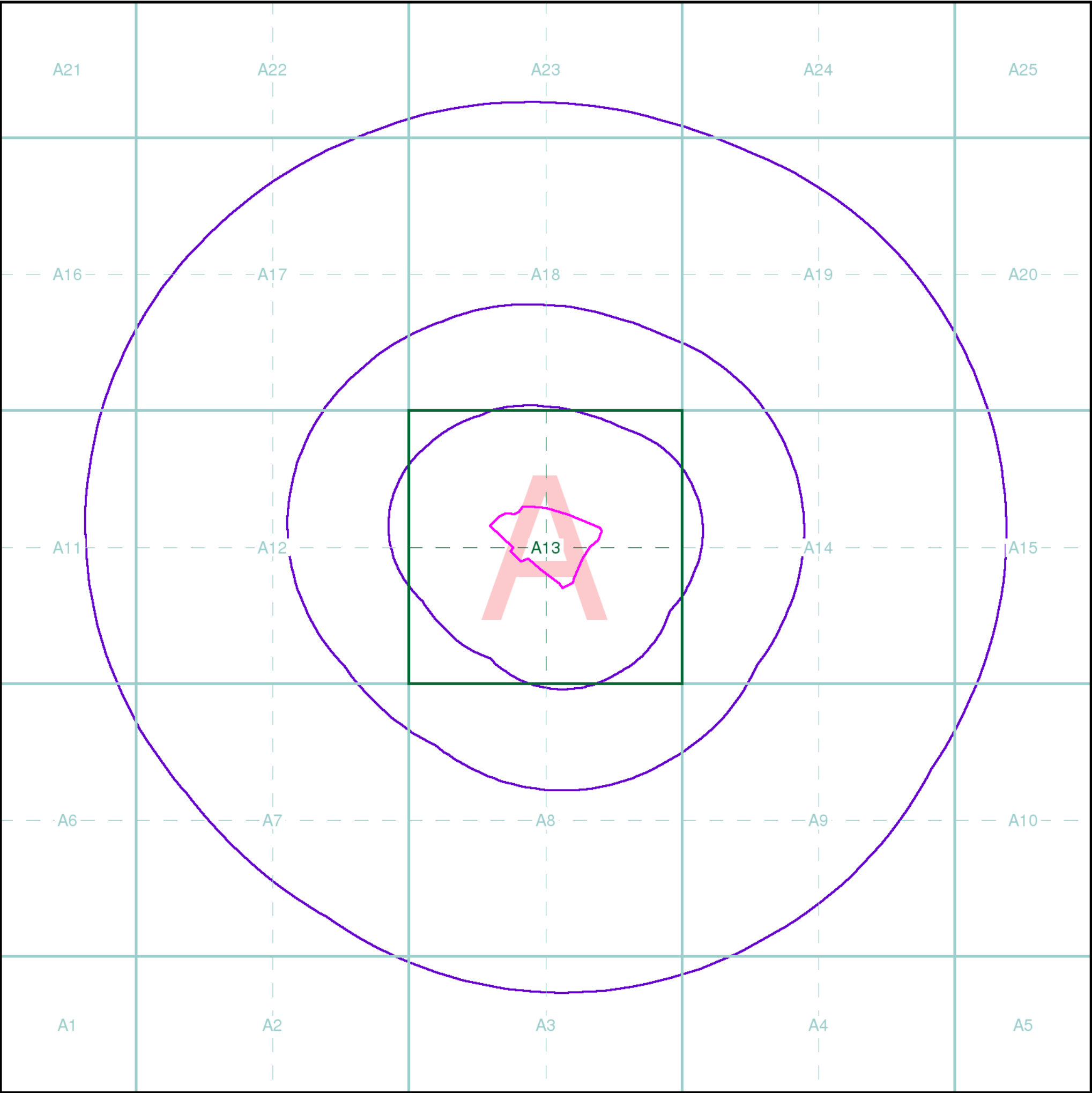
Order Number: 186850305_1_1
 Customer Ref: B065384
 National Grid Reference: 335650, 188860
 Slice: A
 Site Area (Ha): 3.09
 Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

Landmark
 INFORMATION GROUP

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



Index Map

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

Slice

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

Segment

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

Quadrant

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

A selection of organisations who provide data within this report:



Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr G Behrens, Curtins Consulting Ltd, Quayside, 40-58 Hotwell Road, Bristol, BS8 4UQ

Order Details

Order Number: 186850305_1_1
Customer Ref: B065384
National Grid Reference: 335660, 188860
Site Area (Ha): 3.09
Search Buffer (m): 1000

Site Details

Ringland Centre, NEWPORT, NP19 9HG

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

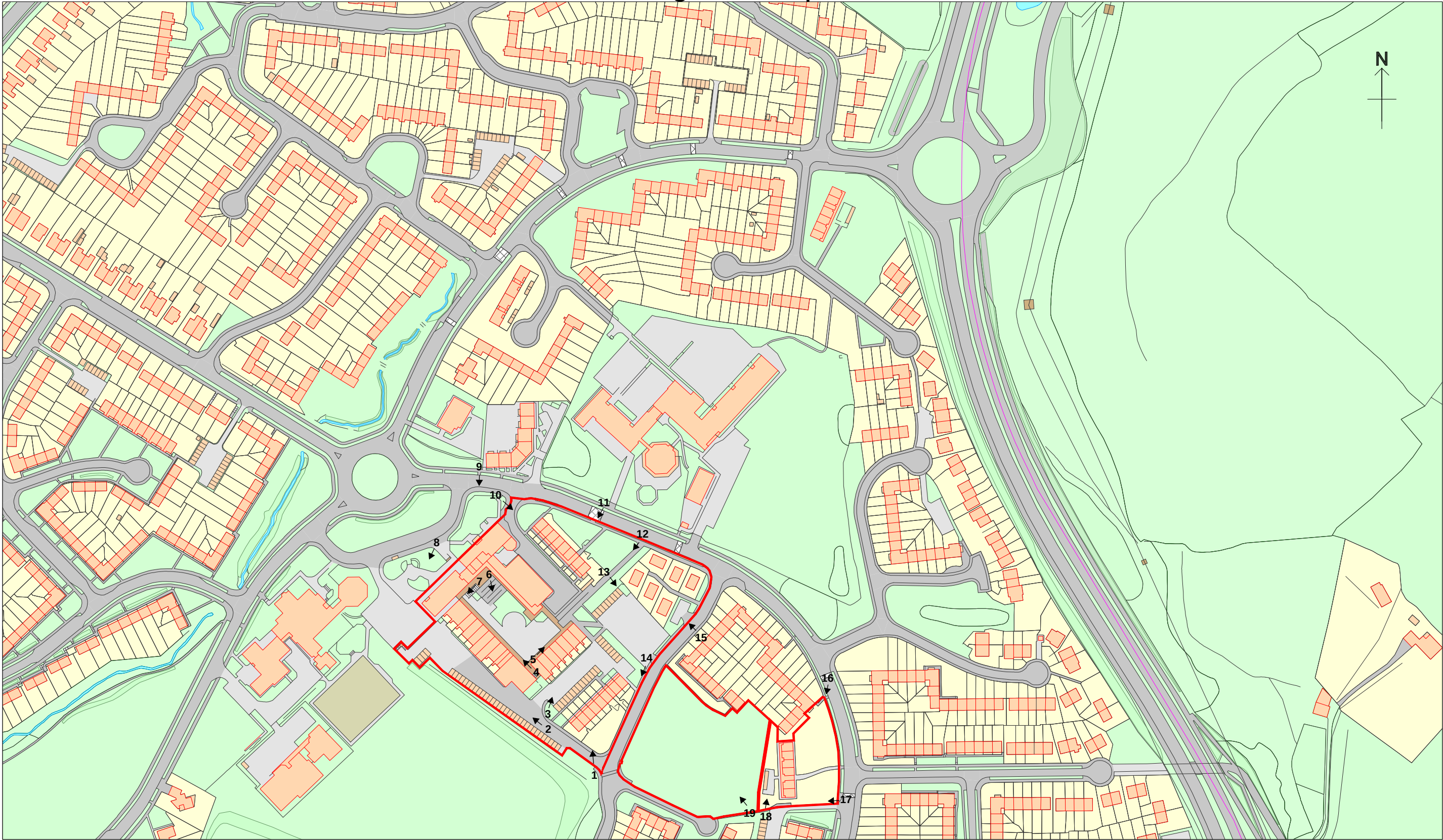


Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

Appendix C – Site Walkover Photographs and Key to Photograph Locations

- Curtins drawing B065384.000-CUR-00-XX-DR-GE-001-V01_Key to Site Walkover Photograph Locations
- Photographs Keyed to Site Walkover Photograph Locations Map

Ringland Map



Sterling Court
Norton Road
Stevenage
Herts SG1 2JY
UK

Tel : +44 (0)1438 747996
Fax : +44 (0)1438 747997
E-mail: info@cadcorp.com



B065384.000-CUR-00-XX-DR-GE-001-V01
Key to Site Walkover Photograph Locations

This material has been reproduced from
Ordnance Survey digital map data with
the permission of the Controller of
Her Majesty's Stationery Office.
© Crown copyright.
Licence Number: nnnnn



Operator:	xxxxxx
Department:	xxxxxx
Drawing No:	xxxxxx
Date: 22/06/2016	Scale: 1:2500



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6



Photo 7



Photo 8



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14



Photo 15



Photo 16



Photo 17



Photo 18



Photo 19

Appendix D – Qualitative Risk Assessment Rationale

The site-specific risk assessment, presented in this report, follows the principle of establishing whether there is a viable linkage between a contaminant source to a potential receptor, via an exposure pathway.

The risk assessment corresponds with the total site area and incorporates both descriptive (qualitative) and, where available, numerical (quantitative) lines of evidence.

Risk assessment is the process of collating known information on a hazard or set of hazards in order to estimate actual or potential risk to receptors. The receptor may be humans, a water resource, a sensitive local ecosystem or future construction materials. Receptors can be connected to the source by one or several exposure pathways such as direct contact for example. Risks are generally managed by isolating the receptor or intercepting the exposure pathway or by isolating or removing the hazard.

Without the three essential components of a source, pathway and receptor there can be no risk. Therefore, the presence of contaminant source on a site does not necessarily mean there is a risk.

The risk assessment considers the likelihood of a particular event taking place (accounting for the presence of the source and receptor and the viability of the exposure pathway) in conjunction with the severity of the potential consequence (accounting for the potential severity of the hazard and the sensitivity of the receptor).

In the risk assessment the consequence of the hazard has been classified as severe or medium or mild or minor and the probability (likelihood) of the circumstances actually occurring classified as high likelihood or likely or low likelihood or unlikely.

The consequences and probabilities are subsequently cross-correlated to give a qualitative estimation of the risk using Department of the Environment risk classifications as detailed in the table below and as referenced in CIRIA C552.

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

Phase 1 Preliminary Site Assessment

In accordance with DoE guidance, the following categorisation of **consequence** has been developed.

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health likely to result in "significant harm" as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to a particular ecosystem or organisation forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health. Pollution of sensitive water resources. A significant change in a particular ecosystem or organism forming part of such ecosystem.	Concentration of a contaminant from site exceeds the generic or site-specific assessment criteria. Leaching of contaminants from a site to a Principal or Secondary A aquifer. Death of a species within a designated nature reserve. Lesser toxic and asphyxiate effects
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater (inc. Secondary B aquifers). Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

In accordance with DoE guidance, the following categorisation of **probability** has been developed.

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage but circumstances are such that it is improbable that an event would occur even in the very long term.

In accordance with DoE guidance, the following categorisation of **risk** has been developed.

Classification	Definition
Very High Risk	There is a <i>high probability</i> that <i>severe harm</i> could arise to a designated receptor from an identified hazard at the site without appropriate further action.
High Risk	<i>Harm is likely to arise</i> to a designated receptor from an identified hazard at the site without appropriate further action.
Moderate Risk	<i>It is possible</i> that without appropriate further action <i>harm could arise</i> to a designated receptor. It is relatively <i>unlikely</i> that any such harm would be <i>severe</i> , and if any harm were to occur it is <i>more likely</i> that such harm would be <i>relatively mild</i> .
Low Risk	<i>It is possible</i> that <i>harm could arise</i> to a designated receptor from an identified hazard. It is <i>likely</i> that, at worst, if any harm was realised any effects would be <i>mild</i> .
Very Low Risk	The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

The term 'risk' in this instance refers to the risk that the source, pathway, receptor linkage for a given source of contamination is complete. It does not refer to immediate risk to individuals or features present on the site from potential contaminants and is intended to be used as a tool to assess the necessity of further investigation.

Our Locations

Birmingham

2 The Wharf
Bridge Street
Birmingham
B1 2JS
T. 0121 643 4694
birmingham@curtins.com

Bristol

Quayside
40-58 Hotwell Road
Bristol
BS8 4UQ
T. 0117 302 7560
bristol@curtins.com

Cardiff

3 Cwrt-y-Parc
Earlswood Road
Cardiff
CF14 5GH
T. 029 2068 0900
cardiff@curtins.com

Douglas

Varley House
29-31 Duke Street
Douglas
Isle of Man
IM1 2AZ
T. 01624 624 585
douglas@curtins.com

Dublin

39 Fitzwilliam Square
Dublin 2
Ireland
T. 00353 1 507 9447
dublin@curtins.com

Edinburgh

1a Belford Road
Edinburgh
EH4 3BL
T. 0131 225 2175
edinburgh@curtins.com

Glasgow

Queens House
29 St Vincent Place
Glasgow
G1 2DT
T. 0141 319 8777
glasgow@curtins.com

Kendal

28 Lowther Street
Kendal
Cumbria
LA9 4DH
T. 01539 724 823
kendal@curtins.com

Leeds

Rose Wharf
Ground Floor
Leeds
L29 8EE
T. 0113 274 8509
leeds@curtins.com

Liverpool

51-55 Tithebarn Street
Liverpool
L2 2SB
T. 0151 726 2000
liverpool@curtins.com

London

40 Compton Street
London
EC1V 0BD
T. 020 7324 2240
london@curtins.com

Manchester

Merchant Exchange
17-19 Whitworth Street West
Manchester
M1 5WG
T. 0161 236 2394
manchester@curtins.com

Nottingham

56 The Ropewalk
Nottingham
NG1 5DW
T. 0115 941 5551
nottingham@curtins.com