



P3Eco Ltd

P3Eco (Bicester) Ltd and A2Dominion Group

NW Bicester Eco Development

DESK STUDY - Masterplan Site

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## EXECUTIVE SUMMARY

<b>Site Location</b>	The town of Bicester lies approximately 24km to the north east of Oxford and 28km to the south east of Banbury. The M40 motorway lies 2km to the south west, with ready access to the town from Junction 9. The south-east of the proposed NW Bicester eco development Site terminates against the outer limits of Bicester at the A4095; while to the north-west and north-east lie the villages of Bucknell and Caversfield.
<b>Current Site Use</b>	The Site is predominantly used for agriculture, with the land having an agricultural land value Grade of 3 (good to moderate quality). The principal land uses on Site are for arable cropping and rotational grassland. On the eastern Site boundary, there is a small business park and a police transport base.
<b>Site and Surrounding Area History</b>	<p>Since the earliest available historical map of 1881, the Site has been dominated by agriculture. The only major change from 1881 to the present day was the construction of the NW to SE trending Great Western Railway in 1910, through the centre of the Site. Since then, there has been no significant change in land use.</p> <p>Meanwhile, the town of Bicester expanded outwards from a small centre 1.5km SE of the Site in 1881, to bordering the eastern Site boundary at the present day. The expansion has been overwhelmingly residential and there has been no industrial activity in proximity to the Site.</p>
<b>Environmental Setting</b>	<p>The landscape character of the Site is defined by its gently falling topography from the north-west to south-east. There are three streams on Site; two minor, unnamed streams (flowing in a NW to SE direction), which feed the N to S flowing River Bure in the north-eastern corner of the Site.</p> <p>Geologically, the Site is underlain by a thin cover of superficial deposits, before the solid geology is encountered. At rock head, this is represented by the Cornbrash Formation, which primarily comprises bioclastic limestone. This is underlain by the Forest Marble Formation, which comprises grey calcareous mudstone with lenticular beds of bioclastic limestone. Deeper (older) geological units are not represented in outcrop on Site.</p>
<b>Conceptual Site Model</b>	Possible contaminants relate to agricultural chemicals and fuels as well as rail-derived contaminants. A former small landfill has also been identified in the east of the Site at the location of the business park; however information available suggests this was filled with inert material. Likewise, small offsite quarries identified within the Envirocheck Report appear to have been infilled and now contain trees/other vegetation.
<b>Qualitative Risk Assessment</b>	If contamination is present on Site, it is not expected to be widespread or significant; therefore the qualitative risks to humans and groundwater are, at this stage, considered to be low. However, the risk to surface water due to agricultural chemical runoff (particularly nitrates) is considered to be moderate to high (as the Site is within a Nitrate Vulnerable Zone). Additionally, basic radon protection measures will be required for new dwellings and extensions.
<b>Geotechnical Considerations</b>	Bedrock is expected to be close to the surface, which should prove to be an adequate founding material. However, the limestone may be affected by dissolution features, although there is no evidence of this from the (limited) borehole logs obtained for the Site.
<b>Recommendations</b>	A targeted, intrusive ground investigation is recommended in order to confirm or refute the environmental and geotechnical conclusions presented in this report. This will increase confidence in our understanding of the nature of the Site and any possible constraints to the future development of the eco development.

# 1 INTRODUCTION

## 1.1 Terms of Reference

Hyder Consulting (UK) Ltd. (Hyder) has been instructed by P3Eco Ltd. (P3Eco) and A2Dominion Group Ltd. (A2Dominion) to undertake a Desk Study for a proposed new eco development on the north-western periphery of the town of Bicester, Oxfordshire. The study has been undertaken to assess the potential Geo-Environmental and Geotechnical risks in relation to the proposed development of the Masterplan Site.

## 1.2 Scope of Works

The purpose of this report is to identify the environmental, geological, hydrogeological and hydrological conditions present at the Site, and together with knowledge of the historic land use, develop an understanding of any potential contamination risks that might arise from current or potential future use of the Site. This report also lists the potential Geotechnical constraints to the proposed development which warrant consideration.

## 1.3 Sources of Information

Public register information relating to the Site and the surrounding area has been obtained mainly from the Landmark Information Group Ltd. Envirocheck Report, a copy of which is included in Appendices A and B of this report. A drawing entitled “Envirocheck Information” is also included within Appendix A, which shows information relevant to the Site, in a concise manner. The references assigned to each symbol match those in the Envirocheck Datasheets.

Reference is also made where applicable to a draft concept study report produced by Halcrow in February 2009 (Ref. 1) and “a vision for the future of Bicester” report prepared by Farrels in June 2009 (Ref. 2).

## 1.4 Basis of Environmental Risk Assessment

This environmental assessment has been undertaken with due regard to Contaminated Land Guidance Documents issued by the Department of the Environment Food and Rural Affairs (DEFRA). The Guidance requires a risk-based approach, with the potential environmental risk assessed qualitatively; using the ‘source-pathway-target’ pollutant linkage concept contained in Part IIA of the Environment Protection Act (Ref. 3).

Specific comment is made regarding the Site’s status in the Contaminated Land Regime implemented on 1st April 2000 as Part IIA of the Environmental Protection Act 1990 (as amended), and the actual or potential designation of the Site as ‘Contaminated Land’ as defined in section 78A(2) of the Act. Unless specifically stated as relating to this definition, references to ‘contamination’ and ‘contaminants’ relate in general terms to the presence of potentially hazardous substances, in, on, or under the Site.

References to risk classifications are made according to the definitions negligible to very high, which are described in Appendix C.

## 1.5 Limitations and Expectations

This report has been compiled from a number of sources, including historical maps and records from regulatory and statutory bodies procured through the Landmark Information Group Ltd., Envirocheck Report, which Hyder believes to be trustworthy. However, Hyder is unable to guarantee the accuracy of information provided by others. The report is based on information available at the time, and as such, the potential exists for further information to become available, which may change this report's conclusion and for which Hyder cannot be responsible.



## 2 SITE SETTING

### 2.1 Location

The town of Bicester lies approximately 24km to the north east of Oxford and 28km to the south east of Banbury. The M40 motorway lies 2km to the south west, with ready access to the town from Junction 9.

The proposed eco development Site will comprise approximately 5,000 homes with supporting employment and education infrastructure, and will be situated on the north-western periphery of Bicester, beyond the A4095 (which forms part of the Bicester Ring Road), approximately 1.5km from the town centre. The Site covers an area of approximately 416ha and at present, comprises Grade 3 agricultural land with a number of farmhouses and other buildings, as well as a small commercial area on the western side of Howes Lane (A4095). Immediately beyond the Site to the north-west is the village of Bucknell, with Caversfield located on the north-eastern Site boundary, beyond the B4100 highway.

The location of the Site is presented in Figure 1. At the time of writing, a definitive Site layout plan is not available; therefore a drawing is not included.

### 2.2 Topography

The 1:25,000 scale Ordnance Survey map of the area shows that the topography of the Site falls gently by approximately 10m from the north-western boundary to the south-eastern boundary (from ~95m AOD to ~85m AOD). This topography is typical of the gently rolling nature of this part of Oxfordshire.

### 2.3 Site Description

A Site walkover survey was undertaken by two Hyder Geotechnical and Geo-Environmental Engineers between 30<sup>th</sup> June and 2<sup>nd</sup> July 2010. The aim of the survey was to attempt to identify and target potential Site constraints to the development that may not have been apparent from the desktop study review of available documents alone.

The agricultural land value is Grade 3 (good to moderate quality). As characterised by Grade 3 land, the principal land uses on Site are for arable cropping and rotational grassland, e.g. cereals or as grass leys for dairy cows, beef and sheep. Fields are bounded either by post and wire fences or by dense hedges with some large trees. Most fields were surrounded by drainage ditches approximately 0.5m to 0.75m deep, though all were dry at the time of the Site walkover.

Existing buildings within the Site boundary include those at Himley Farm, Aldershot Farm and Gowell Farm, located to the south of the railway line, and Hawkwell Farm, Lord's Farm and Home Farm located to the north. Home Farm and Himley Farm contain Grade II Listed Buildings.

The Site is dissected through its centre by the north-west to south-east trending Birmingham Snow Hill to London Marylebone railway, with the Bucknell/Bicester Road running roughly parallel to its east. In the north-west of the Site, the railway lies in a cutting, which rises to an embankment of around 5 metres height in the south-east.

The employment land on the western side of Howes Lane comprises a Thames Valley Police Traffic Base and the Avonbury Business Park, with a range of small business units.

A small number of photographs from the Site walkover survey are included in Appendix D for reference.

## 2.4 Surrounding Land Uses

For the purposes of this report, the Masterplan Site comprises the area contained within the pink line shown in Figure 1.

The surrounding land uses are predominantly residential to the south-east within Bicester town, while agricultural land dominates in all other directions.

The current surrounding land uses are summarised in Table 2.1 below.

**Table 2.1: Surrounding Land Uses**

Direction	Location	Land Use	Comments
North, north-west and west	Adjacent	Agricultural land/some woodland and hedgerows	Land dominated by fields and associated farms
South	Adjacent and beyond	B4030 highway and Bignell Park (woodland and mainly open, undeveloped land)	Bignell Park is a privately-owned estate with hotel and grounds
East and south-east	Adjacent and beyond	A4095 ring road with the town of Bicester on its eastern side	Area dominated by the residential properties of north-west Bicester
North-west	Approximately 800m from Site boundary	Small village of Bicknell	None
North-east	Adjacent	Small village of Caversfield beyond B4100 highway	None

## 2.5 Unexploded Ordnance

Information pertaining to the risk of unexploded ordnance for the Site has been obtained from Zetica. Their 'Regional Unexploded Bomb Risk Map' indicates that the Site is located within an area of 'low risk'. Low risk regions are those with a bombing density of up to 10 bombs per 1,000 acres (See datasheet in Appendix E). The "Density of Bombs per Borough" table records 0 for both high explosive and anti-personnel ordnance and 4 for incendiary devices.

## 3 ENVIRONMENTAL SETTING

### 3.1 Hydrology

There are three main watercourses on Site; two streams flow in a north-westerly to south-easterly direction through the centre and northern parts of the Site, with both discharging into a third stream (the River Bure) in the centre and north-east of the Site area. The River Bure flows off-Site in a roughly north-easterly to south-westerly direction.

The principal drainage direction on Site is likely to follow the topography and dip of the underlying geology, which very gently slopes to the south-east.

### 3.2 Geology

The following section contains extracts and information obtained from the 1:50,000 scale British Geological Survey (BGS) Map of Buckingham (Ref. 4), BGS borehole logs from holes drilled on and near to the Site (Appendix F) and from a BGS detailed Geological Assessment of the Site area (also contained within Appendix F). Refer to the drawing entitled “Envirocheck Information” in Appendix A for a location plan of the BGS boreholes and their corresponding reference numbers.

#### 3.2.1 Superficial Deposits

Late Quaternary age superficial deposits of Alluvium flank the three streams in narrow tracts, typically some 20m wide (locally up to 80m wide) and some 1m to 3m in thickness. The Alluvium typically comprises sandy, calcareous clay overlying gravelly clay with limestone clasts and may locally include highly compressible, organic-rich (peaty) layers.

Head deposits may be present near the streams where the erosive action of the water has carved small valleys. These deposits are formed by soil creep or hill wash and their composition reflects that of the local materials from which they were derived, either the bedrock or other types of superficial deposits (or both). They are typically poorly stratified and poorly sorted and are not expected to be present in thicknesses much greater than 1m.

Beneath the topsoil, the remainder of the Site has only a thin cover (approximately 1m) of superficial deposits, mainly derived from the partial to complete weathering of the underlying solid geology.

#### 3.2.2 Solid Geology

The landscape of the Site follows the underlying geology, which dips in a south-easterly direction at a very gentle  $\sim 0.7^\circ$ . The Site area is underlain at rockhead by various formations and members of the Great Oolite Group, of Mid-Jurassic age, which are dominated by limestones with subordinate mudstone beds.

There are no geological faults shown on Site; however some minor faults have been mapped to the north-east of Bucknell village, with ground displacements of up to some 5m. Faults are planes of movement, along which, adjacent blocks of rock strata have moved relative to each other. They commonly consist of zones, perhaps up to several tens of metres wide, containing several to many fractures. The portrayal of such faults as a single line on the geological map is therefore a generalisation. The geological faults in the Bicester area are ancient in origin and

are today mainly inactive, therefore are not thought to present a threat to the proposed development.

### Sequence of Strata

The Cornbrash Formation (CB) is the youngest bedrock unit represented and dominates the outcrop within the Site area. It comprises approximately 5m of thick grey to brown, bioclastic, rubbly-bedded limestone with thin subordinate beds of grey mudstone.

The older, underlying Forest Marble Formation (FMB) is exposed as a narrow outcrop on the flanks of the three stream valleys where the Cornbrash Formation has been eroded. The FMB comprises approximately 5m to 10m of grey calcareous mudstone with lenticular beds of bioclastic, ooidal limestone (particularly common at the base).

Although not represented in outcrop on Site, the FMB is underlain at an erosive contact by the White Limestone Formation (WHL), which crops approximately 2km to the north-west. The WHL comprises up to 25m of white to yellow, bedded, peloidal and bioclastic limestone (see Additional Geological Considerations below).

The White Limestone Formation is underlain by four further formations of the Great Oolite Group: in ascending order the Horsehay Sand, the mudstone-dominated Sharp's Hill, the Taynton Limestone and the mudstone-dominated Rutland formations, totalling approximately 20m in thickness. These are then underlain by 2m to 6m of the ferruginous sandstones of the Northampton Sand Formation before the 100m+ of the mudstone-dominated Lias Group is encountered.

The geological ground profile for the Site is expected to be confirmed in more detail following completion of an initial ground investigation.

## 3.3 Hydrogeology

With the exception of the Forest Marble Formation cropping out in the floors and sides of the valleys, the whole of the Site area is underlain by the Cornbrash Formation. This is a local aquifer and water strikes have been recorded in shallow boreholes drilled within the Site area (Appendix F). The standing water levels are generally between 0.5m and 4.0m below the ground surface.

The Forest Marble Formation may hold small quantities of water in any limestone bands present, but the upper part generally acts as an aquiclude, i.e. an essentially impermeable barrier between the Cornbrash Formation and the underlying White Limestone Formation. None of the boreholes drilled through the Forest Marble Formation in the Site area recorded water strikes within this Formation.

The White Limestone Formation constitutes a major aquifer in the area, which provides some sources of public supply. There are several boreholes in the wider area, some within the Site area, that penetrate this formation:

- A 34m deep borehole at Gowell Farm (SP52/19 at SP 5709 2384), drilled pre-1909 to supply Bicester with water. This penetrated the complete 25m thickness of the White Limestone Formation, underlying about 7.2m of Forest Marble Formation and terminating in the underlying Rutland Formation. Water was struck at 28m and 32m below the ground level in the White Limestone Formation. The rest water level rose to

the surface after the first strike, and was artesian, with a rest water level about 1m above ground level (about 88m AOD) after the second strike. The yield was over 7 l/s.

- An 80 m deep borehole at Lords Farm (SP52/18 at SP 5746 2424), drilled in 1941, was drilled through a similar sequence and terminated in the Lias. It struck water in the Cornbrash Formation, which was cased out, and at two levels below the White Limestone Formation. The rest water level was at 11m below ground level (about 68m AOD) and it yielded 1.7 l/s.

Other records of water levels at Lords Farm (SP52/17A, B and C at about SP 569 245) show that the water level was at approximately 3.6m of ground level (about 76m AOD).

In addition to the available geological information, the Environment Agency (EA) Groundwater Vulnerability Map on the EA website (Ref. 5) has been reviewed to determine the vulnerability of the groundwater underlying the Site with the following conclusions:

- The superficial deposits are not classified as an aquifer. The underlying Cornbrash Formation is classified as a Secondary 'A' Aquifer, which comprises "permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers."

This designation corresponds with the geological interpretation given above.

There are insufficient data to determine a groundwater flow direction, but locally it will probably be towards the nearest stream and regionally, down-dip towards the south-east.

### 3.3.1 Groundwater Source Protection Zones

The Environment Agency (EA) has defined Source Protection Zones (SPZs) for groundwater sources such as wells, boreholes and springs used for public drinking water supply. The SPZs show the risk of contamination from any activities that might cause pollution in the area.

Source protection zones are defined as follows:

A Source Protection Zone III is the total area needed to support removal of water from a borehole, and to support any discharge from the protected borehole/well/spring used for public drinking water supply.

A Source Protection Zone II (outer protection zone) covers pollution that takes up to 400 days to travel to the abstraction point, or 25% of the total catchment area – whichever area is the biggest.

A Source Protection Zone I (inner protection zone) defines an area where pollution can travel from the source to the extraction point within 50 days. A Source Protection Zone I also has a minimum 50m protection radius around a public supply borehole.

According to the EA website (Ref. 5), the Site does not lie within a SPZ.

## 3.4 Flooding

According to the Environment Agency Flood Maps included within the Envirocheck Report (Appendix A), the Site does not generally lie within a zone susceptible to flooding; however, the River Bure that flows off-Site in a roughly north-easterly to south-westerly direction is shown to

present a risk of “Flooding from Rivers or Sea without Defences (Zone 3)” to an area confined to the stream’s valley (i.e. its natural floodplain).

Note that EA flood maps are based upon coarse DTM and JFLOW modelling and are not considered suitable to delineate the flood plain to support a planning application. Note also that the two, north-west to south-east flowing streams that discharge to the River Bure, have not been modelled by the EA, as they are too small. As such, a separate, Site-specific hydraulic model should be developed in order to confirm the flood plain extents across the Site.

## 3.5 Drainage Soakaways

As part of the development, the suitability of the ground for accepting soakaways for surface water drainage will need to be considered. Based on the available documented evidence on the geology and visual evidence from the Site walkover (where the superficial deposits were typically loamy and all field drainage ditches and the northernmost of the two streams that feed the Bure River were dry), it is considered at this stage that the ground will likely be suitable for some form of soakaway. This assumption should be proved or disproved during an intrusive ground investigation.

## 3.6 Cemeteries

A Tier 1 hydrological risk assessment of land being considered for development as a new cemetery was undertaken for the Site area in 2008 by Peter Mitchell Associates, on behalf of TurfTrax Ground Management Systems Ltd. (Appendix G). A brief summary on the preliminary Risk Rating (prior to an intrusive ground investigation) in the report is as follows:

“The vulnerability ranking assigned to this site is ‘Moderate’, and the numbers of anticipated annual burials gives a Risk Rating of ‘High’. The site characteristics that raised the vulnerability score were:

- Absence of superficial deposits
- High water table
- Aquifer – the area is underlain by a minor aquifer”

## 3.7 Archaeology and Heritage

There are no archaeological constraints highlighted from the Envirocheck Report and Historical Maps, however this information is not exhaustive and it is required that a County Archaeologist completes a field evaluation prior to the determination of any planning application.

Home Farm and Himley Farm are listed buildings that reside within the Site and the Church of St Lawrence in Caversfield, adjacent to the Site, is a Grade II\* listed building. In all cases, sympathetic design will be a priority for developments in close proximity to these buildings.

## 3.8 Other Considerations

Four mobile telecommunications masts were identified within land belonging to Messrs. Malins. It is presumed that these are permanent features and any future development would need to be worked around them.

Overhead 33kv electrical cables enter the Site area in the south-eastern corner, before forming a junction near the south-western corner, with one branch continuing off-Site to the west and another branch continuing through the Site in a north-easterly direction, before exiting just north of Bucknell Road. Safe clearances must be maintained from buildings constructed under or adjacent to overhead lines. Safe clearances must also be maintained for trees and structures such as street lighting.

Former quarries and other former mineral sites as noted in the Envirocheck Report were investigated; however these appear to have been re-vegetated by now, with the extracted material presumably used in nearby buildings and stone walls.

## 4 HISTORICAL INFORMATION

### 4.1 Historical Mapping

Historical Ordnance Survey maps, included as part of the Envirocheck Report have been obtained for the NW Bicester eco development Site, with significant observations summarised in Table 4.1.

The historical Ordnance Survey maps are included for reference within Appendix B.



**Table 4.1: Historical Mapping Summary**

Map Date	Map Scale	Site Land Use	Surrounding Area Land Use
1881	1:2,500	The Site is occupied by agricultural land, with seven farms/small holdings, and various connecting access tracks. The Site is dissected through its centre by the north-west to south-east trending Bucknell/Bicester Road	The centre of the village of Bucknell is shown 800m to the north-west of the Site boundary and the parish of Caversfield is shown on the north-eastern Site boundary. Bignell House is shown 600m south of the Site. All other surrounding land is agricultural/undeveloped land, containing some woodland and a number of streams and ditches
1884-1885	1:10,560	No significant change in land use of Site since 1881	No significant change in land use since 1881
1899	1:2,500	No significant change in land use of Site since 1881	Between 1881 and 1899, trees were introduced below the southern Site boundary, called the Bignell Belt, with Bignell Park now established in the grounds to the south
1900	1:10,560	No significant change in land use of Site since 1881	No significant change in land use since 1899
1922	1:2,500	The north-west to south-east trending Great Western Railway (Ashendon & Aynho branch) was constructed in 1910, which runs through the centre of the Site, (west and) parallel to the Bucknell/Bicester Road	The Great Western Railway (Ashendon & Aynho branch), constructed in 1910, services Bicester to the south. At this time Bicester is a small town, with its boundary located approximately 1.4km to the south-east
1923	1:10,560	A lime kiln and small quarry are shown on the Site's south-eastern boundary, adjacent to the railway line and Gowell Farm	The shallow bedrock in the area is suggested by three old off-Site quarries located between 700m and 1.2km south-east of the Site towards Bicester
1938	1:10,560	No significant change in land use of Site since 1910	Bicester is slowly expanding north-westwards
1952	1:10,560	No significant change in land use of Site since 1910	Continued small-scale expansion of Bicester
1955	1:10,000	No significant change in land use of Site since 1910	No significant change in land use since 1955
1966	1:10,000	No significant change in land use of Site since 1910	No significant change in land use since 1955
1967	1:1,250	No significant change in land use of Site since 1910	No significant change in land use since 1955
1970	1:10,000	The lime kiln and quarry shown on the Site's south-eastern boundary, adjacent to the railway line and Gowell Farm are no longer shown	Rapid and large scale expansion of Bicester has occurred to the north-west, towards the Site. The town boundary is now only 500m away from the Site. Caversfield has also expanded south-eastward by this time

**Table 4.1: Historical Mapping Summary (Contd.)**

Map Date	Map Scale	Site Land Use	Surrounding Area Land Use
1971	1:2,500	No significant change in land use of Site since 1970	On the southern side of the railway, Bicester town has now reached the Site boundary at the A4095 (Howes Lane)
1982	1:10,000	No significant change in land use of Site since 1970	No significant change in land use since 1971
1988	1:10,000	A depot is shown on the site of the old quarry on the Site's south-eastern boundary, adjacent to the railway line and Gowell Farm	Bicester has rapidly expanded to its north
1993	1:10,000	No significant change in land use of Site since 1988	The M40 motorway was opened in 1990. At its closest to the Site, the motorway lies 300m to the west of the south-western corner
1996	1:10,000	More structures (Thames Valley Police Traffic Base) are shown adjacent to the depot on the Site's south-eastern boundary	Further expansion of Bicester to its north
1999	1:10,000	No significant change in land use of Site since 1996	No significant change in land use since 1996
2006	1:10,000	The depot adjacent to the police base has been replaced by four new square structures and presumably now form the Avonbury Business Park, though this is not named on the historical maps	Bicester has now fully expanded to the north-west and has reached the A4095. The Site's south-eastern boundary is now fully bordered by Bicester beyond the A4095
2010	1:10,000	No significant change in land use of Site since 2006	No significant change in land use since 2006

## 5 REGULATORY INFORMATION

### 5.1 Envirocheck Report

Information on environmental data for the Site and general surrounding area (up to a 500m search distance from the Site boundary) has been obtained from the Envirocheck Report and from the UK Government's MAGIC website (Multi-Agency Geographic Information for the Countryside). The search findings are summarised in Table 5.1.

**Table 5.1: Summary of Findings from Envirocheck Report**

Environmental Factor	Distance to Closest Site Boundary				Details
	On Site	0-250m	251-500m	501-1000m	
Active Discharge Consents	3	0	1	0	All on Site consents relate to effluent discharges from farms to a surface water
Surface Water Abstractions	0	0	0	0	None recorded within 500m of Site
Groundwater Abstractions	3	0	0	0	All are registered to boreholes at Lord's Farm for general farming and domestic purposes. Two abstractions are shown on the map at Hawkwell Farm in the centre of the Site, but these are not recorded in the Envirocheck Datasheets. One water abstraction point was identified during the walkover in Lord's Farm between two mobile telecommunications masts (see Point B3 in the "Envirocheck Information" drawing in Appendix A).
Active Integrated Pollution Controls	0	0	0	0	None recorded within 500m of Site
Integrated Pollution Prevention and Control	0	0	0	0	None recorded within 500m of Site
Active Local Authority Pollution Prevention and Controls	0	1	0	0	There is one pending Air Pollution Control application for waste oil burners at Teslayne Engineering, Caversfield
Local Authority Pollution Prevention and Control Enforcements	0	0	0	0	None recorded within 500m of Site
Pollution Incidents to Controlled Waters	0	0	1	0	An incident occurred on an unknown property in Bicester town involving a general pollutant on the 16 <sup>th</sup> of December 1997. The incident was classified as "minor"
River Quality	0	0	0	0	No sampling points recorded within 500m of Site
River Quality Biological Sampling Points	0	0	0	0	No sampling points recorded within 500m of Site
River Quality Chemistry Sampling Points	0	0	0	0	No sampling points recorded within 500m of Site

**Table 5.1: Summary of Findings from Envirocheck Report (Contd.)**

Environmental Factor	Distance to Closest Site Boundary				Details
	On Site	0-250m	251-500m	501-1000m	
Substantiated Pollution Incident Register	0	0	0	0	No incidents recorded within 500m of Site
Water Industry Act Referrals	0	0	0	0	None recorded within 500m of Site
Historical Landfill Sites	1	0	0	0	<p>The land now occupied by the police base and other commercial units on the Avonbury Business Park is classified as a former landfill (Gowell Farm Landfill). Local Authority records contained within the Envirocheck Report state the deposited waste as being “ash, glass, brick, pottery”, which was likely used as fill for the old quarry on Site.</p> <p>Having visited the area, there is no evidence of a landfill having existed due to the development comprising hard standing and paving stones and there are no landfill gas vents visible.</p>
Licensed Waste Management Facilities (Locations)	0	0	0	0	None recorded within 500m of Site
Registered Active Landfill Sites	0	0	0	0	None recorded within 500m of Site
BGS Recorded Landfill Sites	0	0	0	0	None recorded within 500m of Site
Registered Waste Treatment or Disposal Sites	0	0	0	0	None recorded within 500m of Site
BGS Recorded Mineral Sites	2	2	0	0	All four recorded sites relate to opencast quarrying of limestone within the Cornbrash Formation. None of these were found during the Site walkover and have presumably been filled.
Natural and Mining Cavities	0	0	0	0	None recorded within 500m of Site
Shallow Mining Hazards	0	0	0	0	No history of mining within 500m of the Site - only quarrying has occurred
Control of Major Hazards Sites (COMAH)	0	0	0	0	None recorded within 500m of Site

**Table 5.1: Summary of Findings from Envirocheck Report (Contd.)**

Environmental Factor	Distance to Closest Site Boundary				Details
	On Site	0-250m	251-500m	501-1000m	
Notification of Installations Handling Hazardous Substances (NIHHS)	0	0	0	0	None recorded within 500m of Site
Planning Hazardous Substance Consents	0	0	0	0	None recorded within 500m of Site
Active Contemporary Trade Directory Entries	7	1	0	0	From the Site walkover undertaken between 30 <sup>th</sup> June and 2 <sup>nd</sup> July 2010, the units within the Avonbury Business Park are occupied by Ravensburger Ltd; Fleet Claims; Tiffen; Imaging Associates Ltd; Rational (UK) Ltd and Biotronik UK Ltd.  Turney Agriforce operates an agricultural vehicle sales and service business from Lord's Farm.
Fuel Station Entries	0	0	0	0	None recorded within 500m of Site
Radon Potential – Radon Affected Areas	Yes	n/a	n/a	n/a	Basic Radon Protective Measures are required for the report area as the estimated probability of a property being above the radon Action Level is 3 to 5%. See BGS BR211 Radon Report in Appendix H
Nitrate Vulnerable Zone					The Site is located within a Surface Water Nitrate Vulnerable Zone. These are areas where nitrate pollution from agricultural activities to surface water is a recognised problem
Areas of Adopted Green Belt	0	0	0	0	None recorded within 500m of Site
Areas of Unadopted Green Belt	0	0	0	0	None recorded within 500m of Site
Ramsar Sites	0	0	0	0	None recorded within 500m of Site
Special Areas of Conservation	0	0	0	0	None recorded within 500m of Site
Special Protection Areas	0	0	0	0	None recorded within 500m of Site
National Nature Reserves	0	0	0	0	None recorded within 500m of Site

**Table 5.1: Summary of Findings from Envirocheck Report (Contd.)**

Environmental Factor	Distance to Closest Site Boundary				Details
	On Site	0-250m	251-500m	501-1000m	
Local Nature Reserves	0	1	0	0	Bure Park, at its closest, is located immediately within the A4095 on the Bicester side and is fed by the River Bure
Sites of Special Scientific Interest (SSSI)	0	0	1	0	<ol style="list-style-type: none"> <li>1. Ardley Cutting and Quarry (3 Units), designated for Geological Conservation Review and as a Local Wildlife Trust Reserve. Located 400m north-west of Site along the railway line. This is adjacent to the Ardley Trackways Geological SSSI (Unit 1)</li> <li>2. Ardley Trackways Geological SSSI (Unit 2) is located 1.3km north-west of the nearest Site boundary (beyond the M40 Motorway)</li> </ol>
Areas of Archaeological/Heritage importance	0	0	0	0	None recorded within 500m of Site

## 6 CONCEPTUAL MODEL

### 6.1 General

The aim of this initial conceptual model and risk assessment is to provide a preliminary identification of the risks to the Site, site users and the surrounding area posed by any contamination present on Site. The assessment is based on identification of “pollution linkages”, i.e., source-pathway-receptor relationships. This approach is in accordance with the guidance that accompanies Part IIA of the Environmental Protection Act of 1990, where land is considered to be contaminated when “significant harm” is occurring, or where there is the “significant possibility of significant harm” or where pollution of controlled waters is being, or is likely to be caused. In such cases the pollution linkage itself is defined as “significant”.

The source and pathway to receptors must be present for there to be a risk. The preliminary risk assessment assesses the strength of the link between the source, the pathway and the receptor.

- **Source** – Contaminant that has potential to cause harm to environmental receptors. In a wider sense, sources can include particular ground conditions, for example the existence of redundant footings, which have the potential to impact on re-development proposals.
- **Pathway** – The route by which the source is brought into contact with the receptor. This can include the transport of contamination via groundwater, wind-blown dust, vapours, excavation and deposition etc.
- **Receptor** – Human beings, other living organisms, physical systems and built structures that could be affected by the source. A receptor will only be affected if a pathway from the source to the receptor is present. Groundwater and surface water systems can be considered as receptors in their own right as their quality is regulated by the statutory bodies, as well as being pathways for contaminant migration to other receptors.

### 6.2 Potential Sources of Contamination

Following a review of available information, including a Site walkover survey, the following potential current and historical contamination sources have been identified on Site.

It is not considered that there are viable contaminant sources off Site (within 500m) that would currently be causing “significant harm” to the Site, or presenting the “significant possibility of significant harm”.



## On Site

As summarised in Table 4.1, the historical maps show that the Site area has essentially been uninfluenced by industrial activity until the present day, having been mainly concerned with agricultural production. The only historical non-agricultural activities relate to a small quarry and limekiln near Gowell Farm (now replaced by the Avonbury Business Park and Thames Valley Police Traffic Base, following landfilling of the area) and the construction of the Great Western Railway line in 1910.

The principal contaminant sources are therefore considered to be as follows:

- Treated final and trade effluent as well as surface water drainages from the farms as indicated by the discharge consents;
- Old filter bed within the grounds of Home Farm (west of the access road to the farm from the B4100);
- Railway line (Ref. 6);
- Former landfill in old quarry near Gowell Farm at the Avonbury Business Park and police base;
- Former/existing vehicle depots at the Avonbury Business Park and police base (Ref. 7);
- Pesticides, herbicides and fertilisers from agricultural activities;
- Above ground fuel tanks at farms;
- Asbestos cement sheeting within the fabric of farm buildings; and
- Soil underlying the Site that may be locally contaminated by materials stored on Site (e.g. private farm diesel/fuel oil and agricultural chemicals).

## 6.3 Potential Receptors

Potential receptors of any contamination from the above sources on the Site are identified below:

- Existing Site users;
- Future construction workers;
- Future Site users of the proposed development;
- Surface water features i.e. the three streams on Site;
- Groundwater within the Secondary 'A' Aquifer underlying the Site; and
- Current buildings/proposed buildings and associated services.

## 6.4 Potential Pathways

Potential pathways of any contamination from the above sources to the identified receptors on the Site are identified below:

- Direct dermal contact by humans with soil and/or groundwater;
- Ingestion of soil and/or groundwater by humans;
- Inhalation of toxic gas and volatile organic compounds;
- Leaching of contaminants from soil into groundwater;
- Groundwater migration to surface waters;
- Lateral groundwater migration off Site;
- Lateral migration of groundwater on Site;
- Lateral/ horizontal movement of liquid contaminants through soil pores;
- Surface water run-off via drains to surface waters; and
- Direct contact of chemically aggressive soil and groundwater with proposed buried structures and services.

# 7 QUALITATIVE HUMAN HEALTH and ENVIRONMENTAL RISK ASSESSMENT

## 7.1 Qualitative Methodology

The risk assessment considers the potential sources, receptors and pathways identified in Section 6, and the linkages are summarised in Table 7.1. This assessment takes account of specific chemicals of concern or groups of similar contaminants of concern (COC).

**Table 7.1 Pollutant Linkages for Site**

Contaminant	Source	Pathway	Receptor	Linkage Number
Metals and metalloids, hydrocarbons (oil/ fuel), solvents, phenols, pesticides/ herbicides/ fertilisers, pathogens	Soil underlying Site		Current Site users	1
	Storage & spillage of oils/fuels/chemicals/ solvents at farms	-Direct contact with soils; -Ingestion of soils/dust;	Construction Workers	2
	Handling of hazardous substances inc. asbestos at farms	-Inhalation of soils/dust; -Indoor/outdoor inhalation of ground; gases and/or vapours	Future Site Users (post development)	3
	Above ground fuel tanks and agricultural chemical containers		Buildings & Services	4
Metals and metalloids, hydrocarbons (oil/ fuel), solvents, phenols, pesticides/ herbicides/ fertilisers, pathogens	Leaching from contaminants on and within the soil	-Surface water runoff to streams;	Secondary 'A' Aquifer	5
		-Leaching of contaminants from soils to groundwater; -Groundwater flow	On-Site Surface Water Features	6
Metals and metalloids, hydrocarbons (oil/ fuel), solvents, phenols, herbicides	Spills within on-Site railway (hydrocarbons, solvents and herbicides leaching directly to groundwater)	Leaching of contaminants from soils to groundwater	Secondary 'A' Aquifer	7

**Table 7.1 Pollutant Linkages for Site (Contd.)**

Contaminant	Source	Pathway	Receptor	Linkage Number
Metals and metalloids, hydrocarbons (oil/ fuel), solvents, phenols, pesticides/ herbicides/ fertiliser	Made Ground at former landfill	-Direct contact with soils; -Ingestion of soils/dust; -Inhalation of soils/dust; -Indoor/outdoor inhalation of ground; gases and/or vapours	Current Site users	8
			Secondary 'A' Aquifer	9
			Current Site users	10
			Secondary 'A' Aquifer	11
Ground Gases (CH <sub>4</sub> /CO <sub>2</sub> )	Made Ground at former landfill	Diffusion of gas from landfill	Buildings & Services	12
Ground Gas	Radon	Diffusion of gas from geological strata	Future Site Users (post development)	13

The pollutant linkages are considered further in Table 7.2. This table assesses the probability and consequence of the selected sources and receptors being linked by the identified pathways. Based on the assessed probability and consequence, an overall risk classification is assigned to each potential pollutant linkage. The definitions of the ratings given in this table (Probability, Consequence and Risk) are given in Appendix C.

**Table 7.2 Initial Pollutant Linkages and Risk Assessment**

Linkage Number	Probability	Consequence	Risk	Hazard Assessment*
1 to 3	Possible, as contact with soil will occur during farming then construction and post-construction (in gardens)	Mild - Site is mainly occupied by agricultural land with no previous contaminative industrial uses. Insoluble pollutants from agriculture are likely to remain localised to the source.  Therefore, contact with soil is unlikely to result in long-term adverse health effects	Low	SI
4	Likely as buildings will be in contact with the soil	Negligible	Low	NA

\*Definitions:

- SI – Site Investigation recommended
- NA – No Action required

**Table 7.2 Initial Pollutant Linkages and Risk Assessment (Contd.)**

Linkage Number	Probability	Consequence	Risk	Hazard Assessment*
5	Possible as a groundwater table is present beneath the Site within the Cornbrash Formation	Mild – Should contaminants be present within the soil on Site, these are likely to be in small volumes and cause localised pollution only	Low	SI
6	Likely – Pesticides, herbicides and fertilisers are soluble and are likely to drain with surface water runoff into the nearest surface water feature	Moderate – The Site area lies within a Nitrate Vulnerable Zone. These are areas where nitrate pollution from agricultural activities to surface water is a recognised problem. Any pathogens from treated final/ trade effluent discharges to localised surface water features are likely to cause localised pollution of the receiving watercourse only	Moderate to High	SI
7	Possible as a groundwater table is present beneath the Site within the Cornbrash Formation	Mild – While contaminants are likely to be present at the railway, these are likely to be in small volumes (as the Site does not contain a station or storage sidings) and cause localised pollution only	Low	NA – No development on railway land will occur
8	Very unlikely – The site is capped by paving stones and provides no pathway for site users to come into contact with the underlying landfill	Mild – The information available in the Envirocheck report states that the deposited waste comprised “ash, glass, brick, pottery”	Negligible	NA
9	Possible – If landfill is not lined or liner is not intact	Mild – The information available in the Envirocheck report states that the deposited waste comprised “ash, glass, brick, pottery”, which should not pose a significant threat to groundwater	Low	NA

\*Definitions:

SI – Site Investigation recommended  
NA – No Action required

**Table 7.2 Initial Pollutant Linkages and Risk Assessment (Contd.)**

Linkage Number	Probability	Consequence	Risk	Hazard Assessment*
10	Very unlikely – The information available in the Envirocheck report states that the deposited waste comprised “ash, glass, brick, pottery”, which would not be expected to generate significant volumes of gas. Additionally, no gas vents were observed during the Site walkover	Severe – A build-up of typical landfill gases (CH <sub>4</sub> and CO <sub>2</sub> ) could cause explosion and asphyxiation respectively.	Low	NA
11	Very unlikely – See linkage no. 10 above	Moderate – While landfill gas typically contains organic compounds, which could cause pollution of groundwater, it is not expected that significant volumes of gas will be produced by the on-Site landfill, therefore the consequences to the Secondary ‘A’ Aquifer are not likely to be severe	Negligible to Low	NA
12	Very unlikely – See linkage no. 10 above	Severe, but only in the case of a build-up of landfill gas within a confined space, which could lead to ignition and explosion	Low	NA
13	Likely	Moderate	Moderate to High	AR

\*Definitions:

- SI – Site Investigation recommended
- NA – No Action required
- AR – Action Required

## 7.2 Risk Assessment

Following review of the available information undertaken as part of this study, and consideration of the relevant pollutant linkages, a **Low risk to human health** is considered to be currently associated with the Site. This is due to the unindustrialised history of the Site and its use as primarily agricultural land, where crops/animals for human consumption are grown/reared. However, the natural geology of the area is such that there is a possibility of some radon gas accumulation in dwellings, therefore basic radon protective measures are required. See BGS BR211 Radon Report in Appendix H.

During the Site walkover survey, a farm building (approximate dimensions of 30m x 20m x 10m) was noted adjacent to the south-western side of Bucknell Road, some 950m NW of the junction (roundabout) with the A4095 (Lord’s Lane). The roof and front of the building appears to be

constructed from corrugated asbestos cement sheeting, which will require special precautions if part of the proposed redevelopment.

There is considered to be a **Negligible to Low risk to the underlying groundwater** within the Secondary 'A' Aquifer of the Cornbrash Formation. The aquifer is not used to supply public drinking water; however it may be important for small-scale localised supply. Additionally, the Site does not lie within a drinking water Source Protection Zone.

Due to the agricultural nature of the Site, where much of the land is used for growing crops, there is considered to be a **Moderate to High risk** of surface water pollution from pesticides/herbicides and nitrate fertilisers. The Site lies within a Nitrate Vulnerable Zone, which is an area where nitrogen loss from agriculture to water is recognised as a problem and needs to be reduced.

Assuming the redevelopment of the Site for residential purposes, which will involve the introduction of soft landscaping, it is considered that a **Low risk to future Site users** would exist, due to the Site's unindustrialised past and its current use as primarily agricultural land, where crops/animals for human consumption are grown/reared.

The risks to humans and the environment from the former landfill on the land now occupied by the Thames Valley Police Traffic Base and the Avonbury Business Park are classified as **Low**. This is based on the information available in the Envirocheck Report, which states that deposited waste comprised "ash, glass, brick, pottery". This material was likely used as fill for the old quarry on Site in order to enable the redevelopment of the area. Additionally, no gas vents were observed within the Avonbury Business Park or the police base during the Site walkover, which indicates that there may be no gas-venting issues.

## 8 GEOTECHNICAL CONSIDERATIONS

The main geotechnical considerations are listed in Table 8.1 below, which highlights the natural geological hazards identified within the Envirocheck Report (as sourced from the British Geological Survey), with additional comments added to reflect observations noted during the Site walkover survey.

Whilst not a hazard, available borehole information and observations during the Site walkover survey, suggest that bedrock is present across the Site at a relatively shallow depth (some 1m to 2m), which may cause some difficulty if deeper excavations are necessary, e.g. for basements or deep utility services runs.

**Table 8.1 Summary of Potential Natural Geological Hazards Relevant to the Site**

Hazard	Hazard Potential
Compressible Ground	<p>Low – Any soft, cohesive/organic rich material which may be present within the alluvial sediments flanking the three on-Site streams may be susceptible to compression under loading. However, these sediments are not expected to be present in appreciable thicknesses, therefore the effect of compressible material would be lessened.</p> <p>Away from the streams and Alluvium, the hazard potential is Very Low as bedrock is close to the surface and should provide an adequate founding material.</p>
Ground Dissolution	<p>Low – Borehole logs for the Site do not show evidence of dissolution related features and there were no unusual depressions noted in the landscape during the Site walkover. However, the limestone-dominated units of the Cornbrash Formation, as well as the underlying Forest Marble and White Limestone Formations, may be affected by dissolution leading to the widening of joints and the formation of linear vertical voids, which are likely to fill with rubble and soil. Therefore, an appropriate ground investigation should be undertaken before the detailed design stage of the development.</p>
Landslide	<p>Very Low – The Site is not located in an area prone to landslides, however, mudstone beds in the Forest Marble Formation may be unstable in excavations.</p>
Running Sand	<p>Very Low – Available borehole information shows a thin cover of non-susceptible superficial deposits above bedrock.</p>
Shrinking or Swelling Clay	<p>Very Low – Available borehole information shows a thin cover of non-susceptible superficial deposits above bedrock</p>

At this stage, no significant geotechnical hazards have been identified that would be expected to cause excessive difficulties in the development of the Site. However, an intrusive ground investigation will be required in order to achieve accurate information on the ground properties for preliminary design purposes.



## 9 CONCLUSIONS

This desk study report has been written in order to highlight potential constraints to the development of the proposed Bicester eco development, based on the history and current land use of the Site and surrounding area (for contamination assessment purposes) as well as potential environmental issues such as topography, the presence of watercourses, geological hazards and sensitive land uses.

The history of the Site is a rural one dominated by agriculture, which continues to be the case at present. While the town of Bicester has expanded rapidly from a small centre located 1.5km south-east of the Site some 150 years ago, to a large town which borders the south-eastern Site boundary at present, the Site itself has remained essentially unchanged during this time.

As such, if contamination is present on Site, it is not expected to be widespread or significant, therefore the corresponding qualitative risks to humans and groundwater are, at this stage, considered to be low. However, the risk to surface water due to agricultural chemical runoff (particularly nitrates) is considered to be moderate to high (as the Site is within a Nitrate Vulnerable Zone). Additionally, basic radon protection measures will be necessary in the construction of new dwellings and extensions.

In terms of topography, the Site is gently sloping from the north-west to the south-east with no significant changes in ground levels across short distances. The geological information available suggests that bedrock is close to the surface, which should prove to be an adequate founding material, although it may cause difficulty in deeper excavations (for example in basements). Additionally, the limestone-dominated units of the Cornbrash Formation and the underlying Forest Marble and White Limestone Formations may be affected by dissolution features, although there is no evidence of this from the (limited) borehole logs obtained for the Site.

In summary, the desk study has not highlighted any significant constraints to the proposed development in terms of possible contaminants or natural geological hazards; however, this is only a preliminary desktop assessment and should be verified by means of an appropriately targeted ground investigation.

## 10 RECOMMENDATIONS

It is recommended that an intrusive ground investigation be undertaken to confirm the potential presence or absence of contamination within soils and groundwater and to determine the geotechnical properties of the ground for the proposed eco development layout. The ground investigation can also be targeted at those areas that may be outlined for a cemetery (see Section 3.6), where information relating to leachability and permeability of the ground will be particularly important.

The ground investigation should include:

- Coring of near surface rock, with associated strength testing for foundation design purposes;
- Trial pits for targeted contamination sampling e.g. near fuel and agricultural chemical storage areas and near the railway; and
- Trial pits for rock excavatability analysis and for soakaway testing.

While covered in brief, detailed information on other issues relating to flood modelling, ecology, archaeology and heritage are outside of the scope of this report and reference should be made to accompanying reports produced by Hyder.

## 11 REFERENCES

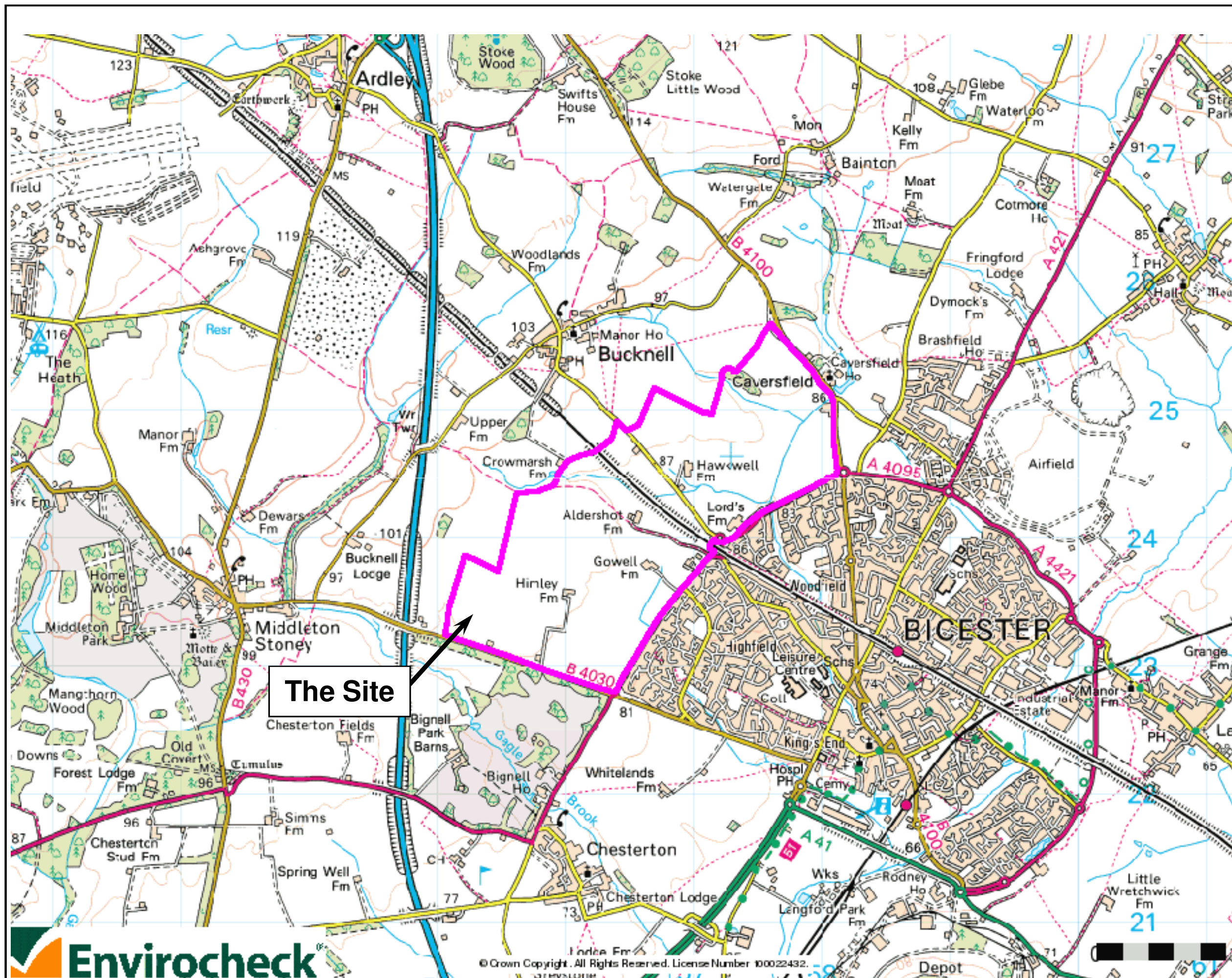
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6. Department of the Environment, 1995. Industry Profile: Railway Land. DoE.
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## Figures

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### Figure 1 – Site Location Plan





Client	
 	
Project	
NW Bicester Eco-Town	
Title	
Site Location Plan	
Scale	Datum
NTS	N/A
	
Hyder Consulting Ltd HCL House Fortran Road Cardiff CF3 0EY  Tel: 029 20925000 Fax: 029 20925222	
Project Code	
UA001881	
Drawing No.	Issue
Figure 1	1

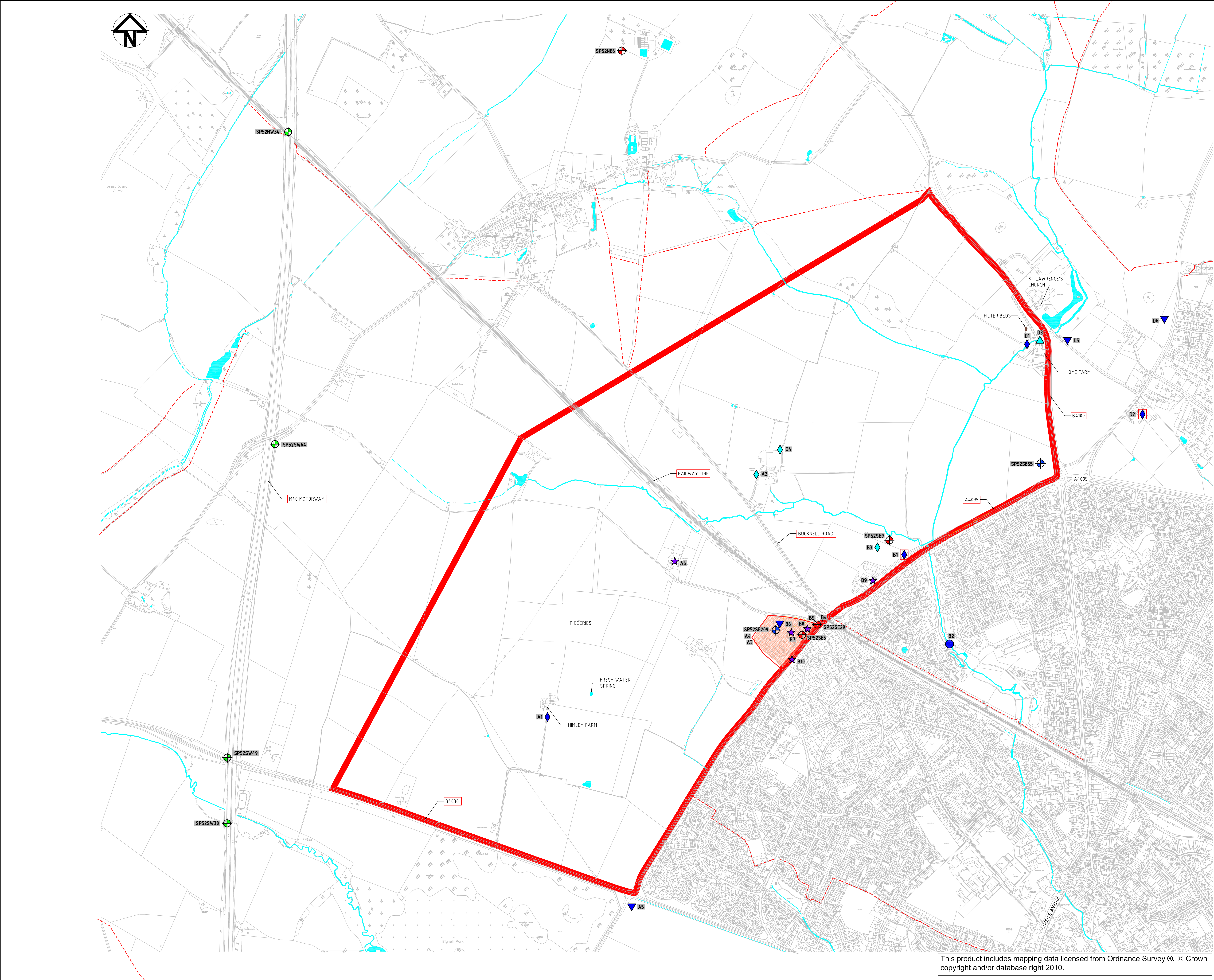


## Appendix A

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### Landmark Envirocheck Report Datasheets





- KEY**
- OVERALL SITE BOUNDARY
  - PUBLIC BRIDLEWAY
  - PUBLIC FOOTPATH
  - HEDGEROW
  - WOODLAND
  - WATER COURSE
  - MAP ID - B+SLICE B, 8+ ITEM No.
  - DISCHARGE CONSENT
  - POLLUTION INCIDENT TO CONTROLLED WATERS
  - WATER ABSTRACTION
  - TRADE DIRECTORY ENTRY
  - BGS RECORDED MINERAL SITE
  - LOCAL AUTHORITY POLLUTION PREVENTION AND CONTROL
  - MORE THAN ONE OF TYPE AT LOCATION
  - LOCAL AUTHORITY RECORDED LANDFILL SITE
  - EA HISTORIC LANDFILL (POLYGON)
  - BGS BOREHOLE DEPTH 0-10m
  - BGS BOREHOLE DEPTH 10-30m
  - BGS BOREHOLE DEPTH 30m +
  - POTENTIAL NOISE SOURCES - LOCAL ROAD NETWORK (INC. M40/ A4095/ B4100/ B4630/ BUCKNELL ROAD) AND RAILWAY LINE.

01	FIRST ISSUE	11/06/10
Issue	Description	Date

Status **DRAFT**

Scales	1:5000	Current Issue Signatures
Original Size	<b>A0</b>	Author P. SWEENEY
Height	NEWLYN	Checker SA. DAVIES
Datum	O.S.	Approver SA. DAVIES
Grid		© Copyright reserved

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Client

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Project **BICESTER ECO TOWN**

Title **ENVIROCHECK INFORMATION**

Drawing No.	Project No.	Issue
7015	UA001881	01

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## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

31544761\_1\_1

**Customer Reference:**

UA001881

**National Grid Reference:**

455870, 223500

**Slice:**

A

**Site Area (Ha):**

395.55

**Search Buffer (m):**

500

#### Site Details:

Site at  
Bicester  
Oxfordshire

#### Client Details:

Mr D Thomas  
Hyder Consulting Ltd  
HCL House  
St. Mellons Business Park  
St Mellons  
Cardiff  
CF3 0EY



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	3
Hazardous Substances	-
Geological	4
Industrial Land Use	7
Sensitive Land Use	8
Data Currency	9
Data Suppliers	13
Useful Contacts	14

## 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 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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Agency &amp; Hydrological</b>				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1	1		
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 1	1		(*1)
Water Industry Act Referrals				
Groundwater Vulnerability	pg 1	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	pg 2	Yes		n/a
Flooding from Rivers or Sea without Defences	pg 2	Yes		n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
<b>Waste</b>				
BGS Recorded Landfill Sites				
Historical Landfill Sites	pg 3	1		
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites	pg 3	1		
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Hazardous Substances</b>				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
<b>Geological</b>				
BGS Recorded Mineral Sites	pg 4		1	
BGS 1:625,000 Solid Geology	pg 4	Yes	n/a	n/a
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Natural and Mining Cavities				
Potential for Collapsible Ground Stability Hazards				n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Running Sand Ground Stability Hazards	pg 5	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes	Yes	n/a
Radon Potential - Radon Affected Areas	pg 6	Yes	n/a	n/a
Radon Potential - Radon Protection Measures	pg 6	Yes	n/a	n/a
Shallow Mining Hazards				n/a
<b>Industrial Land Use</b>				
Contemporary Trade Directory Entries (50m)	pg 7	1		n/a
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Sensitive Land Use</b>				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves	pg 8		1	
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 8	1		
Ramsar Sites				
Sites of Special Scientific Interest	pg 8			1
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: Catharine Murfitt Property Type: Domestic Property (Single) Location: Himley Barns Middleton Stoney Road Chesterton Bicester Oxfordshire Ox26 1rt Authority: Environment Agency, Thames Region Catchment Area: Cherwell and Ray (Oxon) Reference: Npswqd005893 Permit Version: 1 Effective Date: 16th December 2008 Issued Date: 15th December 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Tributary Of Pingle Stream <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	A11SE (E)	0	1	456035 223498
	<b>Nearest Surface Water Feature</b>	A12NE (E)	0	-	456908 223635
2	<b>Water Abstractions</b> Operator: W & W Malins Licence Number: 28/39/14/0214 Permit Version: 100 Location: Lords Farm, Bicester (A) Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 10 Yearly Rate (m3): 1763 Details: Great Oolite Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th May 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16NE (NE)	0	1	456900 224500
	<b>Water Abstractions</b> Operator: A D Woodley Ltd Licence Number: 28/39/14/0123 Permit Version: 100 Location: Whitelands, Bicester (A) Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 20 Yearly Rate (m3): 1818 Details: Great & Inferior Oolite Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 9th January 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SE (SE)	754	1	456700 222100
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	A12SE (E)	0	1	456817 223520
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	A12SE (E)	0	1	456817 223520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Drift Deposits</b> None				
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	A6SW (SW)	0	1	455215 222840
	<b>Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	A6SW (SW)	0	1	455220 222835
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Bicester, Oxfordshire Name: Gowell Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13573 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: -9999 Regis Ref: Not Supplied WRC Ref: 3100/0027 BGS Ref: Not Supplied Other Ref: 13.6.5723, TP0230	A12NE (E)	0	1	456880 223813
	<b>Local Authority Landfill Coverage</b> Name: Cherwell District Council - Has supplied landfill data		0	2	462471 222097
	<b>Local Authority Landfill Coverage</b> Name: Oxfordshire County Council - Has supplied landfill data		0	6	462471 222097
4	<b>Local Authority Recorded Landfill Sites</b> Location: Gowell Farm, Bicester Reference: 14 Authority: Cherwell District Council, Environmental Health Department <b>Last Reported Status:</b> Unknown Types of Waste: Ash, Glass, Brick, Pottery Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A12NE (E)	0	2	456879 223829

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<b>BGS Recorded Mineral Sites</b> Site Name: King'S End Farm Location: Chesterton, Oxford, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57408 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Cornbrash Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	68	3	456381 222717
	<b>BGS 1:625,000 Solid Geology</b> Description: Cornbrash	A2NW (SW)	0	3	454963 222531
	<b>Coal Mining Affected Areas</b> In an area which may not be affected by coal mining				
	<b>Potential for Collapsible Ground Stability Hazards</b> No Hazard				
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	0	3	455000 223499
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	455975 224475
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456000 224450
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A16NE (NE)	0	3	456900 224350
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456050 224475
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	69	3	455000 223499
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	249	3	455000 222975
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	455275 223600
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	455275 223600
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	3	455650 224225
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	69	3	455000 223225
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	69	3	455000 223499
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	193	3	456850 223175
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	228	3	454975 223025
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16NW (NE)	0	3	456475 224425



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16NW (NE)	0	3	456500 224400
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16NW (NE)	0	3	456525 224375
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16NW (NE)	0	3	456550 224350
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16NE (NE)	0	3	456675 224300
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	0	3	455000 223499
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	69	3	455000 223499
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	0	3	455000 223499
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	455975 224475
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456000 224450
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A16NE (NE)	0	3	456900 224350
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456050 224475
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	69	3	455000 223499
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	249	3	455000 222975
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	0	3	455000 223499
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	455975 224475
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456000 224450
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456050 224475
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A16NE (NE)	0	3	456900 224350
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A10SW (W)	69	3	455000 223499
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A6NW (SW)	249	3	455000 222975

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456000 224375
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	0	3	455725 224550
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	3	455675 224150
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	455350 223600
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	455350 223600
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A15NE (N)	0	3	456000 224375
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A15NW (N)	0	3	455725 224550
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A15SW (N)	0	3	455675 224150
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	455350 223600
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A10NE (W)	0	3	455350 223600
	<b>Shallow Mining Hazards</b> No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<b>Contemporary Trade Directory Entries</b> Name: D Ricketts Location: Howes Lane, Bicester, Oxfordshire, OX26 2UA Classification: Commercial Vehicle Dealers <b>Status:</b> <b>Inactive</b> Positional Accuracy: Automatically positioned to the address	A16SW (NE)	0	-	456562 224139

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>Local Nature Reserves</b> Name: Bure Park Multiple Area: N Area (m2): 83957.83 Source: Natural England Designation Date: 5th December 2005	(E)	53	4	457486 223771
8	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: Surface Water - Designated 2006 Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	(W)	0	5	453163 223499
9	<b>Sites of Special Scientific Interest</b> Name: Ardley Cutting & Quarry Multiple Areas: N Total Area (m2): 401251.72 Source: Natural England Reference: 1000903 Designation Details: Geological Conservation Review Designation Date: 12th May 1988 Date Type: Notified Designation Details: Local Wildlife Trust Reserve Designation Date: 12th May 1988 Date Type: Notified	(N)	407	4	455898 224997

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Cherwell District Council - Environmental Health Department	February 2010	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Thames Region	May 2010	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	February 2010	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Thames Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Thames Region	March 2010	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Thames Region	May 2010	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Water Abstractions</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Thames Region	January 2010	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Source Protection Zones</b> Environment Agency - Head Office	April 2010	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly

Agency & Hydrological	Version	Update Cycle
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Local Authority Landfill Coverage</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2010	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	January 2009	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2010	Bi-Annually
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2006	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Natural and Mining Cavities</b> Peter Brett Associates	November 2009	Bi-Annually
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Shallow Mining Hazards</b> British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	March 2010	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian Catalist	February 2010	Quarterly

Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Unadopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	December 2009	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	December 2009	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	September 2009	Bi-Annually
<b>National Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>National Parks</b> Natural England	December 2009	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2009	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2009	Annually
<b>Ramsar Sites</b> Natural England	December 2009	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	December 2009	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	December 2009	Bi-Annually
<b>Special Protection Areas</b> Natural England	December 2009	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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>
2	<b>Cherwell District Council - Environmental Health Department</b> Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 extn 4511 Fax: 01295 270028 Website: <a href="http://www.cherwell-dc.gov.uk">www.cherwell-dc.gov.uk</a>
3	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>
4	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a> Website: <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>
5	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
6	<b>Oxfordshire County Council</b> County Hall, New Road, Oxford, Oxfordshire, OX1 1ND	Telephone: 01865 792422 Fax: 01865 810106 Email: <a href="mailto:environmental.services@oxfordshire.gov.uk">environmental.services@oxfordshire.gov.uk</a> Website: <a href="http://www.oxfordshire.gov.uk">www.oxfordshire.gov.uk</a>
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: <a href="mailto:radon@hpa.org.uk">radon@hpa.org.uk</a> Website: <a href="http://www.hpa.org.uk">www.hpa.org.uk</a>
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a> Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>

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

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

31544761\_1\_1

**Customer Reference:**

UA001881

**National Grid Reference:**

457570, 224010

**Slice:**

B

**Site Area (Ha):**

395.55

**Search Buffer (m):**

500

#### Site Details:

Site at

Bicester

Oxfordshire

#### Client Details:

Mr D Thomas

Hyder Consulting Ltd

HCL House

St. Mellons Business Park

St Mellons

Cardiff

CF3 0EY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	3
Hazardous Substances	-
Geological	4
Industrial Land Use	7
Sensitive Land Use	8
Data Currency	9
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## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency 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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Radon Potential dataset Copyright Notice

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## Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Agency &amp; Hydrological</b>				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1	2		
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters	pg 1			1
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 1	1		
Water Industry Act Referrals				
Groundwater Vulnerability	pg 2	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	pg 2	Yes		n/a
Flooding from Rivers or Sea without Defences	pg 2	Yes		n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
<b>Waste</b>				
BGS Recorded Landfill Sites				
Historical Landfill Sites	pg 3	1		
Integrated Pollution Control Registered Waste Sites				
Licensed Waste Management Facilities (Landfill Boundaries)				
Licensed Waste Management Facilities (Locations)				
Local Authority Recorded Landfill Sites	pg 3	1		
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Hazardous Substances</b>				
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Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
<b>Geological</b>				
BGS Recorded Mineral Sites	pg 4	1		
BGS 1:625,000 Solid Geology	pg 4	Yes	n/a	n/a
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Natural and Mining Cavities				
Potential for Collapsible Ground Stability Hazards				n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes		n/a
Potential for Ground Dissolution Stability Hazards	pg 4	Yes		n/a
Potential for Landslide Ground Stability Hazards	pg 4	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 4	Yes		n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 5	Yes		n/a
Radon Potential - Radon Affected Areas	pg 5	Yes	n/a	n/a
Radon Potential - Radon Protection Measures	pg 5	Yes	n/a	n/a
Shallow Mining Hazards				n/a
<b>Industrial Land Use</b>				
Contemporary Trade Directory Entries (50m)	pg 7	3	1	n/a
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Sensitive Land Use</b>				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves	pg 8		1	
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 8	1		
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: Messrs Wej & Tmf Malins Property Type: Domestic Property (Single) Location: Lords Farm Lords Lane Bicester Oxfordshire Ox27 7hl Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cawm.0876 Permit Version: 1 Effective Date: 16th September 2004 Issued Date: 16th November 2004 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of The Town Brook <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	B13SE (N)	0	1	457510 224170
1	<b>Discharge Consents</b> Operator: Messrs Wej & Tmf Malins Property Type: Domestic Property (Single) Location: Lords Farm Lords Lane Bicester Oxfordshire Ox27 7hl Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cawm.0877 Permit Version: 1 Effective Date: 16th September 2004 Issued Date: 16th November 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of The Town Brook <b>Status:</b> <b>New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	B13SE (N)	0	1	457520 224180
	<b>Nearest Surface Water Feature</b>	B13SE (N)	0	-	457583 224208
2	<b>Pollution Incidents to Controlled Waters</b> Property Type: Not Given Location: BICESTER Authority: Environment Agency, Thames Region Pollutant: General Note: Not Supplied Incident Date: 16th December 1997 Incident Reference: 37374 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	B10NW (SE)	405	1	457700 223800
3	<b>Water Abstractions</b> Operator: W V Malins & Son Licence Number: 28/39/14/0348 Permit Version: 1 Location: Lords Farm - Borehole Authority: Environment Agency, Thames 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: Underground Strata At Lords Farm, Bicester. 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 100m	B13SE (NW)	0	1	457400 224200



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	B9NE (SW)	0	1	457432 223751
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	B9NE (SW)	0	1	457432 223751
	<b>Drift Deposits</b> None				
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	B14SW (E)	0	1	457625 224025
	<b>Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	B14SW (NE)	0	1	457625 224035
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<b>Historical Landfill Sites</b> Licence Holder: Not Supplied Location: Bicester, Oxfordshire Name: Gowell Farm Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13573 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: -9999 Regis Ref: Not Supplied WRC Ref: 3100/0027 BGS Ref: Not Supplied Other Ref: 13.6.5723, TP0230	B9NW (W)	0	1	457155 223885
	<b>Local Authority Landfill Coverage</b> Name: Cherwell District Council - Has supplied landfill data		0	2	462510 222289
	<b>Local Authority Landfill Coverage</b> Name: Oxfordshire County Council - Has supplied landfill data		0	6	462510 222289
5	<b>Local Authority Recorded Landfill Sites</b> Location: Gowell Farm, Bicester Reference: 14 Authority: Cherwell District Council, Environmental Health Department <b>Last Reported Status:</b> Unknown Types of Waste: Ash, Glass, Brick, Pottery Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	B9NW (W)	0	2	457154 223881

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<b>BGS Recorded Mineral Sites</b> Site Name: Gowell Farm Location: Bicester, Oxford, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57413 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Cornbrash Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	B9NW (W)	0	3	456996 223880
	<b>BGS 1:625,000 Solid Geology</b> Description: Cornbrash	(NW)	0	3	456217 225693
	<b>Coal Mining Affected Areas</b> In an area which may not be affected by coal mining				
	<b>Potential for Collapsible Ground Stability Hazards</b> No Hazard				
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457625 224012
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B14NW (N)	0	3	457650 224425
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	3	457275 224350
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B13NE (NW)	0	3	457325 224325
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457625 224012
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B14NW (N)	0	3	457675 224550
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13SE (N)	0	3	457575 224025
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B13SE (N)	0	3	457575 224025
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457700 224012
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	193	3	456900 223175
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	(W)	0	3	456700 224300
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457625 224012
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B14NW (N)	0	3	457675 224550
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B14NW (N)	0	3	457650 224425
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	3	457275 224350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B13NE (NW)	0	3	457325 224325
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457625 224012
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457625 224012
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14NW (N)	0	3	457675 224550
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14NW (N)	0	3	457650 224425
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NE (NW)	0	3	457325 224325
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457625 224012
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B13NW (NW)	0	3	457275 224350
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B13SE (W)	0	3	457550 224012
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457725 224075
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	0	3	457500 224375
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	0	3	457550 224350
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B13SE (W)	0	3	457550 224012
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	0	3	457475 224375
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	B13SE (W)	0	3	457525 224000
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13SE (W)	0	3	457550 224012
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B14SW (E)	0	3	457725 224075
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	0	3	457500 224375

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	0	3	457550 224350
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13SE (W)	0	3	457550 224012
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13NE (N)	0	3	457475 224375
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	B13SE (W)	0	3	457525 224000
	<b>Shallow Mining Hazards</b> No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>Contemporary Trade Directory Entries</b> Name: Rationel Windows (Uk) Ltd Location: Unit 7, Avonbury Business Park, Howes Lane, Bicester, Oxfordshire, OX26 2UA Classification: Window Frame Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	B9NW (W)	0	-	457044 223845
8	<b>Contemporary Trade Directory Entries</b> Name: Ravensburger Ltd Location: Unit 1, Avonbury Business Park, Howes Lane, Bicester, Oxfordshire, OX26 2UB Classification: Toys, Games & Sporting Goods - Manufacturers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	B9NW (W)	0	-	457107 223855
9	<b>Contemporary Trade Directory Entries</b> Name: Turney-Agriforce Location: Bicester, Oxfordshire, OX27 7HL Classification: Agricultural Engineers <b>Status: Active</b> Positional Accuracy: Automatically positioned to the address	B13SE (W)	0	-	457382 224060
10	<b>Contemporary Trade Directory Entries</b> Name: Microm Uk Ltd Location: Unit 6, Avonbury Business Park, Howes La, Bicester, Oxfordshire, OX26 2UA Classification: Medical Instruments - Manufacturers <b>Status: Active</b> Positional Accuracy: Manually positioned to the road within the address or location	B9NW (SW)	1	-	457046 223733

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<b>Local Nature Reserves</b> Name: Bure Park Multiple Area: N Area (m2): 83957.83 Source: Natural England Designation Date: 5th December 2005	B13SE (E)	53	4	457610 224017
12	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: Surface Water - Designated 2006 Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	(N)	0	5	456600 227750

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Cherwell District Council - Environmental Health Department	February 2010	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Thames Region	May 2010	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	February 2010	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Thames Region	September 1999	Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Thames Region	March 2010	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Thames Region	May 2010	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Water Abstractions</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Thames Region	January 2010	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Source Protection Zones</b> Environment Agency - Head Office	April 2010	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly



Agency & Hydrological	Version	Update Cycle
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Local Authority Landfill Coverage</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2010	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	January 2009	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2010	Bi-Annually
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2006	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Natural and Mining Cavities</b> Peter Brett Associates	November 2009	Bi-Annually
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Shallow Mining Hazards</b> British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	March 2010	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian Catalist	February 2010	Quarterly

Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Unadopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	December 2009	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	December 2009	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	September 2009	Bi-Annually
<b>National Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>National Parks</b> Natural England	December 2009	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2009	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2009	Annually
<b>Ramsar Sites</b> Natural England	December 2009	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	December 2009	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	December 2009	Bi-Annually
<b>Special Protection Areas</b> Natural England	December 2009	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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>
2	<b>Cherwell District Council - Environmental Health Department</b> Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 extn 4511 Fax: 01295 270028 Website: <a href="http://www.cherwell-dc.gov.uk">www.cherwell-dc.gov.uk</a>
3	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>
4	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a> Website: <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>
5	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
6	<b>Oxfordshire County Council</b> County Hall, New Road, Oxford, Oxfordshire, OX1 1ND	Telephone: 01865 792422 Fax: 01865 810106 Email: <a href="mailto:environmental.services@oxfordshire.gov.uk">environmental.services@oxfordshire.gov.uk</a> Website: <a href="http://www.oxfordshire.gov.uk">www.oxfordshire.gov.uk</a>
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: <a href="mailto:radon@hpa.org.uk">radon@hpa.org.uk</a> Website: <a href="http://www.hpa.org.uk">www.hpa.org.uk</a>
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a> Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>

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

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

31544761\_1\_1

**Customer Reference:**

UA001881

**National Grid Reference:**

456330, 224990

**Slice:**

C

**Site Area (Ha):**

395.55

**Search Buffer (m):**

500

#### Site Details:

Site at

Bicester

Oxfordshire

#### Client Details:

Mr D Thomas

Hyder Consulting Ltd

HCL House

St. Mellons Business Park

St Mellons

Cardiff

CF3 0EY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	2
Hazardous Substances	-
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Industrial Land Use	-
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## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency 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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Agency &amp; Hydrological</b>				
Contaminated Land Register Entries and Notices				
Discharge Consents				
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls				
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions				
Water Industry Act Referrals				
Groundwater Vulnerability	pg 1	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences				n/a
Flooding from Rivers or Sea without Defences				n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
<b>Waste</b>				
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 Recorded Landfill Sites				
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				



Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Hazardous Substances</b>				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
<b>Geological</b>				
BGS Recorded Mineral Sites				
BGS 1:625,000 Solid Geology	pg 3	Yes	n/a	n/a
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Natural and Mining Cavities				
Potential for Collapsible Ground Stability Hazards				n/a
Potential for Compressible Ground Stability Hazards				n/a
Potential for Ground Dissolution Stability Hazards	pg 3	Yes		n/a
Potential for Landslide Ground Stability Hazards	pg 3	Yes		n/a
Potential for Running Sand Ground Stability Hazards				n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a
Radon Potential - Radon Affected Areas	pg 4	Yes	n/a	n/a
Radon Potential - Radon Protection Measures	pg 4	Yes	n/a	n/a
Shallow Mining Hazards				n/a
<b>Industrial Land Use</b>				
Contemporary Trade Directory Entries (50m)				n/a
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Sensitive Land Use</b>				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves	pg 5		1	
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 5	1		
Ramsar Sites				
Sites of Special Scientific Interest	pg 5			1
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Nearest Surface Water Feature</b>	C4SE (SE)	0	-	456801 224793
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	C7NE (NW)	0	1	455986 225635
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	(SE)	0	1	457083 223950
	<b>Drift Deposits</b> None				
	<b>Extreme Flooding from Rivers or Sea without Defences</b> None				
	<b>Flooding from Rivers or Sea without Defences</b> None				
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Cherwell District Council - Has supplied landfill data		0	6	455303 231299
	<b>Local Authority Landfill Coverage</b> Name: Oxfordshire County Council - Has supplied landfill data		0	5	455303 231299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>BGS 1:625,000 Solid Geology</b> Description: Combrash	C7SE (NW)	0	2	455965 225521
	<b>Coal Mining Affected Areas</b> In an area which may not be affected by coal mining				
	<b>Potential for Collapsible Ground Stability Hazards</b> No Hazard				
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3NW (W)	0	2	455900 225000
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(NE)	0	2	456950 225300
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C3SE (S)	0	2	456200 224625
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C4SW (S)	0	2	456328 224575
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C3SE (S)	0	2	456225 224700
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C8SE (NE)	0	2	456875 225275

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C4SW (S)	0	2	456328 224575
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C3SE (S)	0	2	456225 224700
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C8SE (NE)	0	2	456875 225275
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	C4NW (N)	0	2	456328 225000
	<b>Shallow Mining Hazards</b> No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Local Nature Reserves</b> Name: Bure Park Multiple Area: N Area (m2): 83957.83 Source: Natural England Designation Date: 5th December 2005	(SE)	53	3	457592 224148
2	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: Surface Water - Designated 2006 Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	(N)	0	4	455900 227700
3	<b>Sites of Special Scientific Interest</b> Name: Ardley Cutting & Quarry Multiple Areas: N Total Area (m2): 401251.72 Source: Natural England Reference: 1000903 Designation Details: Geological Conservation Review Designation Date: 12th May 1988 Date Type: Notified Designation Details: Local Wildlife Trust Reserve Designation Date: 12th May 1988 Date Type: Notified	C3NE (W)	407	3	455933 224998

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Cherwell District Council - Environmental Health Department	February 2010	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region Environment Agency - Thames Region	April 2010 April 2010	Quarterly Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Thames Region	May 2010	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	February 2010	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Anglian Region Environment Agency - Thames Region	September 1999 September 1999	Not Applicable Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Thames Region	March 2010	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Thames Region	May 2010	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region Environment Agency - Thames Region	April 2010 April 2010	Quarterly Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Thames Region	January 2010	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Source Protection Zones</b> Environment Agency - Head Office	April 2010	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly



Agency & Hydrological	Version	Update Cycle
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Local Authority Landfill Coverage</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2010	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	January 2009	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2010	Bi-Annually
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2006	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Natural and Mining Cavities</b> Peter Brett Associates	November 2009	Bi-Annually
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Shallow Mining Hazards</b> British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	March 2010	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian Catalist	February 2010	Quarterly

Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Unadopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	December 2009	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	December 2009	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	September 2009	Bi-Annually
<b>National Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>National Parks</b> Natural England	December 2009	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2009	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2009	Annually
<b>Ramsar Sites</b> Natural England	December 2009	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	December 2009	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	December 2009	Bi-Annually
<b>Special Protection Areas</b> Natural England	December 2009	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	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>
2	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>
3	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a> Website: <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>
4	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
5	<b>Oxfordshire County Council</b> County Hall, New Road, Oxford, Oxfordshire, OX1 1ND	Telephone: 01865 792422 Fax: 01865 810106 Email: <a href="mailto:environmental.services@oxfordshire.gov.uk">environmental.services@oxfordshire.gov.uk</a> Website: <a href="http://www.oxfordshire.gov.uk">www.oxfordshire.gov.uk</a>
6	<b>Cherwell District Council - Environmental Health Department</b> Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 extn 4511 Fax: 01295 270028 Website: <a href="http://www.cherwell-dc.gov.uk">www.cherwell-dc.gov.uk</a>
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: <a href="mailto:radon@hpa.org.uk">radon@hpa.org.uk</a> Website: <a href="http://www.hpa.org.uk">www.hpa.org.uk</a>
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a> Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>

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

## Envirocheck<sup>®</sup> Report:

### Datasheet

#### Order Details:

**Order Number:**

31544761\_1\_1

**Customer Reference:**

UA001881

**National Grid Reference:**

457720, 225250

**Slice:**

D

**Site Area (Ha):**

395.55

**Search Buffer (m):**

500

#### Site Details:

Site at

Bicester

Oxfordshire

#### Client Details:

Mr D Thomas

Hyder Consulting Ltd

HCL House

St. Mellons Business Park

St Mellons

Cardiff

CF3 0EY

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	3
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## Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination. For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency 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 the attached datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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## Report Version v47.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Agency &amp; Hydrological</b>				
Contaminated Land Register Entries and Notices				
Discharge Consents	pg 1	1		2
Enforcement and Prohibition Notices				
Integrated Pollution Controls				
Integrated Pollution Prevention And Control				
Local Authority Integrated Pollution Prevention And Control				
Local Authority Pollution Prevention and Controls	pg 1	1		
Local Authority Pollution Prevention and Control Enforcements				
Nearest Surface Water Feature	pg 1	Yes		
Pollution Incidents to Controlled Waters				
Prosecutions Relating to Authorised Processes				
Prosecutions Relating to Controlled Waters				
Registered Radioactive Substances				
River Quality				
River Quality Biology Sampling Points				
River Quality Chemistry Sampling Points				
Substantiated Pollution Incident Register				
Water Abstractions	pg 2	1		
Water Industry Act Referrals				
Groundwater Vulnerability	pg 2	Yes	n/a	n/a
Source Protection Zones				
Extreme Flooding from Rivers or Sea without Defences	pg 2	Yes		n/a
Flooding from Rivers or Sea without Defences	pg 2	Yes		n/a
Areas Benefiting from Flood Defences				n/a
Flood Water Storage Areas				n/a
Flood Defences				n/a
<b>Waste</b>				
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 Recorded Landfill Sites				
Registered Landfill Sites				
Registered Waste Transfer Sites				
Registered Waste Treatment or Disposal Sites				



Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Hazardous Substances</b>				
Control of Major Accident Hazards Sites (COMAH)				
Explosive Sites				
Notification of Installations Handling Hazardous Substances (NIHHS)				
Planning Hazardous Substance Consents				
Planning Hazardous Substance Enforcements				
<b>Geological</b>				
BGS Recorded Mineral Sites	pg 4		1	1
BGS 1:625,000 Solid Geology	pg 4	Yes	n/a	n/a
Brine Compensation Area			n/a	n/a
Coal Mining Affected Areas			n/a	n/a
Mining Instability			n/a	n/a
Natural and Mining Cavities				
Potential for Collapsible Ground Stability Hazards				n/a
Potential for Compressible Ground Stability Hazards	pg 4	Yes	Yes	n/a
Potential for Ground Dissolution Stability Hazards	pg 5	Yes	Yes	n/a
Potential for Landslide Ground Stability Hazards	pg 5	Yes		n/a
Potential for Running Sand Ground Stability Hazards	pg 5	Yes	Yes	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 6	Yes	Yes	n/a
Radon Potential - Radon Affected Areas	pg 7	Yes	n/a	n/a
Radon Potential - Radon Protection Measures	pg 7	Yes	n/a	n/a
Shallow Mining Hazards				n/a
<b>Industrial Land Use</b>				
Contemporary Trade Directory Entries (50m)				n/a
Fuel Station Entries				

Data Type	Page Number	On Site	0 to 250m	251 to 500m (*up to 1000m)
<b>Sensitive Land Use</b>				
Areas of Adopted Green Belt				
Areas of Unadopted Green Belt				
Areas of Outstanding Natural Beauty				
Environmentally Sensitive Areas				
Forest Parks				
Local Nature Reserves	pg 9		1	
Marine Nature Reserves				
National Nature Reserves				
National Parks				
Nitrate Sensitive Areas				
Nitrate Vulnerable Zones	pg 9	1		
Ramsar Sites				
Sites of Special Scientific Interest				
Special Areas of Conservation				
Special Protection Areas				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<b>Discharge Consents</b> Operator: A G Phipps, Esq. Property Type: Domestic Property (Multiple) Location: Home Farm Complex Home Farm Banbury Road Caversfield, Bicester Oxfordshire OX27 0TG Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cawm.0566 Permit Version: 1 Effective Date: 19th November 2002 Issued Date: 16th January 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: The Town Brook <b>Status: New Consent (Water Resources Act 1991, Section 88 &amp; Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	D2NE (SE)	0	1	458020 225040
2	<b>Discharge Consents</b> Operator: Mr. M.S. Purewal Property Type: Domestic Property (Single) Location: The Old Vicarage, Caversfield, Near Bicester, Oxon Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.1546 Permit Version: 2 Effective Date: 30th January 2007 Issued Date: 30th January 2007 Revocation Date: 31st March 2019 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Irrigation Area Environment: Receiving Water: Cornbrash <b>Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)</b> Positional Accuracy: Located by supplier to within 10m	D3SW (SE)	389	1	458500 224750
2	<b>Discharge Consents</b> Operator: Mr. M.S. Purewal Property Type: Domestic Property (Single) Location: The Old Vicarage, Caversfield, Near Bicester, Oxon Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.1546 Permit Version: 1 Effective Date: 27th March 1987 Issued Date: 27th March 1987 Revocation Date: 30th January 2007 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Irrigation Area Environment: Receiving Water: Cornbrash <b>Status: Transferred from COPA 1974</b> Positional Accuracy: Located by supplier to within 100m	D3SW (SE)	389	1	458500 224750
3	<b>Local Authority Pollution Prevention and Controls</b> Name: Teslayne Engineering Location: Unit 4 The Courtyard, Caversfield, Bicester, OX27 8TG Authority: Cherwell District Council, Environmental Health Department Permit Reference: CDC P/WOB/011 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input <b>Status: Application Not Yet Authorised</b> Positional Accuracy: Manually positioned to the address or location	D2NE (SE)	0	2	458065 225047
	<b>Nearest Surface Water Feature</b>	D1NE (W)	0	-	457282 225207

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<b>Water Abstractions</b> Operator: W & W Malins Licence Number: 28/39/14/0214 Permit Version: 100 Location: Lords Farm, Bicester (B) Authority: Environment Agency, Thames Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 8th May 1967 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	D1SW (SW)	0	1	457000 224600
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	D9SW (NW)	0	1	457095 225971
	<b>Groundwater Vulnerability</b> Geological Classification: Minor Aquifer (Variably permeable) - These can be fractured or potentially fractured rocks, which do not have a high primary permeability, or other formations of variable permeability including unconsolidated deposits. Although not producing large quantities of water for abstraction, they are important for local supplies and in supplying base flow to rivers Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 30 Northern Cotswolds Scale: 1:100,000	(SW)	0	1	457122 223946
	<b>Drift Deposits</b> None				
	<b>Extreme Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	D2NW (S)	0	1	457755 224970
	<b>Flooding from Rivers or Sea without Defences</b> Flood Plain Type: Fluvial Boundary Accuracy: As Supplied	D2NW (S)	0	1	457765 224965
	<b>Areas Benefiting from Flood Defences</b> None				
	<b>Flood Water Storage Areas</b> None				
	<b>Flood Defences</b> None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Local Authority Landfill Coverage</b> Name: Cherwell District Council - Has supplied landfill data		0	2	462905 225299
	<b>Local Authority Landfill Coverage</b> Name: Oxfordshire County Council - Has supplied landfill data		0	6	462905 225299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	<b>BGS Recorded Mineral Sites</b> Site Name: Home Farm Location: Caversfield, Oxford, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57403 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Cornbrash Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	D2NE (SE)	78	3	458187 225056
6	<b>BGS Recorded Mineral Sites</b> Site Name: Vicarage House Location: Caversfield, Oxford, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57411 Type: Opencast <b>Status: Ceased</b> Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Cornbrash Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	D3NW (E)	489	3	458589 225144
	<b>BGS 1:625,000 Solid Geology</b> Description: Cornbrash	D10NW (N)	0	3	457764 226276
	<b>Coal Mining Affected Areas</b> In an area which may not be affected by coal mining				
	<b>Potential for Collapsible Ground Stability Hazards</b> No Hazard				
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457950 225025
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457925 225000
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457900 224975
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457825 224950
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457775 224825
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457750 224775
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457725 224725
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457719 224675
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457700 224625

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	158	3	457750 225750
	<b>Potential for Compressible Ground Stability Hazards</b> Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	D6NW (NE)	247	3	457950 225650
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457650 225075
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D1NE (SW)	0	3	457600 224975
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457950 225100
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457650 225075
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NE (SE)	0	3	458100 225025
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NE (SE)	0	3	458025 224950
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	189	3	457750 225800
	<b>Potential for Ground Dissolution Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D6SE (NE)	214	3	457975 225575
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Landslide Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457950 225025
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457925 225000
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457900 224975
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457825 224950
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457775 224825
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457750 224775

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457725 224725
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457700 224625
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457719 224675
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	158	3	457750 225750
	<b>Potential for Running Sand Ground Stability Hazards</b> Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	D6NW (NE)	247	3	457950 225650
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NE (SE)	0	3	458000 225025
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457950 225025
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457925 225000
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (SE)	0	3	457900 224975
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457825 224950
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457775 224825
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457750 224775
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457725 224725
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457700 224625
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457719 224675
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6NW (N)	158	3	457750 225750
	<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	D6NW (NE)	247	3	457950 225650
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457775 225025



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 3 and 5% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457750 225000
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2SW (SE)	0	3	457950 224900
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	3	457575 224900
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457675 224800
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	(SW)	0	3	457325 224475
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2NW (SW)	0	3	457675 225150
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is in a radon affected area, as between 1 and 3% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457700 224825
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2NW (SW)	0	3	457675 225150
	<b>Radon Potential - Radon Affected Areas</b> Affected Area: The property is not in a radon affected area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	D2NE (SE)	0	3	458100 224925
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457775 225025
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: Basic radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457750 225000
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2SW (SE)	0	3	457950 224900
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D1SE (S)	0	3	457575 224900
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457675 224800
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	(SW)	0	3	457325 224475

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NW (SW)	0	3	457675 225150
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NW (S)	0	3	457719 225000
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2SW (S)	0	3	457700 224825
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NW (SW)	0	3	457675 225150
	<b>Radon Potential - Radon Protection Measures</b> Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	D2NE (SE)	0	3	458100 224925
	<b>Shallow Mining Hazards</b> No Hazard				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	<b>Local Nature Reserves</b> Name: Bure Park Multiple Area: N Area (m2): 83957.83 Source: Natural England Designation Date: 5th December 2005	(S)	53	4	457632 224175
8	<b>Nitrate Vulnerable Zones</b> Name: Not Supplied Description: Surface Water - Designated 2006 Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	(N)	0	5	458282 227852

Agency & Hydrological	Version	Update Cycle
<b>Contaminated Land Register Entries and Notices</b> Cherwell District Council - Environmental Health Department	February 2010	Annual Rolling Update
<b>Discharge Consents</b> Environment Agency - Anglian Region Environment Agency - Thames Region	April 2010 April 2010	Quarterly Quarterly
<b>Enforcement and Prohibition Notices</b> Environment Agency - Thames Region	May 2010	Quarterly
<b>Integrated Pollution Controls</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Integrated Pollution Prevention And Control</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>Local Authority Integrated Pollution Prevention And Control</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Controls</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Local Authority Pollution Prevention and Control Enforcements</b> Cherwell District Council - Environmental Health Department	April 2009	Annual Rolling Update
<b>Nearest Surface Water Feature</b> Ordnance Survey	February 2010	Quarterly
<b>Pollution Incidents to Controlled Waters</b> Environment Agency - Anglian Region Environment Agency - Thames Region	September 1999 September 1999	Not Applicable Not Applicable
<b>Prosecutions Relating to Authorised Processes</b> Environment Agency - Thames Region	March 2010	Monthly
<b>Prosecutions Relating to Controlled Waters</b> Environment Agency - Thames Region	May 2010	Monthly
<b>Registered Radioactive Substances</b> Environment Agency - Thames Region	April 2010	Quarterly
<b>River Quality</b> Environment Agency - Head Office	November 2001	Not Applicable
<b>River Quality Biology Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>River Quality Chemistry Sampling Points</b> Environment Agency - Head Office	January 2010	Annually
<b>Substantiated Pollution Incident Register</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Water Abstractions</b> Environment Agency - Anglian Region Environment Agency - Thames Region	April 2010 April 2010	Quarterly Quarterly
<b>Water Industry Act Referrals</b> Environment Agency - Thames Region	January 2010	Quarterly
<b>Groundwater Vulnerability</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Drift Deposits</b> Environment Agency - Head Office	January 1999	Not Applicable
<b>Source Protection Zones</b> Environment Agency - Head Office	April 2010	Quarterly
<b>Extreme Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flooding from Rivers or Sea without Defences</b> Environment Agency - Head Office	March 2010	Quarterly

Agency & Hydrological	Version	Update Cycle
<b>Areas Benefiting from Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flood Water Storage Areas</b> Environment Agency - Head Office	March 2010	Quarterly
<b>Flood Defences</b> Environment Agency - Head Office	March 2010	Quarterly
Waste	Version	Update Cycle
<b>BGS Recorded Landfill Sites</b> British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
<b>Historical Landfill Sites</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Integrated Pollution Control Registered Waste Sites</b> Environment Agency - Thames Region	October 2008	Not Applicable
<b>Licensed Waste Management Facilities (Landfill Boundaries)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Licensed Waste Management Facilities (Locations)</b> Environment Agency - Thames Region - West Area	April 2010	Quarterly
<b>Local Authority Landfill Coverage</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Local Authority Recorded Landfill Sites</b> Cherwell District Council - Environmental Health Department Oxfordshire County Council	May 2000 May 2000	Not Applicable Not Applicable
<b>Registered Landfill Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Transfer Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
<b>Registered Waste Treatment or Disposal Sites</b> Environment Agency - Thames Region - West Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
<b>Control of Major Accident Hazards Sites (COMAH)</b> Health and Safety Executive	May 2010	Bi-Annually
<b>Explosive Sites</b> Health and Safety Executive	January 2009	Bi-Annually
<b>Notification of Installations Handling Hazardous Substances (NIHHS)</b> Health and Safety Executive	November 2000	Not Applicable
<b>Planning Hazardous Substance Enforcements</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update
<b>Planning Hazardous Substance Consents</b> Cherwell District Council Oxfordshire County Council	July 2009 October 2009	Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
<b>BGS Recorded Mineral Sites</b> British Geological Survey - National Geoscience Information Service	April 2010	Bi-Annually
<b>BGS 1:625,000 Solid Geology</b> British Geological Survey - National Geoscience Information Service	August 1996	Not Applicable
<b>Brine Compensation Area</b> Cheshire Brine Subsidence Compensation Board	November 2002	Not Applicable
<b>Coal Mining Affected Areas</b> The Coal Authority - Mining Report Service	January 2006	As notified
<b>Mining Instability</b> Ove Arup & Partners	October 2000	Not Applicable
<b>Natural and Mining Cavities</b> Peter Brett Associates	November 2009	Bi-Annually
<b>Potential for Collapsible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Compressible Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Ground Dissolution Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Landslide Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Running Sand Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Potential for Shrinking or Swelling Clay Ground Stability Hazards</b> British Geological Survey - National Geoscience Information Service	January 2009	Annually
<b>Radon Potential - Radon Affected Areas</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Radon Potential - Radon Protection Measures</b> British Geological Survey - National Geoscience Information Service	May 2007	As notified
<b>Shallow Mining Hazards</b> British Geological Survey - National Geoscience Information Service	August 2002	Not Applicable
Industrial Land Use	Version	Update Cycle
<b>Contemporary Trade Directory Entries</b> Thomson Directories	March 2010	Quarterly
<b>Fuel Station Entries</b> Catalist Ltd - Experian Catalist	February 2010	Quarterly

Sensitive Land Use	Version	Update Cycle
<b>Areas of Adopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Unadopted Green Belt</b> Cherwell District Council	March 2010	As notified
<b>Areas of Outstanding Natural Beauty</b> Natural England	December 2009	Bi-Annually
<b>Environmentally Sensitive Areas</b> Natural England	December 2009	Annually
<b>Forest Parks</b> Forestry Commission	April 1997	Not Applicable
<b>Local Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>Marine Nature Reserves</b> Natural England	September 2009	Bi-Annually
<b>National Nature Reserves</b> Natural England	December 2009	Bi-Annually
<b>National Parks</b> Natural England	December 2009	Bi-Annually
<b>Nitrate Sensitive Areas</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2009	Not Applicable
<b>Nitrate Vulnerable Zones</b> Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	February 2009	Annually
<b>Ramsar Sites</b> Natural England	December 2009	Bi-Annually
<b>Sites of Special Scientific Interest</b> Natural England	December 2009	Bi-Annually
<b>Special Areas of Conservation</b> Natural England	December 2009	Bi-Annually
<b>Special Protection Areas</b> Natural England	December 2009	Bi-Annually

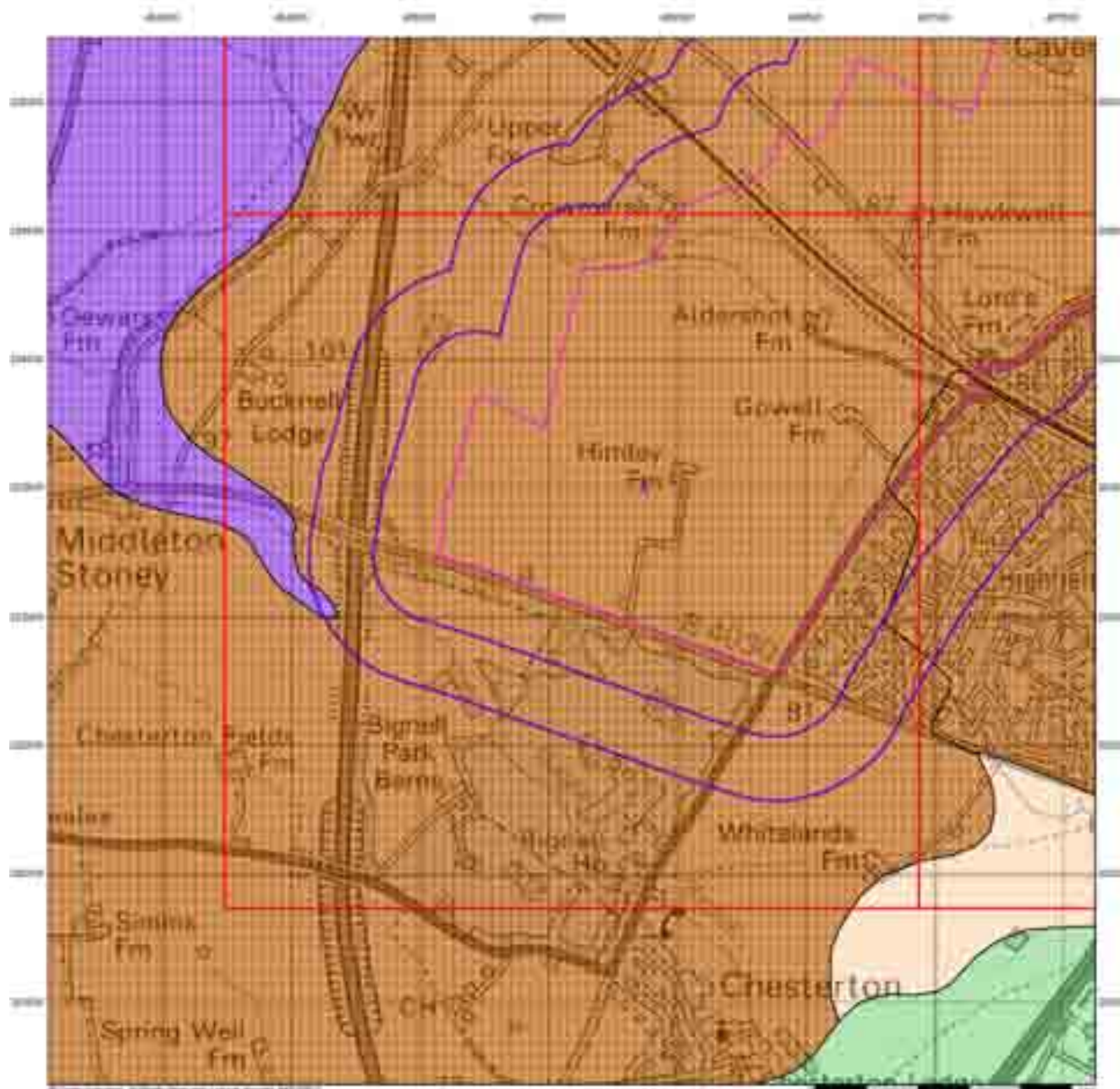
A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	
Centre for Ecology and Hydrology	
Countryside Council for Wales	
Scottish Natural Heritage	
Natural England	
Health Protection Agency	
Ove Arup	
Peter Brett Associates	



Contact	Name and Address	Contact Details
1	<b>Environment Agency - National Customer Contact Centre (NCCC)</b> PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 08708 506 506 Email: <a href="mailto:enquiries@environment-agency.gov.uk">enquiries@environment-agency.gov.uk</a>
2	<b>Cherwell District Council - Environmental Health Department</b> Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 extn 4511 Fax: 01295 270028 Website: <a href="http://www.cherwell-dc.gov.uk">www.cherwell-dc.gov.uk</a>
3	<b>British Geological Survey - Enquiry Service</b> British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: <a href="mailto:enquiries@bgs.ac.uk">enquiries@bgs.ac.uk</a> Website: <a href="http://www.bgs.ac.uk">www.bgs.ac.uk</a>
4	<b>Natural England</b> Northminster House, Northminster Road, Peterborough, Cambridgeshire, PE1 1UA	Telephone: 0845 600 3078 Fax: 01733 455103 Email: <a href="mailto:enquiries@naturalengland.org.uk">enquiries@naturalengland.org.uk</a> Website: <a href="http://www.naturalengland.org.uk">www.naturalengland.org.uk</a>
5	<b>Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)</b> Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
6	<b>Oxfordshire County Council</b> County Hall, New Road, Oxford, Oxfordshire, OX1 1ND	Telephone: 01865 792422 Fax: 01865 810106 Email: <a href="mailto:environmental.services@oxfordshire.gov.uk">environmental.services@oxfordshire.gov.uk</a> Website: <a href="http://www.oxfordshire.gov.uk">www.oxfordshire.gov.uk</a>
-	<b>Health Protection Agency - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards</b> Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: <a href="mailto:radon@hpa.org.uk">radon@hpa.org.uk</a> Website: <a href="http://www.hpa.org.uk">www.hpa.org.uk</a>
-	<b>Landmark Information Group Limited</b> The Smith Centre, Henley On Thames, Oxfordshire, RG9 6AB	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: <a href="mailto:customerservices@landmarkinfo.co.uk">customerservices@landmarkinfo.co.uk</a> Website: <a href="http://www.landmarkinfo.co.uk">www.landmarkinfo.co.uk</a>

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



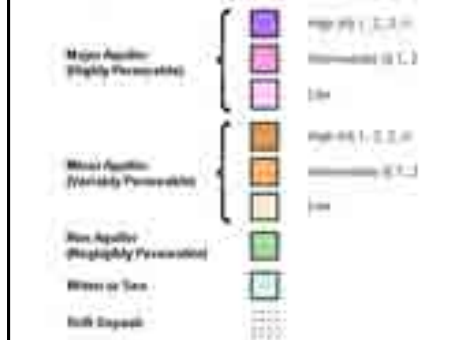
## Groundwater Vulnerability

### General

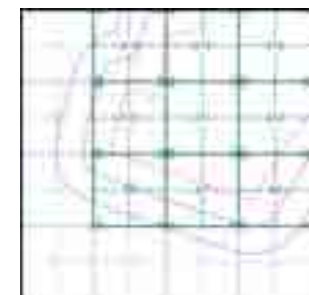


### Agency and Hydrological

#### Geological Classes



### Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

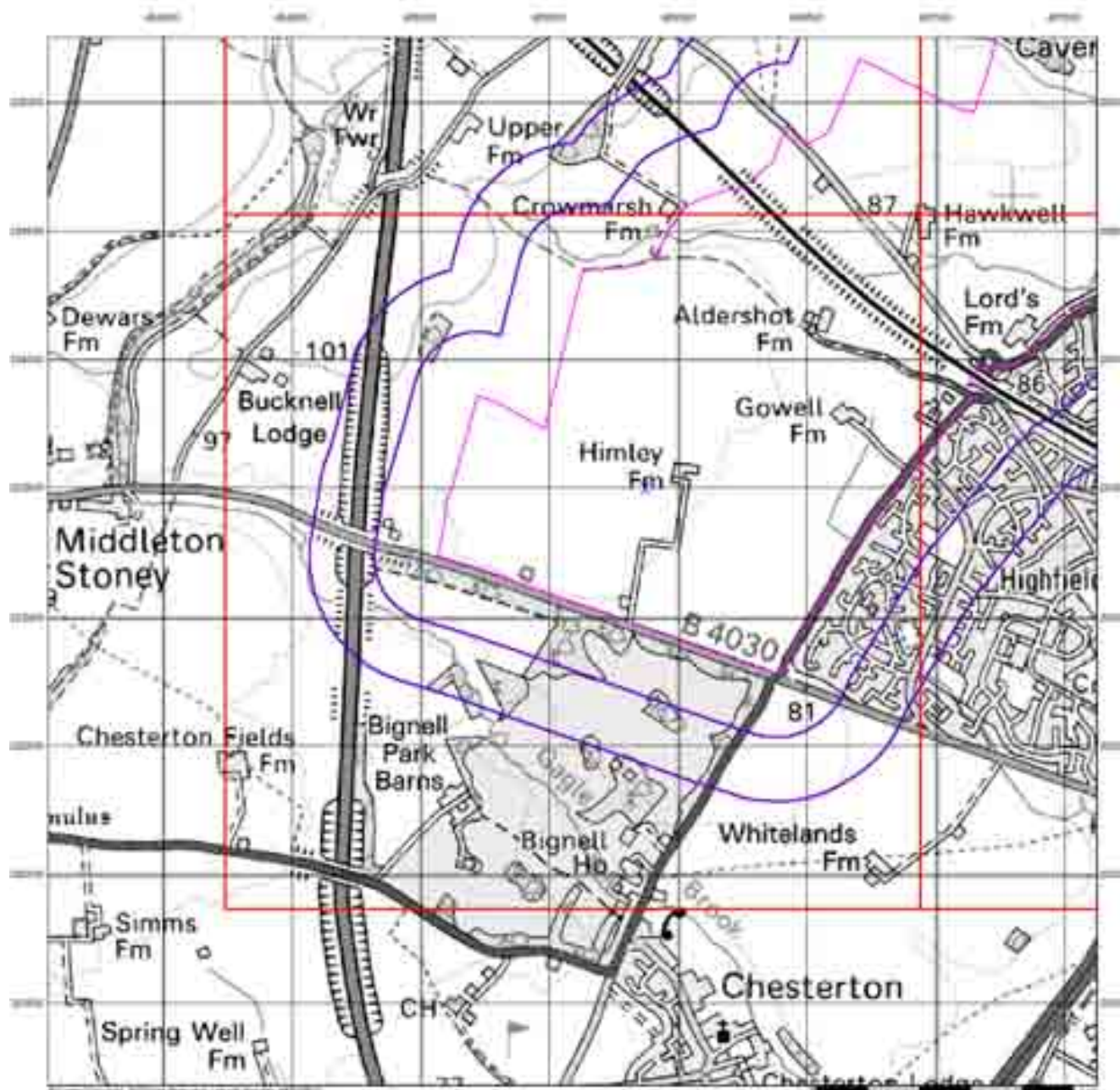
### Site Details

Site at, Bicester, Oxfordshire



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





## Source Protection Zones

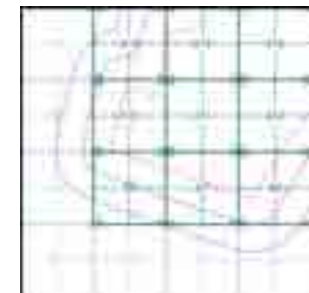
### General

- Boundary Line
- Boundary Line
- Boundary Line
- Zone 1
- Zone 2
- Zone 3

### Agency and Hydrological

- Source Protection Zone 1
- Source Protection Zone 2
- Source Protection Zone 3
- Catchment Boundary
- Source Protection Zone Boundary

## Site Sensitivity Context Map - Slice A



## Order Details

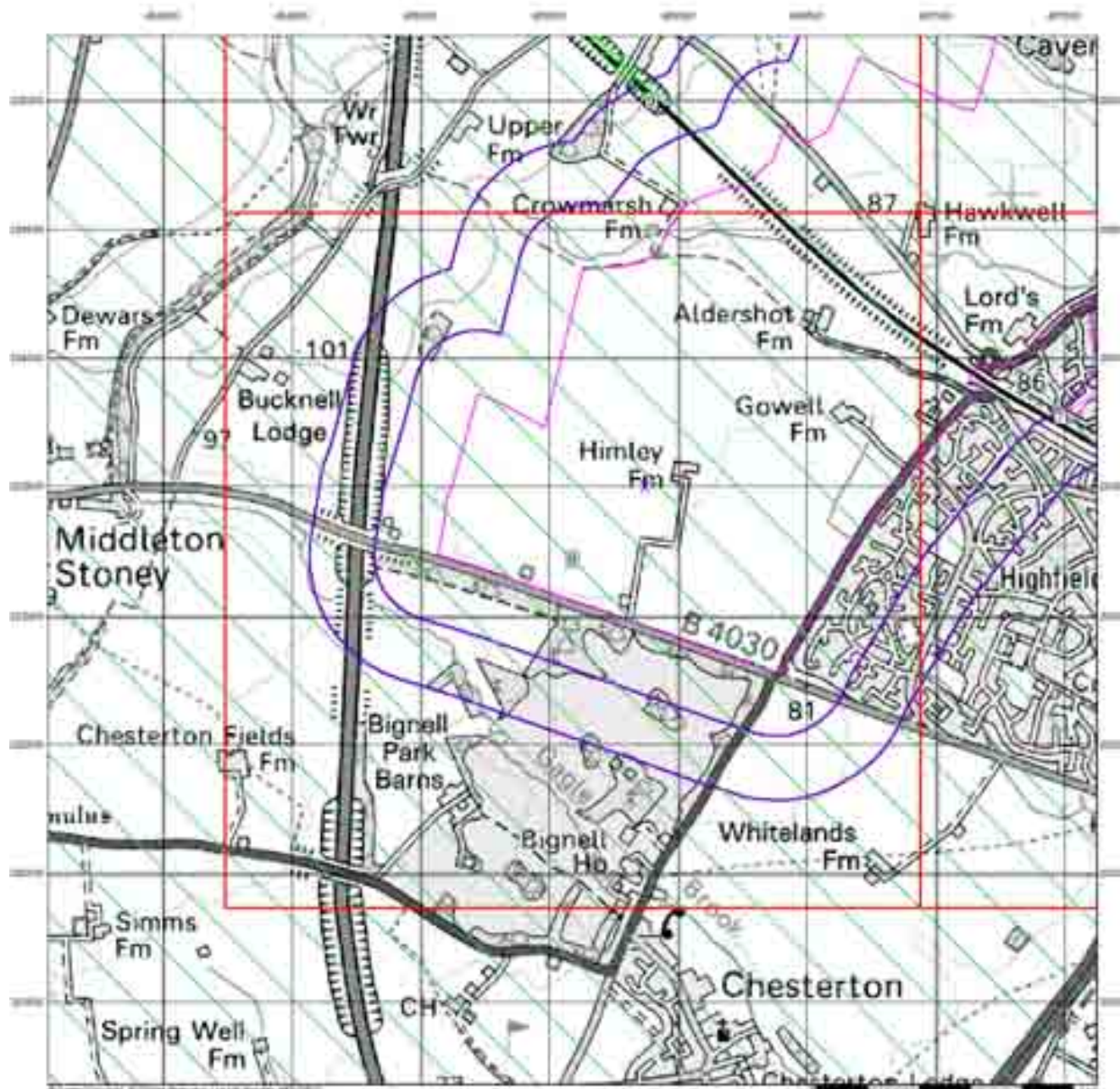
Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

## Site Details

Site at, Bicester, Oxfordshire



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



## Sensitive Land Uses

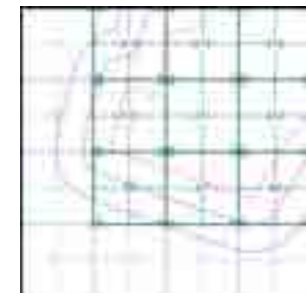
### General

- Sensitive Land Use
- Sensitive Land Use
- Sensitive Land Use

### Sensitive Land Uses

- Area of Apparent Open Field
- Area of Historical Interest
- Area of Geological Interest
- Environmentally Sensitive Area
- Flood Plain
- Local Nature Reserve
- Major Nature Reserve
- National Nature Reserve
- National Park
- Nature Sensitive Area
- Nature Subordinate Area
- Nature Subordinate Area
- Nature Subordinate Area
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

## Site Sensitivity Context Map - Slice A



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

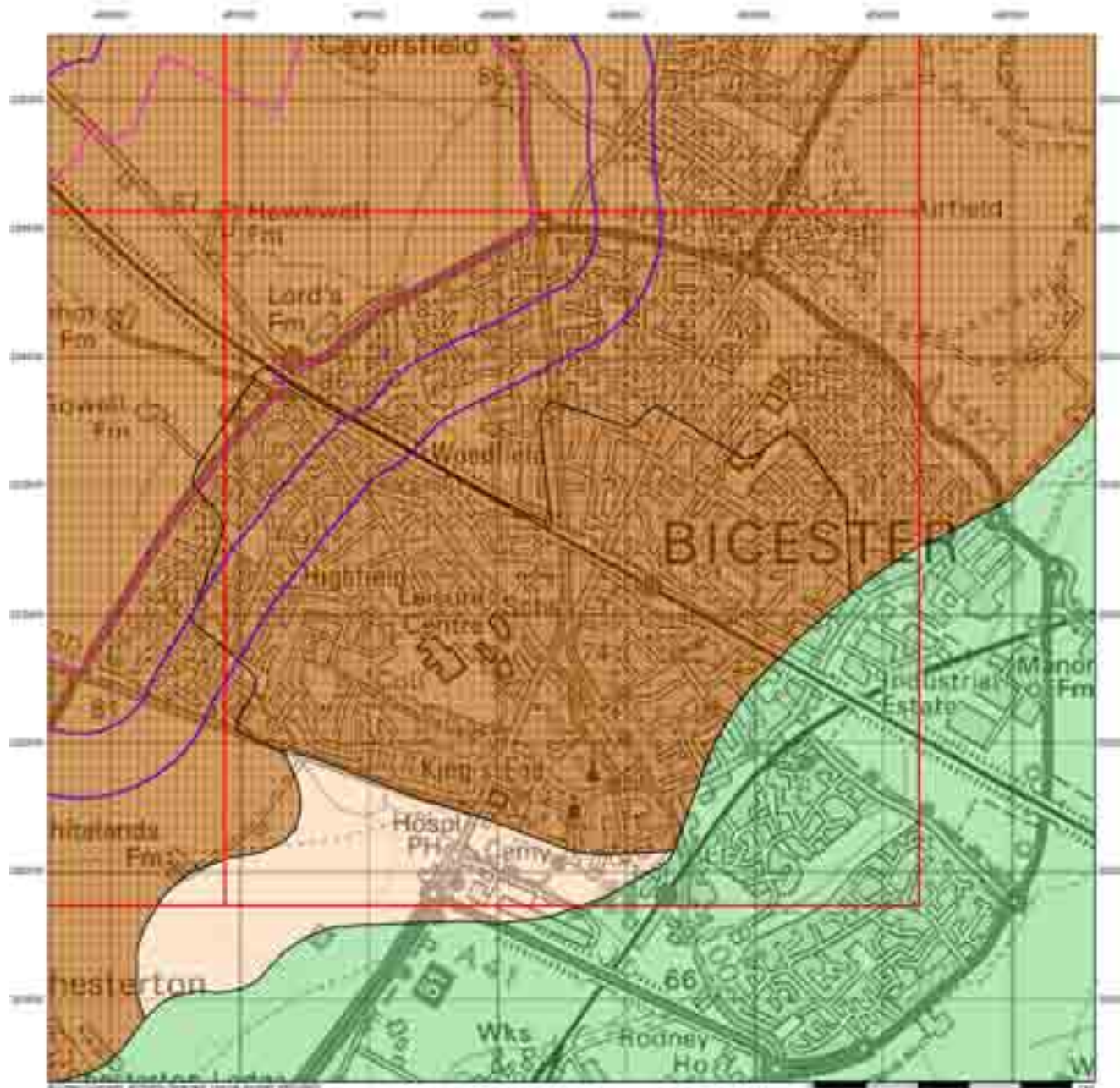
### Site Details

Site at, Bicester, Oxfordshire



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

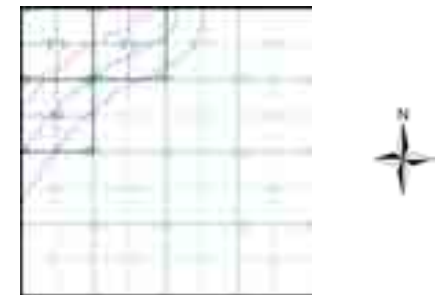




## Groundwater Vulnerability



### Site Sensitivity Context Map - Slice B



## Order Details

Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457570, 224010
Slice:	B
Site Area (Ha):	395.55
Search Buffer (m):	500

Customer Ref: UA001881

National Grid Reference: 457570, 224010

Slice: B

Site Area (Ha):	395.55
-----------------	--------

Search Buffer (m): 500

## Site Details

Site at, Bicester, Oxfordshire



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)

Fax: 0844 844 9951

Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





## Source Protection Zones

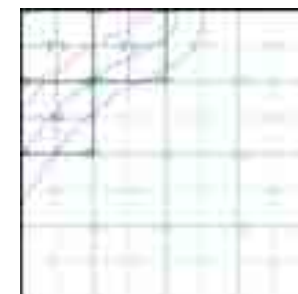
### General

- Boundary Line
- Boundary Buffer
- Boundary Buffer
- Boundary Buffer

### Agency and Hydrological

- Groundwater Protection Zone 1
- Groundwater Protection Zone 2
- Groundwater Protection Zone 3
- Catchment of Special Interest
- Groundwater Protection Zone 4

## Site Sensitivity Context Map - Slice B



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457570, 224010  
 Slice: B  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire



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





## Sensitive Land Uses

### General

- Greenbelt
- Air Quality Management Area
- Existing International Airport
- Park
- Allotment

### Sensitive Land Uses

- Area of Apparent Green Belt
- Area of Outstanding Natural Beauty
- Area of Contaminated Land
- Environmentally Sensitive Area
- Floodplain
- Local Nature Reserve
- Major Nature Reserve
- National Nature Reserve
- National Park
- Nature Conservation Area
- Nature Conservation Area
- Nature Conservation Area
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

## Site Sensitivity Context Map - Slice B



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457570, 224010  
 Slice: B  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

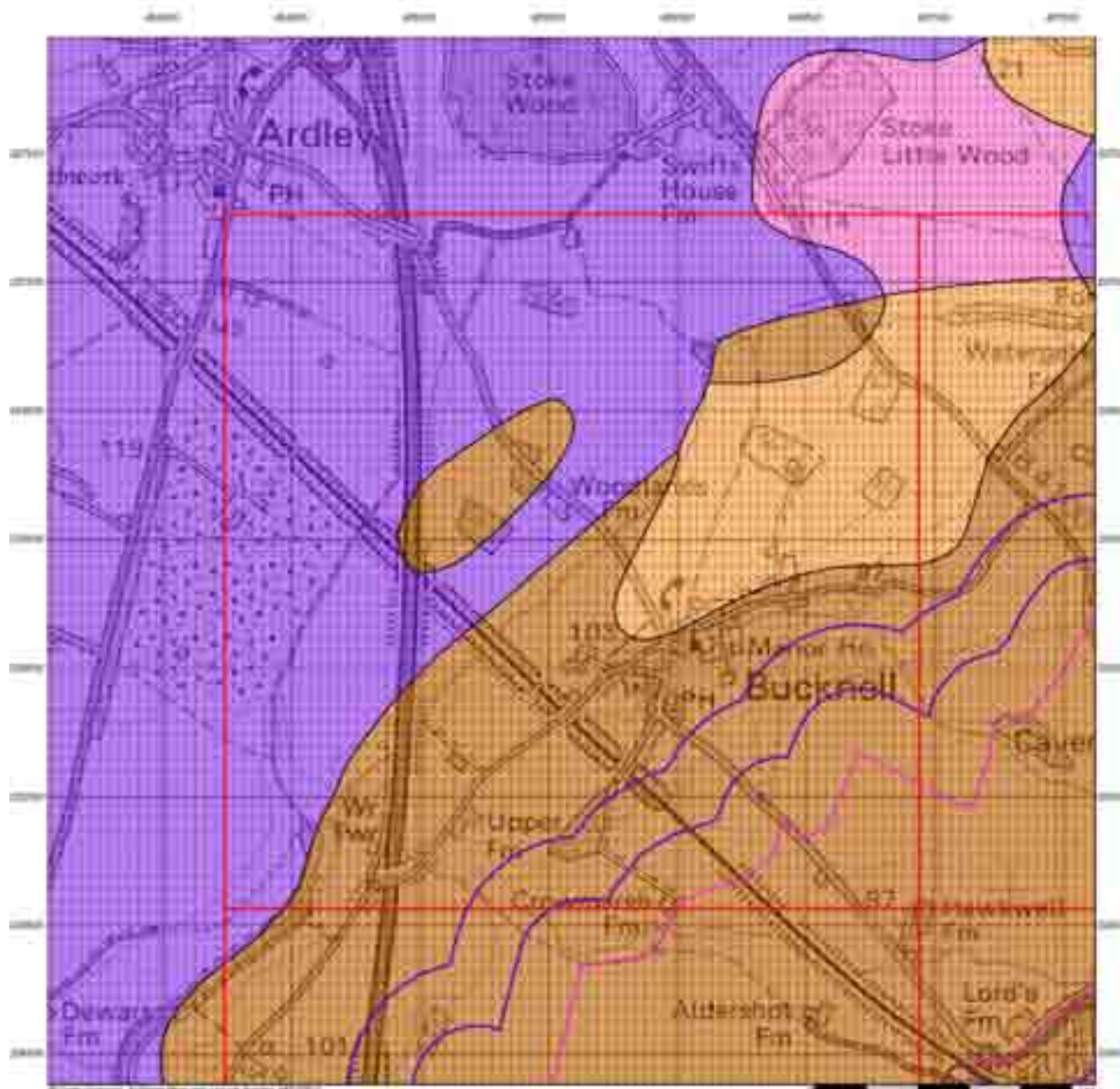
## Site Details

Site at, Bicester, Oxfordshire



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





## Groundwater Vulnerability

### General



### Agency and Hydrological

#### Geological Classes

Major Aquifer (Slightly Permeable)

Minor Aquifer (Variably Permeable)

Non-Aquifer (Highly Permeable)

Water or Soil

Soil Deposits

#### Soil Classes

High (H) 1-2.2.0

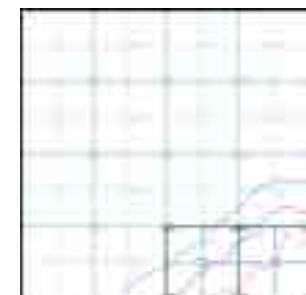
Intermediate (I) 1.1

Low (L) 1-2.2.0

Intermediate (I) 1.1

Low (L) 1-2.2.0

### Site Sensitivity Context Map - Slice C



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 456330, 224990  
 Slice: C  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

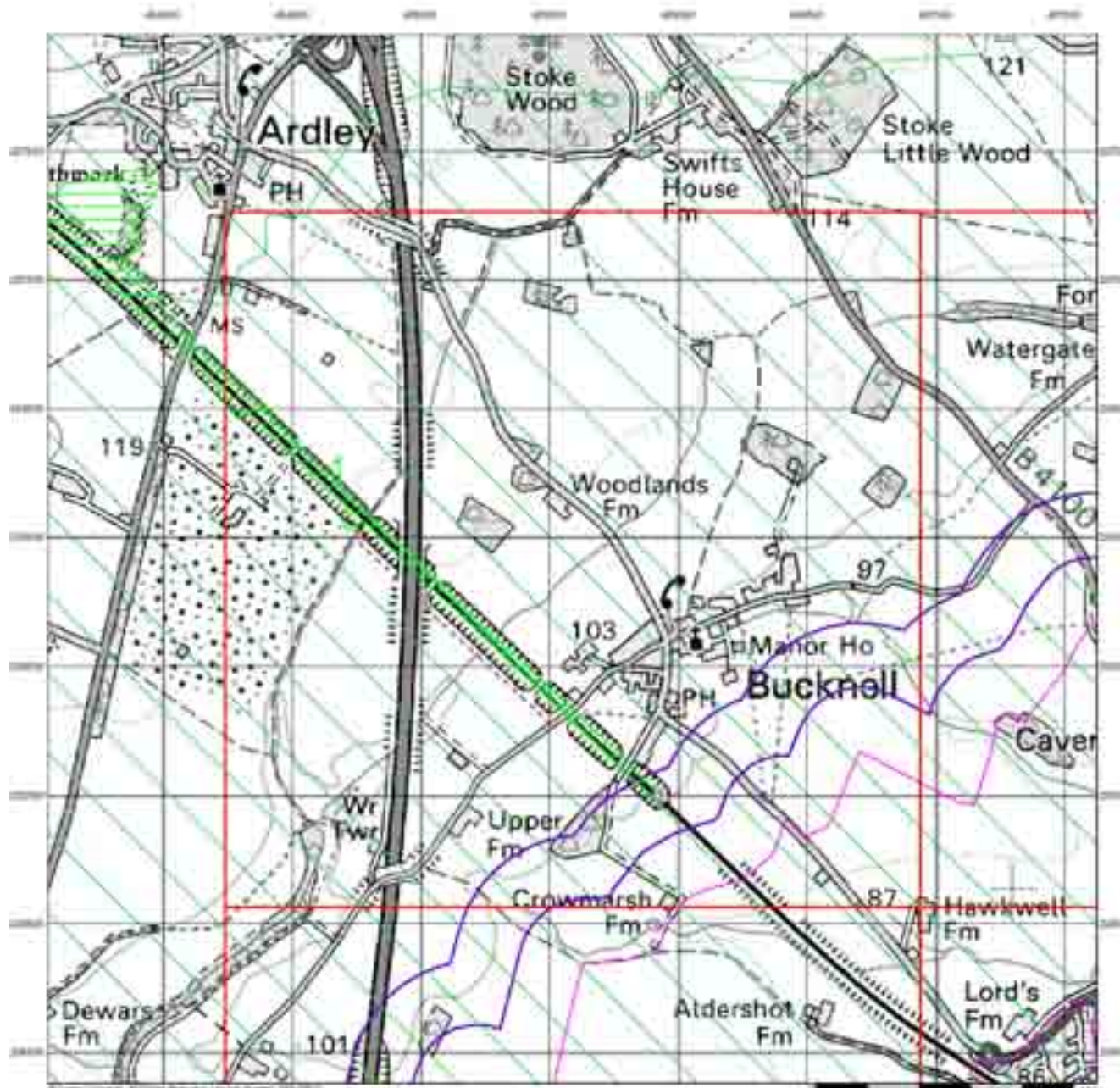
Site at, Bicester, Oxfordshire



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







## Sensitive Land Uses

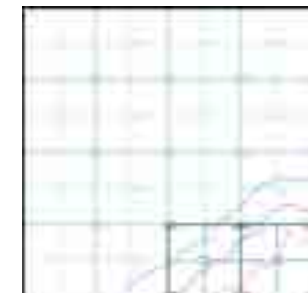
### General



### Sensitive Land Uses



### Site Sensitivity Context Map - Slice C



## Order Details

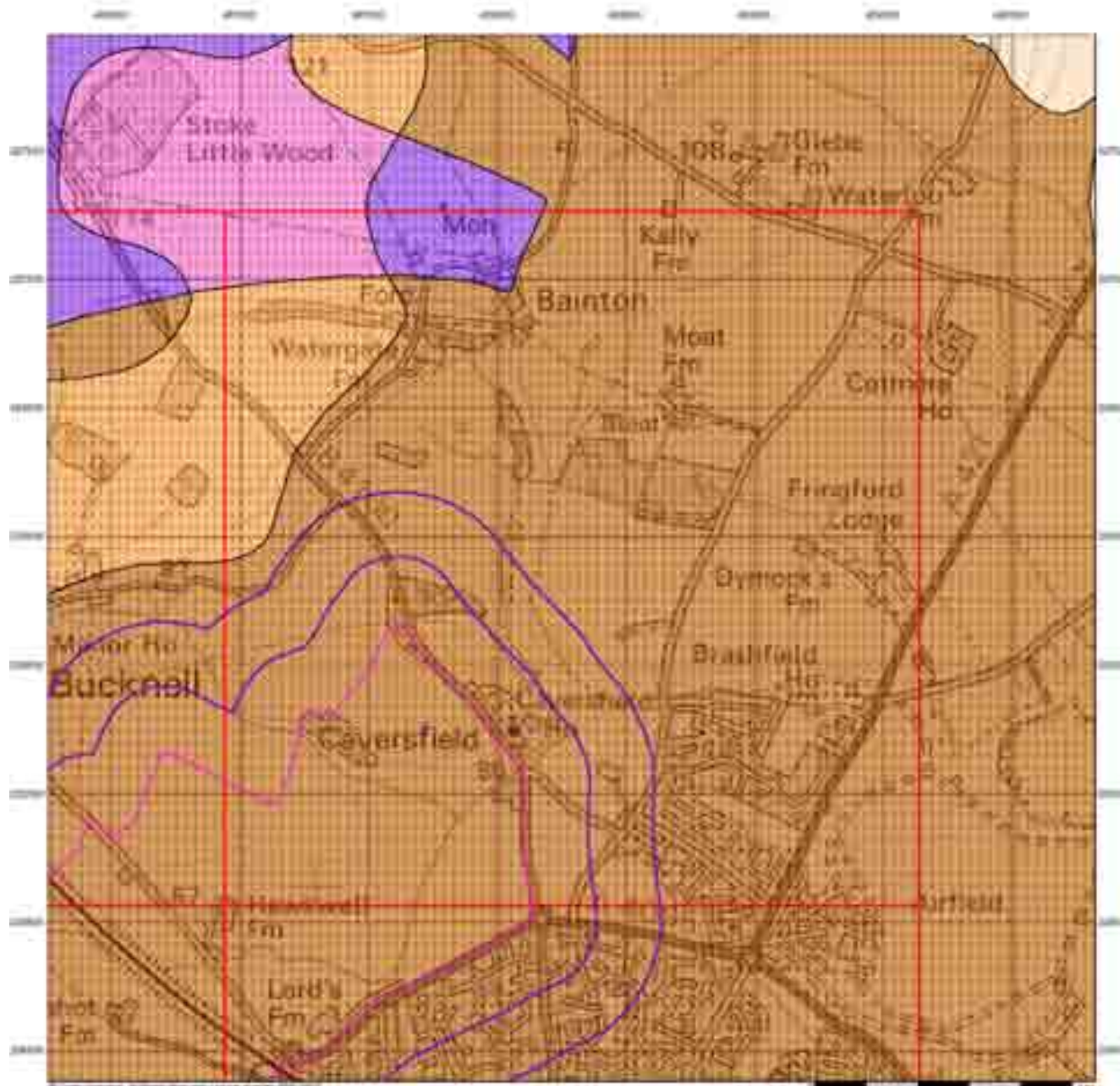
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Customer Ref: UA001881  
National Grid Reference: 456330, 224990  
Slice: C  
Site Area (Ha): 395.55  
Search Buffer (m): 500

## Site Details

Site at, Bicester, Oxfordshire



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)



## Groundwater Vulnerability

### General

Groundwater Level  
 Groundwater Quality  
 Groundwater Flow  
 Groundwater Storage  
 Groundwater Recharge  
 Groundwater Discharge  
 Groundwater Contamination

### Agency and Hydrological

#### Geological Classes

Major Aquifer  
 (Slightly Permeable)

Minor Aquifer  
 (Variable Permeability)

Non-Aquifer  
 (Highly Permeable)

Water or Soil  
 Bulk Storage

#### Soil Classes

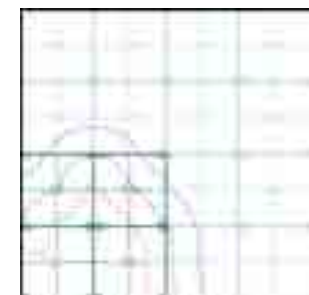
High (H) 1-2.2.0  
 Intermediate (I) 1-2.2.0  
 Low (L) 1-2.2.0

High (H) 1-2.2.0  
 Intermediate (I) 1-2.2.0  
 Low (L) 1-2.2.0

High (H) 1-2.2.0  
 Intermediate (I) 1-2.2.0  
 Low (L) 1-2.2.0

High (H) 1-2.2.0  
 Intermediate (I) 1-2.2.0  
 Low (L) 1-2.2.0

### Site Sensitivity Context Map - Slice D



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457720, 225250  
 Slice: D  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

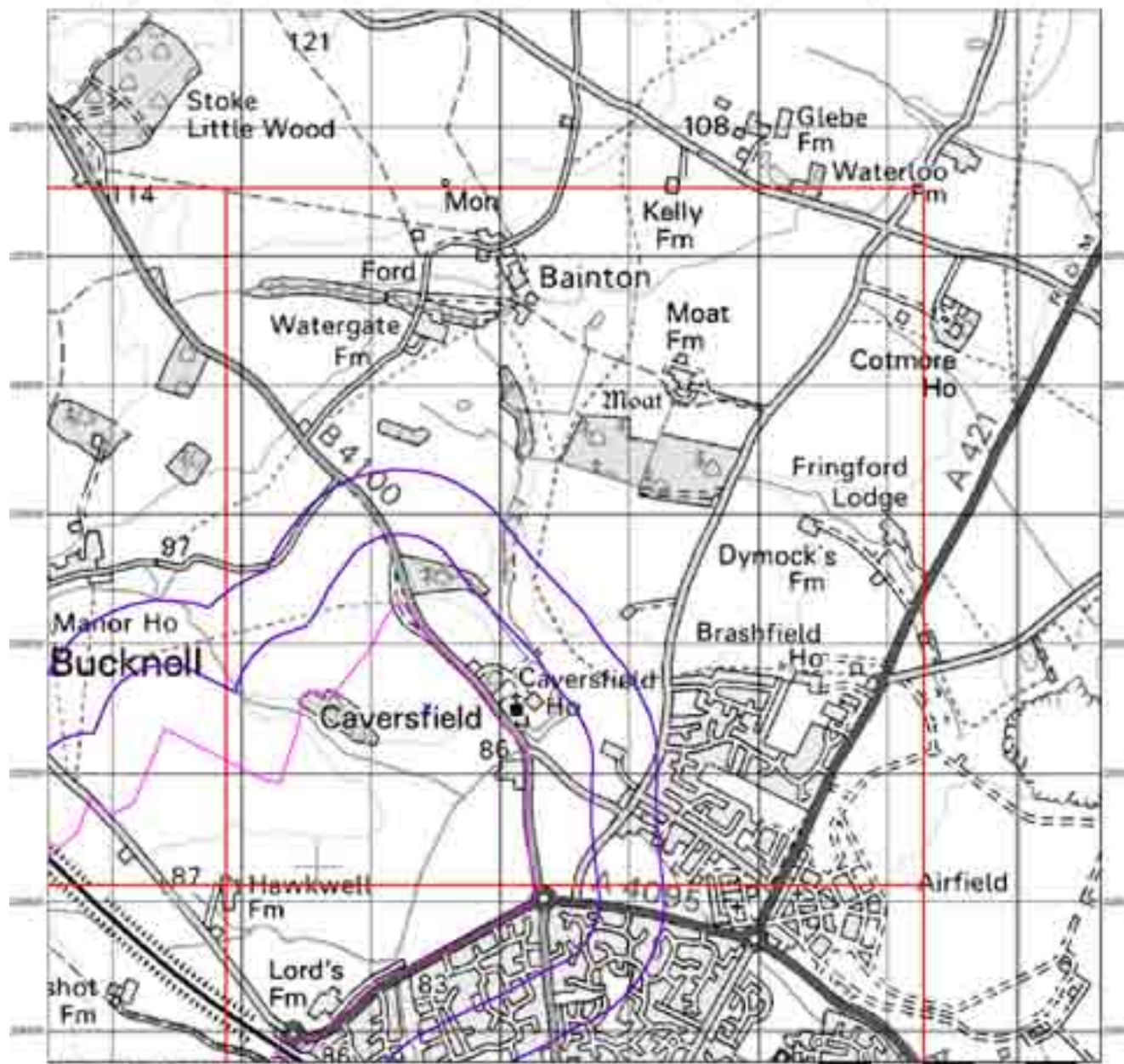
### Site Details

Site at, Bicester, Oxfordshire



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

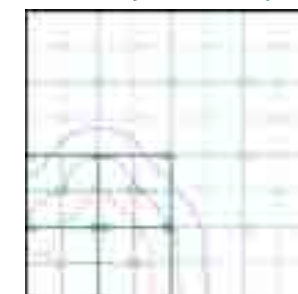




## Source Protection Zones



## Site Sensitivity Context Map - Slice D



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457720, 225250  
 Slice: D  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

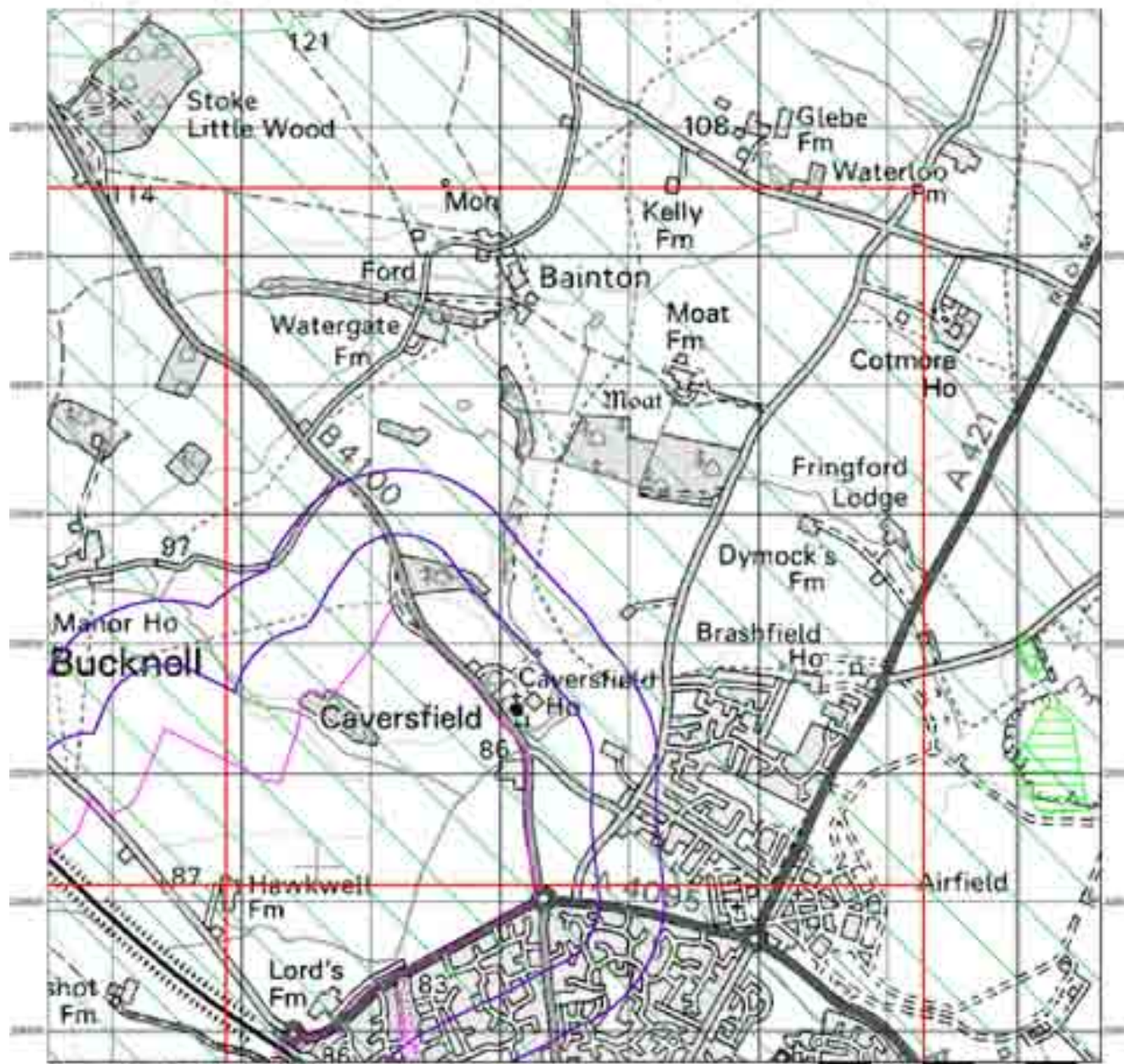
## Site Details

Site at, Bicester, Oxfordshire



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





## Sensitive Land Uses

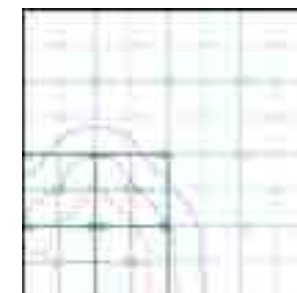
### General

- Greenfield Site
- Brownfield Site
- Sensitive Land Use
- Park
- Airfield

### Sensitive Land Uses

- Area of Apparent Green Belt
- Area of Historical Interest
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Flood Plain
- Local Nature Reserve
- Major Nature Reserve
- National Nature Reserve
- National Park
- Nature Sensitive Area
- Nature Suburban Core
- Natural Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

## Site Sensitivity Context Map - Slice D



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457720, 225250  
 Slice: D  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire



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











Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	455870, 223500
Slice:	A
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire







Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	455870, 223500
Slice:	A
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire



Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	455870, 223500
Slice:	A
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire







Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	455870, 223500
Slice:	A
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire





Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	455870, 223500
Slice:	A
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire







Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	455870, 223500
Slice:	A
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire





Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Plot Buffer (m): 50

Site at, Bicester, Oxfordshire







Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 457570, 224010  
Slice: B  
Site Area (Ha): 395.55  
Plot Buffer (m): 50

Site at, Bicester, Oxfordshire



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457570, 224010
Slice:	B
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire







Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457570, 224010
Slice:	B
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire



Tel: 0844 844 9952  
Fax: 0844 844 9951  
Web: [www.envirocheck.co.uk](http://www.envirocheck.co.uk)





Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	456330, 224990
Slice:	C
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire





Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	456330, 224990
Slice:	C
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire





Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457720, 225250
Slice:	D
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire





Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457720, 225250
Slice:	D
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire







Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457720, 225250
Slice:	D
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire





The map shows a grid of green lines. A black box highlights a specific area, and a pink box highlights another area. A north arrow is located in the top right corner of the map.

Order Number:	31544761_1_1
Customer Ref:	UA001881
National Grid Reference:	457720, 225250
Slice:	D
Site Area (Ha):	395.55
Plot Buffer (m):	50

Site at, Bicester, Oxfordshire







Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 500

Site at, Bicester, Oxfordshire





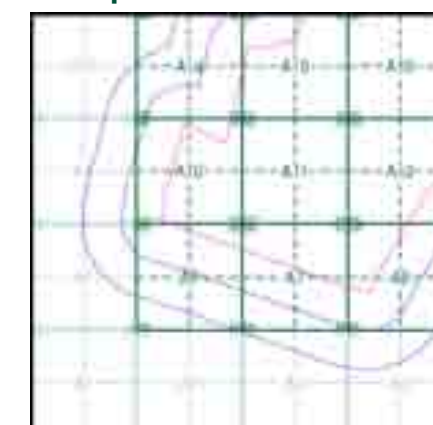
### General

-  Specified Site
-  Specified Boundary
-  Sewing Machine 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 Breaching from Flood Defence
-  Flood Water Storage Areas
-  Flood Defence

### Flood Map - Slice A



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire



### General

-  Specified Site
-  Specified Buffer(s)
-  Designated Reference Point
-  Way ID
-  Details of Type at Location

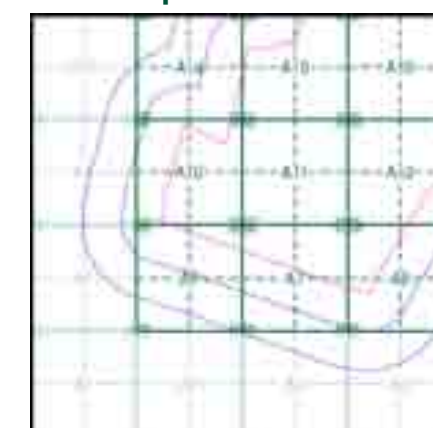
### Agency and Hydrological (Boreholes)

-  BGS Borehole (depth 0 - 10m)
-  BGS Borehole (depth 10 - 30m)
-  BGS Borehole (depth 30m +)
-  Contaminated
-  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](http://www.envirocheck.co.uk).

### Borehole Map - Slice A



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire



<b>General</b>	
	Special Site
	Special Site 1/2
	Special Site 1/4
	Special Site 1/8
	Special Site 1/16
	Special Site 1/32
	Special Site 1/64
	Special Site 1/128
	Special Site 1/256
	Special Site 1/512
	Special Site 1/1024
	Special Site 1/2048
	Special Site 1/4096
	Special Site 1/8192
	Special Site 1/16384
	Special Site 1/32768
	Special Site 1/65536
	Special Site 1/131072
	Special Site 1/262144
	Special Site 1/524288
	Special Site 1/1048576
	Special Site 1/2097152
	Special Site 1/4194304
	Special Site 1/8388608
	Special Site 1/16777216
	Special Site 1/33554432
	Special Site 1/67108864
	Special Site 1/134217728
	Special Site 1/268435456
	Special Site 1/536870912
	Special Site 1/1073741824
	Special Site 1/2147483648
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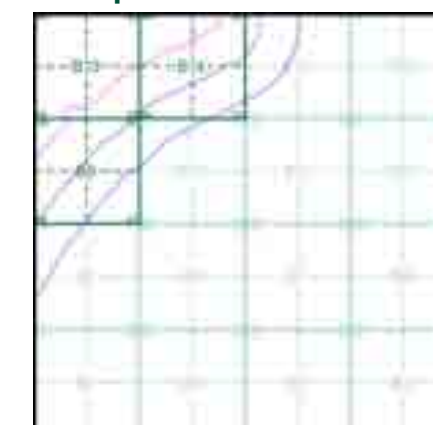
### General

-  Specified Site
-  Specified Boundary
-  Sewerage Mainline

### Agency and Hydrological (Flood)

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

### Flood Map - Slice B



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457570, 224010  
 Slice: B  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire



### General

-  Specified Site
-  Specified Buffer(s)
-  Designated Reference Point
-  Way ID
-  Details of Type & Location

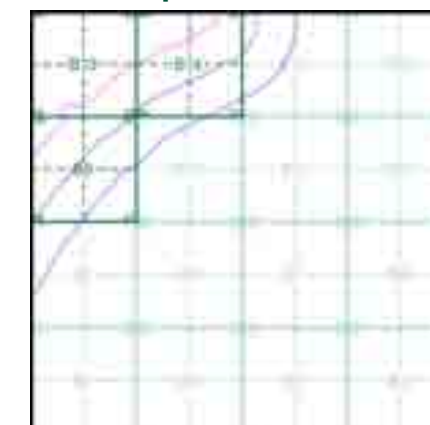
### Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Contaminated
-  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](http://www.envirocheck.co.uk).

### Borehole Map - Slice B



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457570, 224010  
 Slice: B  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire





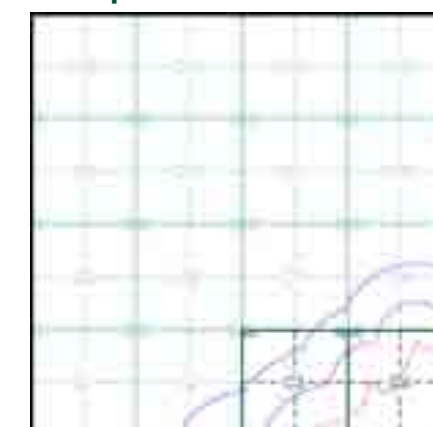
### General

-  Specified Site
-  Specified Buffer(s)
-  Breaching River/Stream/Coast

### Agency and Hydrological (Flood)

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

### Flood Map - Slice C

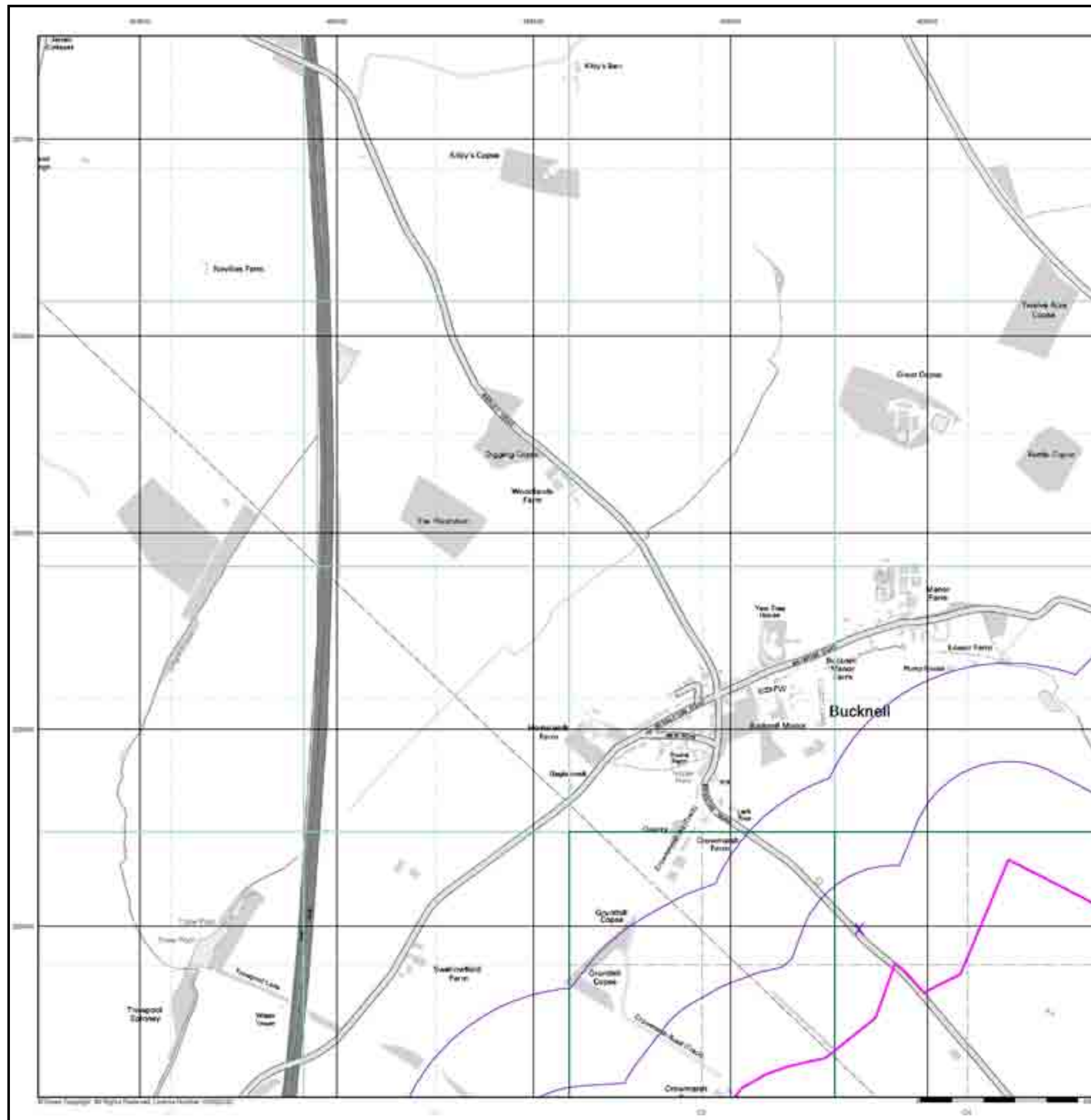


### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 456330, 224990  
 Slice: C  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire





### General

-  Specified Site
-  Specified Buffer(s)
-  Designated Reference Point
-  Way ID
-  Details of Type at Location

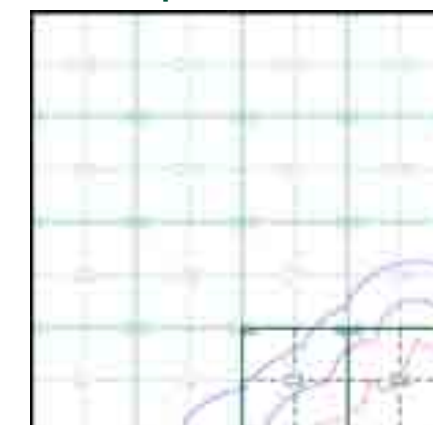
### Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Contaminated
-  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](http://www.envirocheck.co.uk).

### Borehole Map - Slice C



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 456330, 224990  
 Slice: C  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire



Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 457720, 225250  
Slice: D  
Site Area (Ha): 395.55  
Search Buffer (m): 500

Site at, Bicester, Oxfordshire





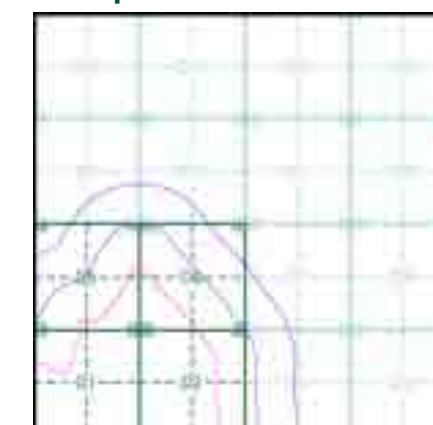
### General

-  Specified Site
-  Specified Buffer(s)
-  Sewing Machine Point

### Agency and Hydrological (Flood)

-  Extreme Flooding from River or Sea without Defences (Zone 2)
-  Flooding from River or Sea without Defences (Zone 3)
-  Area Breaching from Flood Defence
-  Flood Water Storage Area
-  Flood Defence

### Flood Map - Slice D



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457720, 225250  
 Slice: D  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire

### General

-  Specified Site
-  Specified Buffer(s)
-  Designated Reference Point
-  Way ID
-  Details of Type at Location

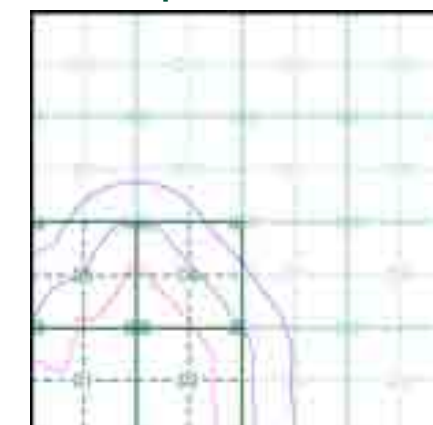
### Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Contaminated
-  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](http://www.envirocheck.co.uk).

### Borehole Map - Slice D



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 457720, 225250  
 Slice: D  
 Site Area (Ha): 395.55  
 Search Buffer (m): 500

### Site Details

Site at, Bicester, Oxfordshire

## Appendix B

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### Landmark Envirocheck Historical Maps



# 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



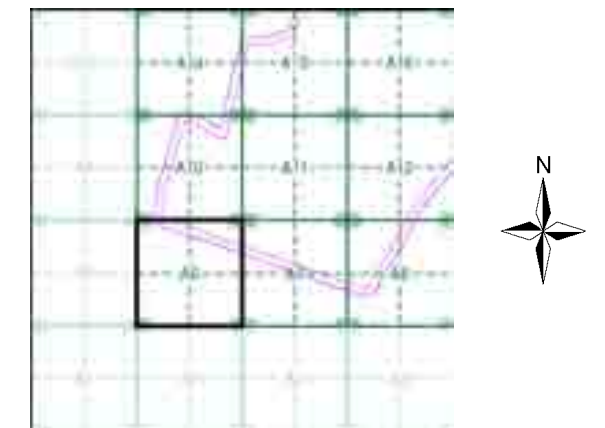
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1881	2
Oxfordshire	1:2,500	1899 - 1900	3
Oxfordshire	1:2,500	1922	4
Ordnance Survey Plan	1:2,500	1967	5
Additional SIMs	1:2,500	1985 - 1991	6
Large-Scale National Grid Data	1:2,500	1994	7

## Historical Map - Segment A6



## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



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



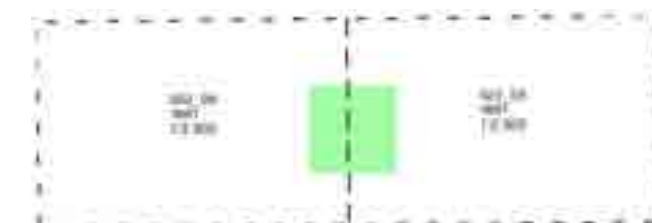
## Oxfordshire

Published 1881

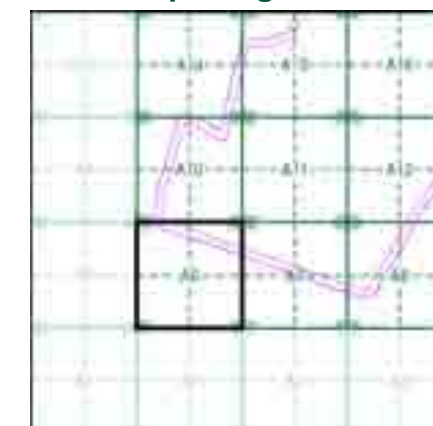
Source map scale - 1:2,500

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 A6

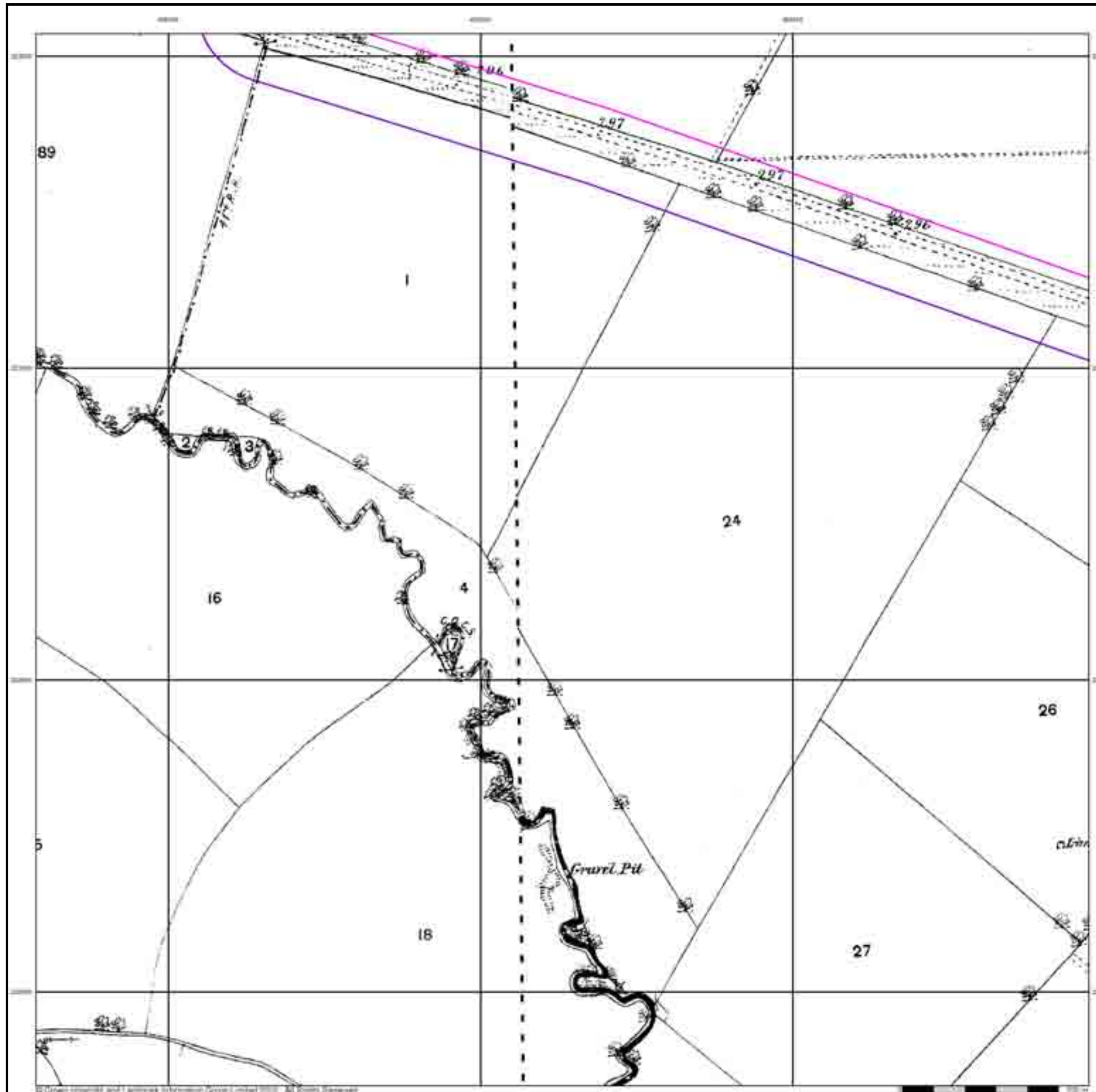


### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire







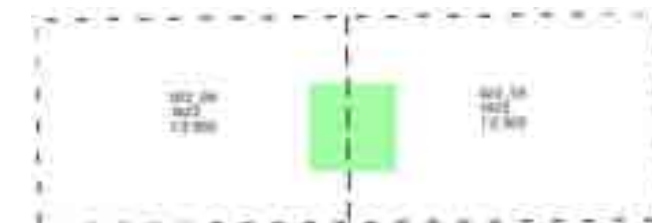
## Oxfordshire

Published 1922

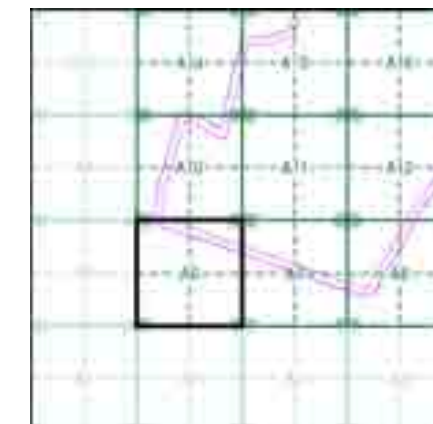
Source map scale - 1:2,500

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 A6

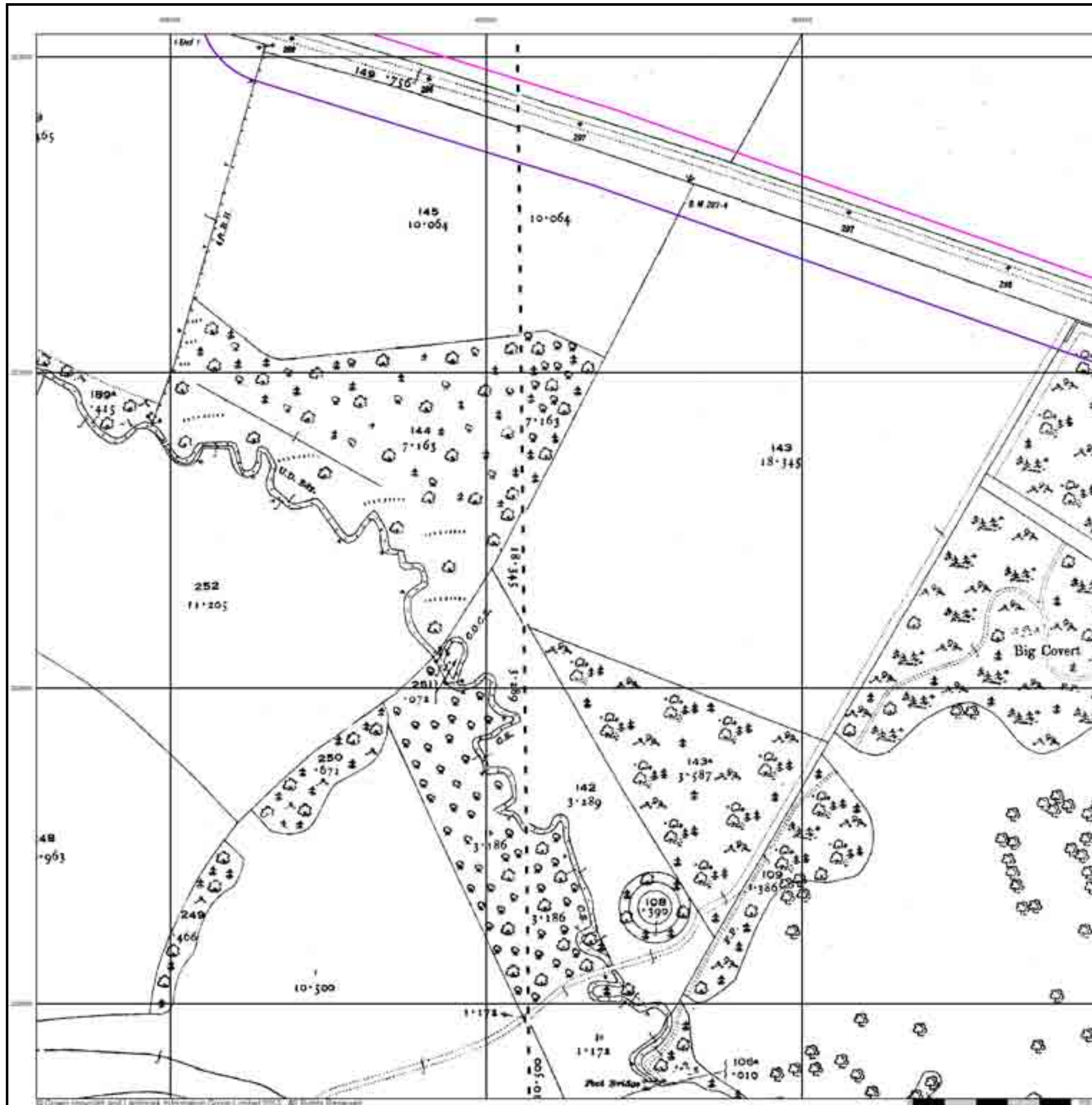


## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire





## Ordnance Survey Plan

Published 1967

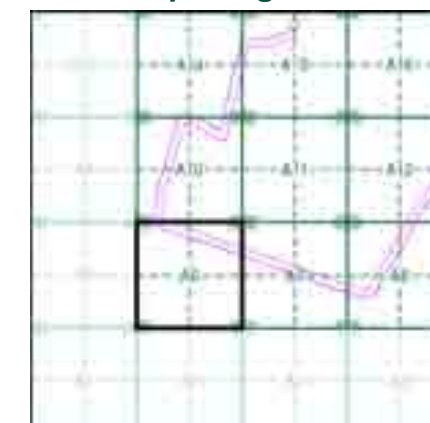
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A6



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



## Additional SIMs

Published 1985 - 1991

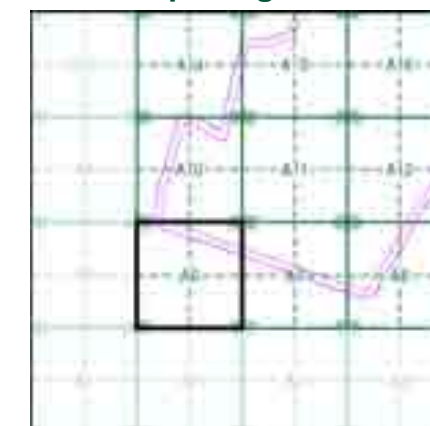
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A6



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire

# Historical Mapping Legends

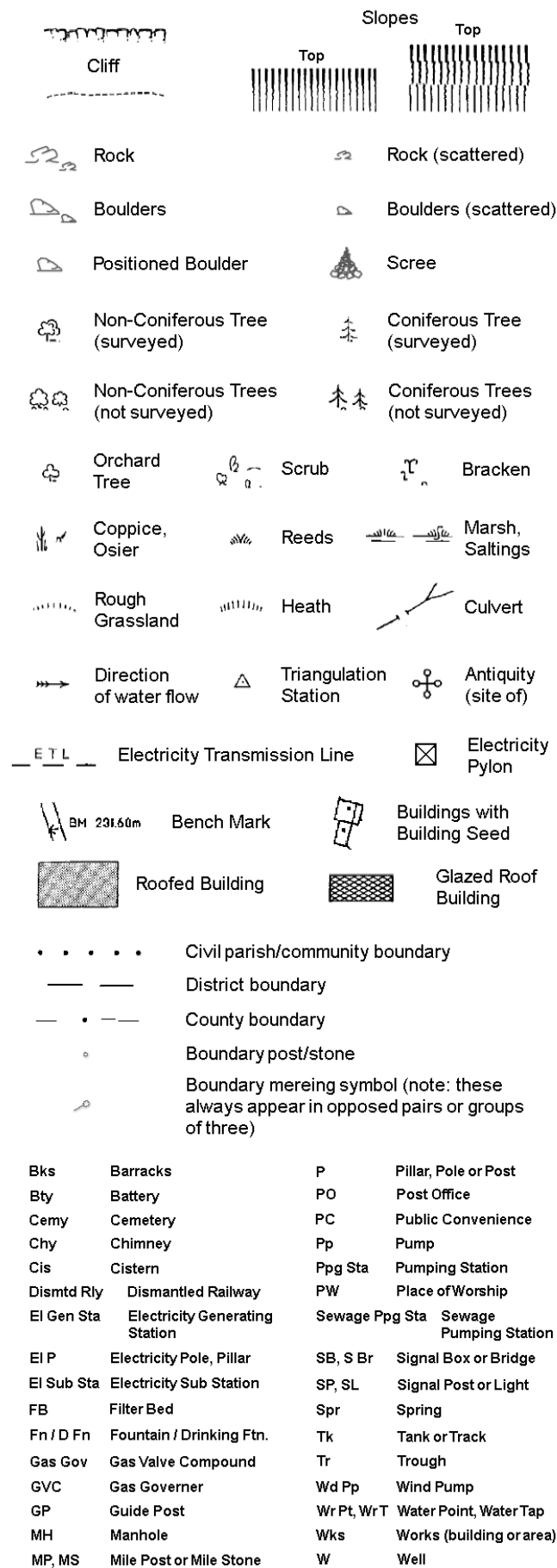
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



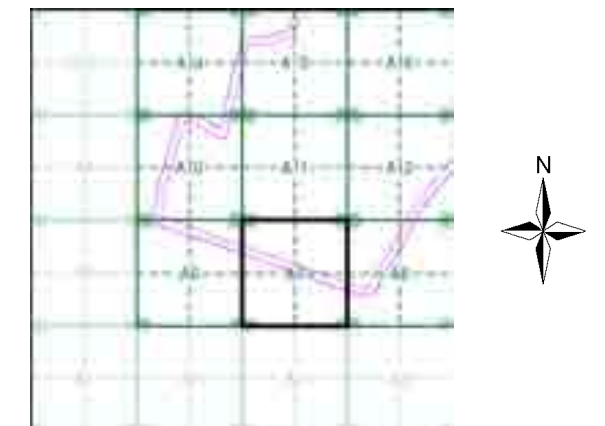
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1881	2
Oxfordshire	1:2,500	1899	3
Oxfordshire	1:2,500	1922	4
Ordnance Survey Plan	1:2,500	1967	5
Additional SIMs	1:2,500	1967 - 1985	6
Ordnance Survey Plan	1:2,500	1971	7
Additional SIMs	1:2,500	1980 - 1985	8
Additional SIMs	1:2,500	1984 - 1988	9
Additional SIMs	1:2,500	1988 - 1990	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1996	13

## Historical Map - Segment A7



## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



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



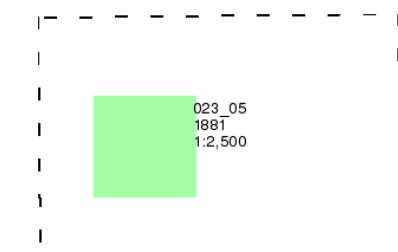
## Oxfordshire

Published 1881

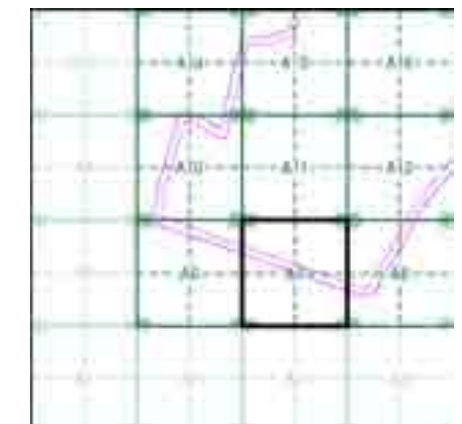
Source map scale - 1:2,500

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 A7

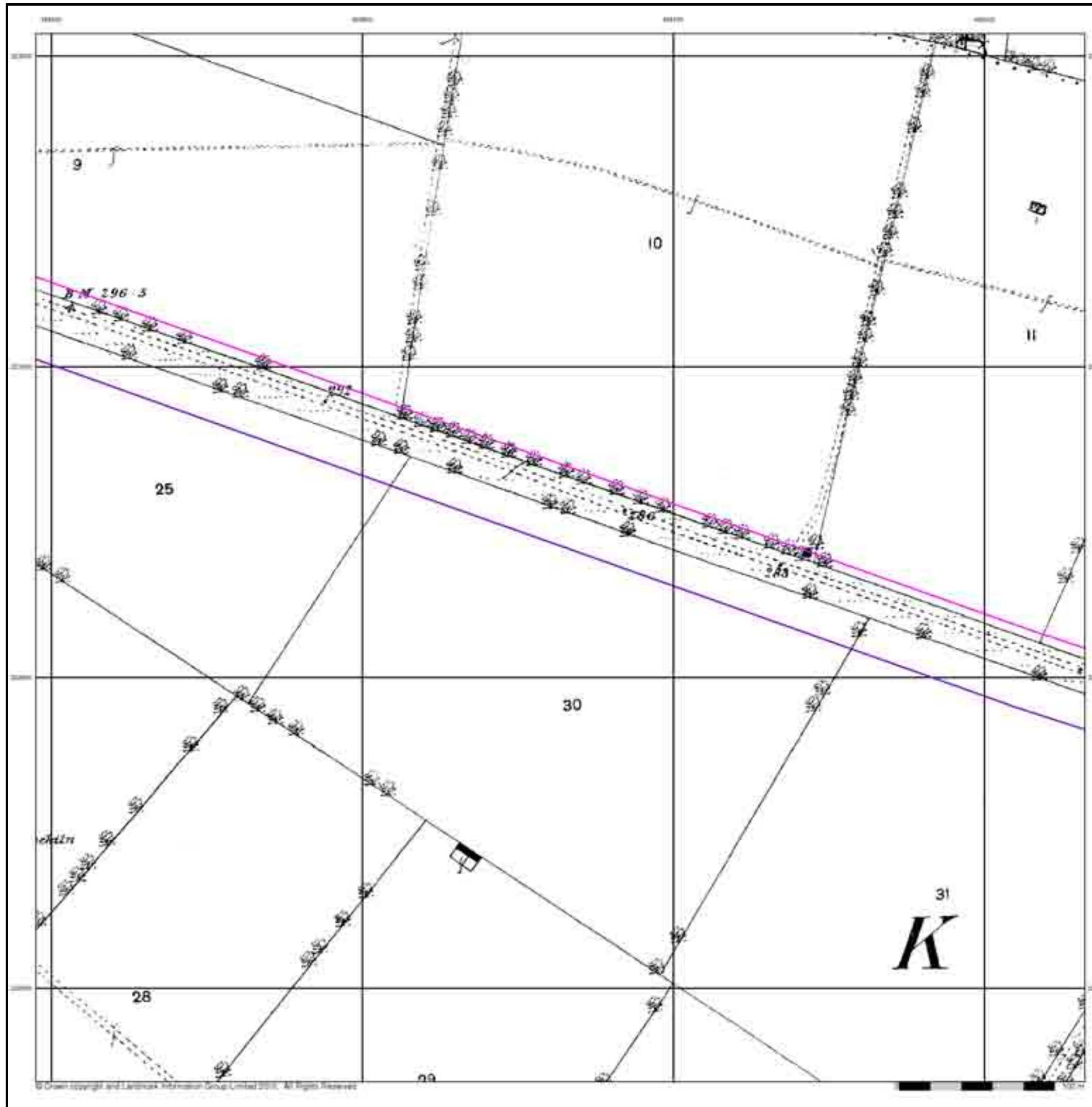


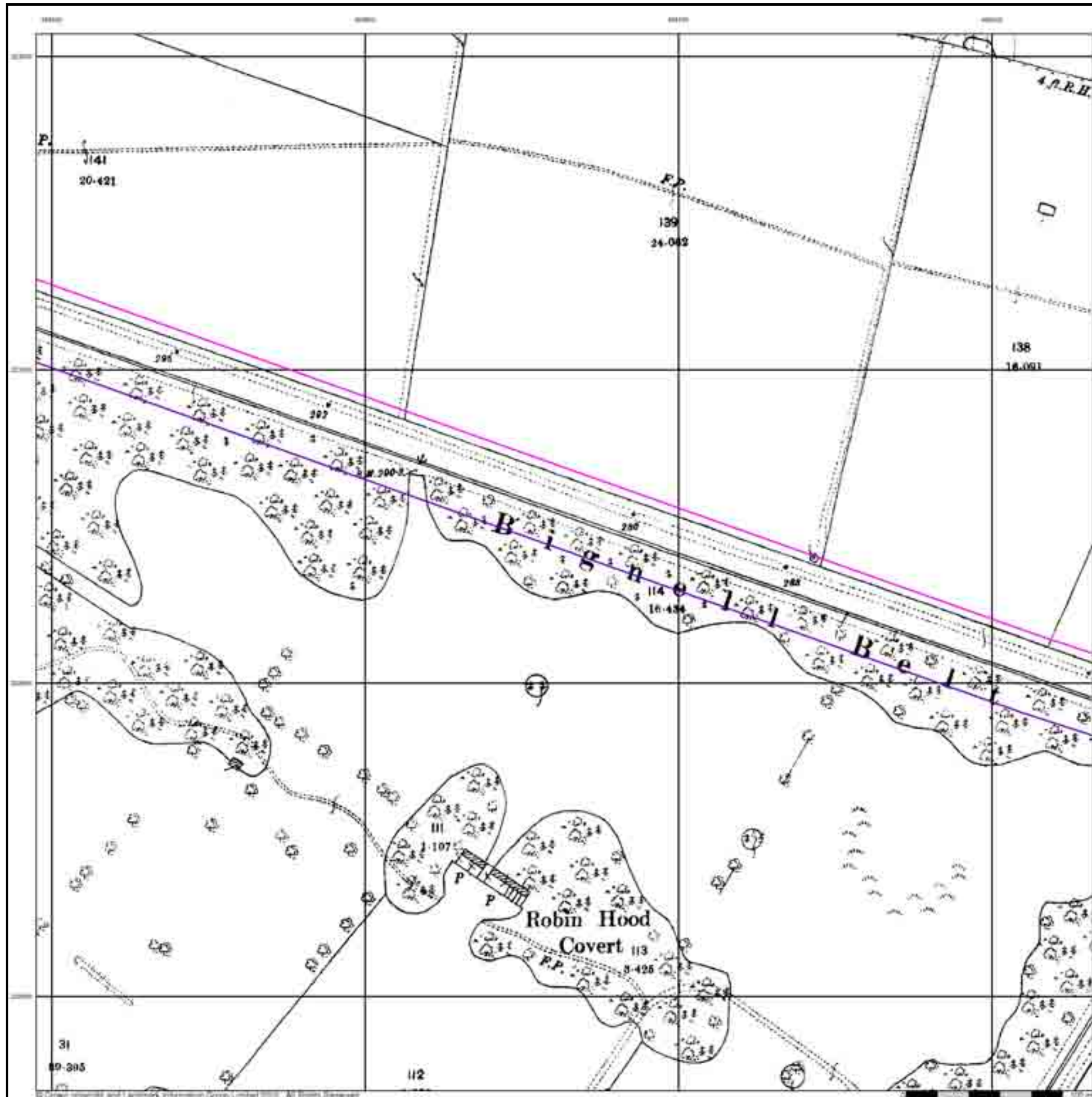
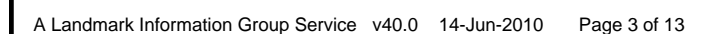
### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire







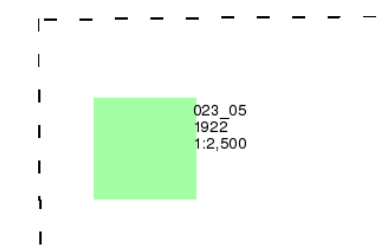
## Oxfordshire

Published 1922

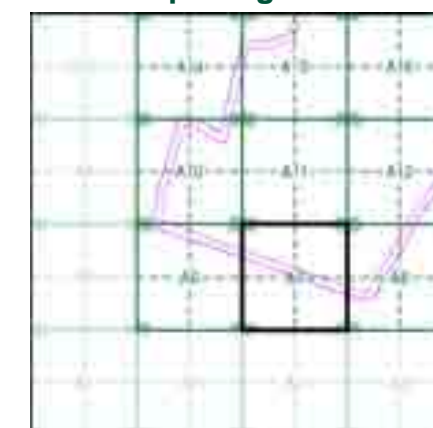
Source map scale - 1:2,500

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 A7

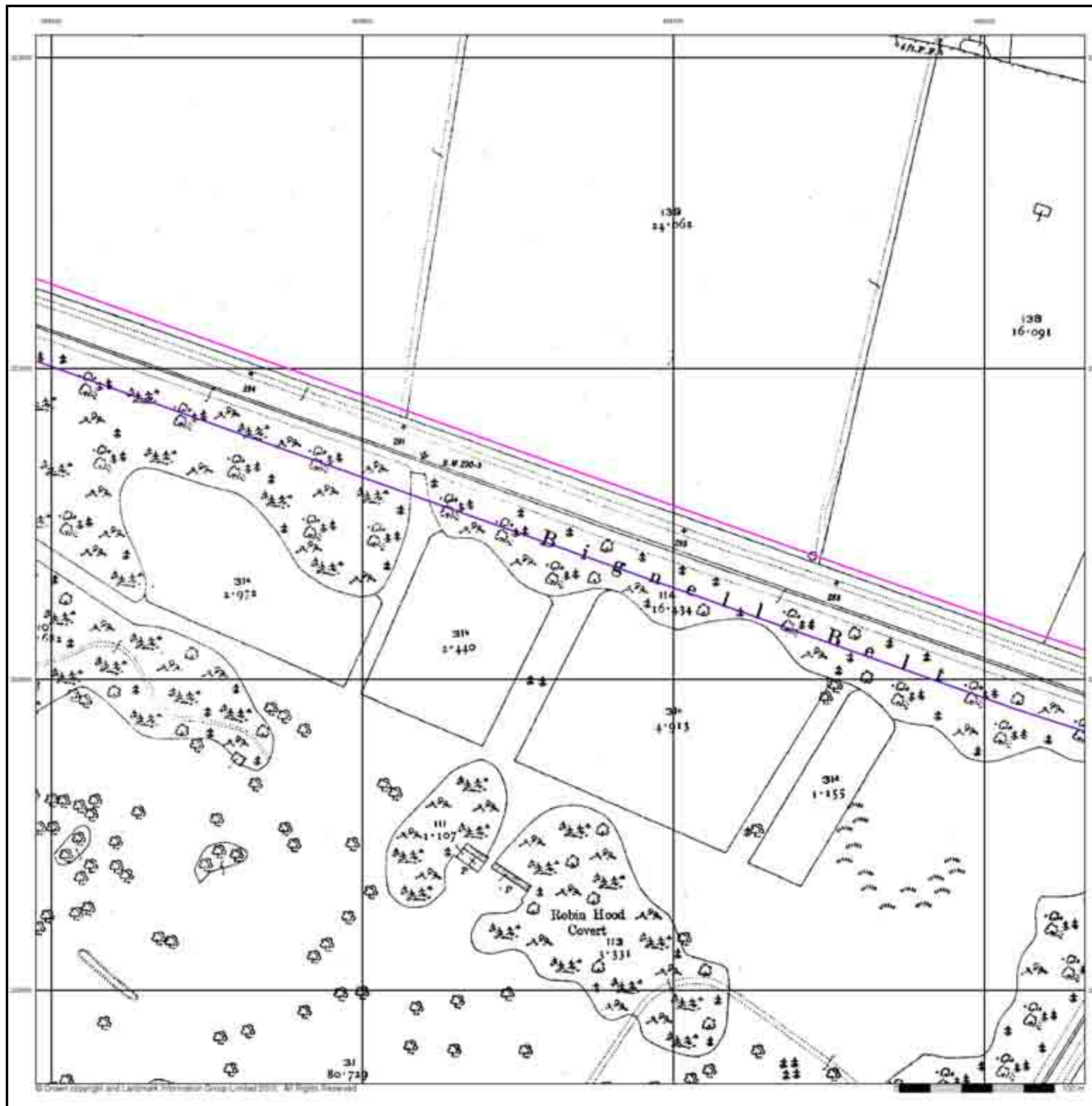


### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire





## Ordnance Survey Plan

Published 1967

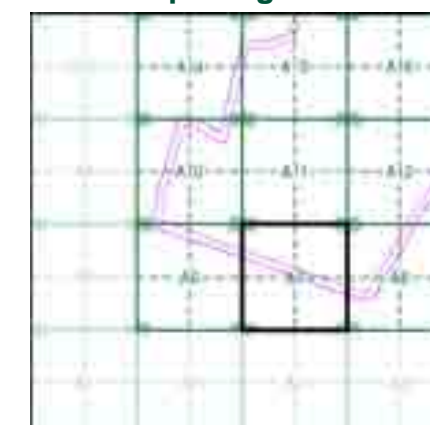
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A7

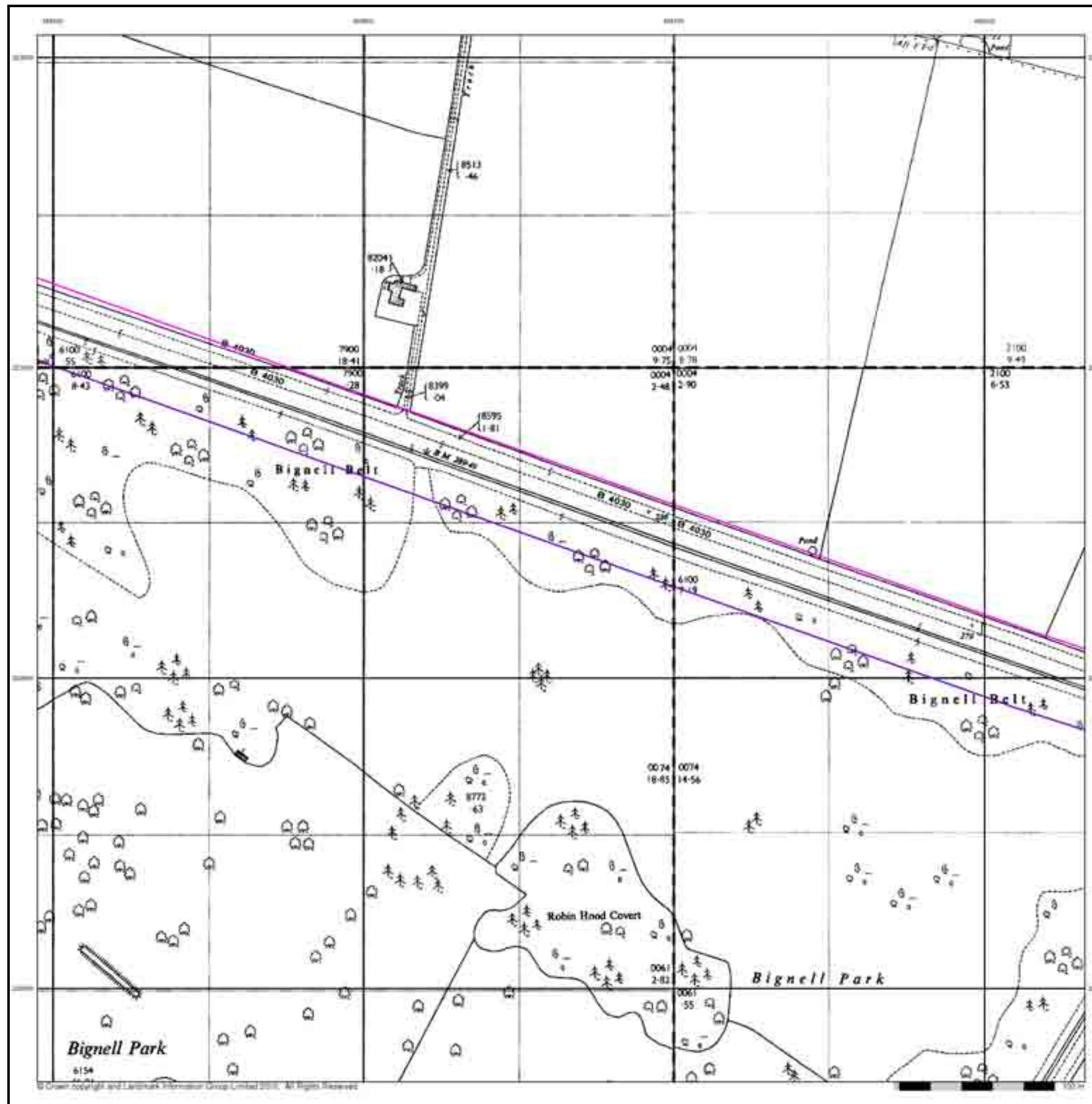


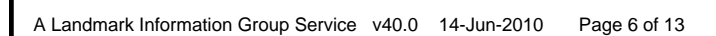
## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

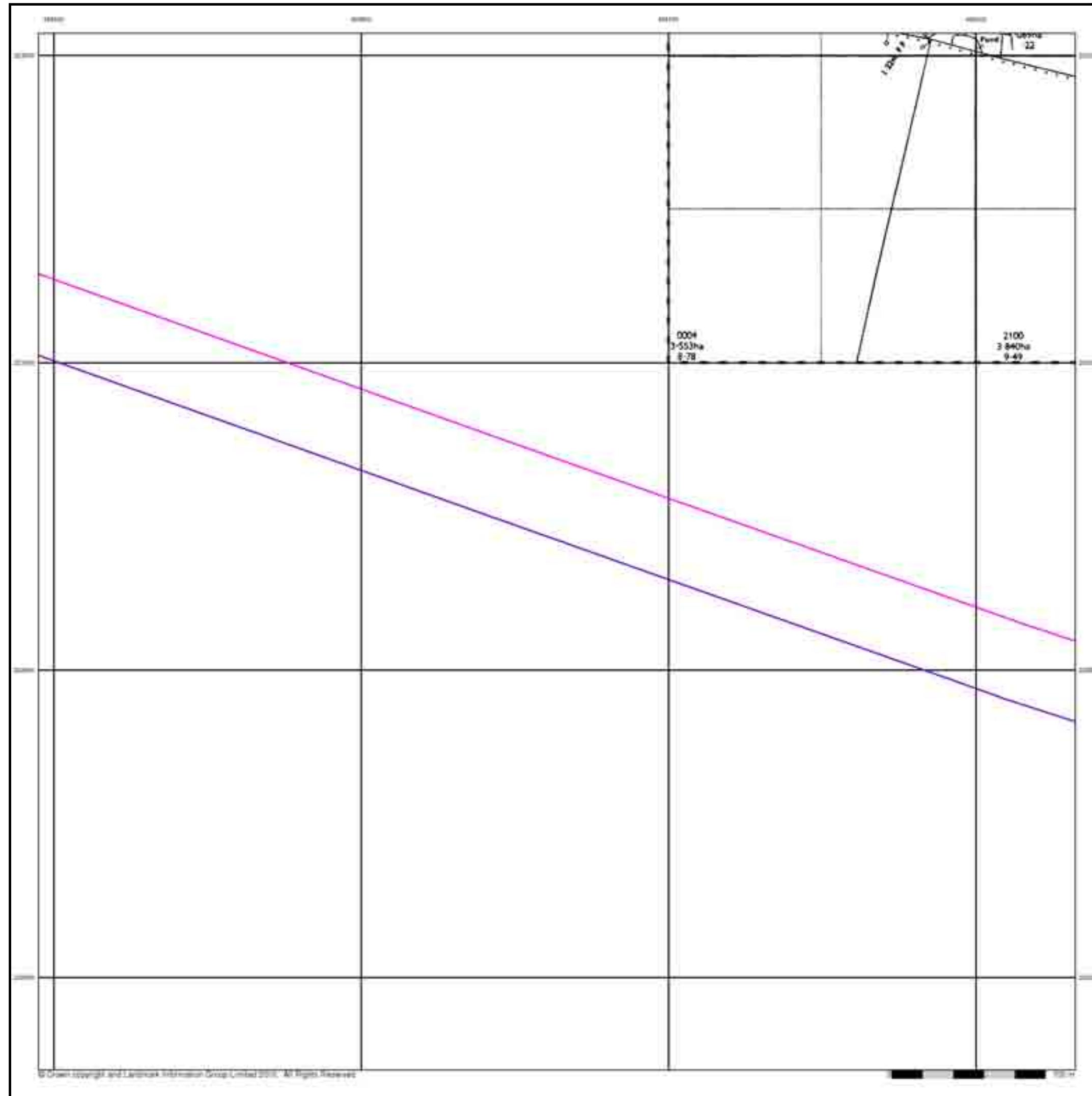
## Site Details

Site at, Bicester, Oxfordshire





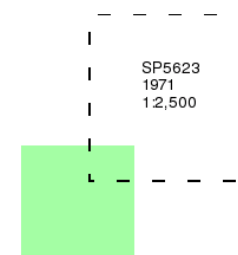




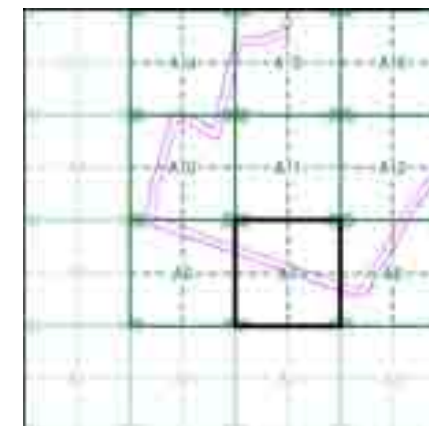
**Ordnance Survey Plan**  
**Published 1971**  
**Source map scale - 1:2,500**

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 A7**



**Order Details**

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

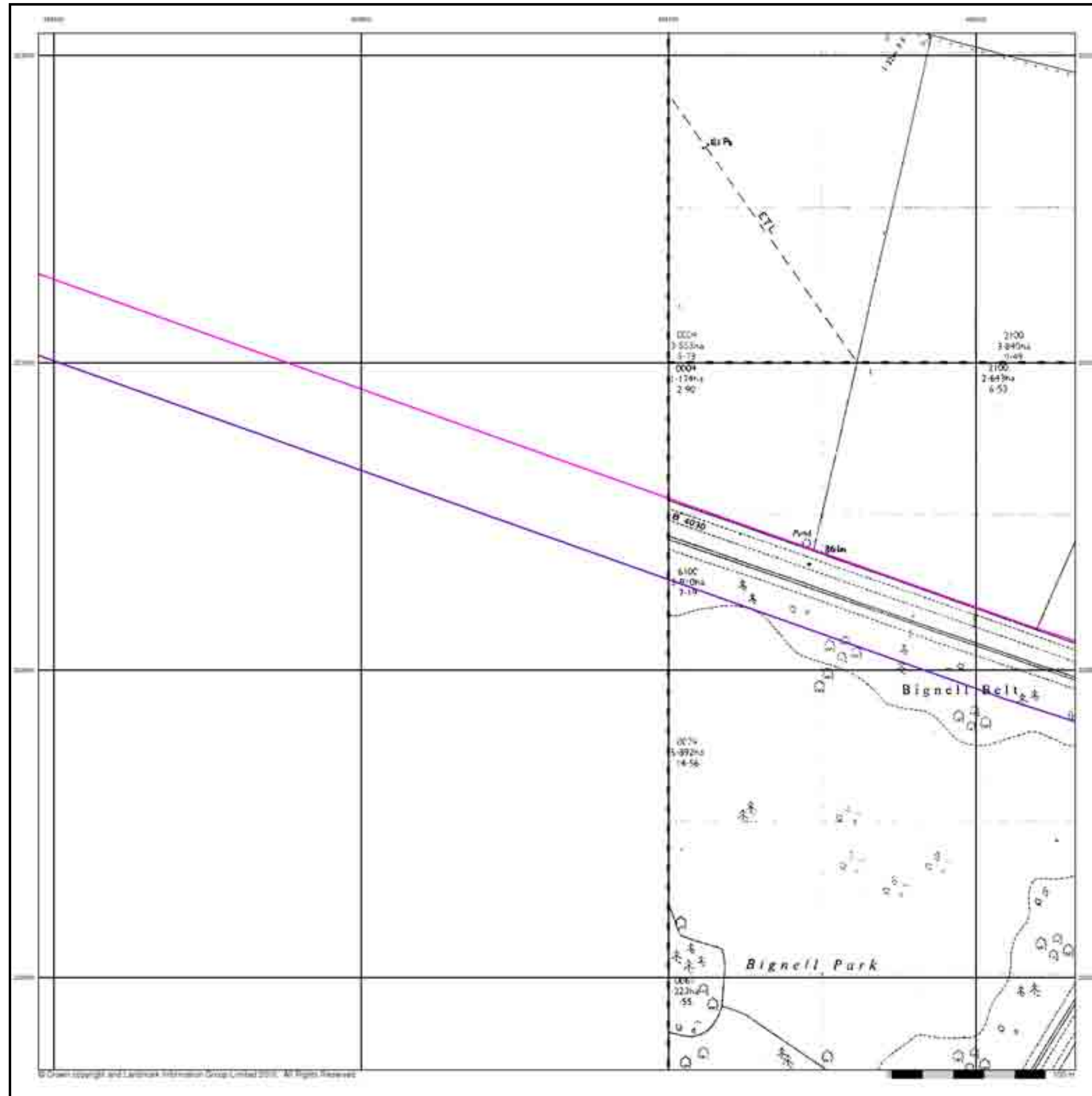
**Site Details**

Site at, Bicester, Oxfordshire



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





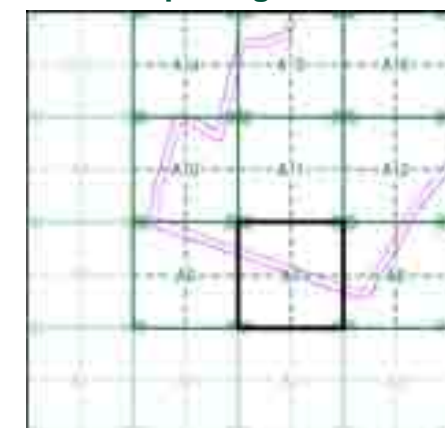
**Additional SIMs**  
**Published 1980 - 1985**  
**Source map scale - 1:2,500**

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)**

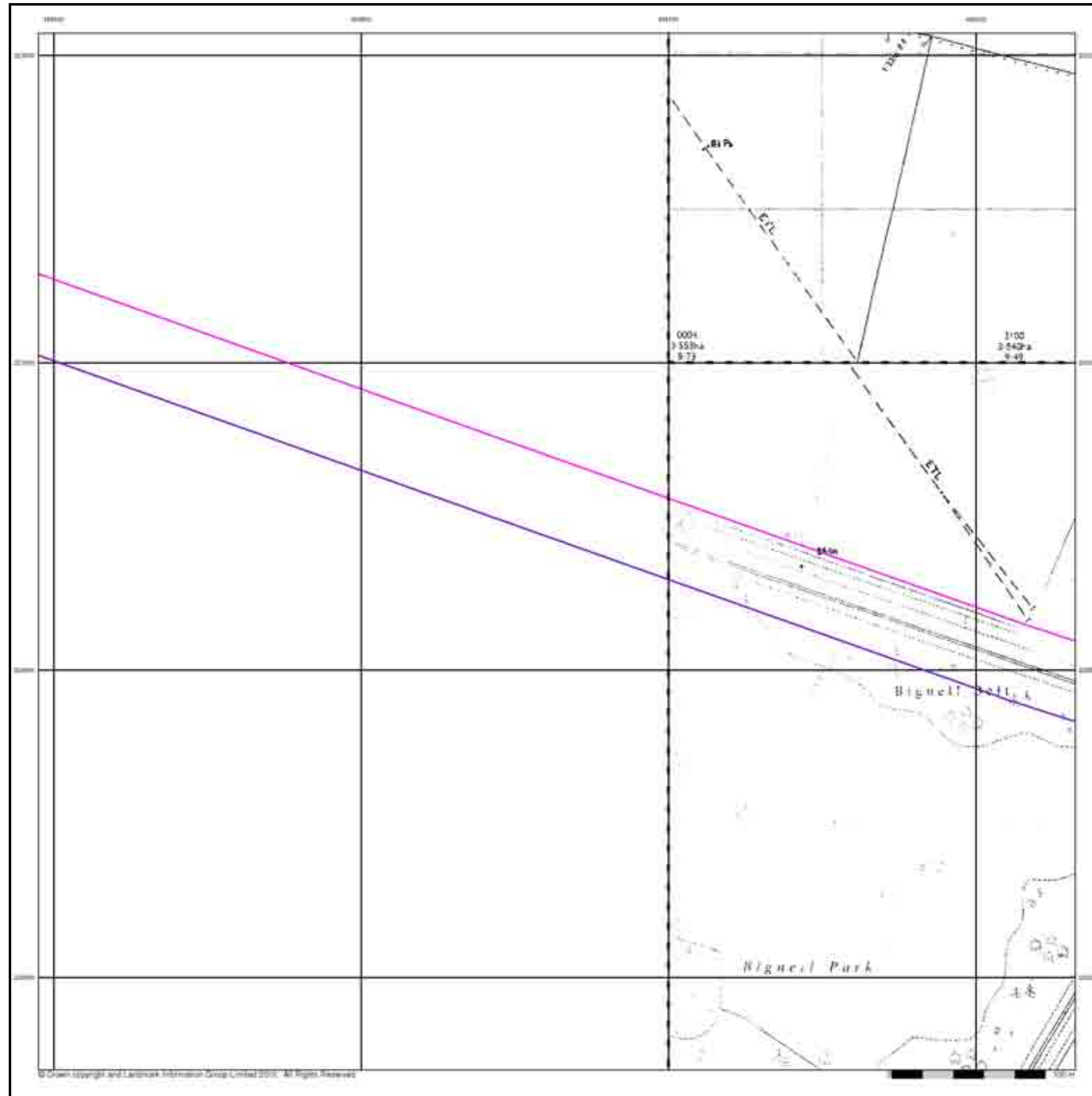
SP5623
1985
1:2,500
SP5622
1980
1:2,500

**Historical Map - Segment A7**



**Order Details**  
Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

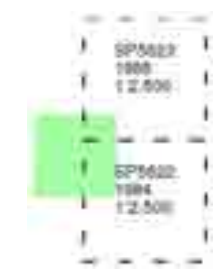
**Site Details**  
Site at, Bicester, Oxfordshire



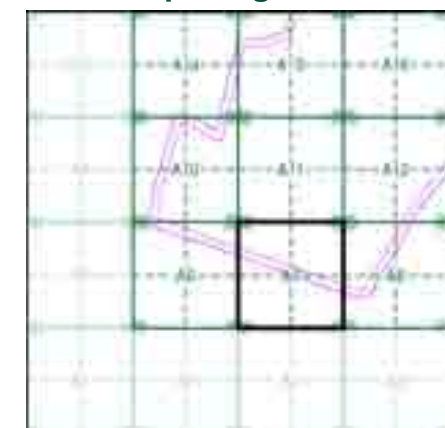
**Additional SIMs**  
**Published 1984 - 1988**  
**Source map scale - 1:2,500**

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

**Map Name(s) and Date(s)**

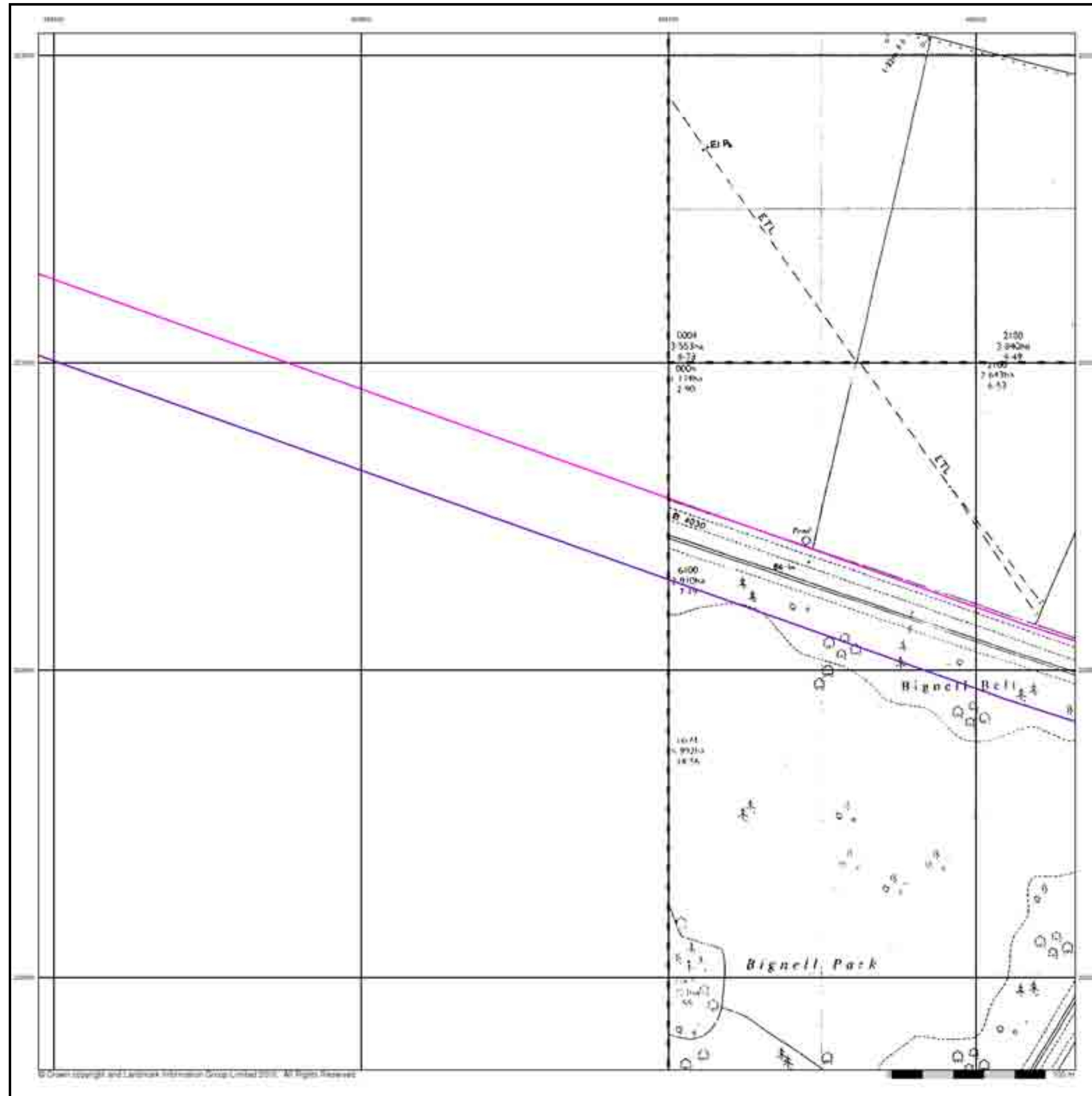


**Historical Map - Segment A7**



**Order Details**  
Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

**Site Details**  
Site at, Bicester, Oxfordshire



### Additional SIMs

Published 1988 - 1990

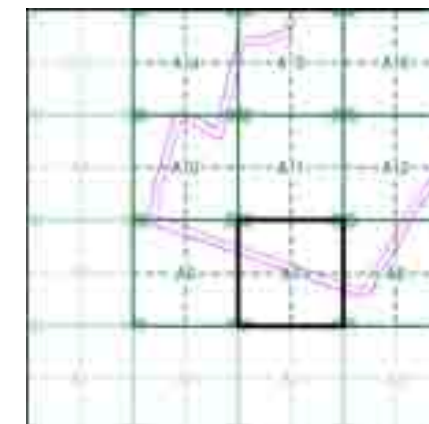
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A7



### Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



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



## Large-Scale National Grid Data

Published 1994

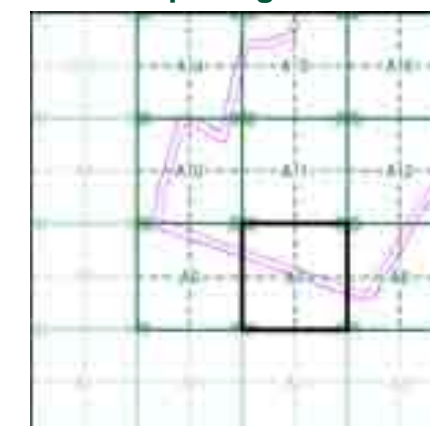
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)

SP5523	SP5623
1994	1994
12,500	12,500
SP5522	SP5622
1994	1994
12,500	12,500

### Historical Map - Segment A7

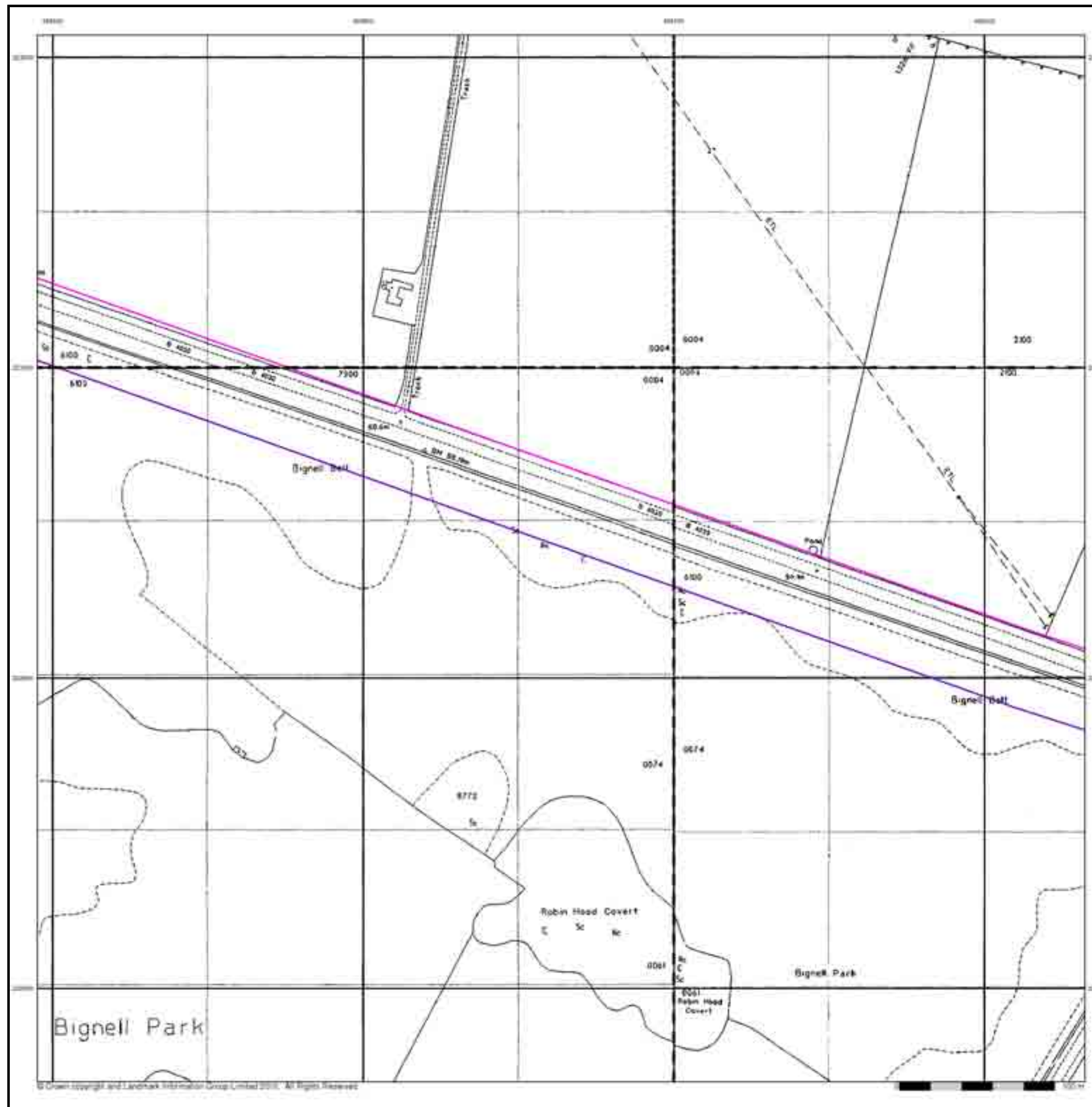


### Order Details

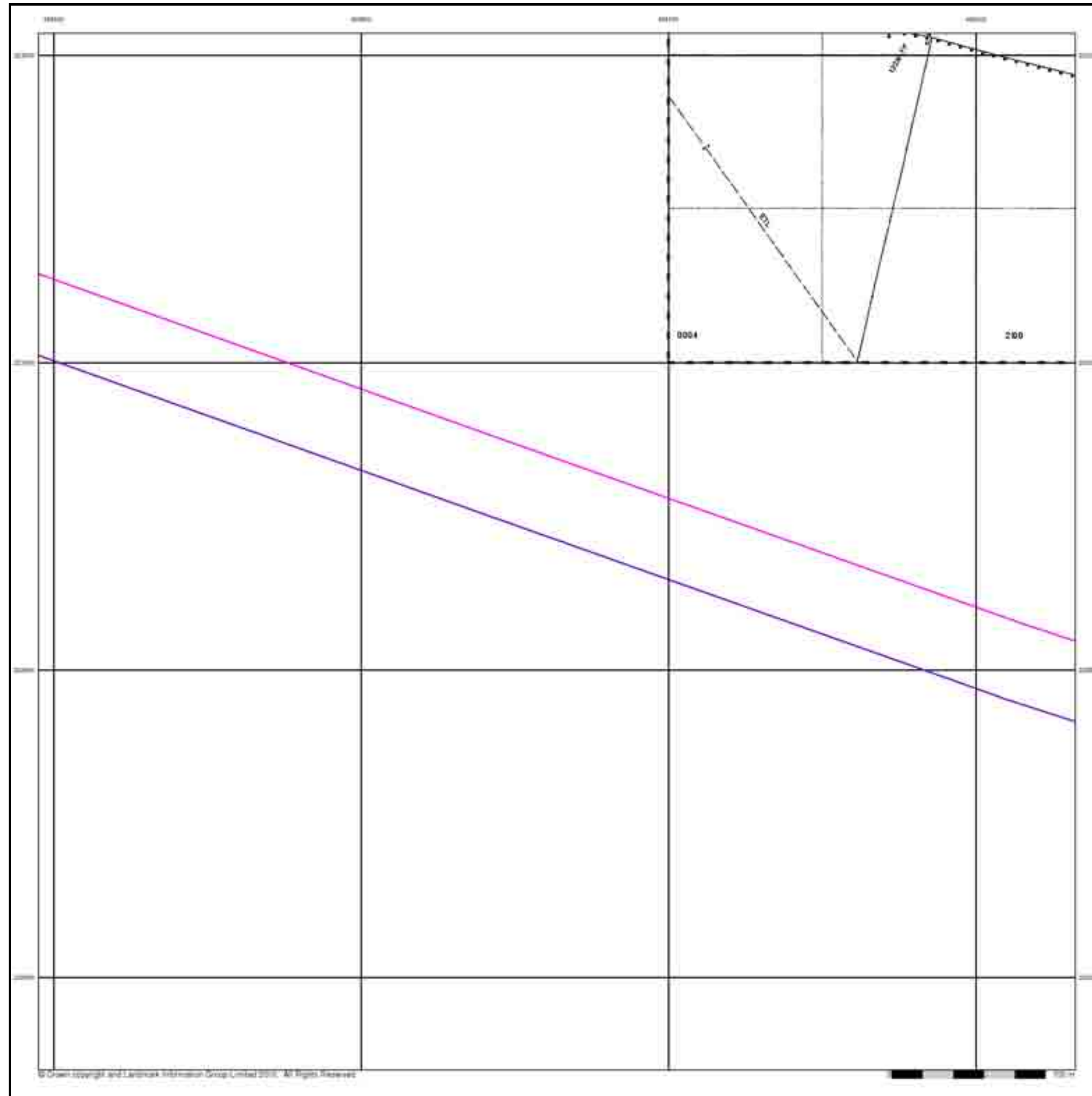
Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire







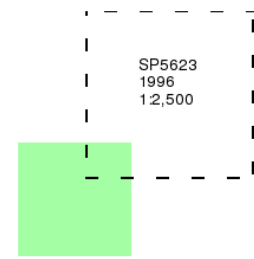
## Large-Scale National Grid Data

Published 1996

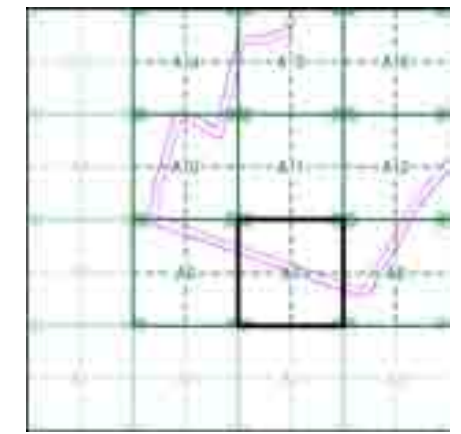
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A7



### Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



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



## Large-Scale National Grid Data

Published 1994

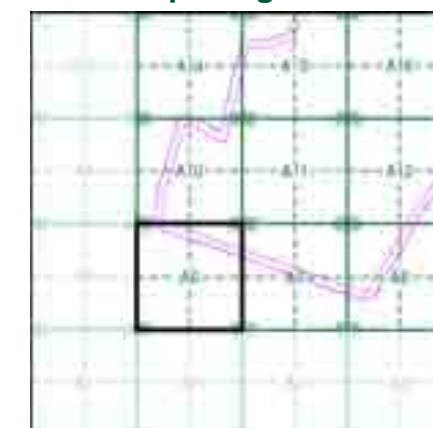
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A6



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire

# Historical Mapping Legends

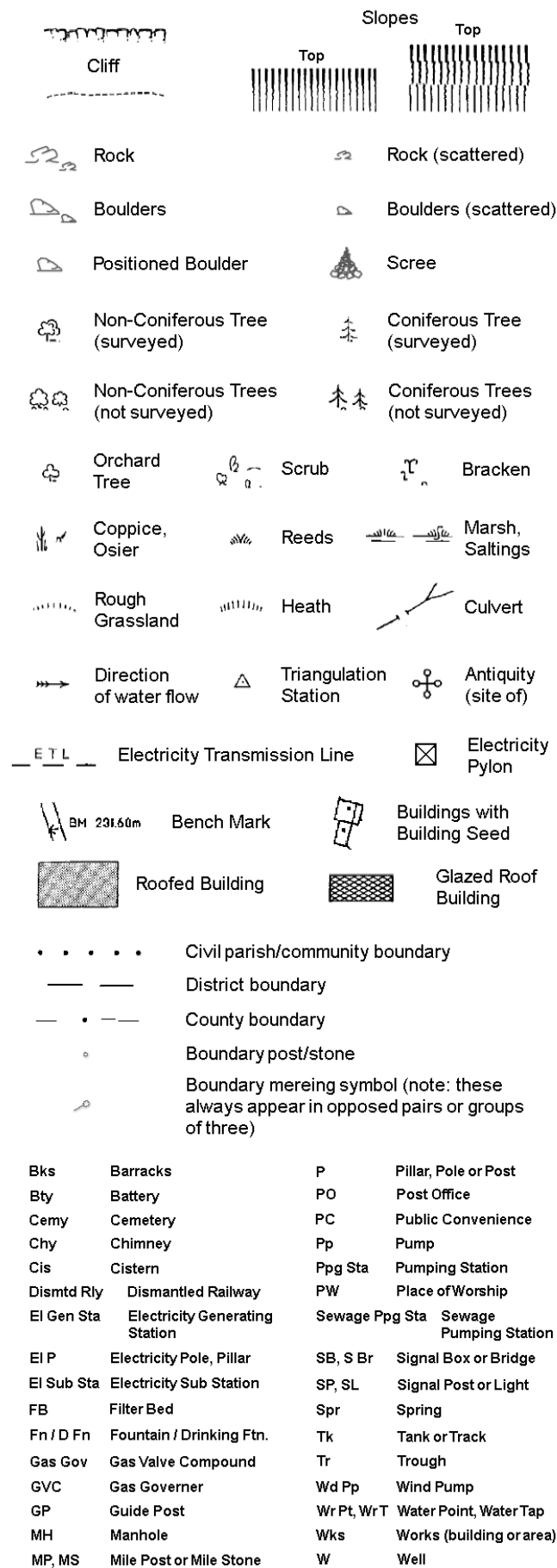
## Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



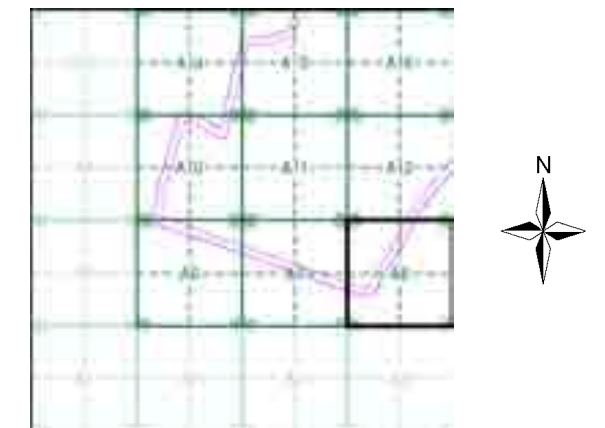
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1881	2
Oxfordshire	1:2,500	1899	3
Oxfordshire	1:2,500	1922	4
Ordnance Survey Plan	1:2,500	1967	5
Additional SIMs	1:2,500	1967 - 1980	6
Ordnance Survey Plan	1:2,500	1971	7
Additional SIMs	1:2,500	1980 - 1985	8
Additional SIMs	1:2,500	1984 - 1988	9
Additional SIMs	1:2,500	1988 - 1990	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1996	13

## Historical Map - Segment A8



## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



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



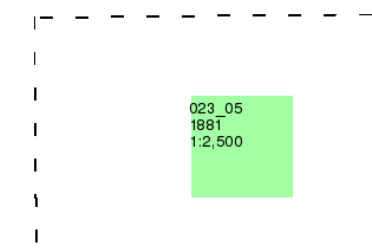
## Oxfordshire

Published 1881

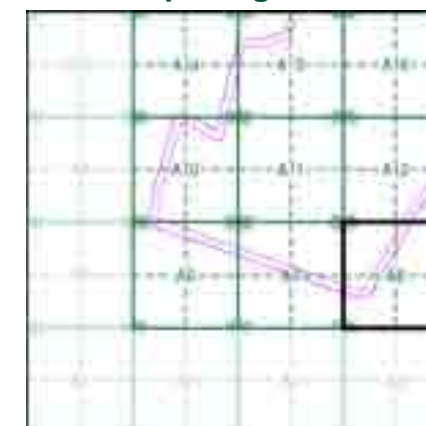
Source map scale - 1:2,500

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 A8

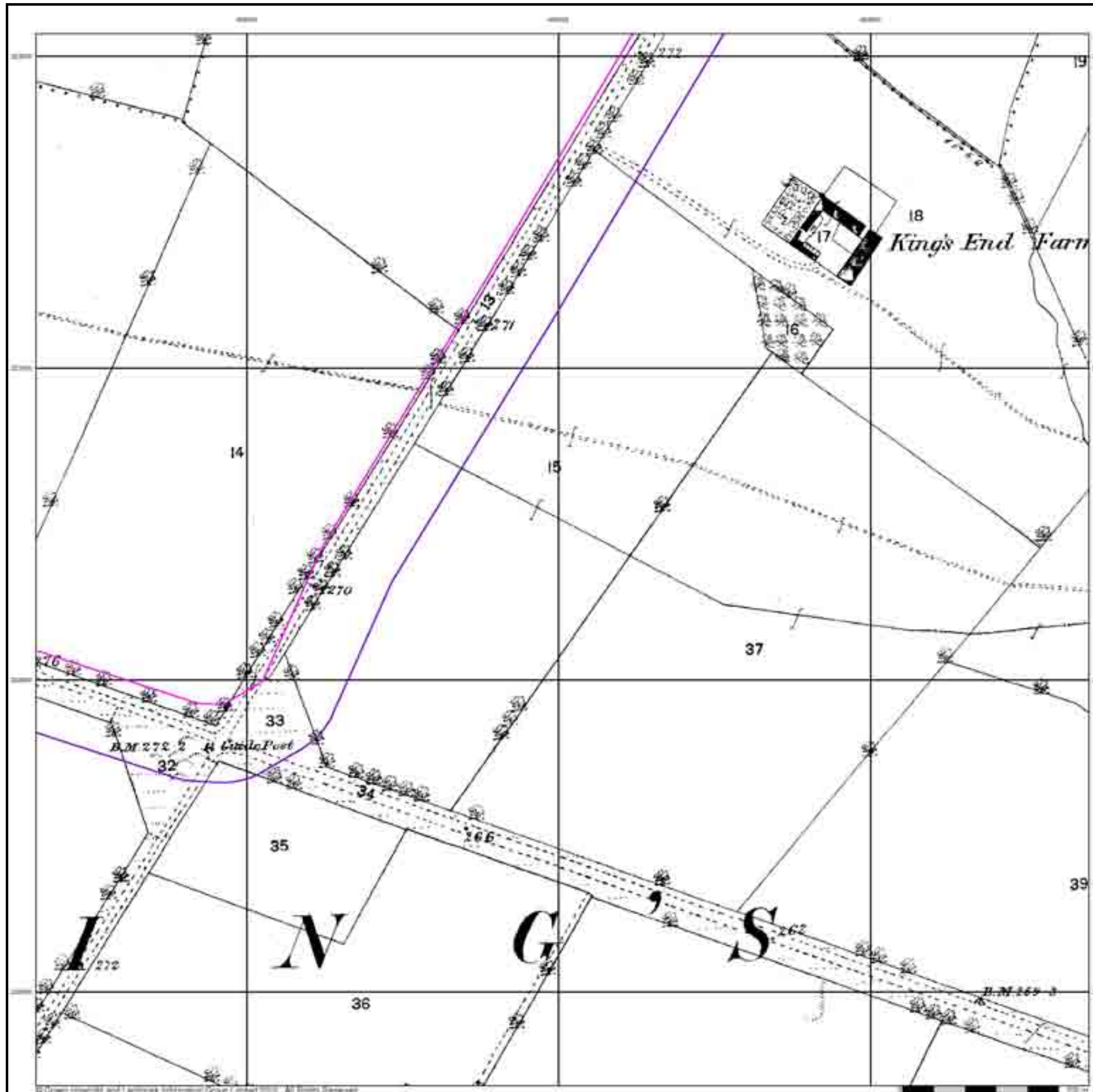


## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire





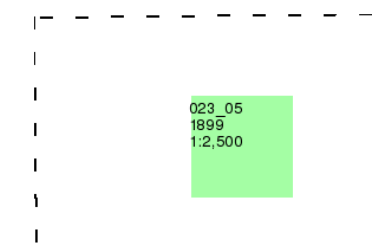
## Oxfordshire

Published 1899

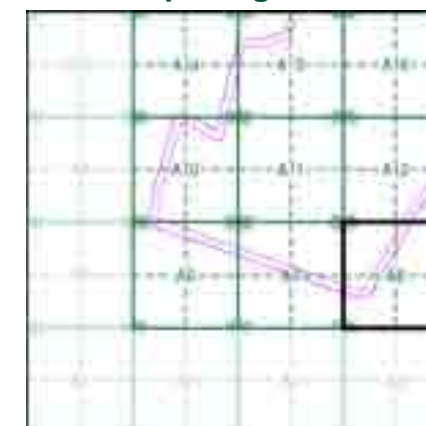
Source map scale - 1:2,500

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 A8

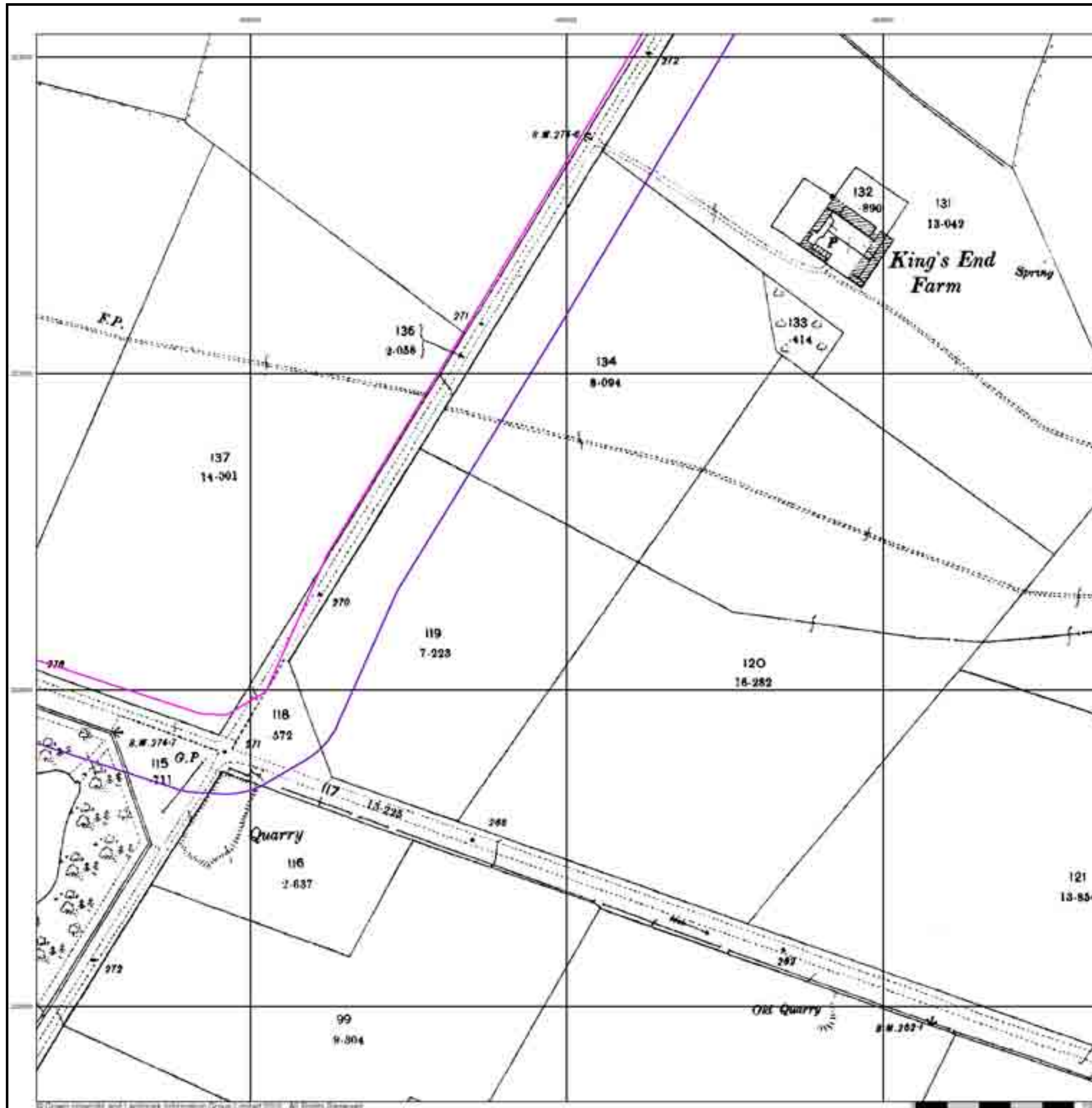


### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



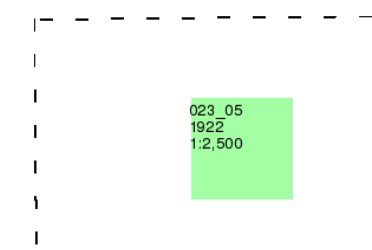
## Oxfordshire

Published 1922

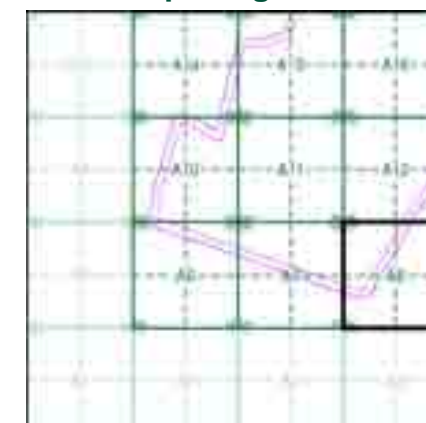
Source map scale - 1:2,500

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 A8



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire





## Ordnance Survey Plan

Published 1967

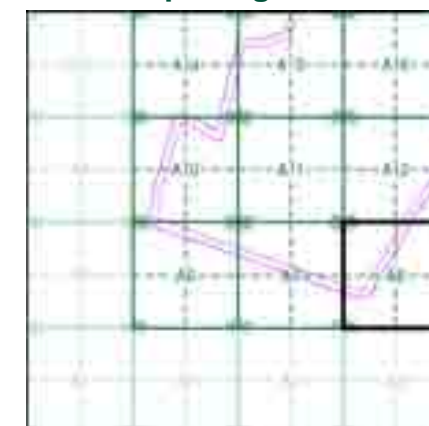
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A8

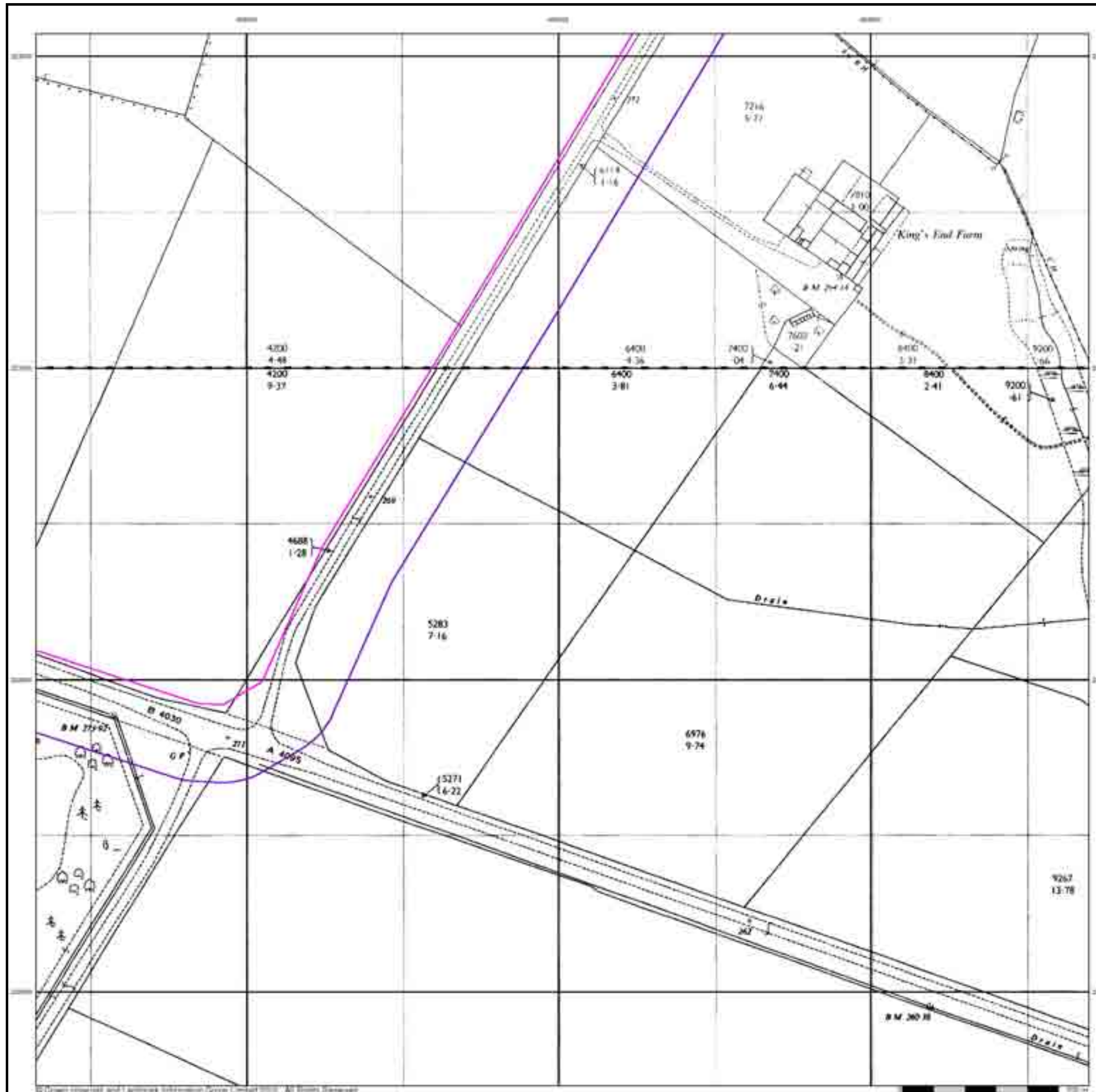


## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire





## Additional SIMs

Published 1967 - 1980

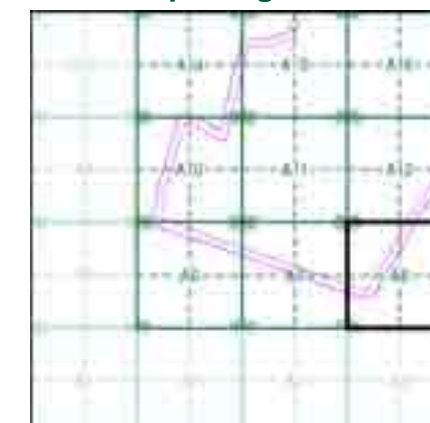
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A8



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire

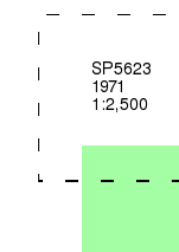
## Ordnance Survey Plan

Published 1971

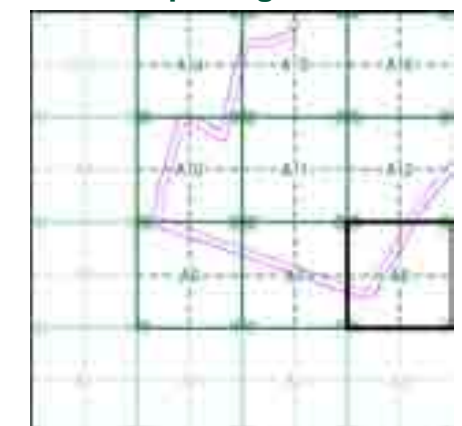
Source map scale - 1:2,500

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 A8



## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



## Additional SIMs

**Published 1980 - 1985**

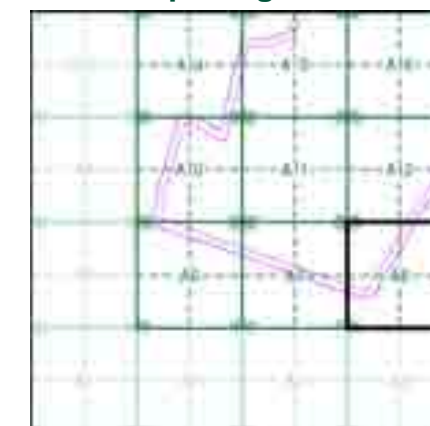
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)



## Historical Map - Segment A8



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



### Additional SIMs

**Published 1984 - 1988**

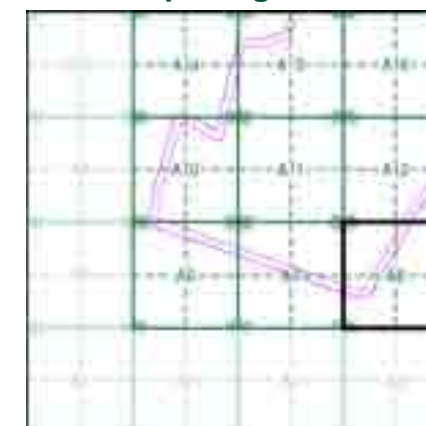
**Source map scale - 1:2,500**

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

### Map Name(s) and Date(s)



### Historical Map - Segment A8



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



## Additional SIMs

**Published 1988 - 1990**

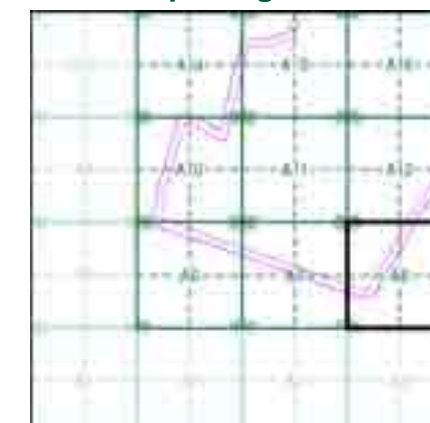
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)



## Historical Map - Segment A8



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



## Large-Scale National Grid Data

Published 1994

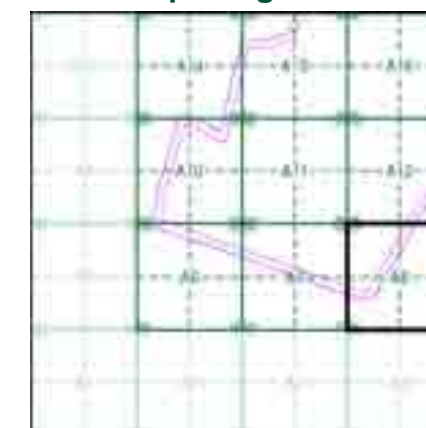
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A8



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



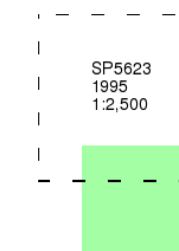
## Large-Scale National Grid Data

**Published 1995**

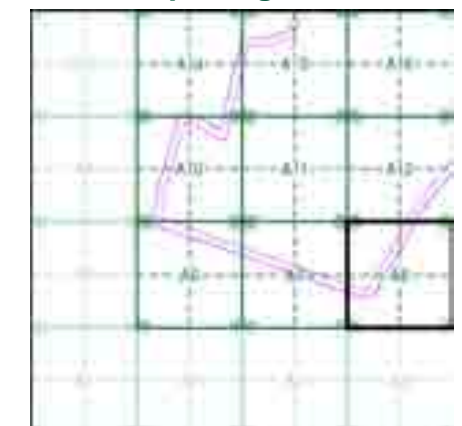
**Source map scale - 1:2,500**

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

### Map Name(s) and Date(s)



### Historical Map - Segment A8



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire

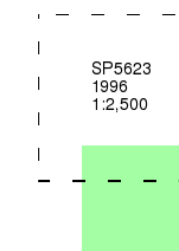
## Large-Scale National Grid Data

Published 1996

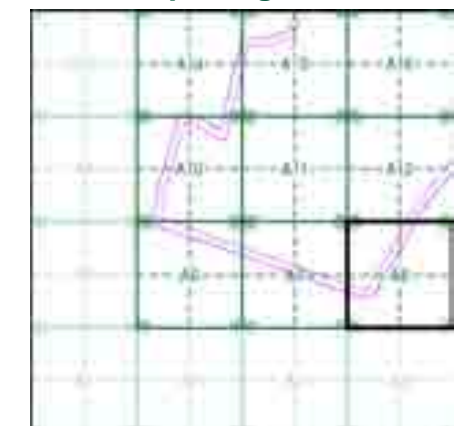
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A8



### Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



# Historical Mapping Legends

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

	Quarry		Gravel Pit		Sand Pit
	Clay Pit		Shingle		Refuse Heap
	Sloping Masonry		Flat Rock		
	Marsh		Reeds		Osiers
	Rough Pasture		Furze		Wood
	Mixed Wood		Brushwood		Orchard
	Fir		Ford		Stepping Stones
	Ferry		Waterfall		Lock
	Trig. Station		Altitude at Trig. Station		
	B.M. 325.9		Bench Mark		Surface Level
	Arrow denotes flow of water		Antiquities (site of)		
	Cutting		Embankment		
	Railway crossing Road		Level Crossing		Road crossing Railway
	Railway crossing River or Canal		Road over single stream		Road over River or Canal
	County Boundary (Geographical)		County & Civil Parish Boundary		Administrative County & Civil Parish Boundary
	County Borough Boundary (England)		County Burgh Boundary (Scotland)		
	Boundary Post or Stone		Police Call Box		
	Bridle Road		Pump		
	Electricity Pylon		Signal Post		
	Foot Bridge		Sluice		
	Foot Path		Spring		
	Guide Post or Board		Telephone Call Box		
	Mile Stone		Trough		
	Mooring Post or Ring		Well		

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

	Inactive Quarry, Chalk Pit or Clay Pit		Active Quarry, Chalk Pit or Clay Pit
	Rock		Boulders
	Cliff		Slopes
	Roofed Building		Glazed Roof Building
	Sloping Masonry		Archway
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Bench Mark
	Cave Entrance		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	County Boundary (Geographical)		County & Civil Parish Boundary
	County Boundary		Boundary post/stone
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	Beer House		Pillar, Pole or Post
	Boundary Post or Stone		Post Office
	Capstan, Crane		Public Convenience
	Chimney		Public House
	Drinking Fountain		Pump
	Electricity Pillar or Post		Signal Box or Bridge
	Fire Alarm Pillar		Signal Post or Light
	Foot Bridge		Spring
	Guide Post		Tank or Track
	Hydrant or Hydraulic		Telephone Call Box
	Level Crossing		Telephone Call Post
	Manhole		Trough
	Mile Post or Mooring Post		Water Point, Water Tap
	Mile Stone		Well
	Normal Tidal Limit		Wind Pump

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

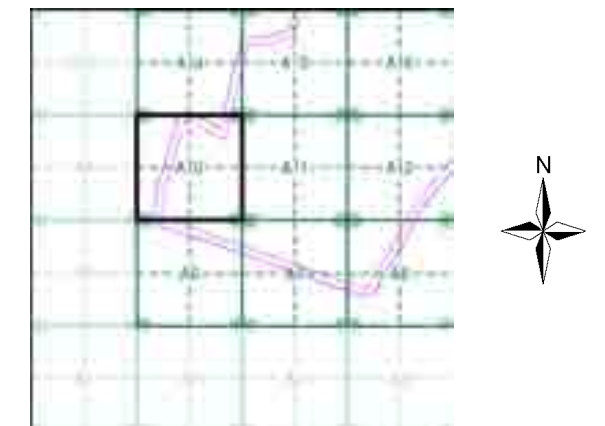
	Cliff		Slopes
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Positioned Boulder		Scree
	Non-Coniferous Tree (surveyed)		Coniferous Tree (surveyed)
	Non-Coniferous Trees (not surveyed)		Coniferous Trees (not surveyed)
	Orchard Tree		Scrub
	Coppice, Osier		Reeds
	Rough Grassland		Heath
	Direction of water flow		Triangulation Station
	Electricity Transmission Line		Electricity Pylon
	Bench Mark		Buildings with Building Seed
	Roofed Building		Glazed Roof Building
	Civil parish/community boundary		
	District boundary		
	County boundary		
	Boundary post/stone		
	Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)		
	Barracks		Pillar, Pole or Post
	Battery		Post Office
	Cemetery		Public Convenience
	Chimney		Pump
	Cistern		Pumping Station
	Dismantled Railway		Place of Worship
	Electricity Generating Station		Sewage Pumping Station
	Electricity Pole, Pillar		Signal Box or Bridge
	Electricity Sub Station		Signal Post or Light
	Filter Bed		Spring
	Fountain / Drinking Ftn.		Tank or Track
	Gas Valve Compound		Trough
	Gas Governor		Wind Pump
	Guide Post		Water Point, Water Tap
	Manhole		Works (building or area)
	Mile Post or Mile Stone		Well



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1881	2
Oxfordshire	1:2,500	1899 - 1900	3
Oxfordshire	1:2,500	1922	4
Ordnance Survey Plan	1:2,500	1967	5
Additional SIMs	1:2,500	1985 - 1991	6
Large-Scale National Grid Data	1:2,500	1994	7

## Historical Map - Segment A10



## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



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



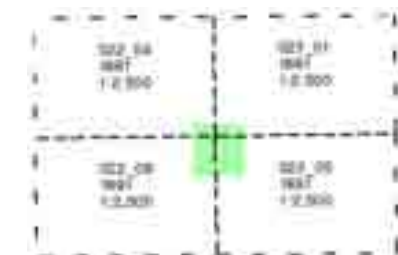
## Oxfordshire

Published 1881

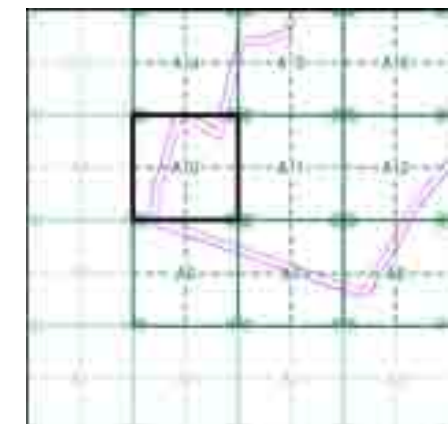
Source map scale - 1:2,500

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 A10

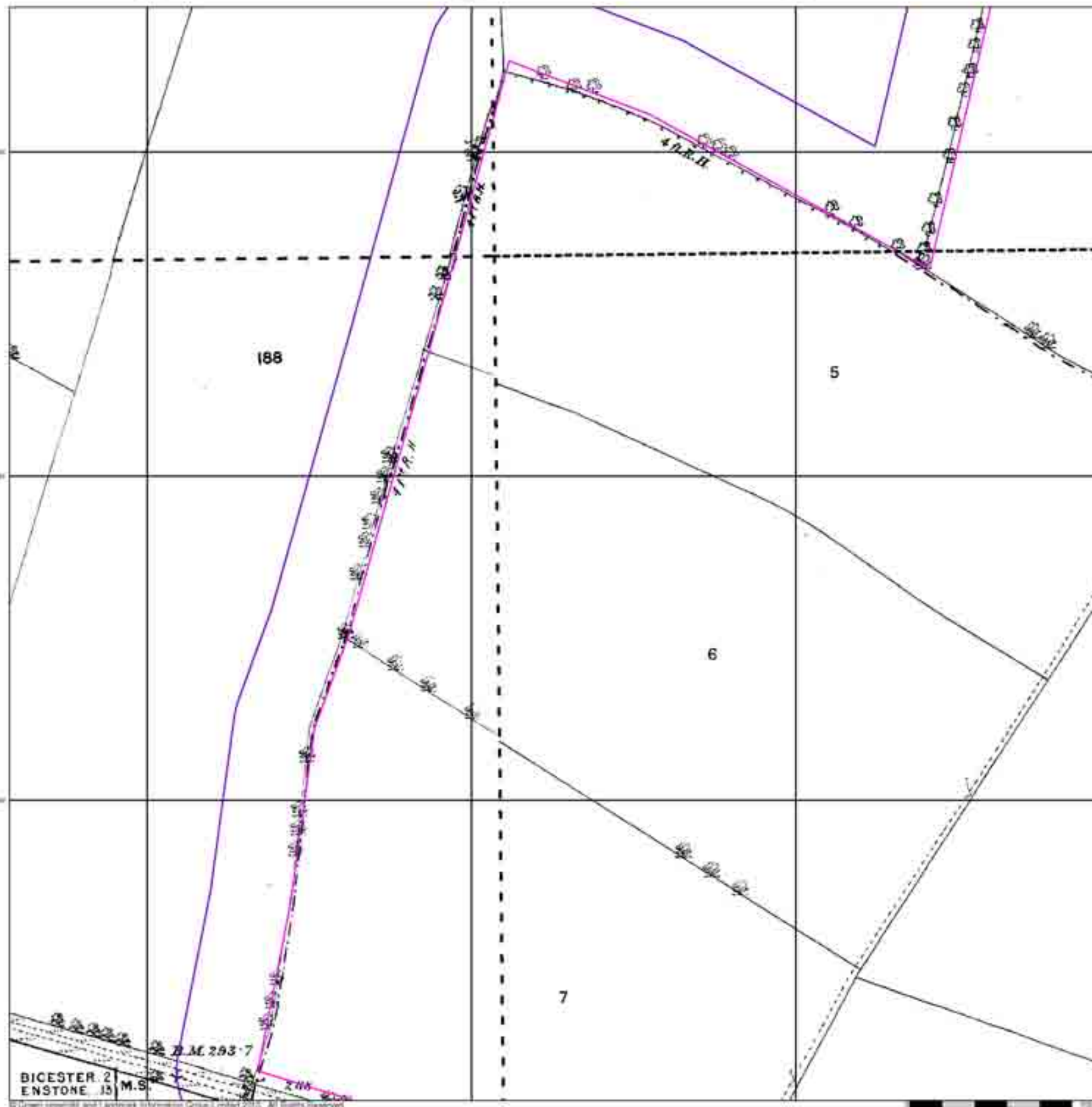


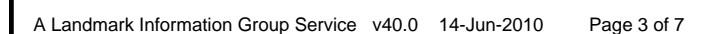
### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire







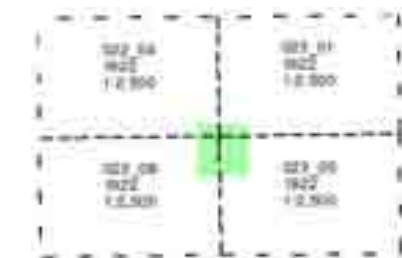
## Oxfordshire

Published 1922

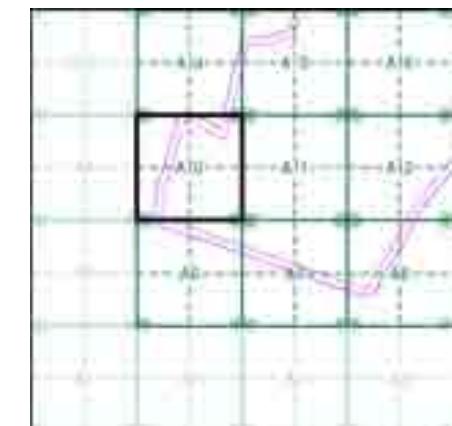
Source map scale - 1:2,500

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 A10



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



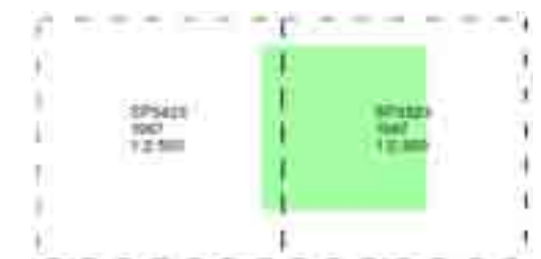
## Ordnance Survey Plan

Published 1967

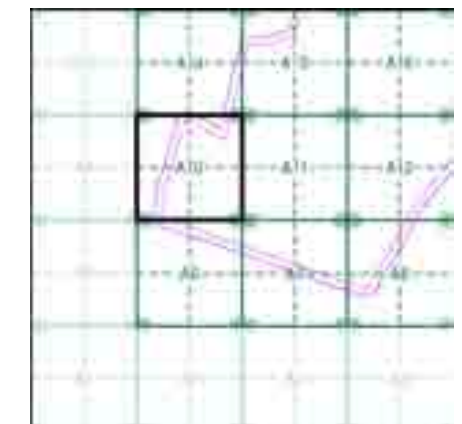
Source map scale - 1:2,500

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

## Map Name(s) and Date(s)



## Historical Map - Segment A10



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire

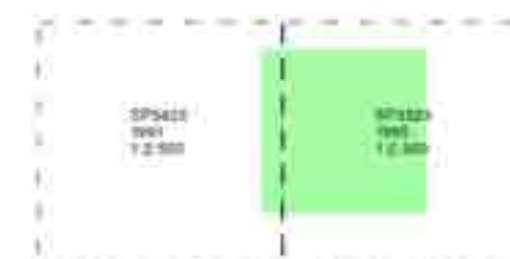
## Additional SIMs

**Published 1985 - 1991**

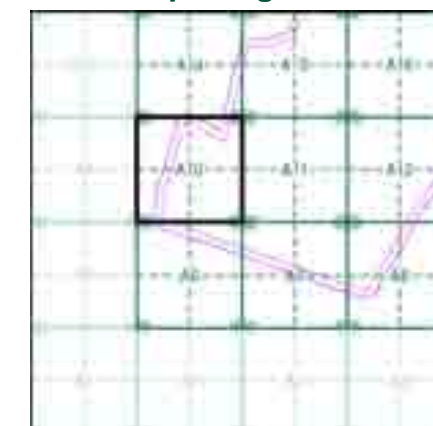
**Source map scale - 1:2,500**

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

## Map Name(s) and Date(s)



## Historical Map - Segment A10



## Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



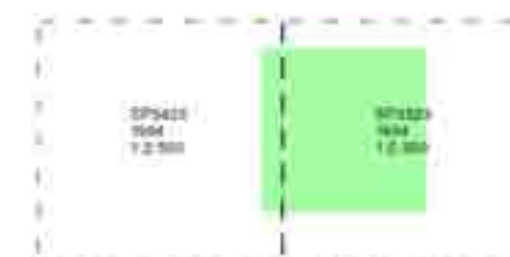
## Large-Scale National Grid Data

Published 1994

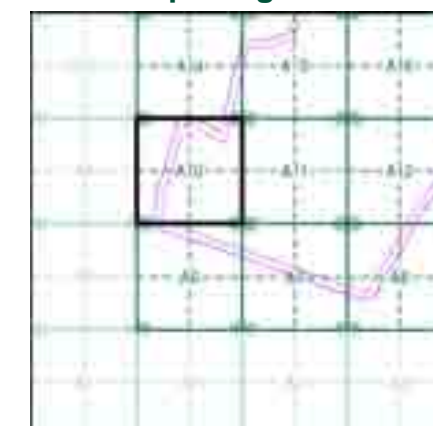
Source map scale - 1:2,500

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

### Map Name(s) and Date(s)



### Historical Map - Segment A10



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



# 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



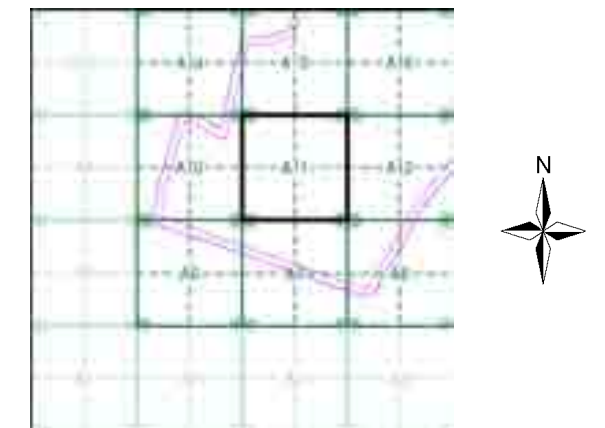
## Large-Scale National Grid Data 1:2,500 and 1:1,250



## Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1881	2
Oxfordshire	1:2,500	1899	3
Oxfordshire	1:2,500	1922	4
Ordnance Survey Plan	1:2,500	1967	5
Ordnance Survey Plan	1:2,500	1971	6
Additional SIMs	1:2,500	1980 - 1985	7
Additional SIMs	1:2,500	1985	8
Additional SIMs	1:2,500	1988	9
Additional SIMs	1:2,500	1990	10
Large-Scale National Grid Data	1:2,500	1994	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1996	13

## Historical Map - Segment A11



## Order Details

Order Number: 31544761\_1\_1  
Customer Ref: UA001881  
National Grid Reference: 455870, 223500  
Slice: A  
Site Area (Ha): 395.55  
Search Buffer (m): 50

## Site Details

Site at, Bicester, Oxfordshire



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

## Oxfordshire

Published 1881

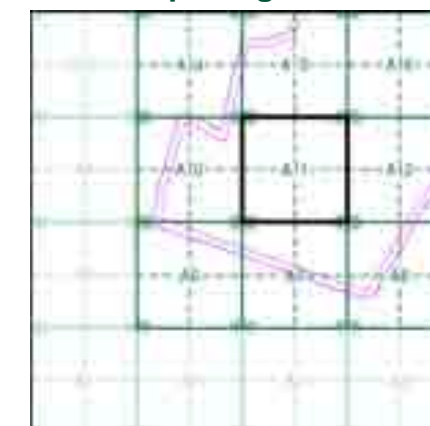
Source map scale - 1:2,500

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)

023_01
1881
1:2,500
023_05
1881
1:2,500

### Historical Map - Segment A11

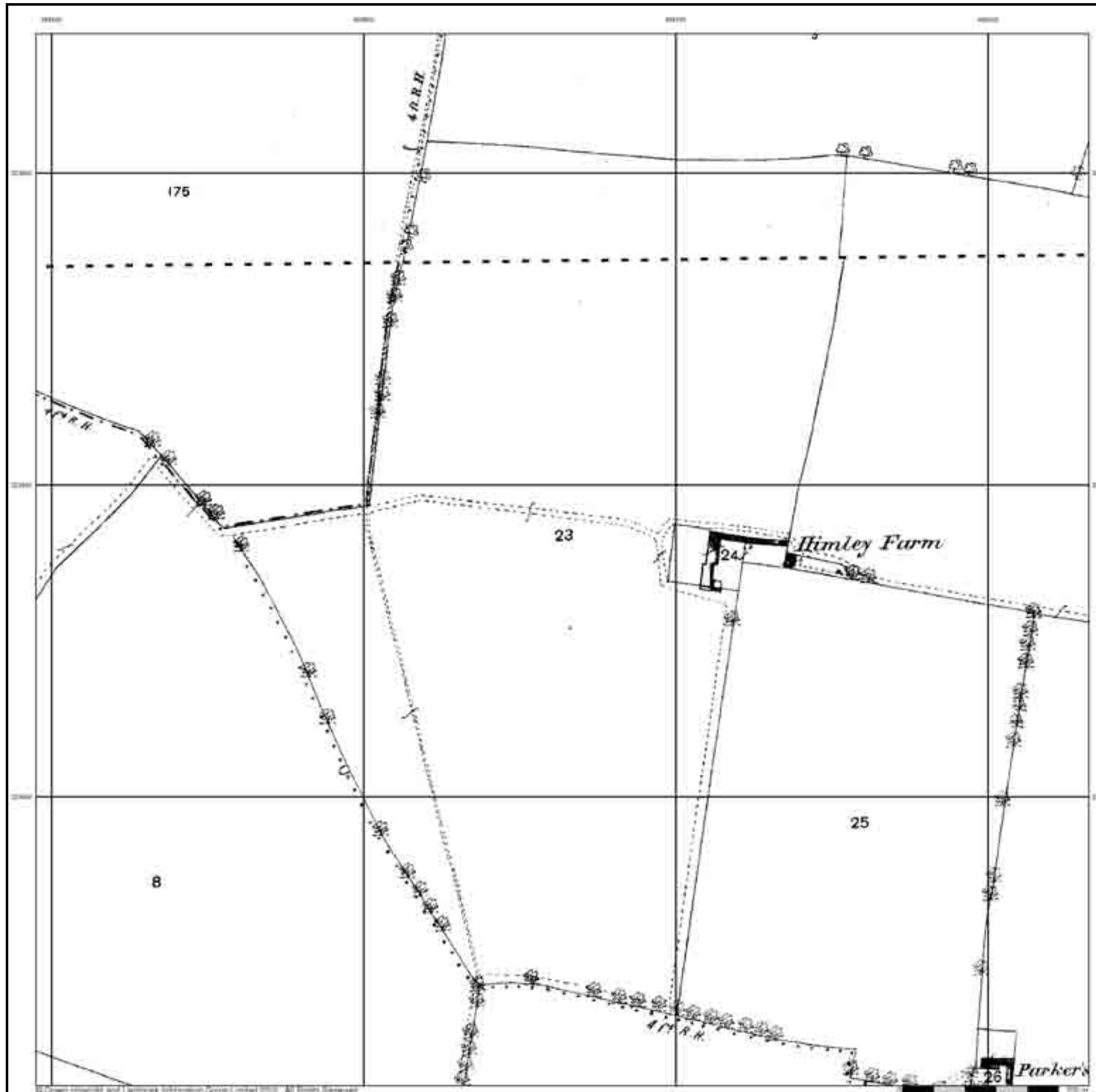


### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire



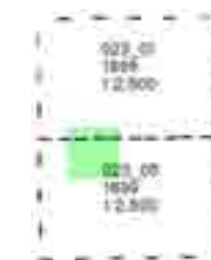
## Oxfordshire

Published 1899

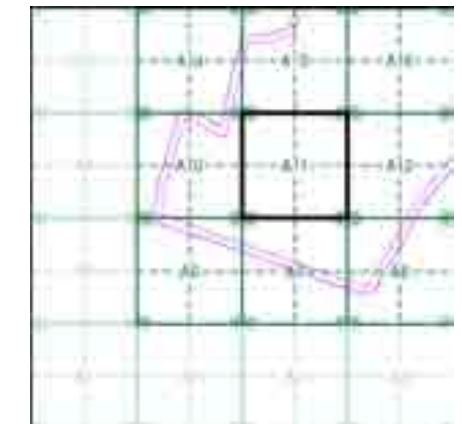
Source map scale - 1:2,500

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 A11

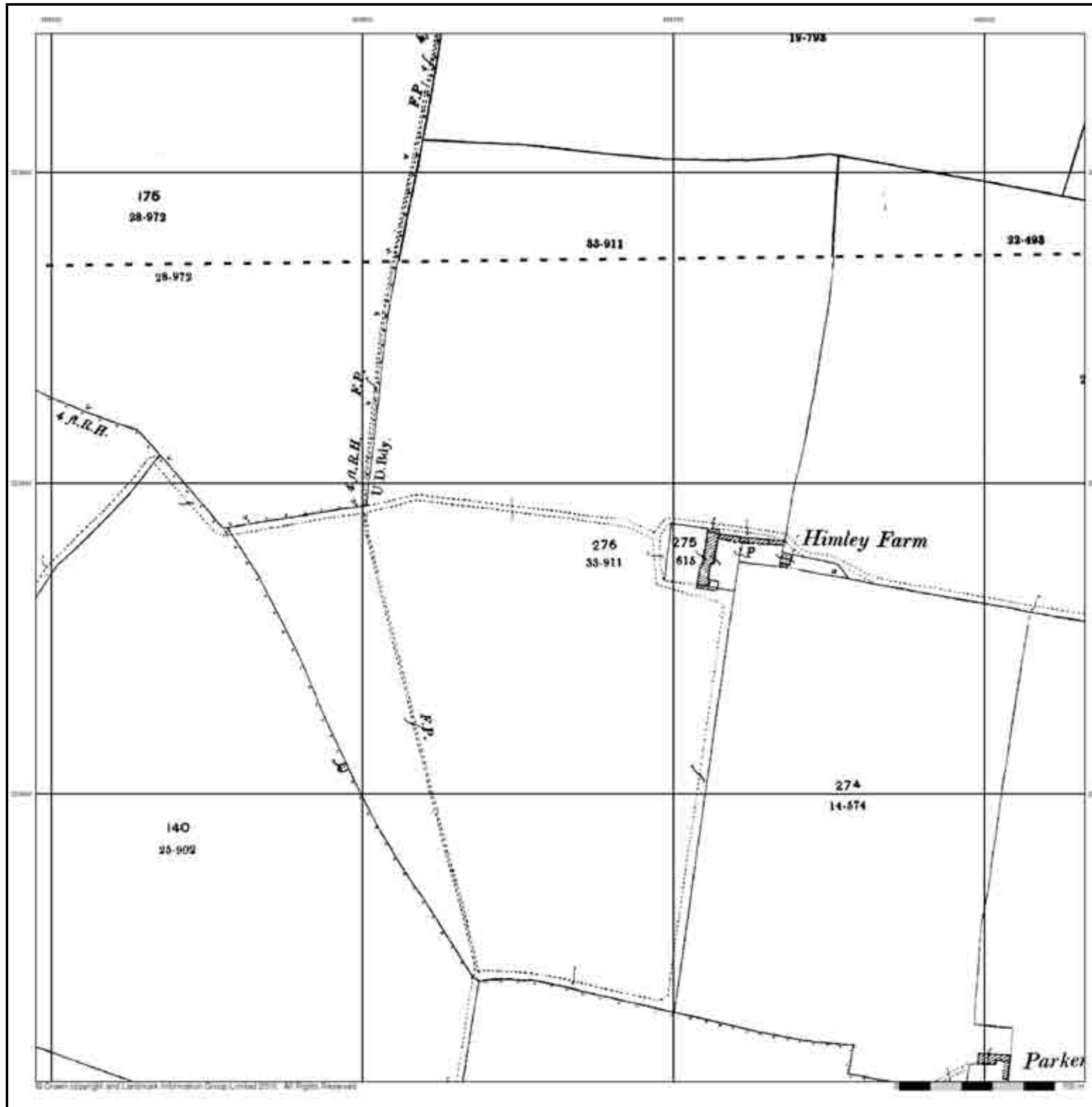


### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire





## Oxfordshire

Published 1922

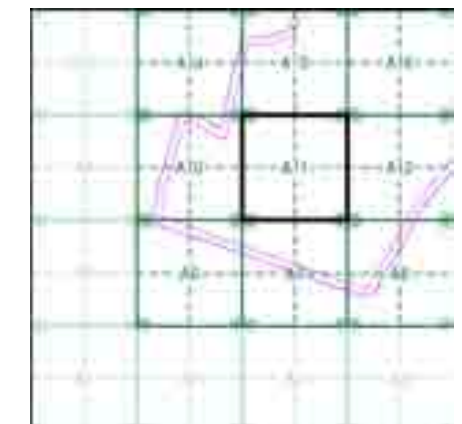
Source map scale - 1:2,500

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)

023_01
1922
1:2,500
023_05
1922
1:2,500

### Historical Map - Segment A11



### Order Details

Order Number: 31544761\_1\_1  
 Customer Ref: UA001881  
 National Grid Reference: 455870, 223500  
 Slice: A  
 Site Area (Ha): 395.55  
 Search Buffer (m): 50

### Site Details

Site at, Bicester, Oxfordshire