On behalf of Kraft Foods UK Ltd and Barwood Developments Ltd

Southam Road Retail Park, Banbury

Ground Stability and Phase 1 Contaminated Land Desk Study

Project Ref: 26004/006

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Ground Stability and Phase 1 Contaminated Land Desk Study

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Ground Stability and Phase 1 Contaminated Land Desk Study

Summary

This report presents the findings of a Ground Stability and Phase 1 Contaminated Land Desk Study for the proposed development of the Southam Road Retail Park, Banbury (the study site).

The study site lies on the northern outskirts of Banbury and is currently the southern section of the Kraft Foods site. The study site comprises a large warehouse unit, temporary office building, gas and electricity outbuildings, truck wash and truck parking areas, access routes and areas of open ground. A watercourse, the Birds Brook, flows along the northern and eastern site boundaries and is largely culverted. In general topographical terms, the site is situated on the low western flank of the valley feature associated with the River Cherwell; the river lies to the east of the site, approximately 500m from the Southam Road boundary. The anticipated general site geology comprises the Jurassic aged Charmouth Mudstone Formation, although there is evidence of Made Ground and Superficial Deposits (of alluvium) also being present, particularly beneath the eastern area of the study site.

In terms of recent land use history, the study site was developed in the 1960s as part of a large food factory. The warehouse unit dates from the original development constructed on an earthworks platform created during an early cut and fill operation and was extended westwards in the 1970s. It is possible that part of the eastern area of the site was used as a fill area during the cut and fill operation.

With respect to the preliminary ground stability assessment the study has identified:

Potential Hazard	Description
Artificial Cavities	No hazard
Natural Cavities	No hazard
Possible Adverse Foundation Conditions	Hazards associated with compressible ground in areas of deep Made Ground and Superficial Deposits (possible Alluvium). Possible shrinking or swelling hazards associated with the predominant clay soil. Possible obstructions associated with the former warehouse foundation if piled.
Unstable slopes	Existing cut slopes are present along the south western study site boundary. There is no visual evidence of slope instability, although any alteration to slope profiles during the proposed development will require consideration.

To quantify the extent of the potential risk associated with areas of Made Ground and Superficial Deposits, and investigate existing foundations, an intrusive ground investigation is required in due course to confirm the nature of the near surface ground and groundwater conditions.

The Phase 1 qualitative geoenvironmental risk assessment carried out to assess the potential hazards and constraints posed by existing site conditions and past land use activities are summarised as follows:

Potential Receptor	Risk Assessment	Description
Human Health – Future Site Users	Low	The risk to future site users is expected to arise from potential localised hotspots of hydrocarbons associated with the former fuel storage and filling areas and the general potential for spillages associated with the former and existing uses of the site. However, given the proposed use of the site and the anticipated ground conditions, the overall risk is considered to be Low.



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Potential Receptor	Risk Assessment	Description
Human Health – Off-site Users	Low	As above.
Human Health – Construction Workers	Very Low	The risk to site workers is expected to be mitigated by provision of appropriate protective clothing and equipment, and adoption of good standards of hygiene to prevent prolonged skin contact, inhalation and ingestion of soils.
Groundwater	Low	It is considered unlikely that significant migration of potential contaminants away from any hotspot areas and toward aquifers would have occurred due to the anticipated low permeability clay soils present beneath the site.
Surface Water	Low	There are existing surface water discharges into the Birds Brook from the site. Pipe work associated with these discharges may provide a pathway for site contamination to enter the watercourse. However, a similar risk associated with new pipe work installed during the development is considered to be Low.
Buildings	Very Low	There is no identified risk to new buildings.

The Phase 1 geoenvironmental risk assessment has identified that progression to a Phase 2 study will be required in due course as part of the development process. Some local remedial works may be required as part of the enabling works for the redevelopment of this land.

The summary contains an overview of the key findings and conclusions. This summary should not be treated independently but should be read in conjunction with the main report text including Section 8 and the accompanying tables, figures and appendices.



Ground Stability and Phase 1 Contaminated Land Desk Study

1 Introduction

1.1 Brief

Peter Brett Associates LLP (PBA) has been commissioned by Barwood Development Securities Ltd to carry out a Ground Stability and Phase 1 Contaminated Land Desk Study to support a planning application for the proposed Southam Road Retail Park, Banbury, Oxfordshire.

1.2 Objectives

The objective of the study is to review readily available information from public databases to assess the likely ground conditions at the study site and immediately surrounding land to identify:

- Any potential risk of subsidence due to underground cavities or to variable ground conditions of both natural and human origin; and
- Any potential geoenvironmental hazards and constraints to the proposed future development.

As such reference is made to guidance given in Planning Policy Guidance Note 14 and Planning Policy Statement 23.

1.3 Scope of Works and Terms of Reference

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The study follows the guidelines outlined in Planning Policy Guidance Note 14 [PPG 14]: Development on Unstable Land, Annex 2: Subsidence and Planning. PPG 14 includes guidance to Local Planning Authorities on land that could give rise to problems as a result of subsidence. This includes potential subsidence arising from artificial cavities, natural cavities coal and non-coal (underground) mining/extraction activities and adverse foundation conditions (ranging from soft weak sediments to hard strong rocks).

Available published geological information has been obtained and reviewed, together with data acquired from public databases.

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Since April 2008, all planning applications must use the (new) national 1App planning application form. Section 14 (Existing Use) of 1App, highlights the requirements of Planning Policy Statement 23, specifically with respect to whether the land is suspected or known to be contaminated or if the proposed use would be particularly vulnerable to the presence of contamination. Sensitive uses are defined as including housing with gardens, schools, nurseries or allotments.

The principal components of this assessment are generally as detailed in Section 6.2 of BS 10175 and CLR 11 Model Procedures for the Management of Contaminated Land. CLR 11 sets out a risk management process based on a tiered risk assessment with an increasing level of detail required to progress through the tiers. Due regard is also paid to Planning Policy Statement 23 [PPS 23]: Planning and Pollution Control, Annex 2: Development on Land Affected by Contamination.

In order to identify the current conditions and land use on the site and in the surrounding area, readily available information in the public domain has been obtained and reviewed, and a site reconnaissance has been carried out. This report presents a review of the acquired information, together with the developed preliminary conceptual site model (CSM) and the associated Tier 1 risk assessment. This element of the study has been carried out in accordance with PBA's 'Methodology for Ground Condition Assessment', a copy of which is included in **Appendix 1**.



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1.4 Report Format and Sources of Information

Sections 1 to 4 of this report present a factual summary of the information collected and observations made during a site visit carried out in December 2011. Section 5 presents the preliminary ground stability assessment. Section 6 presents the preliminary geoenvironmental Tier 1 risk assessment, together with the associated Conceptual Site Model (CSM).

The following primary sources of data/ study were used in the compilation of this report:

- Historical information on the study site was obtained from Ordnance Survey extracts obtained from the Landmark Information Group as part of an Envirocheck report. This information was supplemented by information from various web-based resources.
- Various historical documents, ground surveys and plans for the study site, and area to the north of the study site, were supplied by the current landowner, Kraft Foods Ltd.
- Geological information for the study site was obtained from various reference materials published by (or sourced from) the British Geological Survey (BGS).
- Ground stability information was obtained from the Natural Cavity and Artificial non-coal (underground) mining cavity databases managed and enhanced by Peter Brett Associates LLP, the regional atlas from the Mining Review of Great Britain and other online resources.
- Environmental information was obtained from the Envirocheck report and by direct enquiry for public register information to Cherwell District Council and the Environment Agency.

Reference should be made to Section 8 of this report for guidance essential to all readers of this report.



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2 The Site

2.1 Site Location

The Southam Road Retail Park site lies on the northern outskirts of Banbury, Oxfordshire, approximately 800m north of the town centre. The study site currently forms the southern part of an industrial complex operated by Kraft Foods. The site is bordered to the east by Southam Road, to the north by industrial buildings (Kraft Foods), to the west by a car park (used by Kraft Foods employees) and to the south-west by a residential estate and cemetery.

The National Grid Reference of the site centre is approximately SP 449 414, and its general location is shown on **Figure 1**. The site boundaries and salient local features are shown on **Figure 2**.

2.2 Site Description

2.2.1 General Topography

In general topographic terms, the study site is situated on the higher ground to the west of the River Cherwell flood plain; the river lies to the east of the study site, approximately 500m from the Southam Road boundary. Survey plans for the study site supplied by Kraft indicate that site levels fall gradually from west to east from approximately 96.5mOD at the western end of the warehouse unit (see below) to approximately 95.0mOD on the eastern study site boundary.

2.2.2 Current Land Use and Description

A site reconnaissance visit was carried out by a geotechnical engineer in late December 2011. The site visit was carried out with Mr David Jackson of Kraft Foods Ltd. Photographs of the site taken during the visit (Photographs 1 to 10) are presented at the rear of the main report text. **Figure 2** shows the location and direction of view of the photographs, together with notes on observed salient site features.

The main feature on the site is the large warehouse unit located in the central and western area. Mr Jackson confirmed that the warehouse was constructed on a level platform during the 1960s that required some localised cut and fill of the previous ground levels. Resulting cut slopes are evident beyond the south west corner of the warehouse that links the higher Kraft car park area, to the west of the study site boundary, to the lower warehouse and study site levels to the east. From available survey information, these cut slopes have a maximum height of approximately 3.5m.

The warehouse unit is split into two main parts. The eastern section is the original warehouse building constructed during the mid 1960s, the western section is an extension to the original warehouse constructed during the 1970s. The eastern section is used for warehousing. The remaining part of the eastern section, and the whole western section, is leased by Kraft to Ceva Logistics for the storage of new cars and car components. A connecting building to the north of the original warehouse, and beyond the site boundary is used by Kraft for food storage.

Service roads run around the western, southern and eastern perimeters of the warehouse, providing truck access to the warehouse from the main Kraft factory area and site entrance to the north. Truck loading bays are located to the south of the warehouse, and there is a truck wash outside the south east corner of the warehouse. Mr Jackson advised that the truck wash system is no longer operational, but the location is still used for car washing. The area to the east of the warehouse is used as a truck and trailer park, and waste bins, pallets and bundled packaging waste were also observed in this area.

The eastern site area is mainly open and grassed. Isolated trees line the banks of the watercourse (the Birds Brook) flowing along the north eastern site boundary including ash, apple and aspen (a form



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of poplar). Mature stands of trees are present in the north-east and south-east corners of the site including poplar, maple, rowan and birch. The eastern study site boundary is lined by lime trees with poplar trees on the south eastern boundary (TEP, 2010). A disused single storey office building (of temporary construction form) is located in the south eastern area of the site, with large waste bins located to the south of the office building. An 11kv substation and pump house (serving the fire system) is located close to the southern site boundary in the south eastern corner of the site. A separate small building associated with the main gas supply to the factory is located in the grassed area in the north eastern site area.

Along the southern site boundary, Mr Jackson indicated the former location of a fuel filling station and bunded fuel tanks which have been removed. The timing and type of decommissioning work carried out on the underground fuel storage tanks serving the filling station could not be confirmed by Mr Jackson, although the tanks appeared to have been buried in a landscape embankment to the west of the former fuel filling area. A concrete surface slab demarks the probable location of the tanks. A separate earth bund was observed to the south of the former fuel filling area, which Mr Jackson indicated was a noise attenuation bund constructed to reduce the noise impact of the warehouse on the residential area beyond the southern site boundary.

The Birds Brook along the northern site boundary is present either in open channel or in concrete culverts beneath access roads and the connecting north warehouse. The watercourse is also culverted along the eastern study site boundary, adjacent to the Southam Road. The site reconnaissance visit was carried out during heavy rainfall, and the watercourse appeared discoloured, presumably from surface water run-off discharges into the watercourse further upstream.

2.3 Geological Setting

2.3.1 Introduction

This section presents a summary of geological information obtained for the site and the surrounding area from the following sources:

- Published geological maps from the British Geological Survey (BGS). The maps reviewed were the 1:10,000 digital map of Great Britain obtained from the Landmark Information Group (LIG, 2011), and the 1:50,000 sheet map of England and Wales (BGS,1982). The 1:10,000 map extract is included in Appendix 3.
- Borehole and trial pit records for the site and surrounding area available via a search of the BGS's GeoRecords database. The database held records of four boreholes in the eastern area of the study site dating to February 1989 (presumably part of an earlier planning application for this area) and three trial pit records located north of the study site boundary for a proposed new computer room dating to February 1987. Borehole and trial pit records are included in Appendix 4.
- Ground investigation data supplied to PBA by Kraft Foods. Kraft supplied an interpretative ground investigation report carried out by Geotechnical Engineering Limited (GEL) in March 2011 for a proposed pair of evaporate towers located within the Kraft manufacturing area north of the study site boundary. The ground investigation comprised one borehole. The GEL report also makes reference to an earlier ground investigation carried out by Ground Sense Limited in 2006 for a separate evaporate tower. The Ground Sense investigation comprised two boreholes, the details of which are described in the GEL report. The GEL report is included in Appendix 4.



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2.3.2 General Details

Bedrock Geology

The geological maps show that the entire site is underlain by the Jurassic aged Charmouth Mudstone Formation (formerly known as the Lower Lias Clay). The younger Marlstone Rock and Dyrham Formations outcrop on the east facing slopes of the Cherwell Valley approximately 500m west of the study site boundary.

The Charmouth Mudstone Formation (Lower Lias) is described on the geological map as comprising dark bluish grey clays between 75m and 110m thick (BGS, 1982).

The borehole and trial pit records from the study site area and site vicinity describe the stratum as generally stiff to hard blue grey silty clay with occasional mudstone gravel and shell debris. The GEL borehole encountered a medium strong dark grey argillaceous limestone band at 8.4m below ground level (bgl). A limestone band was also encountered during the Ground Sense investigation at a depth of 10.5m bgl. The base of this limestone band was not proven during either investigation, but it was at least 0.7m thick.

Superficial Geology

The geological maps show a narrow tract of Alluvium following the course of the River Cherwell that flows in a north-south direction beyond the eastern study site boundary. An area of this Alluvium is mapped adjacent to the eastern study site boundary.

Although Superficial Deposits are not mapped on the study site, the BGS borehole records from the eastern area of the study site indicate up to 4.7m of Superficial Deposits overlying the bedrock, thinning in a westerly direction. These deposits are generally described as soft to firm orange brown silty clay with gravel near the surface, intermittently described as green grey and orange brown with depth and becoming increasingly gravelly towards the base in the thickest areas. The presence of black organic material and wood are also noted on some of the borehole logs.

The green grey deposits are characteristic of River Cherwell flood plain Alluvium. The orange brown deposits may be associated with secondary alluvial tracts known to be present for local tributaries of the River Cherwell, in this case the Birds Brook. Therefore, the Superficial Deposits identified beneath the eastern area of the study site may be representative of layered alluvial soils derived from both the River Cherwell and Birds Brook.

The GEL borehole records Head Deposits between 0.9m and 1.9m bgl. The Head Deposits are described as firm to stiff dark grey, locally orange brown, slightly gravelly clay. The gravel is recorded as medium mudstone. Similar deposits (though termed glacially disturbed Lias Clay) are recorded on one of the BGS trial pit records between 0.3m and 0.7m bgl.

Made Ground

A generally thin cover layer of Made Ground (typically less than 1m thick), has been recorded on the BGS trial pit records, GEL borehole record and was also encountered during the Ground Sense investigation.

From the site visit, it is understood that some cut and fill operations were carried out as part of the original construction of the warehouse, and as such areas of Made Ground associated with the filling operations would be expected on the site. It is possible that the upper part of the Superficial Deposits indicated beneath the eastern area of the study site is in fact Made Ground which was placed as fill during the original development of the site. This is supported by the apparent changes in ground profile in this area pre and post development.



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2.4 Site History

2.4.1 Introduction

This section presents a summary of the identified historical land uses on and immediately adjacent to the Site. Historical information has been gathered from the following sources:

- Available historical maps for the study site and its immediate surrounds acquired from Landmark Information Group as part of an Envirocheck® report (LIG, 2011). These historical maps cover the period 1882 to 2011 and map extracts are reproduced in **Appendix 2**, together with a summary key and index of the individual editions. Care should be taken when using historical maps as they only represent a snapshot of the ground conditions at the time of printing. [For presentation purposes the extracts have been reduced in size by a factor of x 0.707 i.e. to reduce the plan size from A3 to A4 sized].
- Various documents have been supplied to PBA by Kraft. This information includes old site layout drawings, topographical surveys and previous planning applications which provide an insight into the history and development of the Kraft site, including the study site. Selected documents are presented in Appendix 4.
- Internet searches for general information on the history of the study site and surrounding area have also been carried out.

2.4.2 Recent Historical Background

The identified recent (post late nineteenth century) history of the site and its immediate surrounds is briefly summarised as follows:

On site Features

Year	Summary Detail
1882	The historical map shows that the study site is formed of open fields separated into three main enclosures. The study site lies beyond the northern outskirts of Banbury. A tree lined watercourse is shown flowing along the northern and eastern study site boundaries before deviating at the south east corner of the study site beneath the track which borders the eastern study site boundary. A footpath is shown along the south west boundary of the study site. Spot heights indicate a fall in ground levels from west to east.
1900	Trees along field boundaries and the watercourse are no longer shown on the historical map. No other significant changes are evident.
1922	No significant changes are evident.
1938	No significant changes are evident.
1955	No significant changes are evident.
1964	The site area, and land to the north of the site boundary, is developed for industrial purposes (food manufacturing). Copies of the original construction drawings supplied by Kraft indicate that the original development was for Alfred Bird & Sons Ltd. An internet search revealed that Alfred Bird & Sons were subsequently taken over by General Foods (a predecessor of Kraft Foods).
1965	The historical map shows a square building occupying the central area of the site. An area of apparent earthworks is indicated to the west of this building. A caravan park and car park are shown occupying land to the west of the site. The stream is shown along the northern site boundary but appears to be bridged in three locations. The branch of the stream along the eastern boundary is no longer shown. The construction drawings indicate that the square building was originally the "Finished Goods Warehouse". The foundation scheme for the warehouse is unclear, though factory buildings north of the study site appear to be shown as having piled foundations on the drawings. A filling station with underground fuel storage tanks is shown to the south of the warehouse. The main car park is indicated to the west of the warehouse. The watercourse has been culverted along the eastern study site boundary as part of the development.



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Year	Summary Detail
1970	The warehouse unit in the central area of the site is labelled as "Food Processing Plant" on the historical maps. The area to the west of the building is labelled "Car Park".
1984	The warehouse unit has extended westward over the car park and is labelled "Factory" on the historical maps. Part of the unit links to the main factory complex north of the study site. The area to the west of the warehouse extension is now labelled as a car park.
1994	The site plan supplied by Kraft shows the on-site unit divided into four areas. The western extension area is shown as "Western Warehouse (CEVA Logistics)", the central area is split between "(Kraft Foods)" and "(CEVA Logistics)", and the eastern area is shown as "Eastern Warehouse (On-Time Automotive)". The on-site unit is connected to the main factory complex to the north by a thin rectangular unit labelled "Big Bag & MaxPax Storage". This unit lies over the watercourse which is denoted as being culverted beneath. The area to the east of the on-site unit is labelled as a truck park, truck wash and trailer park. Loading bays are shown to the south of the unit. A small rectangular building is present in the south east area of the study site.
2006	No significant changes are evident.

Off-site Features

Year	Summary Detail
1882	The historical maps show the study site to be surrounded by fields. A vineyard nursery is shown approximately 100m south of the site boundary. The on site stream appears to be fed by springs located approximately 1km west of the site boundary.
1938	Residential expansion of the northern outskirts of Banbury is evident around the area of Ruscote, approximately 400m south west of the site boundary. A cemetery is shown to the south of the study site boundary.
1955	Evidence of industrial development is shown by two buildings east of the study site boundary, on the opposite side of Southam Road to the site. Continued expansion of the Ruscote estate to the south west and west of the site is also shown.
1964	Land to the north of the study site boundary is developed by Alfred Bird and Sons Ltd, subsequently General Foods, a predecessor of Kraft Foods. Copies of the original construction drawings show the factory complex divided into various sections for raw material storage, food production and packaging, glass handling, boiler house, offices etc.
1965	The historical maps indicate industrial development north of the site boundary with a large "Food Processing Plant" labelled and associated tanks and a chimney. Industrial premises are also indicated beyond the north western, eastern and south-eastern site boundaries labelled "Works", "Factory", "Depots" and "Garage". Allotment gardens are shown bordering the southern site boundary and residential areas are shown extending towards the south western site boundary.
1970 – 2011	No significant changes to the factory complex north of the study site. Further residential expansion of Banbury to the south west and west of the study site boundary. Industrial estates and retail parks occupy ground beyond the north western, northern and eastern study site boundaries.



3 Potential Geological Hazards

3.1 Mining Cavity Occurrence

A search of the PBA Artificial (non-coal underground) Mining Cavities Database indicated that there are no recorded non-coal mining cavity locations within 5km of the site centre.

The Review of Mining Instability in Great Britain, regional atlas for Berkshire and Oxfordshire, indicates that the study site is located in an area where there is no evidence of mining (Arup, 1990). The Coal Authority's Online Gazetteer indicates that Banbury is not an area which requires a coal and brine mining search (Coal Authority, 2011).

3.2 Natural Cavity Occurrence

A search of the PBA Natural Cavities Database indicated that there are no recorded natural cavity locations within 5km of the site centre.

3.3 Adverse Foundation Conditions

The Envirocheck report (see Appendix 3) includes details of potential geological hazards which may give rise to adverse foundation or construction conditions. The information contained in this report is summarised below, together with comments:

Hazard	Envirocheck Hazard Potential	PBA Opinion/ Comment
Potential for Collapsible Ground Stability Hazards	Very Low	On the basis of the available data, PBA concur with this designation. There is a culverted watercourse in the eastern area of the site which should be considered as part of any new development.
Potential Compressible Ground Stability Hazards	No Hazard	PBA do not currently concur with this assessment. PBA consider the hazard to be Moderate. Areas of Superficial Deposits have been indicated on the study site during previous ground investigations. It is possible that these soils are a combination of Made Ground associated with cut and fill operations carried out as part of the original development, overlying alluvial soils. The combined thickness of these soils has been encountered up to 4.7m. Localised areas of alluvial deposits may be present elsewhere associated with the on-site watercourse. Other areas of Made Ground may also be present on the site associated with the industrial use of the site since the 1960s e.g. beneath the western warehouse extension where the car park used to be and landscape bunds. Where Made Ground and/or alluvial deposits are present, some potential hazard will exist due to potentially soft, poorly consolidated or degradable material being present. The extent of this hazard will be dependent on the depth and nature of the alluvial deposits and Made Ground and further investigation is required to establish/ evaluate this.



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Hazard	Envirocheck Hazard Potential	PBA Opinion/ Comment
Potential for Ground Dissolution Stability Hazards	No Hazard	On the basis of the available data, PBA concur with this designation.
Potential for Landslide Ground Stability Hazards	Very Low	On the basis of the available data, PBA concur with this designation. Cut slopes are present on the south western and western study site boundaries. During the site reconnaissance visit, these slopes appeared in good condition without noticeable signs of significant stability issues. Any alterations to these slopes during the redevelopment will require careful consideration.
Potential for Running Sand Ground Stability Hazards	No Hazard	PBA do not concur with this assessment. PBA consider the hazard to be Low. It is known that to the north of the study site, running sand type conditions have been encountered locally where alluvial deposits associated with minor tributaries of the River Cherwell have been inferred. Similar conditions may potentially locally occur within any alluvial tract associated with the Birds Brook.
Potential for Shrinking or Swelling Clay Ground Stability Hazards	Low	PBA do not concur with this assessment. PBA consider the hazard potential to be Moderate The Charmouth Mudstone Formation known to underlie the site will classify the site as a 'clay soil' site for foundation purposes. The removal of existing high water demand trees during the redevelopment may result in the presence of a desiccated clay subsoil and thus potential risk of swelling ground. Retained or new areas of tree planting may lead to continued or initiate new potential shrinkage of the clay subsoil.

Table 3.3: Summary of the Potential Geological Hazards Identified in the Envirocheck® Report

An assessment of the ground stability risk is given in Section 5 later in the report.



4 Geoenvironmental Setting

4.1 Hydrology

The watercourse that flows through the study site is known as both the Birds Ditch and the Birds Brook. The watercourse is culverted in the north central area beneath a connecting unit between the on-site warehouse to the south and the main Kraft factory complex to the north. The watercourse is also culverted along the Southam Road study site boundary and leaves the study site boundary via the south east corner. Information supplied by Kraft Foods from a previous flood risk assessment indicates that beyond the study site boundary, the watercourse remains culverted for the rest of its length, discharging into the River Cherwell just to the north of Banbury town centre, approximately 600m from the study site boundary.

From the historical maps it appears that the Birds Brook is fed via springs issuing from the Marlstone Rock Formation on the valley side west of the study site boundary. However, from the site reconnaissance visit it is evident that any base flow in the brook is augmented by surface water discharges into the stream along its course.

The Environment Agency Flood Map included with the Envirocheck Report indicates that the study site is not at risk from fluvial flooding. This report however does not constitute a Flood Risk Assessment and the reader is referred to the separate Flood Risk Assessment Report currently under preparation by Peter Brett Associates LLP.

4.2 Hydrogeology

4.2.1 Groundwater Data

Groundwater strikes were recorded in three of the four boreholes carried out in the eastern area of the study site in 1989. Strikes were recorded in the Superficial Deposits at depths between 2.7m and 3.2m bgl. Standing water levels were recorded at 2.4m and 2.8m bgl.

Slight seepages of water were observed from the Charmouth Mudstone (Lower Lias Clay) and recorded on trial pit logs carried out during the ground investigation for the computer room, north of the study site in 1987. Groundwater was not recorded during the drilling of the borehole for the evaporate tower by GEL in 2011. Subsequent groundwater monitoring of the standpipe installation in this borehole indicated a standing water level of approximately 1.0m bgl. However, this level may not be a true indication of groundwater level due to seepages from the overlying Made Ground (assuming that in accord with best accepted practice that any water added during the construction of the borehole was removed as part of the monitoring well construction process).

4.2.2 Aquifer Classification

The River Cherwell flood plain Alluvium present beyond the eastern study site boundary is classified by the Environment Agency (EA) as a 'Secondary Aquifer' (formerly known as a Minor Aquifer). From the BGS borehole records, Superficial Deposits were encountered beneath the eastern area of the study site during an earlier ground investigation (possibly Made Ground overlying Alluvium). If these deposits are further alluvial deposits associated with the Birds Brook and the River Cherwell they may be considered an extension of the Secondary aquifer.

Secondary Aquifers are sub-divided into three types, namely Secondary A and Secondary B aquifers, and Secondary Undifferentiated aquifers.

 A Secondary A aquifer has permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases form an important source of base flow to rivers.



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- A Secondary B aquifer has predominantly lower permeability layers that may store and yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of what were formerly designated non-aquifers.
- Secondary Undifferentiated Aquifer has been assigned in cases where it has not been possible to attribute either category A or B to a rock type. In most cases, this means that the layer in question has previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type.

The off-site River Cherwell flood plain Alluvium is classified as Secondary A aquifer.

The Charmouth Mudstone Formation is classified as 'Unproductive Strata'. Unproductive Strata are rock layers or drift deposits with low permeability that has negligible significance for water supply or river base flow.

4.3 Groundwater and Surface Water Controls

4.3.1 Environment Agency

A request for groundwater and surface water information held by the Environment Agency (EA) pertaining to the site was sent on the 9th December 2011 and information was received on 23rd January 2012 (**Appendix 5**).

The EA have no groundwater and surface water quality monitoring data on or in close proximity of the site. Three active discharge consents are recorded on the Kraft Foods site. Further information on these discharge consents is outlined in the Envirocheck Report (Section 4.3.2).

The EA have records of several pollution incidents in the area. Two of these incidents are located at the Birds Ditch, just upstream of the north-western site boundary, and are dated February 2004 and November 2011. Both incidents are categorised as Minor in relation to water impact (Category 3), the pollutant is not identified. A further incident is recorded in the factory area north of the site boundary dated February 2011. This incident is categorised as Minor in relation to water impact (Category 3), the pollutant is identified as suspended solids caused by drainage failure. It is considered unlikely that these pollution incidents would have significantly impacted the site.

4.3.2 Database Information

The Envirocheck report indicates no pollution incident to controlled water records within the study site boundary.

Nineteen pollution incidents to controlled water are recorded within 500m of the study site boundary, including 9 no. within 100m of the study site boundary. The incidents nearest to the study site boundary are either Category 3 – Minor Incidents or Category 2 – Significant Incidents recorded between 1989 and 1998. Pollutants recorded include oils, unknown sewage and miscellaneous-unknown. The amount of pollution incidents recorded in this area is not unusual given the industrial nature of the area.

One prosecution relating to controlled waters is recorded located approximately 80m south east of the study site boundary. The charge related to the discharge of effluent into Smith's Ditch in 1991. This location is down hydraulic gradient of the study site and is therefore unlikely to have had an impact on the study site.

Six discharge consents are recorded on site, of which 2 no. have the status of "revoked". The consents relate to the discharge of site surface water and cooling water to the Birds Ditch (also known as the Birds Brook). There is no river water quality designation for the Birds Ditch.



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4.3.3 Source Protection Zones

The study site does not currently lie within a groundwater Source Protection Zones (SPZ) or Zone of Special Interest with respect to groundwater according to the Environment Agency.

4.3.4 Nitrate Vulnerable Zones

The site area is currently classified as a 'Nitrate Vulnerable Zone' (NVZ) by the Environment Agency. This is an agricultural control measure to restrict the spread of nitrate pollution from fertilisers in surface and groundwater and has no particular significance with respect to the proposed development of the site.

4.4 Naturally Occurring Contaminants

4.4.1 Radon

Guidance on the measurement and mitigation of radon for commercial and industrial developments is discussed in *Radon in the workplace* (BRE, 1995). From the Envirocheck report, the study site is situated in a low radon potential area and therefore mitigation measures for the proposed development with respect to radon are unlikely to be required.

4.4.2 Arsenic

The Marlstone Rock Formation located west of the study site boundary is known to give rise to locally elevated concentrations of arsenic. The potential for a naturally occurring arsenic hazard to be present on the study site is considered low given the distance of the Marlstone Rock Formation from the site, and the anticipated geological conditions beneath the study site.

4.5 Potentially Contaminative Current and Historic Land Uses

Information on potentially contaminative current and historic land uses on and in the immediate vicinity of the site has been requested by enquiries to the Environment Agency and the Environmental Protection team of Cherwell District Council. As yet no response has been received from Cherwell District Council. Additional information has been obtained from the Envirocheck report.

4.5.1 Environment Agency

The EA have no records of any landfill sites, waste transfer or waste treatment sites on or within close proximity of the site.

4.5.2 Landmark Envirocheck Report Data

The Envirocheck report identifies no active or inactive waste transfer or landfill sites within 500m of the study site.

The Envirocheck report identifies no contemporary trade directory entries on the study site, although 66 no. are recorded within 500m of the study site boundary. This is expected given the close proximity of the study site to several industrial estates and retail parks.

A Historical Data Report supplied with the Envirocheck report indicates that the study site and areas to the north, north-west and east are designated as areas having a potentially contaminative industrial use. The cemetery to the south is also given the same designation. The report does not provide further details for the study site in relation to the location of tanks or energy facilities.

4.6 Ecology

Information on ecological sites on and in the immediate vicinity of the site has been determined by internet searches.



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4.6.1 Magic Website

The interactive map on the MAGIC website (www.magic.gov.uk) has been interrogated for information on local ecology. The MAGIC interactive map is managed by Natural England on behalf of Defra and involves Communities and Local Government, English Heritage, the Environment Agency and the Forestry Commission, as well as Defra and Natural England. All of these organisations are involved in the development and implementation of rural policies in England. This involves the collection and use of data on a wide range of land management schemes and countryside and environmental designations.

A study of the interactive ecological maps on the magic website indicates that the study site is not within 1 km of any of the following ecological sites:

- Local nature reserves,
- National nature reserves,
- Site of Special Scientific Interest (SSSI),
- Special Areas of Conservation, or
- Ramsar (protected wetland) Sites.



5 Preliminary Ground Stability Risk Assessment

5.1 Introduction and Preliminary Ground Conditions Conceptual Site Model

PPG 14 Development on Unstable Land, Annex 2: Subsidence and Planning outlines the requirement for consideration of the potential risk of subsidence arising from:

- Artificial Cavities
- Natural Cavities
- Unstable Slopes
- Potential Adverse Foundation Conditions.

From the geological setting of the site, the local topography and the known site history it is considered unlikely that the future development will have to consider subsidence risks associated with artificial and natural cavities. As such, these subsidence risks are not considered further in this assessment.

5.2 Unstable Slopes

Cut slopes are present along the south-western study site boundary. These slopes are likely to be in the Charmouth Mudstone Formation. These slopes did not show visual signs of significant stability problems during the site reconnaissance visit. However, any alteration to these slopes as part of the proposed development will require consideration to prevent factors which could lead to destabilisation in the future.

5.3 Potential Adverse Foundation Conditions

5.3.1 General presence of 'Clay soils'

The anticipated general presence of the Charmouth Mudstone (Lower Lias) will classify the site as a 'Clay Soil' site. All clay soils are to a varying degree susceptible to shrinkage and swelling due to both seasonal effects and due to the effect of trees and other vegetation. Standard geotechnical classification tests are likely to classify the Charmouth Mudstone (Lower Lias) as a clay soil of medium volume change potential (BRE, 1993).

Design and construction protocols to manage risk of shrinkage/ swelling movements on clay soil sites are well established with published guidelines produced by the Building Research Establishment and National House Building Corporation (NHBC). Adherence to these published guidelines, including guidelines on new proposed landscape plantings, should ensure no increased risk to development as result of the clay soil classification of the site.

5.3.2 Compressible Ground

The presence of Superficial Deposits (possibly incorporating Made Ground and Alluvium) beneath the eastern area of the study site and the potential for Made Ground and Alluvium (along the tract of the Birds Brook) to be present in other areas of the study site give rise to potential adverse foundation conditions associated with the natural ground conditions and the past historical use of the site.

5.3.3 Buried Obstructions

The large warehouse building may have a piled foundation. Thus whilst site demolition and clearance may remove all of the superstructure and shallow sub-structure, it may not remove existing piles. Old pile foundations may present obstructions to new foundation and give rise to potential local adverse foundation conditions.



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5.4 Geotechnical Investigation

An intrusive geotechnical investigation will be required in due course to provide site specific information to assist in the design of the proposed development. The investigation work will be required to confirm the extent and properties of the Superficial Deposits and to confirm the general near surface ground and groundwater conditions on the site. The work is also required to investigate the foundation scheme to the existing buildings.



6 Preliminary Geoenvironmental Risk Assessment

6.1 Introduction

A qualitative contamination risk assessment has been undertaken for the study site. The methodology and criteria adopted by PBA for the preliminary geoenvironmental risk assessment is presented in **Appendix 1**. The phase 1 preliminary risk assessment includes the development of a preliminary conceptual site model (CSM). The CSM describes the types and locations of potential contamination sources, the identification of potential receptors and the identification of potential transport/ migration pathways.

Potential contamination sources (PSC) are defined as any residual contamination on the site, normally associated with previous or existing site activities. A "source" may affect one or more "receptors" including people, natural soils, plants, ecosystems, building materials, services and water resources both surface water and groundwater. For a pollutant linkage to be identified a connection between all three elements (source-pathway-receptor) is required. A pictorial representation of the preliminary CSM developed for the site is presented in **Figure 4**.

6.2 Hazard Identification

The study site was developed in the mid 1960s as part of a large food manufacturing complex. The western and central area of the study site was originally used as a warehouse and this has broadly remained the same until the present day. The eastern area has remained broadly undeveloped although may have been used as a fill area during cut and fill operations for the original development during the 1960s. The factory buildings are present to the north of the study site and are separated from the study site by the Birds Brook, a small watercourse which flows partly culverted along the northern site boundary and fully culverted along the eastern site boundary.

6.2.1 Potential Sources of Contamination

The potential sources of contamination (PSC) identified are summarised below and shown on the pictorial CSM (**Figure 4**). Off site sources of contamination are only identified if they are located hydraulically up gradient or within 250m of the site boundary.

Item/ Reference	Description	Comment
PSC 1	Former underground fuel storage tanks	Potential for hydrocarbon contamination of
(On-site; Historical)	used when the fuel filling station was in operation. The tanks and pipework are understood to be decommissioned but this is unconfirmed.	soils due to fuel spills and leaks around the tank locations. However, the clayey nature of the underlying soils is likely to have retarded migration such that any contamination is likely to be present in the form of localised hotspots in and around the tanks.
PSC 2 (On-site; Historical)	Former fuel filling station and bunded fuel tank location.	As for PSC1, potential for localised hydrocarbon hotspots associated with spills and leaks around fuel storage and filling area.
PSC 3 (On-site; Historical and current)	Former truck wash and current truck park.	As for PSC1, potential for localised hydrocarbon hotspots and the possible presence of detergents and cleaning solvent contaminants associated with spills and leaks around truck wash equipment and truck park.
PSC 4 (On-site: Historical and current)	Electrical sub-station located in south east area of the site.	Potential for localised hydrocarbon and polychlorinated biphenyls (PCBs) hotspots associated with site use.



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Item/ Reference	Description	Comment
PSC 5 (On-site: Historical and current)	Warehouse building and other structures located on site.	Potential for presence of hazardous materials (e.g. asbestos) used in the construction of these buildings. The presence of these materials will have to be considered as part of the demolition works.
PSC 6 (On-site; Historical and current)	Made Ground	Potential for localised hotspots associated with areas of Made Ground where the source of the material is unknown.
PSC 7 (Off-site; Historical and current)	Industrial land-use	The food factory to the north of the site has been in operation for almost 50 years. Other industrial land-uses are also present in close proximity to the site boundary. Possible contaminants include hydrocarbons, asbestos, various other possible chemicals, heavy metals etc. However, given the anticipated ground conditions, it is considered unlikely that off site sources of contamination would have significantly impacted the site.

Table 6.1: Potential Sources of Contamination (PSC) based on Identified Land Use Activities

6.3 Hazard Assessment

The potential receptors (for both on site and adjoining land) that are considered for the site, including the exposure pathway and modes of transport that are considered are presented in **Table 1** of this report. The table contains the pollutant linkages for the potential sources.

6.4 Risk Estimation

Risk estimation involves predicting the likely consequence (what degree of harm might result) and the probability that the consequences will arise (how likely the outcome is).

A table summarising the estimated risks for the identified pollutant linkages on this Site is presented in **Table 1**.

Based on the information available, there are a number of plausible pollutant linkages, assuming a worst case scenario, the estimated risks have been classified as follows:

- Human Health (On-site Current) Low
- Human Health (On-site Future) Low
- Human health (Off-site) Low
- Human health (On-site Construction) Very Low
- Groundwater Low
- Surface water Low
- Buildings Very Low



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6.5 Risk Evaluation

Possible pollutant linkages are determined using professional judgement. If a linkage is considered possible, it is considered that this represents a potentially 'unacceptable risk' and therefore requires further consideration. This may be through remediation or mitigation or through further tiers of investigation and assessment.

Possible pollutant linkages have been identified for human health, groundwater, surface water and buildings, although the level of risk does not exceed the Low classification. In this instance the plausible pollutant linkages have been identified for potential localised hydrocarbons associated with the historical storage of fuel and general industrial use of the site.

6.6 Conclusions

The results of this Ground Condition assessment consider that the site may potentially have been impacted by past activities on the site, specifically from underground fuel storage tanks where the type and extent of decommissioning is unknown, and the general industrial use of the site since the 1960s. Consequently, there may be local point sources (or "hotspots") near former fuel storage locations and in other areas where spills and leaks of fuel/oils may have occurred (e.g. the truck wash and truck park). However, due to the generally clayey nature of the underlying site soils, it would not be anticipated that contamination associated with a local point source has migrated significantly to affect widespread areas of the study site, and off-site receptors.

Whilst the risk associated for the whole site is considered to be **Low**, a Phase 2 intrusive investigation will be required in due course to investigate PSCs and generally confirm the preliminary conceptual site model developed by this study. The requirement for remedial measures will depend on the outcome of the Phase 2 investigation.

6.7 Confidence and Uncertainty

CLR 11 requires appropriate range and level of information to be collected. The information quality criteria given in CLR 11 are:-

- Relevant to the context of the assessment
- Sufficient for the required level of confidence
- Reliable reflect the true or likely conditions
- Transparent in meaning and origin

Whilst the data used in this assessment is considered robust and suitable for purpose, there is uncertainty with respect to the extent and actual realisation of potential contamination on the site.

Given the limited scale of the identified PSCs, it is anticipated that the requirement to carry out a Phase 2 intrusive investigation can be satisfactorily dealt with by incorporation in any granted Outline Planning Consent of the 'model conditions' outlined in the Department of Communities and Local Government circular to Chief Planning Officers in England dated 30 May 2008 (*Note that these model planning conditions are currently under review*).



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8 Essential Guidance for Report Readers

This report has been prepared within an agreed timeframe and to an agreed budget that will necessarily apply some constraints on its content and usage. The remarks below are presented to assist the reader in understanding the context of this report and any general limitations or constraints. If there are any specific limitations and constraints they are described in the report text.

- The opinions and recommendations expressed in this report are based on statute, guidance, and best practise current at the time of its publication. Peter Brett Associates LLP (PBA) does not accept any liability whatsoever for the consequences of any future legislative changes or the release of subsequent guidance documentation, etc. Such changes may render some of the opinions and advice in this report inappropriate or incorrect and the report should be returned to us and reassessed if required for re-use after one year from date of publication. Following delivery of the report PBA has no obligation to advise the Client or any other party of such changes or their repercussions.
- 2 Some of the conclusions in this report may be based on third party data. No guarantee can be given for the accuracy or completeness of any of the third party data used. Historical maps and aerial photographs provide a "snap shot" in time about conditions or activities at the site and cannot be relied upon as indicators of any events or activities that may have taken place at other times.
- The conclusions and recommendations made in this report and the opinions expressed are based on the information reviewed and/or the ground conditions encountered in exploratory holes and the results of any field or laboratory testing undertaken. There may be ground conditions at the site that have not been disclosed by the information reviewed or by the investigative work undertaken. Such undisclosed conditions cannot be taken into account in any analysis and reporting.
- 4 It should be noted that groundwater levels, groundwater chemistry, surface water levels, surface water chemistry, soil gas concentrations and soil gas flow rates can vary due to seasonal, climatic, tidal and man made effects.
- This report has been written for the sole use of the Client stated at the front of the report in relation to a specific development or scheme. The conclusions and recommendations presented herein are only relevant to the scheme or the phase of project under consideration. This report shall not be relied upon or transferred to any other party without the express written authorisation of PBA. Any such party relies upon the report at its own risk.
- The interpretation carried out in this report is based on scientific and engineering appraisal carried out by suitably experienced and qualified technical consultants based on the scope of our engagement. We have not taken into account the perceptions of, for example, banks, insurers, other funders, lay people, etc, unless the report has been prepared specifically for that purpose. Advice from other specialists may be required such as the legal, planning and architecture professions, whether specifically recommended in our report or not.
- Public or legal consultations or enquiries, or consultation with any Regulatory Bodies (such as the Environment Agency, Natural England or Local Authority) have taken place only as part of this work where specifically stated.



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Table 1 – Summary of Estimated Geoenvironmental Risk



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SOUTHAM ROAD RETAIL PARK, BANBURY Phase 1 Ground Condition Assessment Table 1 Summarising Pollutant Linkages and Risk Estimation

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* It is assumed that construction workers will undergo appropriate heath and safety training and wear personal protective equipment in conjunction with appropriate hygene facilities.

* It is assumed that construction workers will undergo appropriate heath and safety training and wear personal protective equipment in conjunction with appropriate hygene facilities. Risk estimation establishes the magnitude and probability of the possible consequences (what degree of harm might result and how likely).

The criteria for classifying probability and consequence are set out in Tables 3 and 4 of the PBA methodology.

Green text highlights one or more elements of the Pollutant Linkage are missing and therefore eliminated

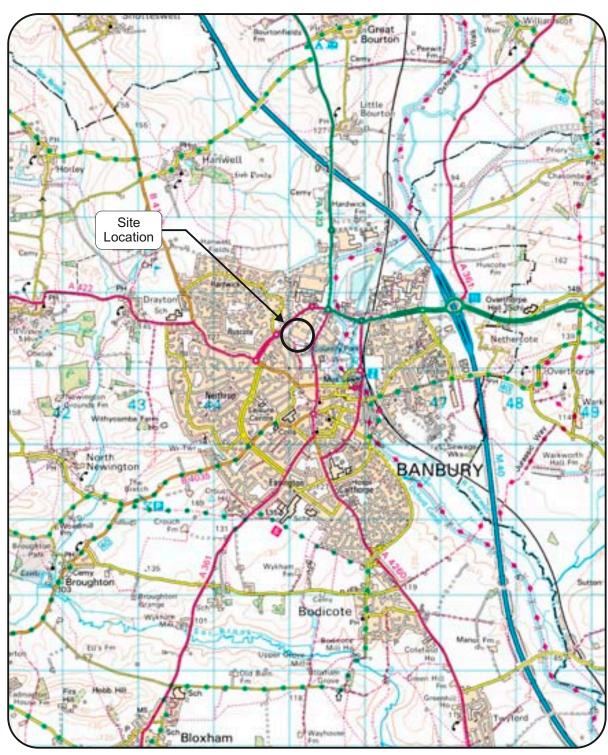
Ground Stability and Phase 1 Contaminated Land Desk Study

Figures



Ground Stability and Phase 1 Contaminated Land Desk Study









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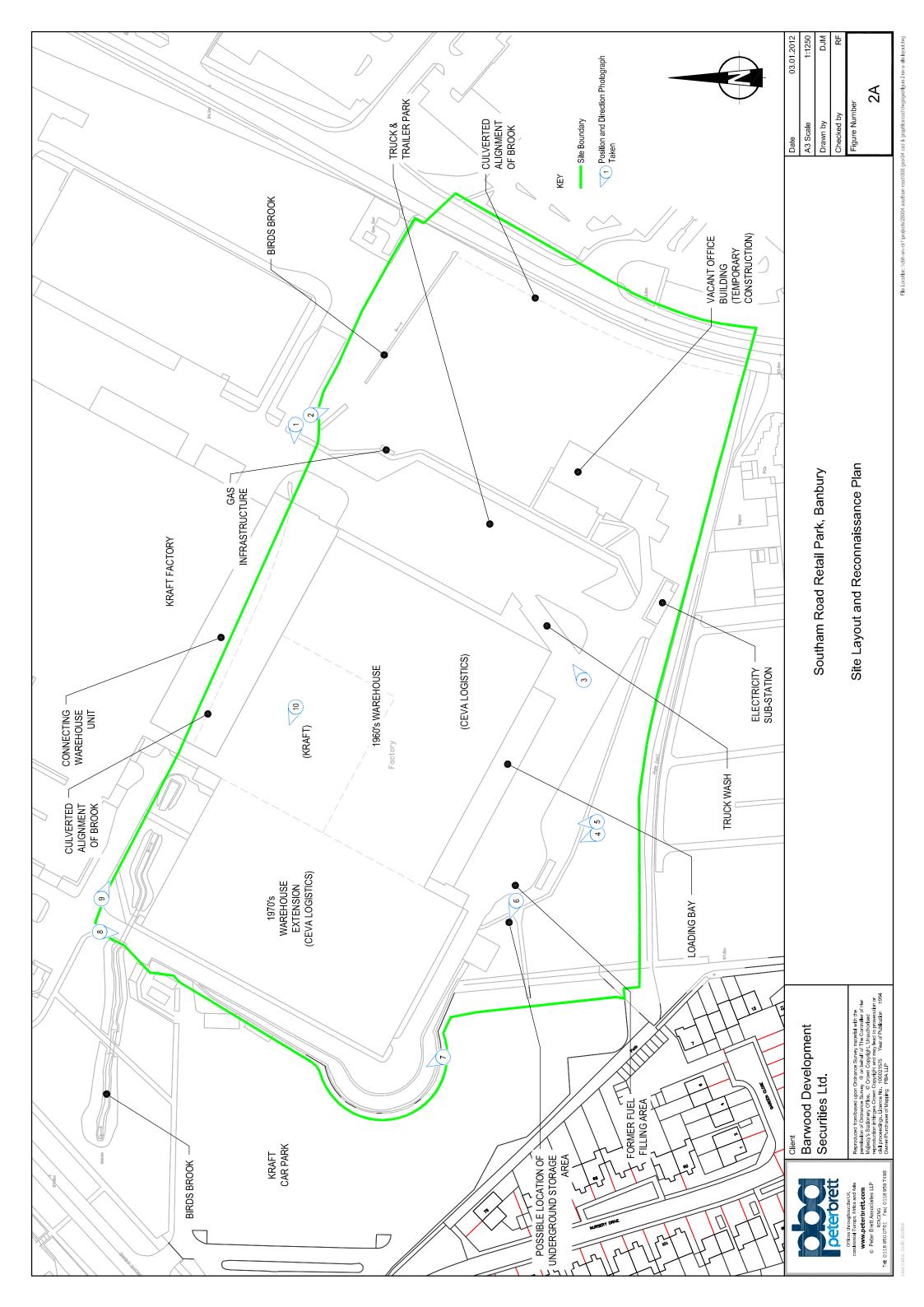
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Southam Road Retail Park, Banbury

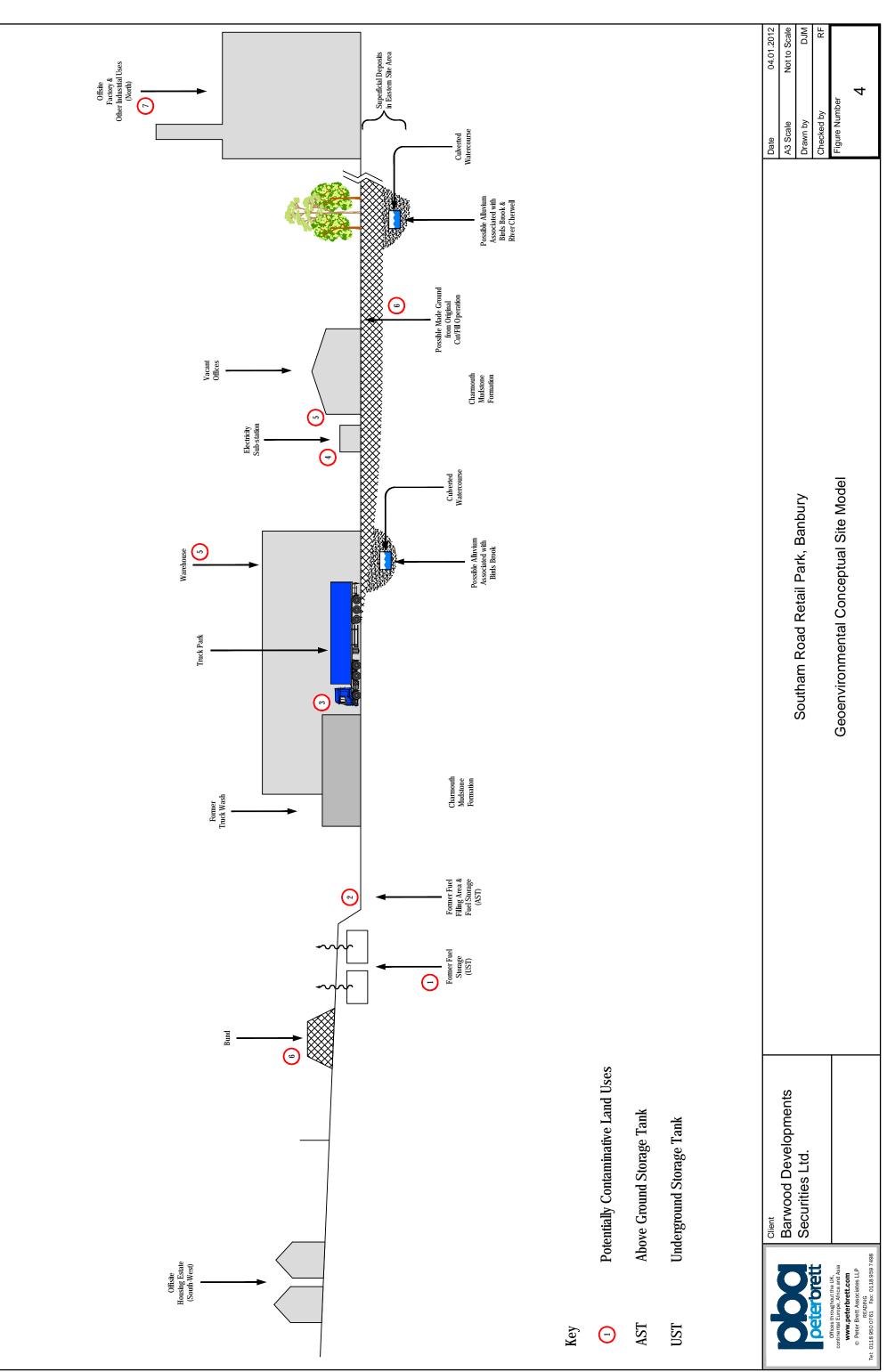
Site Location Plan

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FIGURE 1







user name: david maggs



Plate 1: View of Birds Brook discharge from culvert beneath warehouse building.



Plate 2: View across eastern site area towards vacant office building.



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Site Walkover Photographs

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Plates 1 & 2



Plate 3: View of truck wash with truck park and trailer park behind.



Plate 4: View of south west corner of warehouse unit. Location of former fuel filling station is in foreground on concrete apron.



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Site Walkover Photographs

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Plates 3 & 4



Plate 5: View of loading bay on south side of warehouse



Plate 6: Possible location of decommissioned underground fuel storage tanks.



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Plates 5 & 6



Plate 7: View of embankment on south west site boundary with Kraft car park beyond.



Plate 8: View of western flank of warehouse and access route.



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Plates 7 & 8



Plate 9: View of Birds Brook flowing along northern site boundary.



Plate 10: Internal view of warehouse (eastern section).



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Plates 9 & 10

Southam Road Retail Park, Banbury Ground Stability and Phase 1 Contaminated Land Desk Study

Appendix 1 PBA Methodology for Ground Assessment



Southam Road Retail Park, Banbury

Ground Stability and Phase 1 Contaminated Land Desk Study



1 Introduction

This document defines the approach adopted by PBA in relation to the assessment of potentially contaminated land. The aim is for the approach to (i) be systematic and objective, (ii) provide for the assessment of uncertainty and (iii) provide a rational, consistent, transparent framework.

When preparing our methodology we have made reference to various technical guidance documents including the Model Procedures for the Management of Contamination (CLR 11) (EA 2003), Contaminated Land investigation, assessment and remediation (ICE 2007), Guidance for the Safe Development of Housing on Land Affected by Contamination (R&D Publication 66) (EA/NHBC/CIEH 2008) and Contaminated land risk assessment: A guide to good practice (C552) (CIRIA 2001).

2 Part 2A, Planning & Building Control

UK legislation aims to help address the problem of historic contamination of land and the risks it can pose to people's health and the environment. The legislation allows for required remediation and voluntary remediation through the planning system.

2.1 Part 2 A

The Environment Act 1995 introduced Part IIA into the Environmental Protection Act 1990. Part IIA, its accompanying regulations and Statutory Guidance contained in DETR Circular 02/2000 came into force in England in April 2000.

Part IIA defines contaminated land as "land which appears to the Local Authority in whose area it is situated to be in such a condition that, by reason of substances in, on or under the land that significant harm is being caused, or there is a significant possibility that such harm could be caused, or pollution of controlled waters is being, or likely to be, caused".

Harm is defined as "harm to the health of living organisms or other interference with the ecological systems of which they form part, and in the case of man, includes harm to his property".

The legislation was extended in August 2006 to include radiological hazards (now referred to as Part 2A). For the purposes of Part 2A land is contaminated if it poses a significant possibility of significant harm (SPOSH). Statuary guidance is given in Defra Circular 01/2006. Non statutory guidance on the legal definition of contaminated

land is given in Defra 2008 and para 18 states "the law takes a risk-based approach because it is the only way in which it can, at least in principle, target land where there is SPOSH, whilst avoiding the disproportionate effects of catching land where there is no SPOSH. It also helps focus remediation on reducing risks, rather than the removal of contaminants from soil irrespective of risk (which would in some cases be unsustainable and unnecessary).

2.2 Planning

The Local Planning Authority (LPA) is responsible under various Planning Acts for the control of development, and in doing so, it has a duty to take account of all material considerations, including contamination. "Planning Policy Statement 23 Planning & Pollution Control (ODPM 2004): and Annex 2: Development on Land Affected by Contamination" expands on the considerations the Government expects Local Planning Authorities (LPA) to have in regard to land affected by contamination when preparing policies for development plans and in taking decisions on applications. This PPS applies in England only.

For planning purposes, PPS23 states that the assessment of risks arising from contamination and remediation requirements should be considered on the basis of the current environmental setting, the current land use, and the circumstances of its proposed new use. In most other respects, however, the underlying approach to identifying and dealing with risk, and the overall policy objective of safeguarding human health and the environment, are similar to that outlined in Part 2A.

A wider range of contamination and receptors is relevant to planning because of its wider spatial perspective, but the degree of harm or pollution relevant to planning and the approach to remediation are essentially the same: i.e. unacceptable risk in planning terms includes the risks addressed by Part 2A. The developer is required to ensure that land, after development, is not capable of being determined as contaminated land under Part IIA of the EPA 1990 and that all unacceptable risks have been addressed.

The principal planning objective is to ensure that any unacceptable risks to human health, buildings and other property and the natural and historical environment from the contaminated condition of the land are identified so that appropriate action can be considered and taken to address those risks. In order to grant a planning permission the Local Planning Authority (LPA) has to be satisfied that there is sufficient information about the

condition of the land, its impacts and the availability of viable remedial options.

It should be noted that PPS23 states because of the widespread potential occurrence of contamination, the possibility should always be considered, regardless of past land use, when development is proposed involving or introducing a particularly sensitive use (housing, schools, hospitals, play areas).

2.3 Building Control

The building control department of the local authority (along with the private sector approved inspectors) are responsible for the operation and enforcement of the Building Regulations 2000 to protect the health, safety and welfare of people in and around buildings.

Building Control Regulations Approved Document C specifically requires the protection of buildings and associated land from the effects of contamination, to be applied (non-exclusively) in all changes of use from commercial or industrial premises, to residential property.

3 Approach

PPS 23 refers to CLR 11 which recommends a phased or tiered approach to risk assessment with the three tiers being:-

- Tier 1 preliminary a qualitative assessment forming part of a Phase 1 report,
- Tier 2 generic a quantitative assessment using published criteria to screen site specific ground condition data forming part of a Phase 2 report
- Tier 3 detailed a quantitative assessment involving the generation of site specific assessment criteria

Each tier of risk assessment comprises the following four stages:-

- 1. Hazard Identification identifying potential contaminant sources on and off site;
- 2. Hazard Assessment assessing the potential for unacceptable risks by identifying what pathways and receptors could be present, and what pollutant linkages could result (forming the Conceptual Site Model (CSM)):
- Risk Estimation estimating the magnitude and probability of the possible consequences (what degree of harm might result to a defined receptor and how likely); and
- 4. Risk Evaluation evaluating whether the risk needs to be, and can be, managed.

A PBA Phase 1 report normally comprises a desk study, walkover and Tier 1 risk assessment (the project specific offer defines the actual scope of work). At Tier 1 the PBA approach to risk estimation involves identifying the magnitude of the potential consequence (taking into account both the potential severity of the hazard and the sensitivity of the receptor) and the magnitude of the likelihood i.e. the probability (taking into account the presence of the hazard and the receptor and the integrity of the pathway). This approach is promoted in current guidance such as R&D 66 (NHBC 2008).

The PBA approach is that if a pollution linkage is identified then it represents a potential risk which requires further consideration and either (1) remediation / direct risk management or (2) further tiers of assessment.

A PBA preliminary Phase 2 report comprises an intrusive investigation to collect site specific information, a Tier 2 quantitative generic risk assessment and a refinement of the CSM using the site specific data. Depending on the findings further investigation and/or progression to Tier 3 risk assessment and the generation of site specific assessment criteria may be required.

The PBA methodology provides an estimate of the level of risk, it does not identify a risk level at which the risk is considered "significant" and/or "unacceptable" as this is dependant on the view of the individual / stakeholder. For example; to a risk adverse stakeholder even a risk level of "very low" may be considered unacceptable and as such this stakeholder may require risk management options to be implemented.

4 Identification of Pollutant Linkages and Conceptual Site Model (CSM)

For all Tiers the underlying principle to ground condition assessment is the identification of pollutant linkages in order to evaluate whether the presence of a source of contamination could potentially lead to harmful consequences. A pollutant linkage consists of the following three elements:

- A source/hazard a substance or situation which has the potential to cause harm or pollution;
- A pathway a means by which the hazard moves along / generates exposure; and
- A receptor/target an entity which is vulnerable to the potential adverse effects of the hazard.

The Conceptual Site Model identifies the types and locations of potential contaminant sources/hazards and potential receptors and potential migration/transportation pathway(s). The

CSM is refined as the assessment progresses through the Tiers.

4.1 Hazard Identification

A hazard is a substance or situation that has the potential to cause harm. Hazards may be chemical, biological or physical (e.g. explosive gases).

At Tier 1 the potential for hazards to be present is determined from consideration of the previous or ongoing activities on or near to the site in accordance with the criteria presented in the **Table 1**.

Based on the land use information Potential Contaminants of Concern (PCOC) are identified. The PCOC direct the scope of the analytical testing selected for subsequent Tiers and the collection of site specific data.

At Tier 2 the site specific data is screened using published assessment criteria (refer to PBA document entitled Rationale for the Selection of Tier 2 Assessment Criteria). In general, published criteria have been developed using highly conservative assumptions and therefore if the criterion is not exceeded then the PCOC is eliminated as a potential Hazard. It should be noted that exceedance does not necessarily indicate that a site is contaminated and/or unsuitable for use only that the PCOC is retained as a potential Hazard. Published criteria are generated using models based on numerous and complex assumptions. The appropriateness of these assumptions in a site-specific context requires confirmation on a project by project basis.

4.2 Receptor and Pathway Identification

For all Tiers the potential receptors (for both on site and adjoining land) that will be considered are:

- Human Health including current and future occupiers, construction and future maintenance workers, and neighbouring properties/third parties;
- Ecological systems; *1
- Controlled waters *2 including surface water and groundwater;
- Property, Animal or Crop (existing or proposed) - including buildings, service lines and pipes, crops, livestock, pets, woodland; and
- Archaeological sites and ancient monuments.

*1 Internationally or nationally designated sites (as defined in the statutory guidance (Draft Circular on Contaminated Land, DETR, 2000)) "in the local area" will be identified as potential ecological receptors. A search radius of 1, 2 or 5km will be utilised depending on the site specific circumstances (see also pathway identification). The Environment Agency has published an ecological risk assessment framework (EA 2008) which promotes (as opposed to statutorily enforces)

consideration of additional receptors to include locally protected sites and protected or notable species. These additional potential receptors will only be considered if a Phase 1 habitat survey, undertaken in accordance with guidance (JNCC 1993), is commissioned and the data provided to PBA. It should be noted that without such a survey the Tier 1 risk assessment may conclude that the identification of potential ecological receptors is inconclusive (see Specification).

*² the definition of "pollution of controlled water" has been amended by the introduction of Section 86 of the Water Act 2003. For the purposes of Part 2A groundwater does not include waters above the saturated zone and our assessment does not therefore address perched water other than where development causes a pathway to develop.

If a receptor is taken forward for further assessment it will be classified in terms of its sensitivity, the criteria for which are presented in **Table 2**. Table 2 has been generated using descriptions of environmental receptor importance/value given in various guidance documents including R&D 66 (NHBC 2008) and Transport Analysis Guidance (based on DETR 2000). Human health and buildings classifications have been generated by PBA using the attribute description for each class.

The exposure pathway and modes of transport that will be considered are presented in **Table 3**.

4.3 Note regarding Ecological Systems

The Environment Agency (EA) has developed an ecological risk assessment framework which aims to provide a structured approach for assessing the risks to ecology from chemical contaminants in soils (EA 2008). In circumstances where contaminants in water represent a potential risk to aquatic ecosystems then risk assessors will need to consider this separately.

The framework consists of a three tiered process:-

- Tier 1 is a screening step where the site soils chemical data is compared to a soil screening value (SSV)
- Tier 2 uses various tools (including surveys and biological testing) to gather evidence for any harm to the ecological receptors
- Tier 3 seeks to attribute the harm to the chemical contamination

Tier 1 is preceded by a desk study to collate information about the site and the nature of the contamination to assess whether pollutant linkages are feasible. The framework presents ten steps for ecological desk studies and development of a conceptual site model as follows.

- 1 Establish Regulatory Context
- 2 Collate and Assess Documentary Information
- 3 Summarise Documentary Information
- 4 Identify Potential Contaminants of Concern

5 Identify Likely Fate Transport of Contaminants

6 Identify Potential Receptors of Concern

7 Identify Potential Pathways of Concern

8 Create a Conceptual Site Model

9 Identify Assessment and Measurement **Endpoints**

10 Identify Gaps and Uncertainties

The information in a standard PBA Phase 1 report covers Steps 1 to 4 inclusive. Step 5 considers fate and transport of contaminants and it should be noted that our standard report adopts a simplified approach considering only transport mechanisms. A simplified approach has also been adopted in respect of Steps 6 and 7 (receptors (a detailed review of the ecological attributes has not been undertaken) and pathways (a food chain assessment has not been undertaken). Step 9 is outside the scope of our standard Phase 1 report.

The Tier 1 prepared by PBA as part of a Phase 1 report will assess the viability of the mode of transport given the site specific circumstances not specific pathways. As with receptor identification it should be noted that without a habitat survey the Tier 1 risk assessment may conclude that the risk to potential ecological receptors is inconclusive (see PBA Specification for Phase 1 Assessment of Potentially Contaminated Land).

5 Risk Estimation

Risk estimation classifies what degree of harm might result to a receptor (defined as consequence) and how likely it is that such harm might arise (probability).

At Tier 1 the consequence classification is generated by multiplying the hazard classification score and the receptor sensitivity score. This approach follows that presented in the republished R&D 66 (NHBC 2008).

The criteria for classifying probability are set out in Table 4 and have been taken directly from CIRIA C552 (Table 6.4). Probability considers the integrity of the exposure pathway.

The consequence classifications detailed in **Table** 5 have been adapted from Table 6.3 presented in C552 and R&D 66 (Annex 4 Table A4.3).

The Tier 1 risk classification is estimated for each pollutant linkage using the matrix given in Table 6 which is taken directly from C552 (Table 6.5).

Subsequent Tiers refine the CSM through retention or elimination of potential hazards and pollutant linkages.

6 Risk Evaluation

In order to put the Tier 1 risk classification into context the likely actions are described in Table 7 which is taken directly from C552 (Table 6.6).

Subsequent Tiers identify potential management options through remediation and/or mitigation measures.

7 References

CIRIA 2001: Contaminated land risk assessment a guide to good practice C552.

CIRIA 2008: Assessing risks posed by hazardous ground gases to buildings C655

DETR 2000 Methodology for Multi Modal Studies. Volume 2 Section 4 The Environmental Objective.

Defra Circular 02/2000

Defra Circular 01/2006

EA 2004: The Model Procedures for the Management of Land Contamination CRL 11 published by the Environment Agency (EA).

EA/NHBC/CIEH 2008: R&D Publication 66 Guidance for the safe development of housing on land affected by contamination.

EA 2008 Ecological Risk Assessment Science Report Series SC070009 published by the Environment Agency (EA).

ICE 2007: Contaminated Land investigation, assessment and remediation prepared by the Institute of Civil Engineers (ICE)

JNCC 1993 Handbook for Phase 1 Habitat Survey A Technique for Environmental Audit prepared by the Joint Nature Conservancy Council (JNCC)

ODPM 2004: Planning Policy Statement 23 (PPS 23):Planning and Pollution Control.

ODPM 2004 Building Regulations 2000 Approved Document C Site preparation and resistance to contaminants and moisture

Table 1: Criteria for Classifying Hazards / Potential for Generating Contamination

Classification/Score	Potential for generating contamination/gas based on land use
Very Low	Land Use: greenfield
	Contamination: None.
1	Gas generation potential : Inert Made Ground
Low	Land Use: residential, retail or office use, recent small scale industrial.
	Contamination: None or locally slightly elevated concentrations.
2	Gas generation potential: Alluvium or dock silt
Moderate	Land Use: railways, collieries, scrap yards, light industry, engineering works.
	Contamination: Locally elevated concentrations.
3	Gas generation potential : Pre 1960's landfill
High	Land Use: gas works, chemical works, heavy industry, non-hazardous landfills.
	Contamination: Possible widespread elevated concentrations.
4	Gas generation potential : Shallow mine workings
Very High	Land Use: hazardous waste landfills.
	Contamination: Likely widespread elevated concentrations.
5	Gas generation potential: Domestic landfill post 1960

Table 2: Criteria for Classifying Receptor Sensitivity/Value			
Classification/Score	Definition		
Very Low	Receptor of limited importance		
	Groundwater: Non aquifer		
1	Surface water: GQA Grade F		
	Ecology: No local designation		
	Buildings: Replaceable		
	Human health: Unoccupied/limited access		
Low	Receptor of local or county importance with potential for replacement		
	Groundwater: Secondary aquifer		
2	Surface water: GQA Grade D/E		
	Ecology: local habitat resources		
	Buildings: Local value		
	Human health: Industrial		
Moderate	Receptor of local or county importance with potential for replacement		
	Groundwater: Principal aquifer		
3	Surface water: GQA Grade B/C		
	Ecology: County wildlife sites, Areas of Outstanding Natural Beauty (AONB)		
	Buildings: Area of Historic Character		
	Human health: Commercial		
High	Receptor of county or regional importance with limited potential for replacement		
	Groundwater: Source Protection Zone 2		
4	Surface water: GQA Grade A		
	Ecology: SSSI, National or Marine Nature Reserve (NNR or MNR)		
	Buildings: Conservation Area		
	Human health: Open spaces and uses where children are present		
Very High	Receptor of national or international importance		
	Groundwater: Source Protection Zone 1		
5	Surface water: GQA Grade A		
	Ecology: Special Areas of Conservation (SAC and candidates), Special Protection		
	Areas (SPA and potentials) or wetlands of international importance (RAMSAR)		
	Buildings: World Heritage site		
	Human health: Residential		

Table 3: Exposure Pathway and Modes of Transport

Receptor	Pathway	Mode of transport	
Human health	Ingestion	Fruit or vegetable leaf or roots	
		Contaminated water	
		Soil/dust indoors	
		Soil/dust outdoors	
	Inhalation	Particles (dust / soil) – outdoor	
		Particles (dust / soil) - indoor	
		Vapours – outdoor - migration via natural or anthropogenic pathways	
		Vapours - indoor - migration via natural or anthropogenic pathways	
	Dermal absorption	Direct contact with soil	
		Direct contact with waters (swimming / showering)	
		Irradiation	
Groundwater	Leaching	Gravity / permeation	
	Migration	Natural – groundwater as pathway	
		Anthropogenic (e.g. boreholes, culverts, pipelines etc.)	
Surface Water	face Water Direct Runoff or discharges from pipes		
	Indirect	Recharge from groundwater	
	Indirect	Deposition of wind blown dust	
Buildings	Direct contact	Sulphate attack on concrete, hydrocarbon corrosion of plastics	
	Gas ingress	Migration via natural or anthropogenic paths	
Ecological systems	See Notes	Runoff/discharge to surface water body	
	See Notes	Windblown dust	
	See Notes	Groundwater migration	
	See Notes	At point of contaminant source	
Animal and crop	Direct	Wind blown or flood deposited particles / dust / sediments	
	Indirect	Plants via root up take or irrigation. Animals through watering	
	manoot	· · · · · · · · · · · · · · · · · · ·	
	Inhalation	By livestock / fish - gas / vapour / particulates / dust	

Table 4: Classification of Probability

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

Table 6: Classification of Risk (Combination of Consequence and Probability)

	Consequence			
Probability	Severe	Medium	Mild	Minor
High likelihood	Very high	High	Moderate	Low
Likely	High	Moderate	Moderate/low	Low
Low likelihood	Moderate	Moderate/low	Low	Very low
Unlikely	Moderate/low	Low	Very low	Very low

Table 5: Classification of Consequence (score = magnitude of hazard and sensitivity of receptor)

Classification / Score	Examples		
Severe	Human health effect - exposure likely to result in "significant harm". Significant harm to humans is defined in circular 01/2006 as death, disease, serious injury, genetic mutation, birth defects or impairment of reproductive function.		
20-25	Controlled water effect - short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Equivalent to EA Category 1 incident (persistent and/or extensive effects on water quality leading to closure of potable abstraction point or loss of amenity, agriculture or commercial value. Major fish kill.		
	Ecological effect - short-term exposure likely to result in a substantial adverse effect.		
	Catastrophic damage to crops, buildings or property		
Medium	Human health effect - exposure could result in "significant harm". Significant harm to humans is defined in circular 01/2006 as death, disease, serious injury, genetic mutation, birth defects or impairment of reproductive function.		
10-16	Controlled water effect - equivalent to EA Category 2 incident requiring notification of abstractor		
	Ecological effect - short-term exposure may result in a substantial adverse effect.		
	Damage to crops, buildings or property		
Mild	Human health effect - exposure may result in "significant harm". Significant harm to humans is defined in circular 01/2006 as death, disease, serious injury, genetic mutation, birth defects or impairment of reproductive function.		
6-9	Controlled water effect - equivalent to EA Category 3 incident (short lived and/or minimal effects on water quality).		
	Ecological effect - unlikely to result in a substantial adverse effect.		
	Minor damage to crops, buildings or property. Damage to building rendering it unsafe to occupy (for example foundation damage resulting in instability).		
Minor	No measurable effect on humans. Protective equipment is not required during site works.		
1-5	Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems.		
. •	Repairable effects to crops, buildings or property. The loss of plants in a landscaping scheme. Discolouration of concrete.		

Table 7: Description of Risks and Likely Action Required

Risk Classification	Description
Very high risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard, OR, there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation is likely to be required in the short term.
High risk	Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability.
	Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate risk	It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild.
	Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer-term.
Low risk	It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very low risk	There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

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Appendix 2 Historic Ordnance Survey Map Extracts

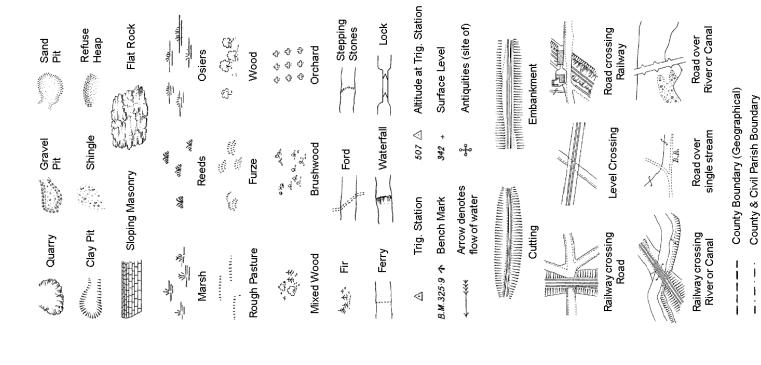


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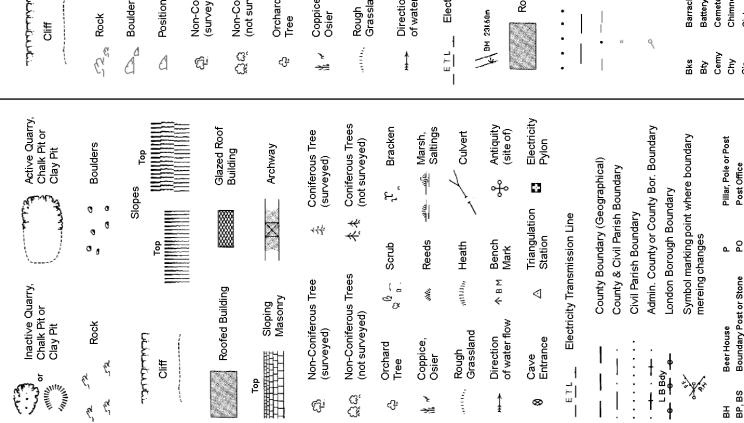
Series and Ordnance Survey Plan 1:2,500 **Ordnance Survey County**



Supply of Unpublished Survey Information

Historical Mapping Legends

Ordnance Survey Plan, Additional SIMs and | Large-Scale National Grid Data 1:2,500 and 1:2,500 and 1:1,250



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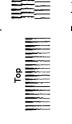
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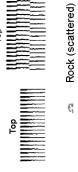
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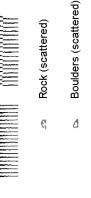








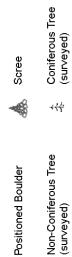


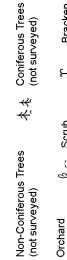




Rock

Boulders







Marsh, Saltings

Culvert

Bracken

Scrub

Tree



Antiquity (site of)

ઌ૾ૺ



Electricity Pylon

 \boxtimes

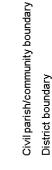


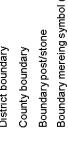
Buildings with Building Seed



Glazed Roof Building









(iii)	comore a	,	•
Chy	Chimney	윤	п.
Cis	Cistern	Ppg Sta	п
Dismtd Rly	Dismantled Railway	ΡW	ш.
El Gen Sta	Electricity Generating Station	Sewage Ppg	bg
EIP	Electricity Pole, Pillar	SB, S Br	0)
El Sub Sta	El Sub Sta Electricity Sub Station	SP, SL	٠,
85	Filter Bed	Spr	0)
Fn / D Fn	Fountain / Drinking Ftn.	¥	_
Gas Gov	Gas Valve Compound	Ė	_

Signal Box or Bridge

SB, S Br

Electricity Pillar or Post

Drinking Fountain Fire Alarm Pillar

D Fn

SP, SL

Signal Post or Light

Public Convenience

Post Office

Boundary Post or Stone

Beer House

Capstan, Crane

S C

Administrative County & Civil Parish Boundary

+ · + · + · +

County Borough Boundary (England) County Burgh Boundary (Scotland)

Public House

Pillar, F Post O Public Pump a Pumpii Place e Ppg Sta signal Signal Spring Tanko	Pillar, F Post O Public Pump a Pumpii Place e Ppg Sta Signal Signal Spring Tank o Trough	Pillar, Pole or Post Post Office Public Convenience Pump g Sta Pumping Station // Place of Worship wage Ppg Sta Sewage Pumping Station , S Br Signal Box or Bridge , SL Signal Post or Light r Spring Tank or Track Trough IPP Wind Pump Pt, WrT Water Point, Water Tap Pt, WrT Water Point, S	County boundary Soundary post/stone Soundary mereing sy	ne symb	County boundary Soundary post/stone Soundary mereing symbol (note: these
PO Post O PO Post O PC Public PP Pupp Sta Pumpli PW Place O Sewage Ppg Sta Signal SP, SL Signal Spr Spring Tk Tank o Tr Trougt	PO Post O PC Public PP Puppl Puppl PPg Sta Pumpl PPg Sta Pumpl PW Place Sewage Ppg Sta SR, SB Signal SP, SL Signal SP, SL Signal Tr Tank o Tr Trough Wd Pp Wind F	P PO PC PC PPG PPG PPG PPG PPG PPG PPG PPG P	always appear of three)	in oppose	d pairs or group
PC Public Pp Pump Ppg Sta Pumpii PW Place Sewage Ppg Sta SB, SB Signal SP, SL Signal Spr Spring Tk Tanko Tr Trough	PC Public Pp Pump Ppg Sta Pumpii PW Place Sewage Ppg Sta SB, SB Signal SP, SL Signal Spr Spring Tr Tank o Tr Trough Wd Pp Wind F	PO PC Pp Ppg Sta PW Sewage Ppg SB, SBr SP, SL Spr Tr Tr Tr Tr Wd Pp Wr Pt, Wr T		۵	Pillar, Pole or Post
PC Public Pp Pump Ppg Sta Pumpii PW Place of Sewage Ppg Sta The Tank of The Tank of The Tank of The The Tank of The	PC Public Pp Pump Ppg Sta Pumpii PW Place of Sewage Ppg Sta Sewage Ppg Sta SB, S Br Signal SP, SL Signal Spr Spring Tr Tank o Tr Trough Wd Pp Wind F	PC Pp Ppg Sta PW Sewage Ppg SB, S Br SP, SL Spr Tr Tr Tr Tr Wd Pp Wr Pt, Wr T		8	Post Office
Pp Pump Ppg Sta Pumpi PW Place Sewage Ppg Sta SB, S Br Signal SP, SL Signal Spr Spring Tk Tank o Tr Trough	Pp Pump Ppg Sta Pumpi PW Place Sewage Ppg Sta SB, SBr Signal SP, SL Signal Spr Spring Tr Tank o Tr Trangl Wd Pp Wind F	Pp Ppg Sta PW Sewage Ppg SB, SBr SP, SL Spr Tr Tr Tr Tr Wd Pp Wr Pt, Wr T		PC	Public Convenience
Ppg Sta Pumpi PW Place Sewage Ppg Sta SB, SBr Signal SP, SL Signal Spr Spring Tk Tank o Tr Trough	Ppg Sta Pumpi PW Place Sewage Ppg Sta SB, SBr Signal SP, SL Signal Spr Spring Tr Tank o Tr Trougl Wd Pp Wind F	Ppg Sta PW Sewage Ppc SB, S Br SP, SL Spr Tr Tr Tr Wd Pp Wr Pt, Wr T		د	Pump
PW Places Sewage Ppg Sta SB, SB Signal SP, SL Signal Spr Spring TK Tank o Tr Trough	PW Placed Sewage Ppg Sta SB, SBr Signal SP, SL Signal Spr Spring Tr Tanko Tr Trougl Wd Pp Wind F Wr Pt, Wr T Water I	PW Sewage Ppc SB, S Br SP, SL Spr Tr Tr Tr Wd Pp Wr Pt, Wr T		Ppg Sta	Pumping Station
Sewage Ppg Sta SB, S Br Signal SP, SL Signal Spr Spring Tr Tank o Tr Trough	Sewage Ppg Sta SB, S Br Signal SP, SL Signal Spr Spring Tr Tank o Tr Trougl Wd Pp Wind F	Sewage Ppc SB, S Br SP, SL Spr Tr Tr Wd Pp Wr Pt, Wr T	ed Railway	ΡW	Place of Worship
SB, SB, SP, SL, Spr, SL, T, T, T, Wd Pp		SB, S Br SP, SL Spr Tr Tr Wd Pp Wr Pt, Wr T	/ Generating	Sewage P	og Sta Sewage Pumping Station
SP, SL Spr TK Wd Pp		SP, SL Spr Tr Wd Pp Wr Pt, Wr T		SB, S Br	Signal Box or Bridge
Spr * + + Wd Pp		Spr Tk Tr Wd Pp Wr Pt, Wr T		SP, SL	Signal Post or Light
T, T. Wd Pp		Tk Tr Wd Pp Wr Pt, Wr T		Spr	Spring
	Tr Trough Wd Pp Wind Pump Wr Pt, Wr T Water Point, Water Tap	r t, Wr⊤	نے	¥	Tank or Track
	Wd Pp Wind Pump Wr Pt, Wr T Water Point, Water Tap	r t, WrT		Ė	Trough
	Wr Pt, Wr T Water Point, Water Tap	t, WrT		Wd Pp	Wind Pump

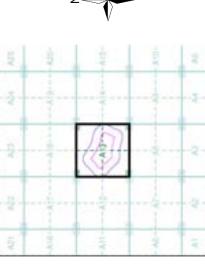




Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Oxfordshire	1:2,500	1882 - 1885	7
Northamptonshire	1:2,500	1885	3
Northamptonshire	1:2,500	1900	4
Oxfordshire	1:2,500	1900	2
Northamptonshire	1:2,500	1922	9
Oxfordshire	1:2,500	1922	7
Ordnance Survey Plan	1:1,250	1965 - 1973	∞
Ordnance Survey Plan	1:1,250	1970 - 1979	6
Additional SIMs	1:1,250	1978 - 1988	9
Additional SIMs	1:1,250	1990	11
Ordnance Survey Plan	1:1,250	1991	12
Large-Scale National Grid Data	1:1,250	1993	13
Large-Scale National Grid Data	1:1,250	1994	4
Large-Scale National Grid Data	1:1,250	1995	15

Historical Map - Segment A13



der Details

er Number: 36978294_1_1 tomer Ref: 26004/006 onal Grid Reference: 445130, 241450

Area (Ha): arch Buffer (m):

e Details itham Road Retail, Southam Road, BANBURY, Oxfordshire



Gas Governe

GVC

Guide Post

G

Water Point, Water Tap

Wr Pt, WrT

Trough

Wind Pump

Wd Pp

Mile Post or Mooring Post Mile Stone Normal Tidal Limit

Telephone Call Box Telephone Call Post

Hydrant or Hydraulic

Foot Bridge

皅 P

Police Call Box

BP BS Boundary Post or Stone

Co. Burgh Bdy. Co. Boro. Bdy.

Bridle Road

B.R.

Signal Post

S.P

Electricity Pylon

Foot Bridge

Foot Path

FAP

Guide Post

Level Crossing

Manhole

A M M E

Telephone Call Box

Spring Sluice

SLSp.T.C.B

Trough

M.P.M.R. Mooring Post or Ring

Mile Stone

Guide Post or Board

G.P

Tank or Track

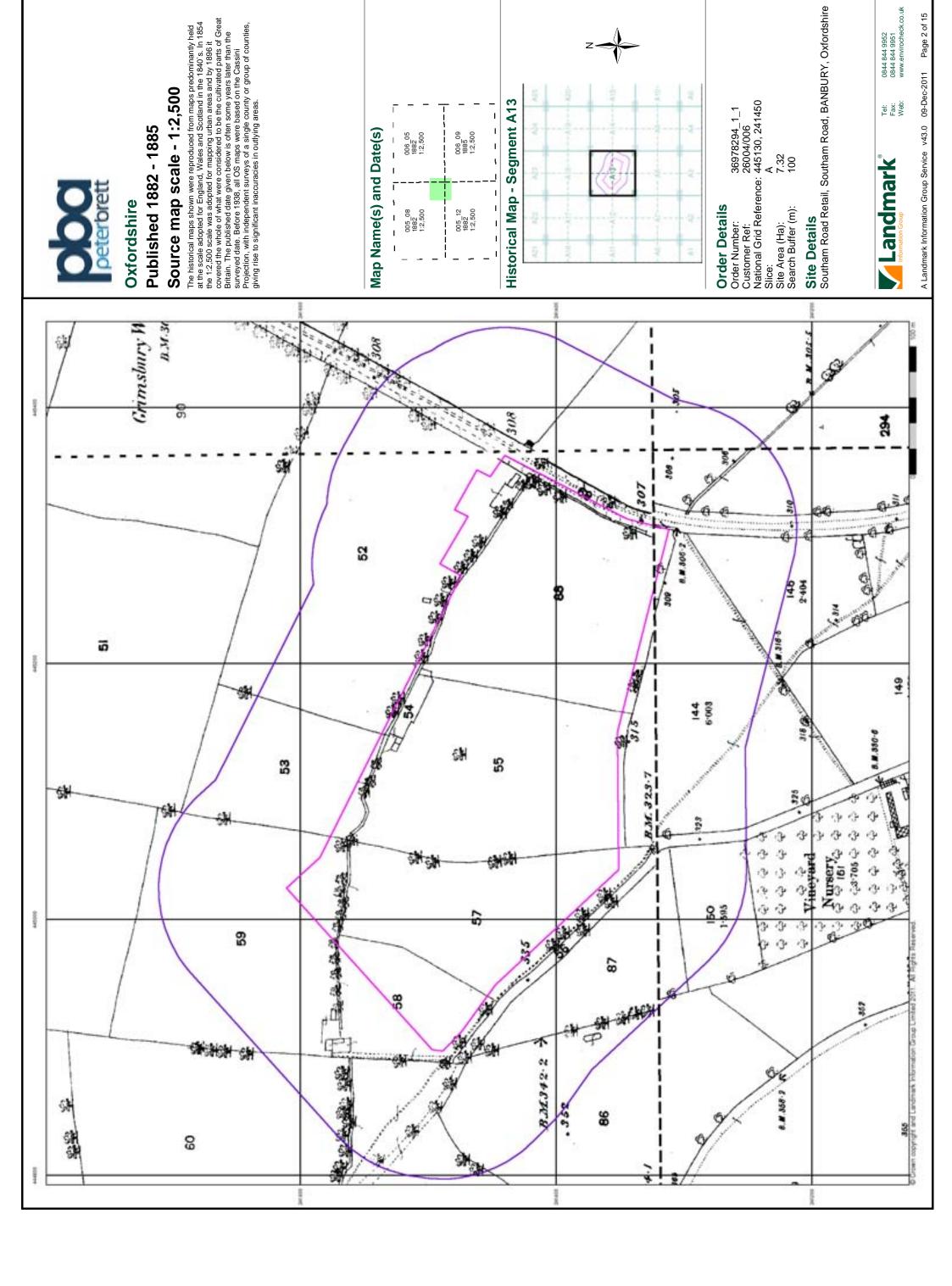
Manhole

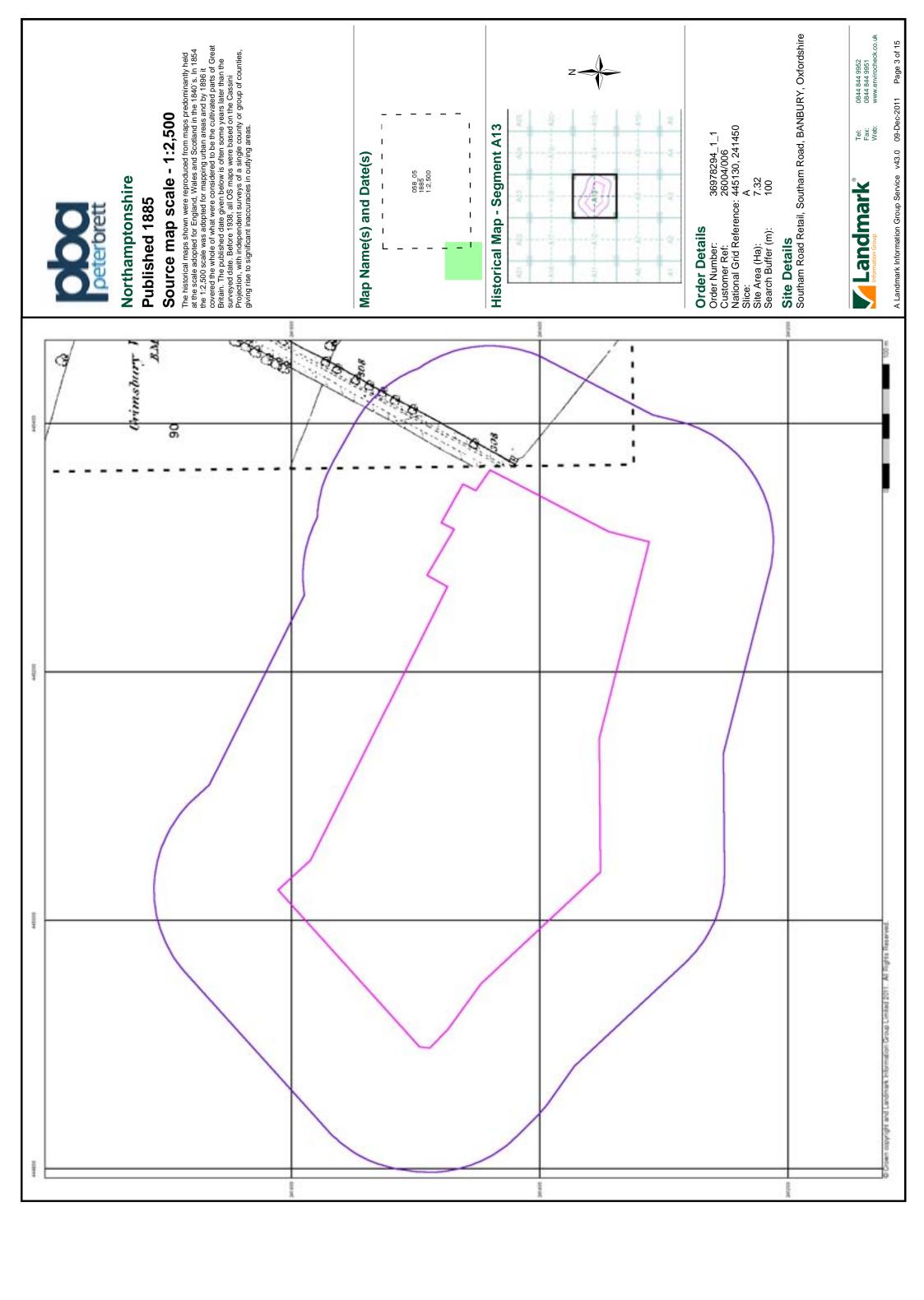
MH, MS

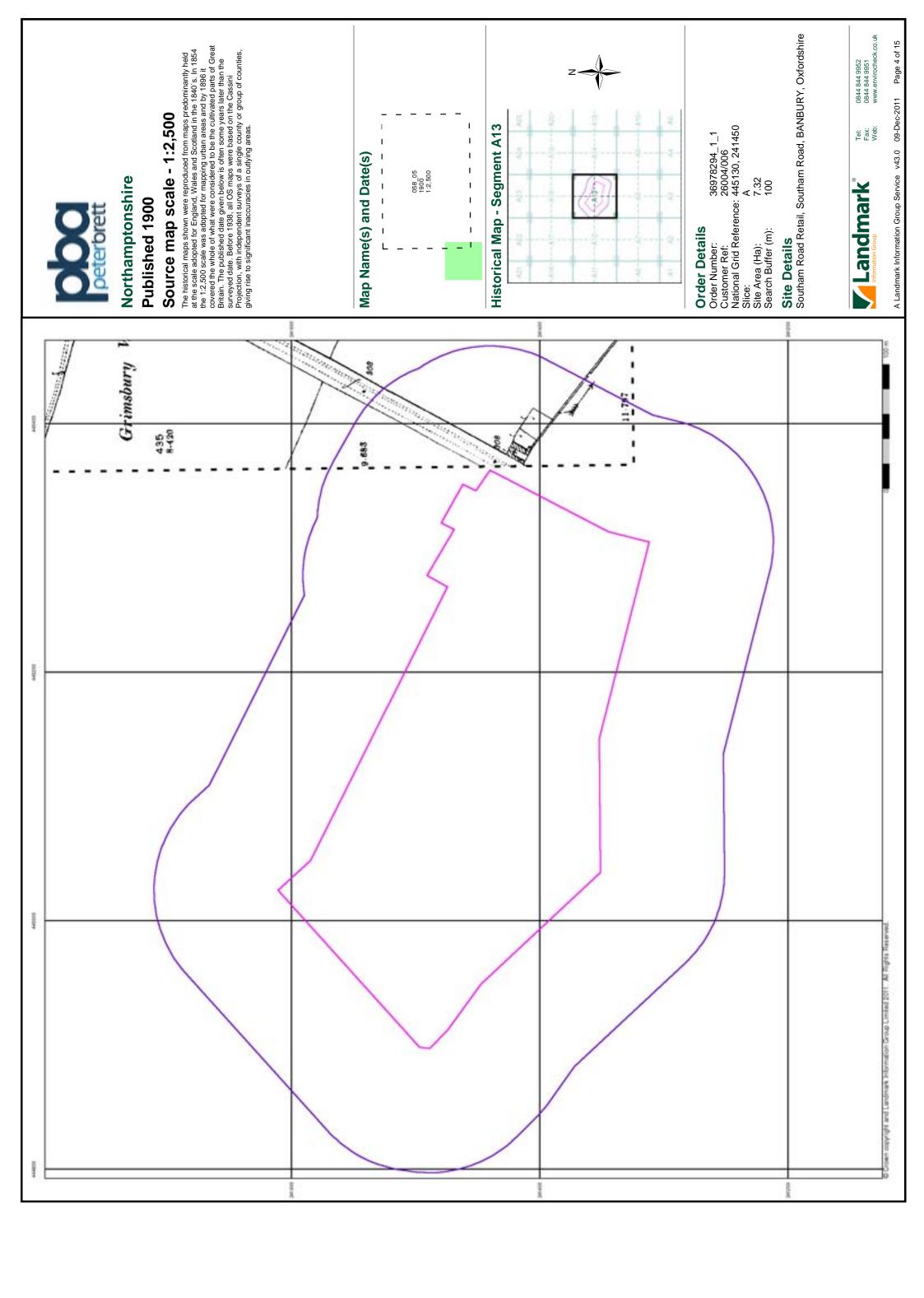
Mile Post or

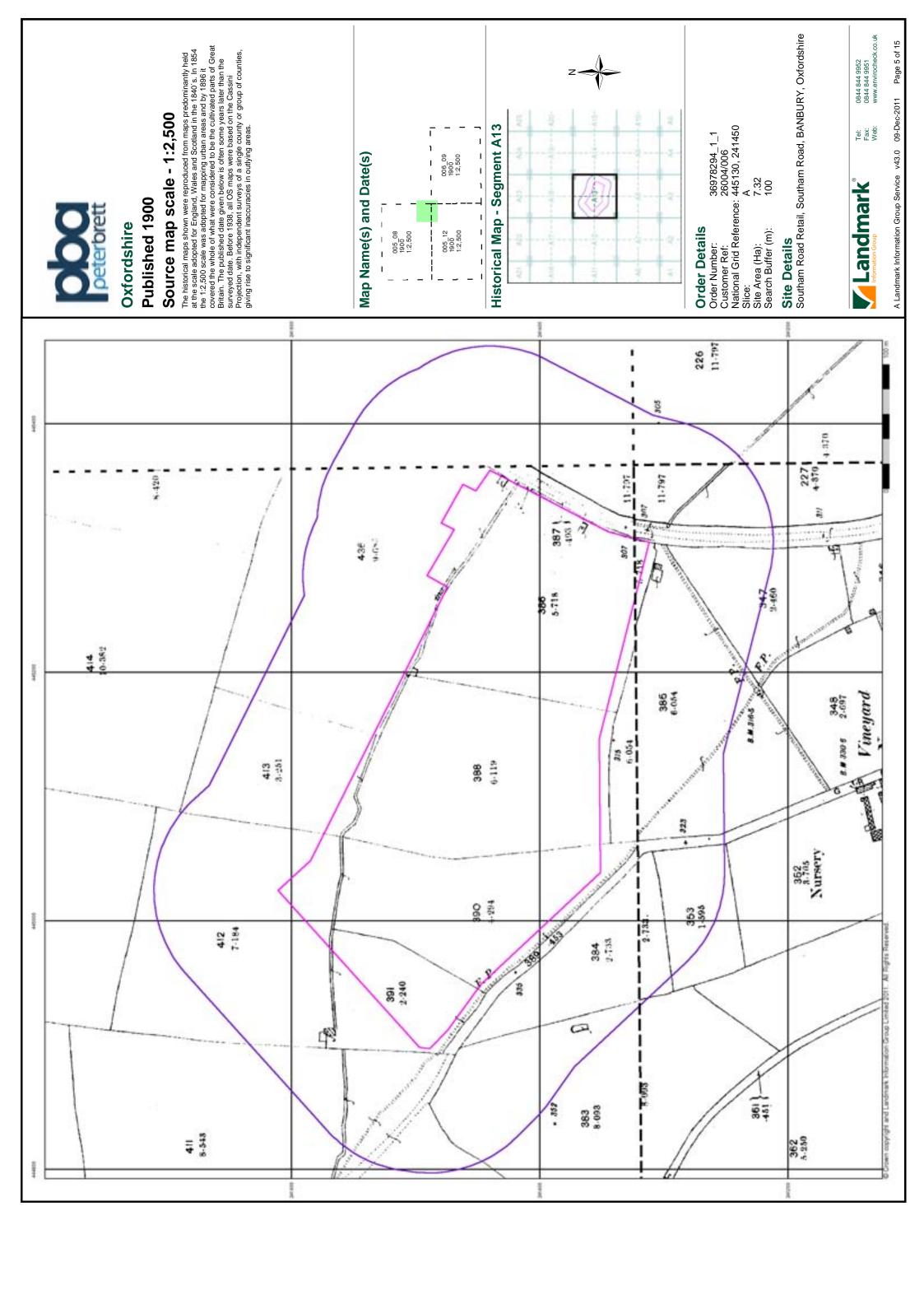
0844 844 9952 0844 844 9951 www.envirocheck.co.uk Tel: Fax: Web:

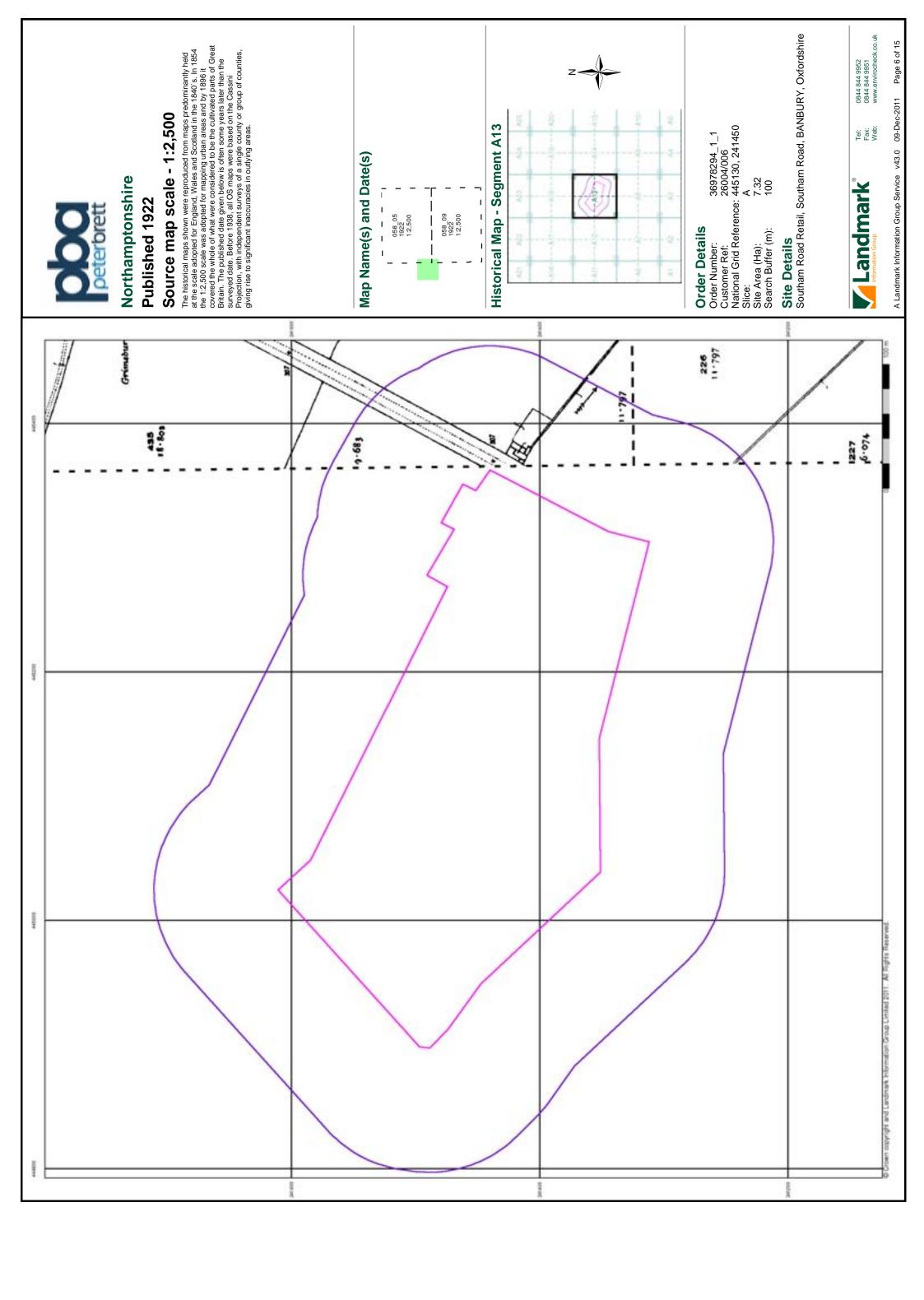
Page 1 of 15 A Landmark Information Group Service v43.0 09-Dec-2011

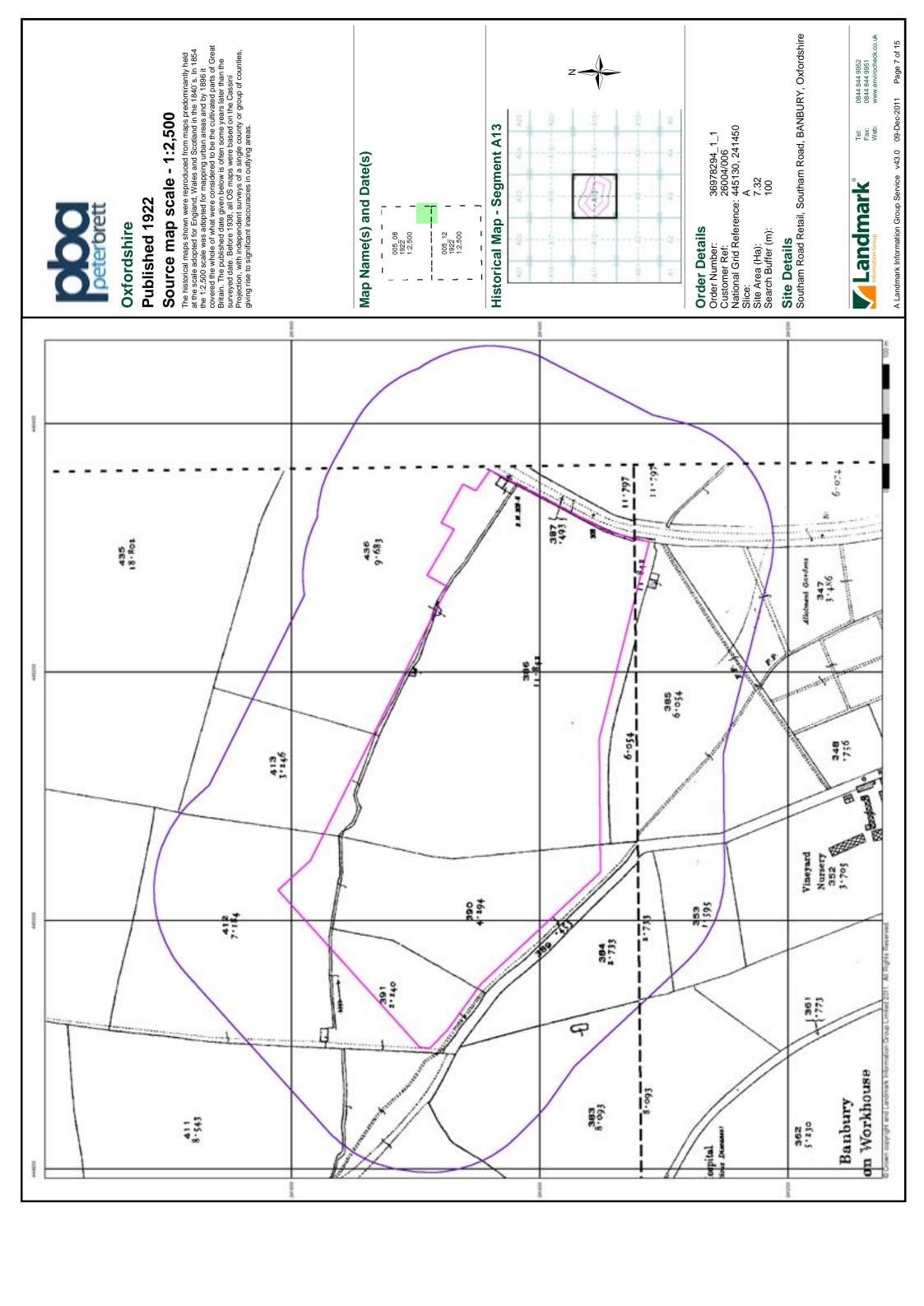


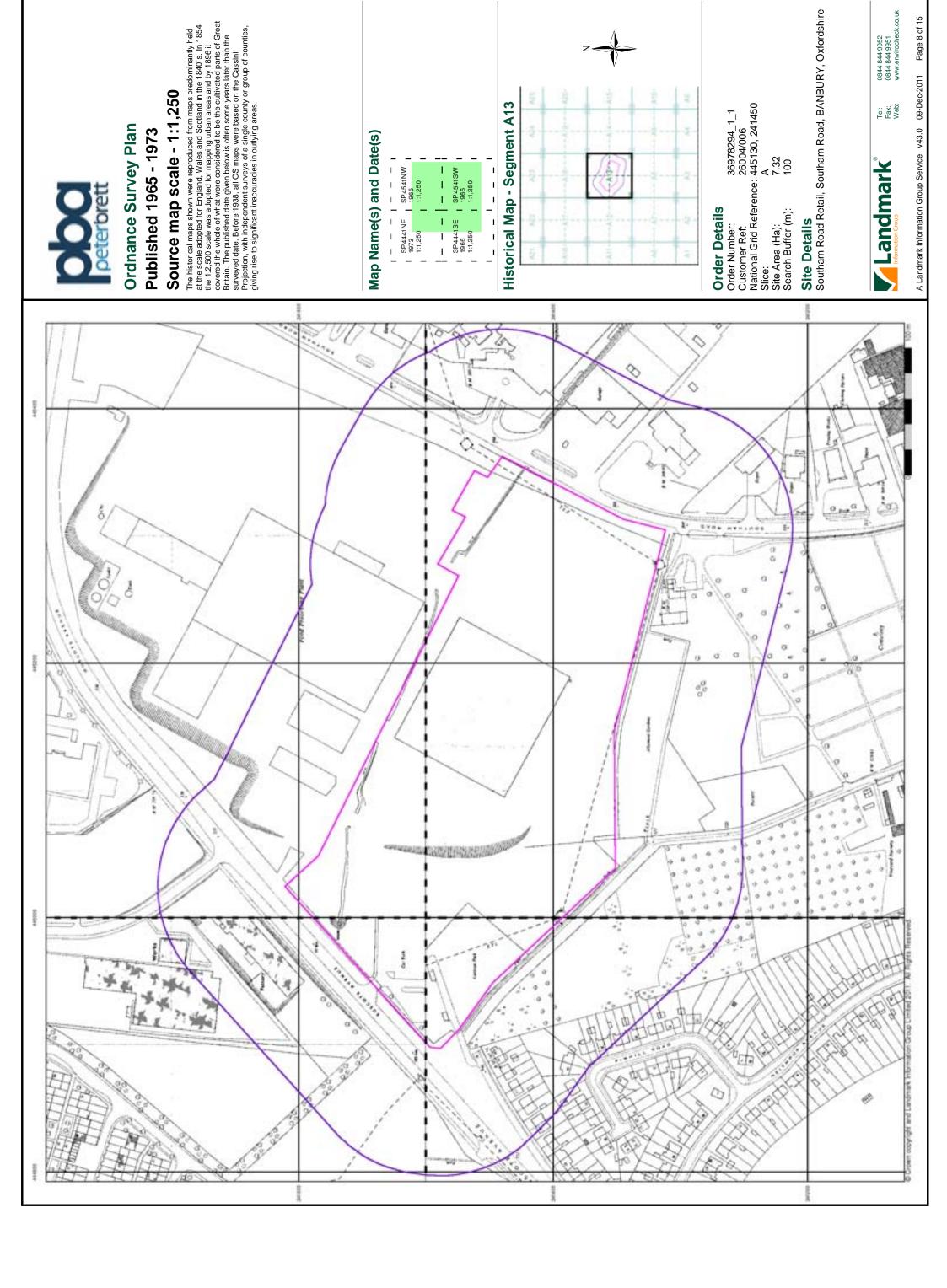


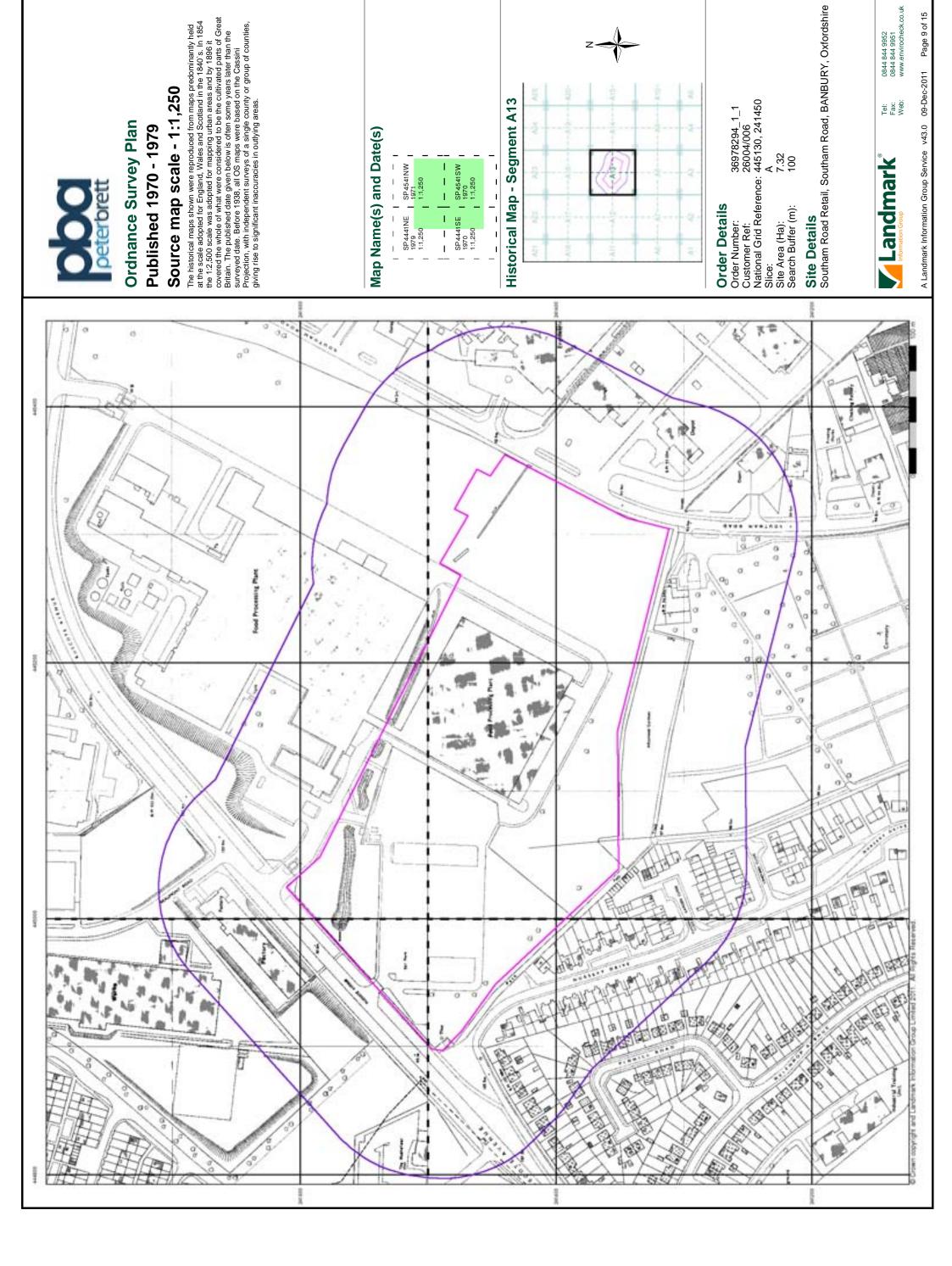




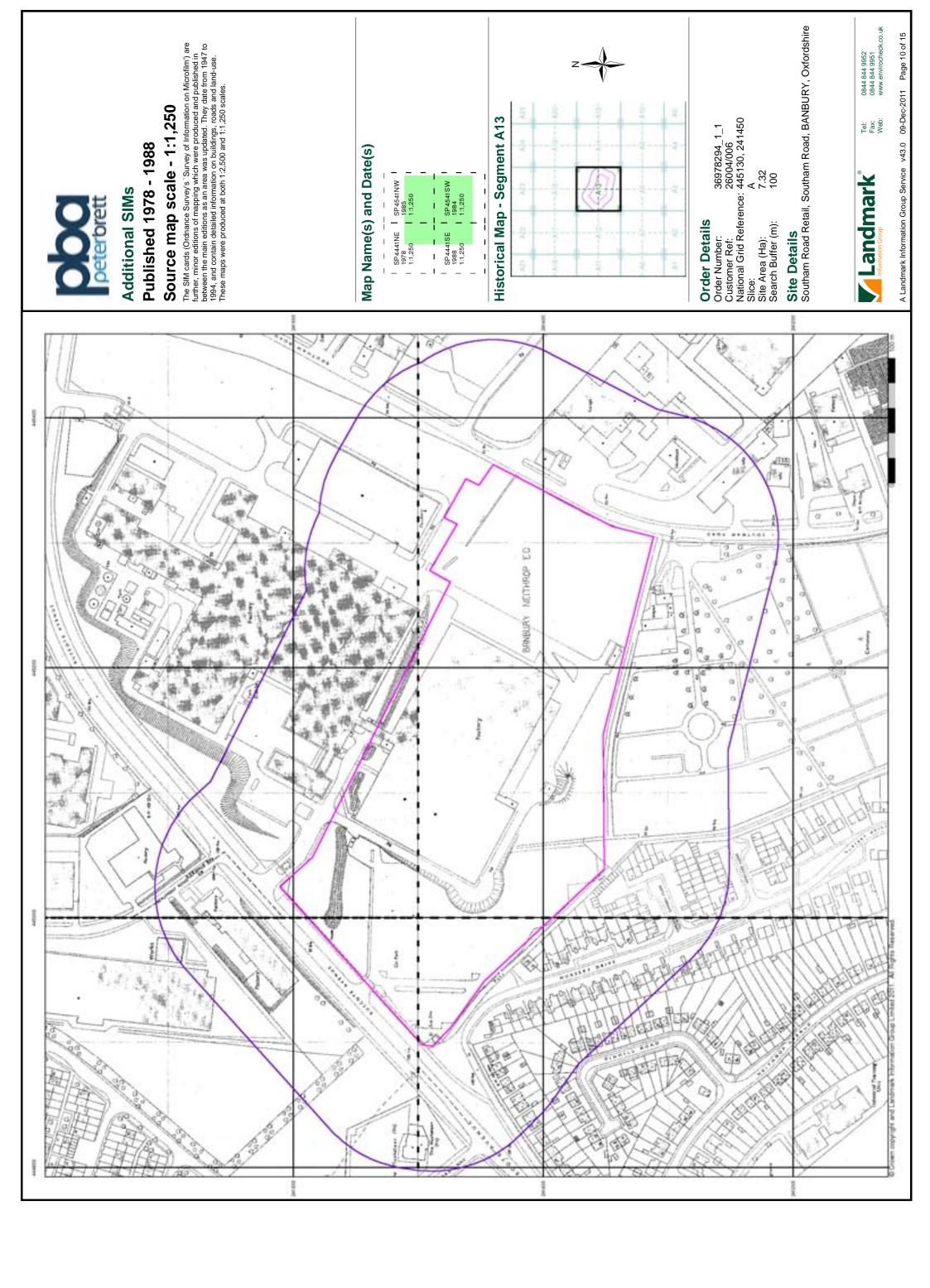


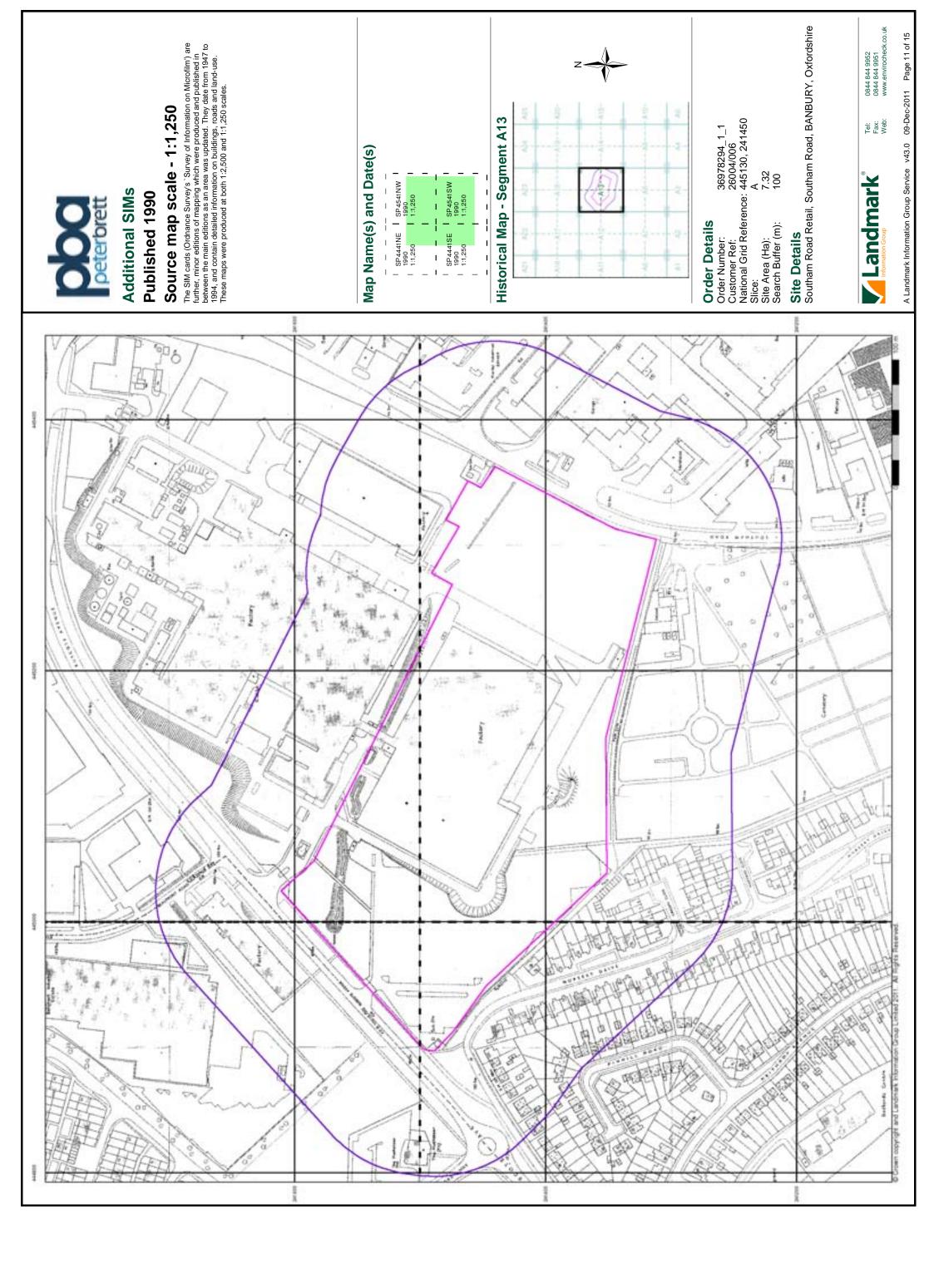


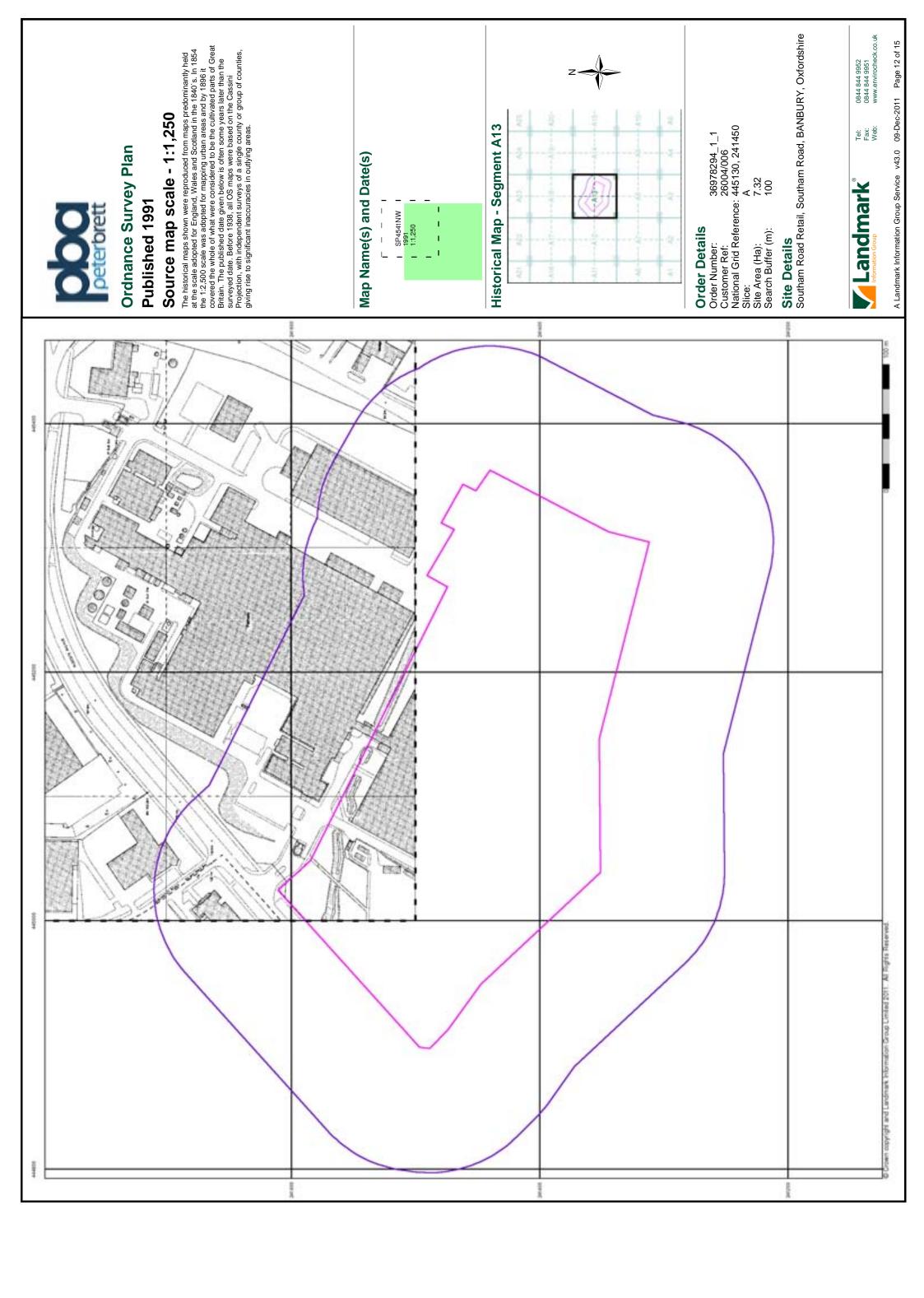


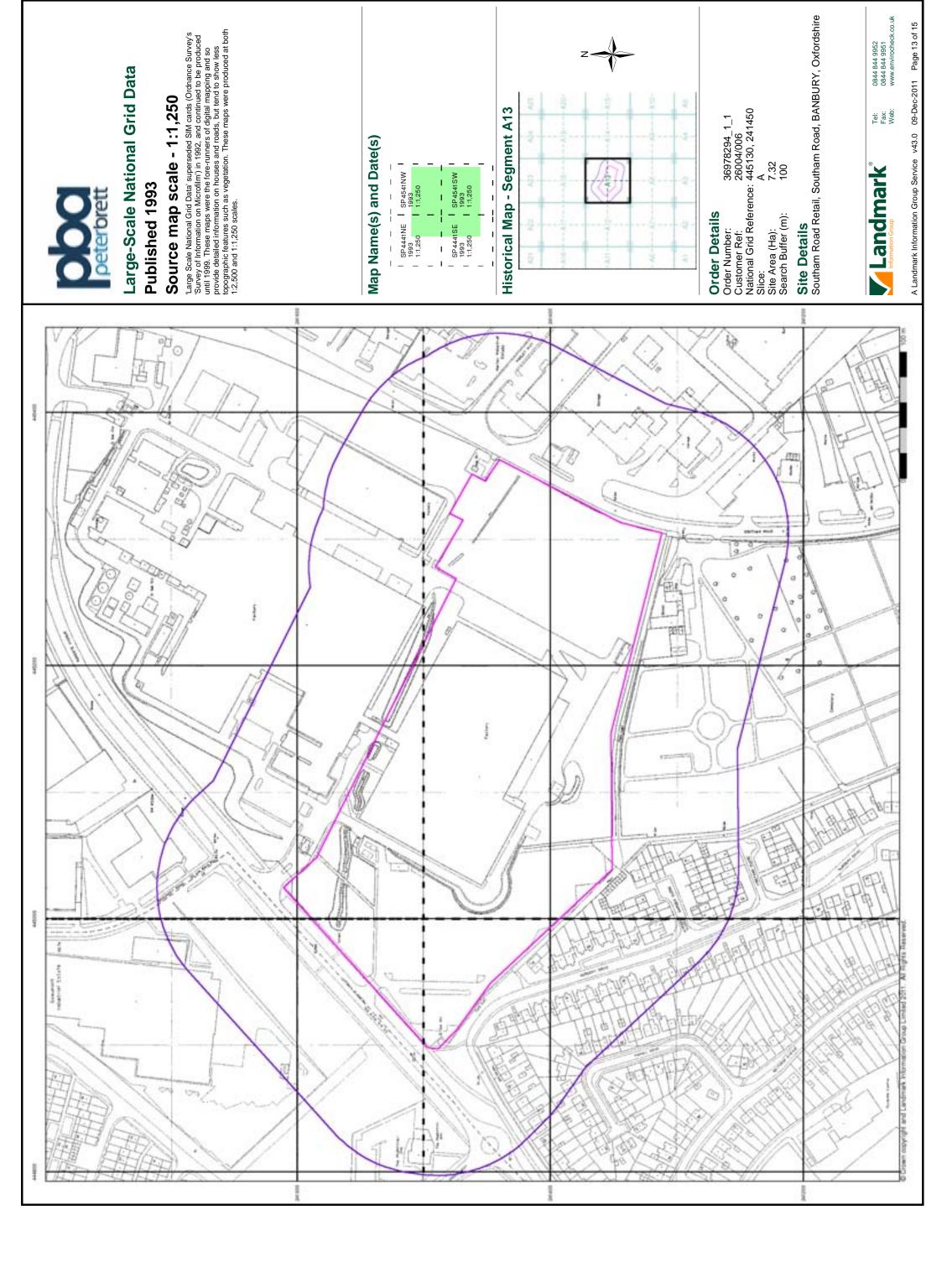


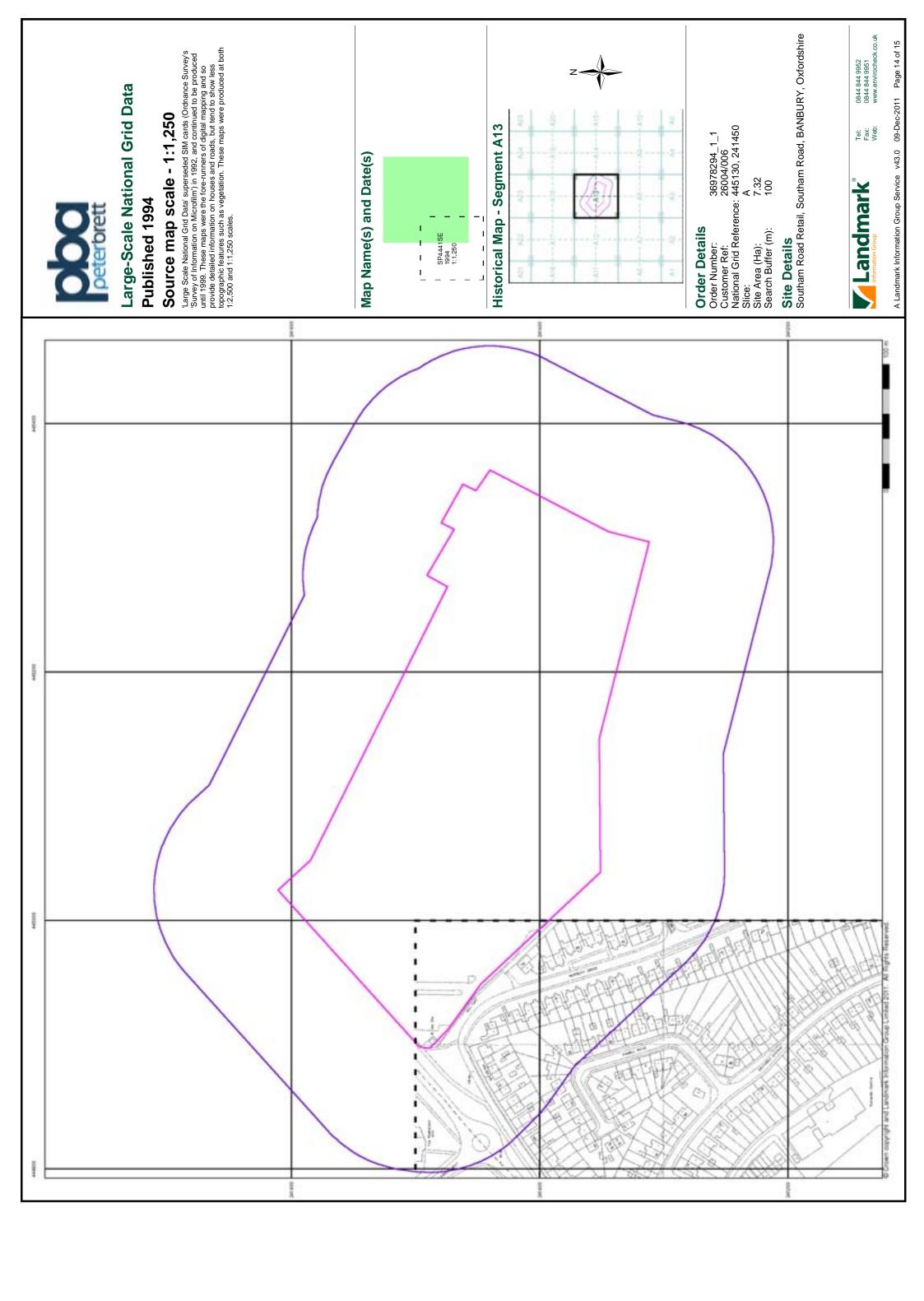
Page 9 of 15

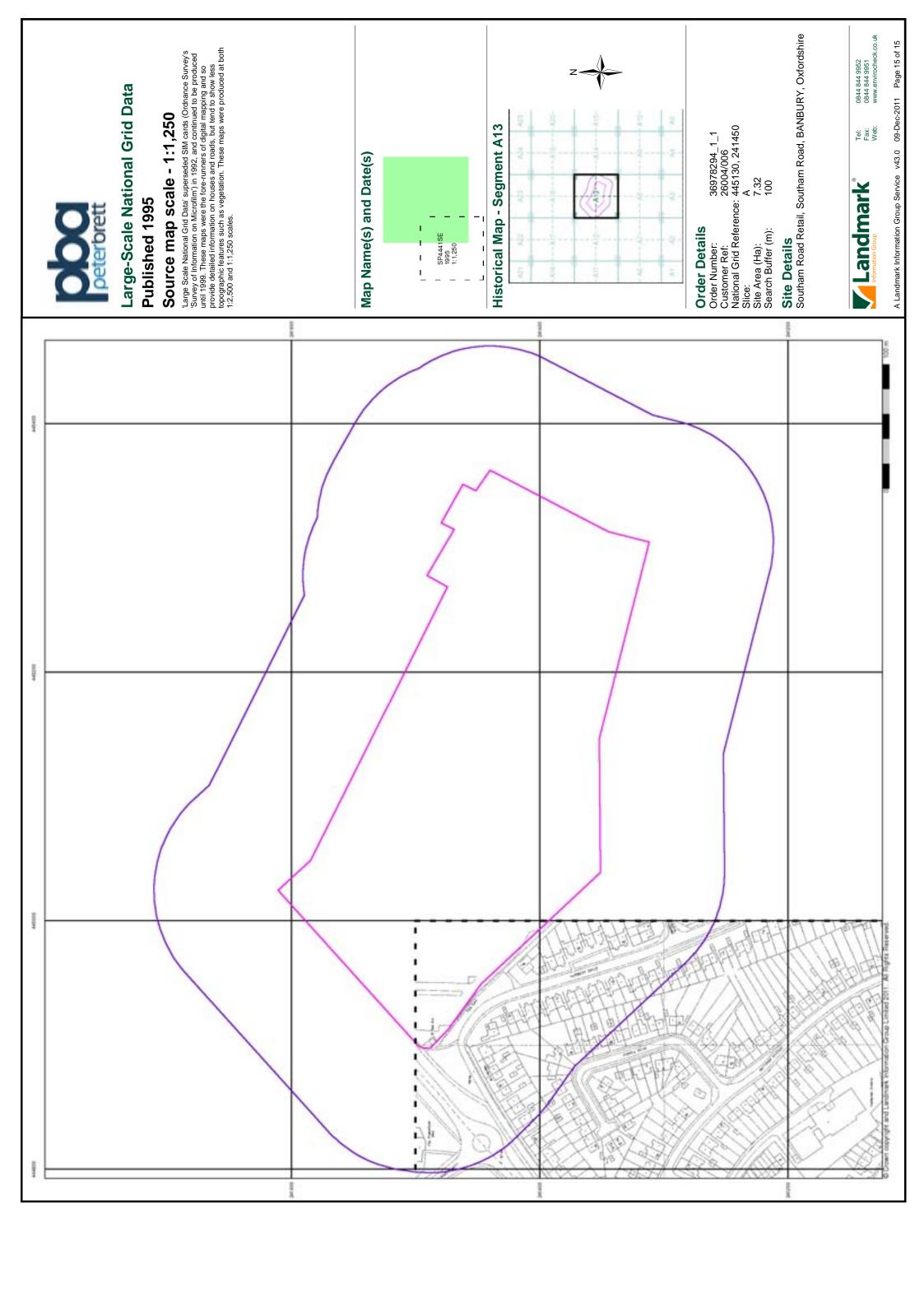












Historical Mapping Legends

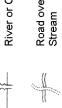
Ordnance Survey County Series 1:10,560

Other Sand Gravel ž

)
1	Arrow denotes flow of water	4	Trigonom Station
4	Site of Antiquities	+	Bench M
	Pump, Guide Post, Signal Post	٠	Well, Spr Boundary

i		ш.	
Instrumental Contour	Minor Roads	out the state of t	
	Fenced Un-Fenced	Sunken Road	Road over
Sketched	Main Roads	A CONTRACTOR OF THE PROPERTY O	"which still still income."

		A Commence	`
	Road over Railway	Railway over Road	Road over
The state of the s	worth Agriffith Artificians (April 1997)	Andrewshill Million	1



Road over Stream	County Boundary (Geographical)	County & Civil Parish Boundary	Administrative County & Civil Parish Boundary	County Borough Boundary (England)
	1		† † † †	Co. Boro. Bdv.

Pits	• • • • • • Orchard	Marsh	141 143 144 144 144 144 144 144 144 144	Brushwood	Rough Pasture	Trigonometrical Station	Bench Mark	Well, Spring, Boundary Post		ental	Fenced Coads Un-Fenced	Raised Road	Railway over River	Level Crossing	Road over	
Ŀ	Shingle	Reeds		Deciduous	Furze	4	+ s	ot,		Instrumental Contour	Minor Roads	HERENIA DER			<u>a</u>	
170000	y	કુંતે તે તેવે કહ્યું કરતાં કહ્યું કહ્યું ત્રીત્રું ત્રું હતા ત્રીત્રું તું કહ્યું	(2) 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2			Arrow denotes flow of water	Site of Antiquities	Pump, Guide Post, Signal Post	Surface Level	明明に	Fenced Un-Fenced	Sunken Road	Road over Railway	Railway over Road	Road over River or Canal	Road over Stream
Ë	Quarry	Osiers		Wood	Ē	Arr	šį	Pur Sig		7	ads	ALTERNATION OF THE PERSON OF T	on the same		1.1	//
	3		4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Mixed Wood	Ē	1	+	•	.285	ketched ontour	lain Roads	THE THE PERSON OF THE PERSON O	THE DESCRIPTION OF THE PERSON	TOTAL PROPERTY OF THE PARTY OF	##	

Ordnance Survey Plan 1:10,000

v of Water	Direction of Flow of Water		Building	
→₹← Saltings	, Reeds	,,,,V,,,,	Marsh	- - -
Grassland			Bracken	ب بہ
\Yn Coppice	Scrub	ard no_	Orchard	Ф Ф
Non-Coniferous Trees	444	Coniferous Trees		↔ ↔
& Boulders	000	Dunes		
Lake, Loch or Pond		Refuse or Slag Heap	Sig.	/:\ ::::: :::::
Disused Pitor Quarry	()	Sand Pit	S.	
رمن روم روم Gravel Pit		Chalk Pit, Clay Pit or Quarry	ប៍ ៦ ()	

\\n Coppice	, , , , , Rough Grassland	→ <u>≀</u> ← Saltings	*** Shingle)	Electricity Transmission
Πο_ Scrub	Heath	、、、V//,, Reeds	Direction of Flow of Water	v	Pylon tsonry Pole
Orchard	Bracken	Marsh	Building	Glasshouse	Sloping Masonry
^		1			

Cutting		Embankment	Standard Gauge
U Road '''∏'''	Road /		Standard Gauge Single Track
Under	Over	Crossing Bridge	Siding, Tramway or Mineral Line
		Aprice Marrow Garide	Aprile Amorre

Standard Gauge	Single Track	Siding, Tramway		ivaliow Gauge
1	ل تحد ⊈	. 1	-	
	Foot		-	_
			-	-
1	Level		-	-
	Le C		-	-
			_	-
	Road /		_	
	86	١		
	:			
ij	Ė		-	Ī

ı	Geographical County	ınty	
1	Administrative County, County Borough or County of City	unty, County	' Borough
	Municipal Borough, Urban or Rural District, Burgh or District Council	h, Urban or R Souncil	tural District,
:	Borough, Burgh or County Constituency Shown only when not coincident with other boundaries	r County Col	nstituency h other boundaries
1	Civil Parish Shown alternately wh	ien coincidence	Civil Parish Shown alternately when coincidence of boundaries occurs
Boundan	Boundary Post or Stone	Pol Sta	Police Station
Church		Po	Post Office
Club House	ISe	<u>გ</u>	Public Convenience
		-	

Police Station	Post Office	Public Convenience	Public House	Signal Box	Spring	Telephone Call Box	Telephone Call Post	Well	
Pol Sta	Ро	PC	품	SB	Spr	TCB	JC D	≱	
Boundary Post or Stone	Church	Club House	Fire Engine Station	Foot Bridge	Fountain	Guide Post	Mile Post	Mile Stone	
BP, BS	ნ	당	FESta	8	뜐	С	ΜP	MS	

County Burgh Boundary (Scotland)

Rural District Boundary

RD. Bdy. Co. Burgh Bdy. Co. Boro. Bdy.

Civil Parish Boundary

: : : : :

1:10,000 Raster Mapping

Refuse tip or slag heap	Rock
	ę ę
Gravel Pit	Rock

Mapping Type Northamptonshire

Oxfordshire Warwickshire Oxfordshire Oxfordshire

Historical Mapping & Photography included:

1900 1923 1923

1:10,560 1:10,560 1:10,560 1:10,560 1:10,560 1:10,560 1:10,560 1:10,560 1:10,560 1:10,560 1:10,560







Boulders



Shingle

1948

Historical Aerial Photography

Northamptonshire
Northamptonshire
Oxfordshire
Oxfordshire

Ordnance Survey Plan Ordnance Survey Plan Ordnance Survey Plan Ordnance Survey Plan

1955 1968 1978 1980

1:10,000

1938 1938 1938









Sand

Sand



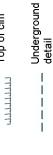


Slopes

TITITI







Ordnance Survey Plan 10K Raster Mapping 10K Raster Mapping 10K Raster Mapping

1:10,000

1:10,000 1:10,000 1:10,000



Narrow gauge

railway

Single track

railway



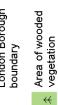
Civil, parish or

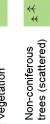
community

boundary

Constituency

boundary





G

XX

Historical Map - Slice A

Non-coniferous trees

GG

30









Coniferous trees (scattered)

*





Orchard

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Rough Grassland



Scrub

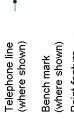
C





Mean high water (springs)

Water feature





Pylon, flare stack or lighting tower

 \boxtimes



Glasshouse

Important Building





 Order Details
 36978294_1_1

 Order Number:
 26004/006

 Customer Ref:
 26004/006

 National Grid Reference:
 445130, 241450
 A 7.32 1000 Slice: Site Area (Ha): Search Buffer (m):

Triangulation station

◁

Site DetailsSoutham Road, BANBURY, Oxfordshire

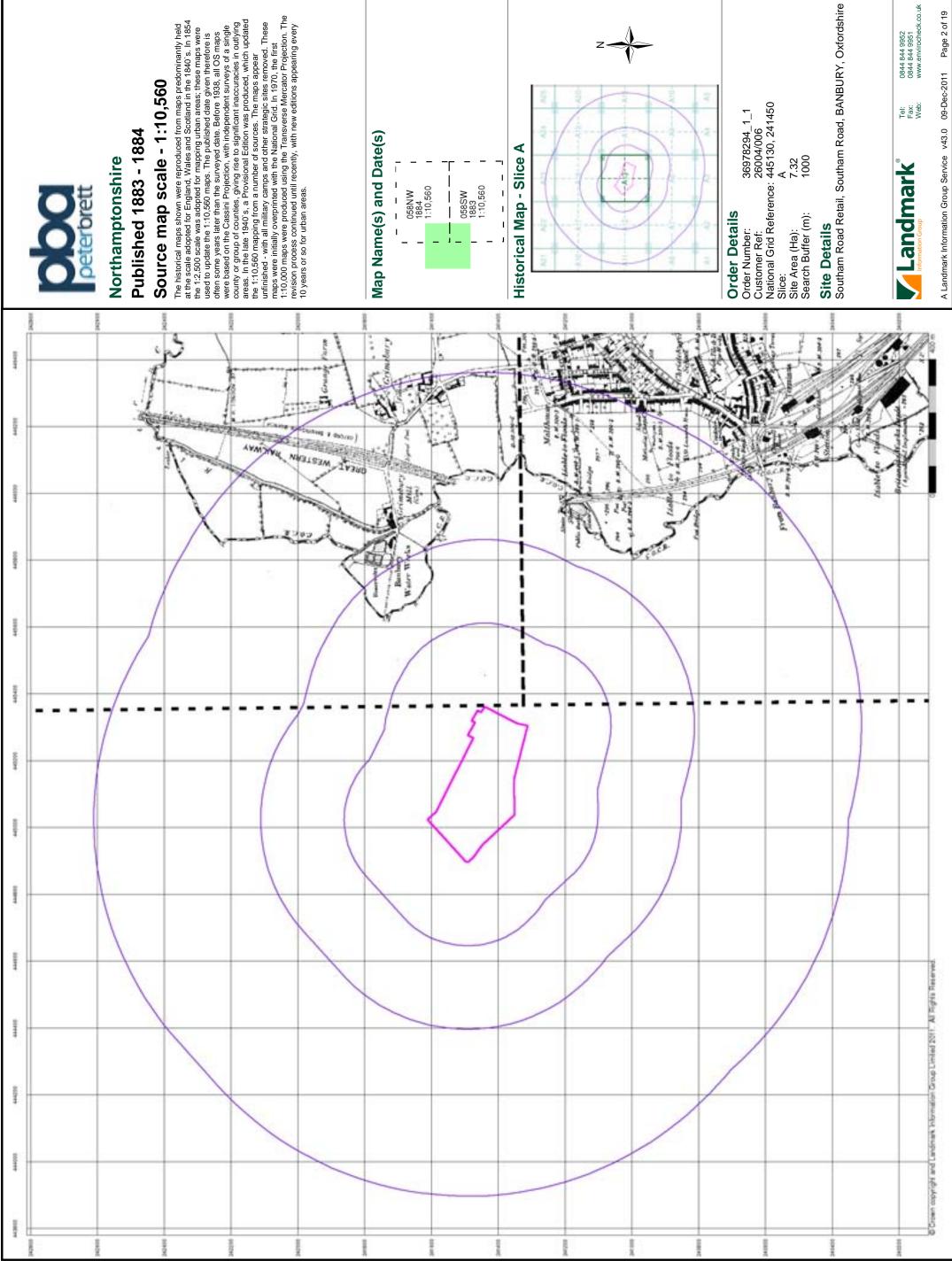




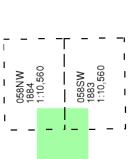


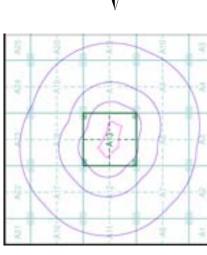
Page 1 of 19

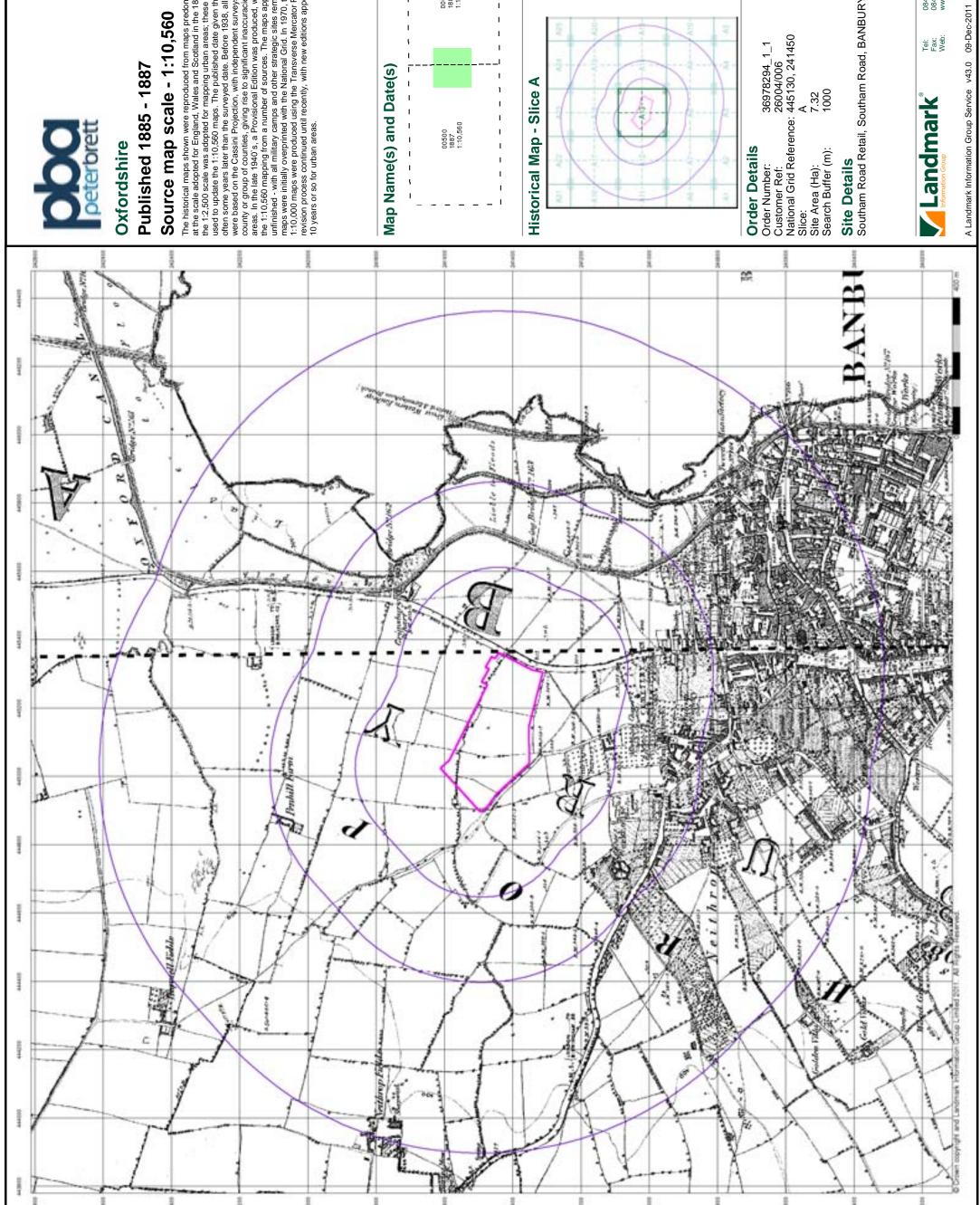




The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 185 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single

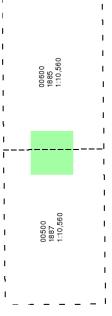


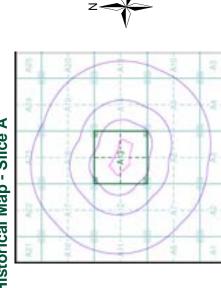






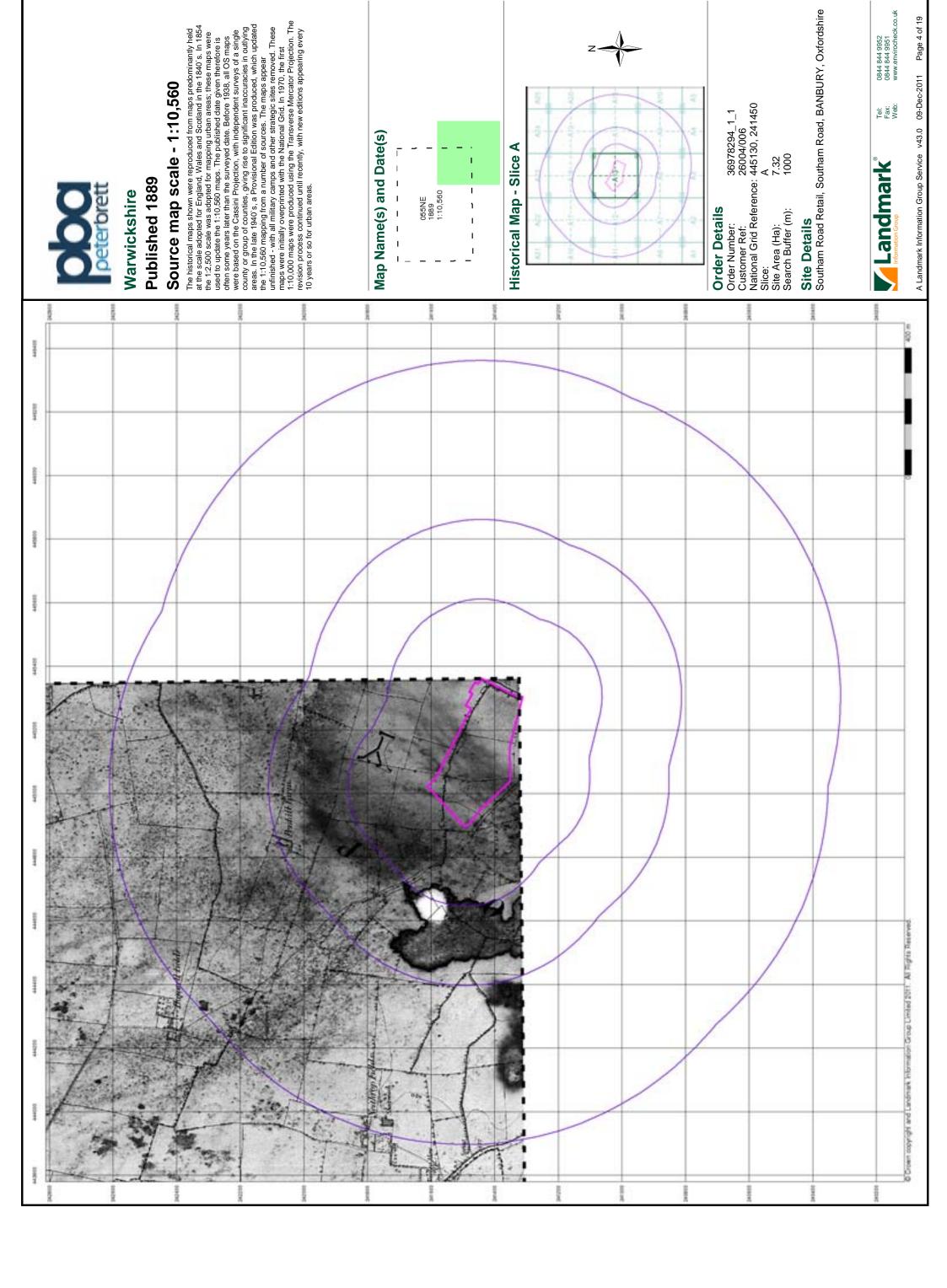
Published 1885 - 1887

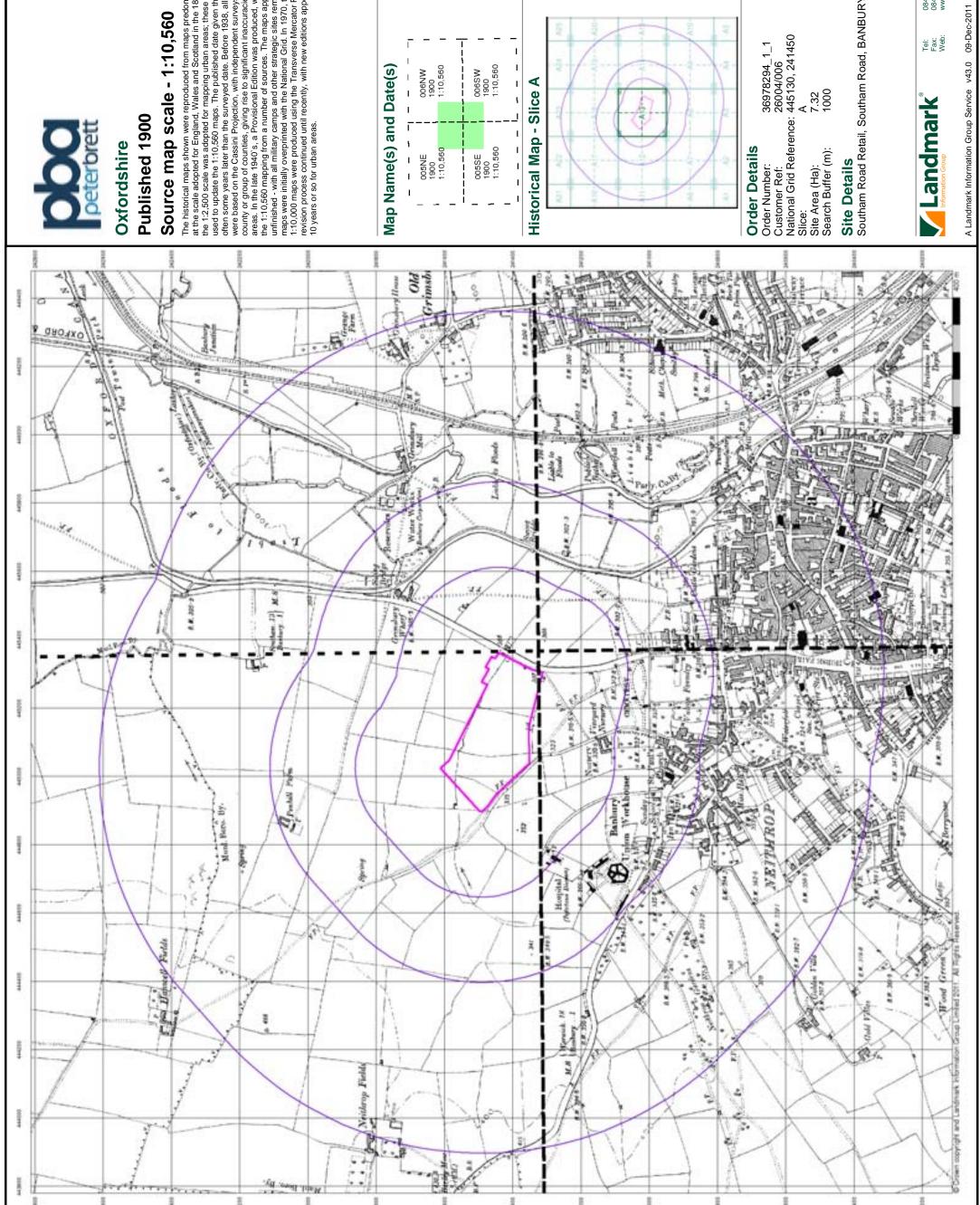




Site DetailsSoutham Road Retail, Southam Road, BANBURY, Oxfordshire

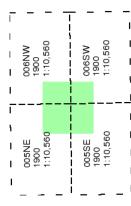




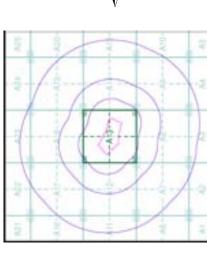




Map Name(s) and Date(s)

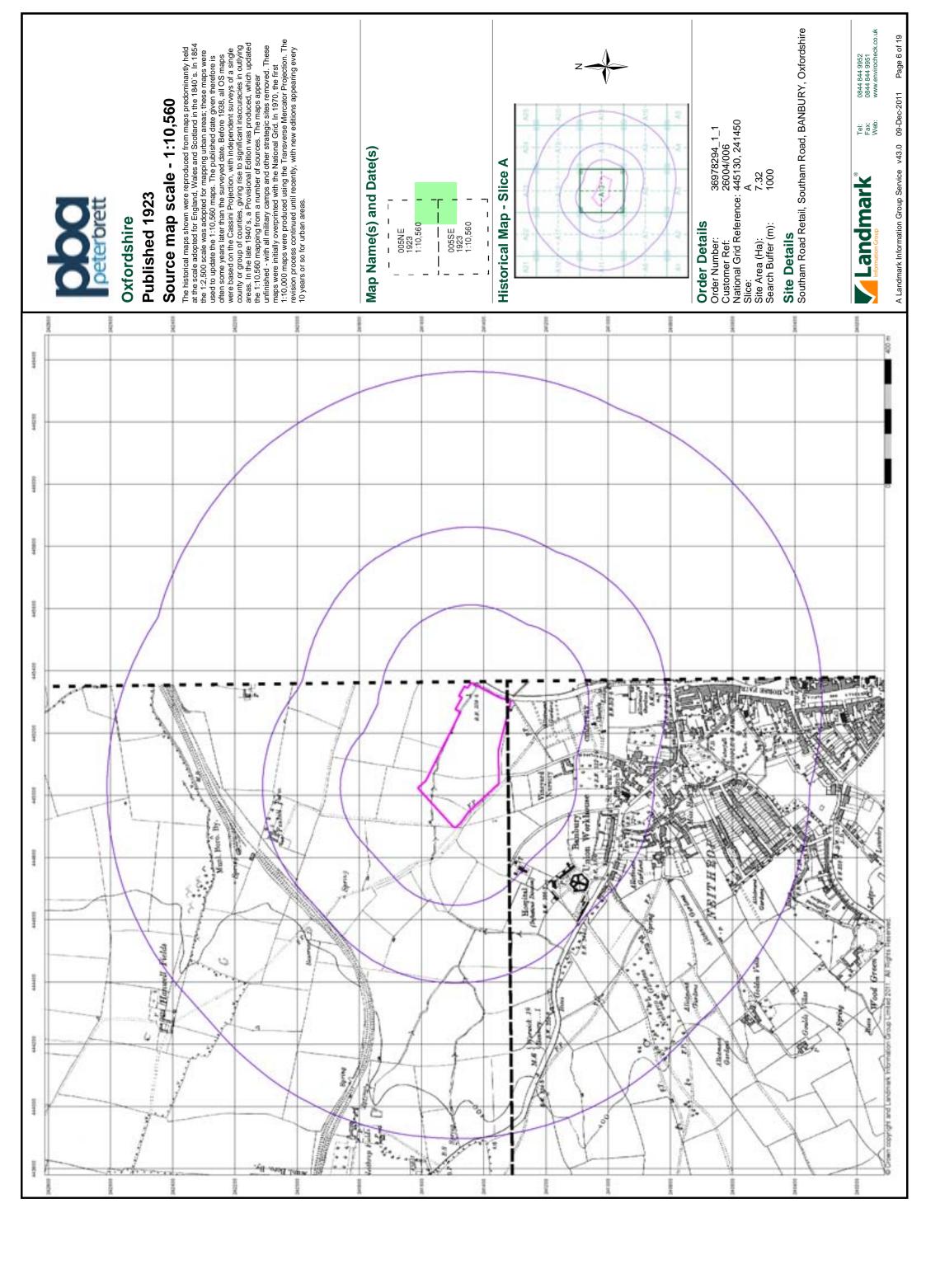


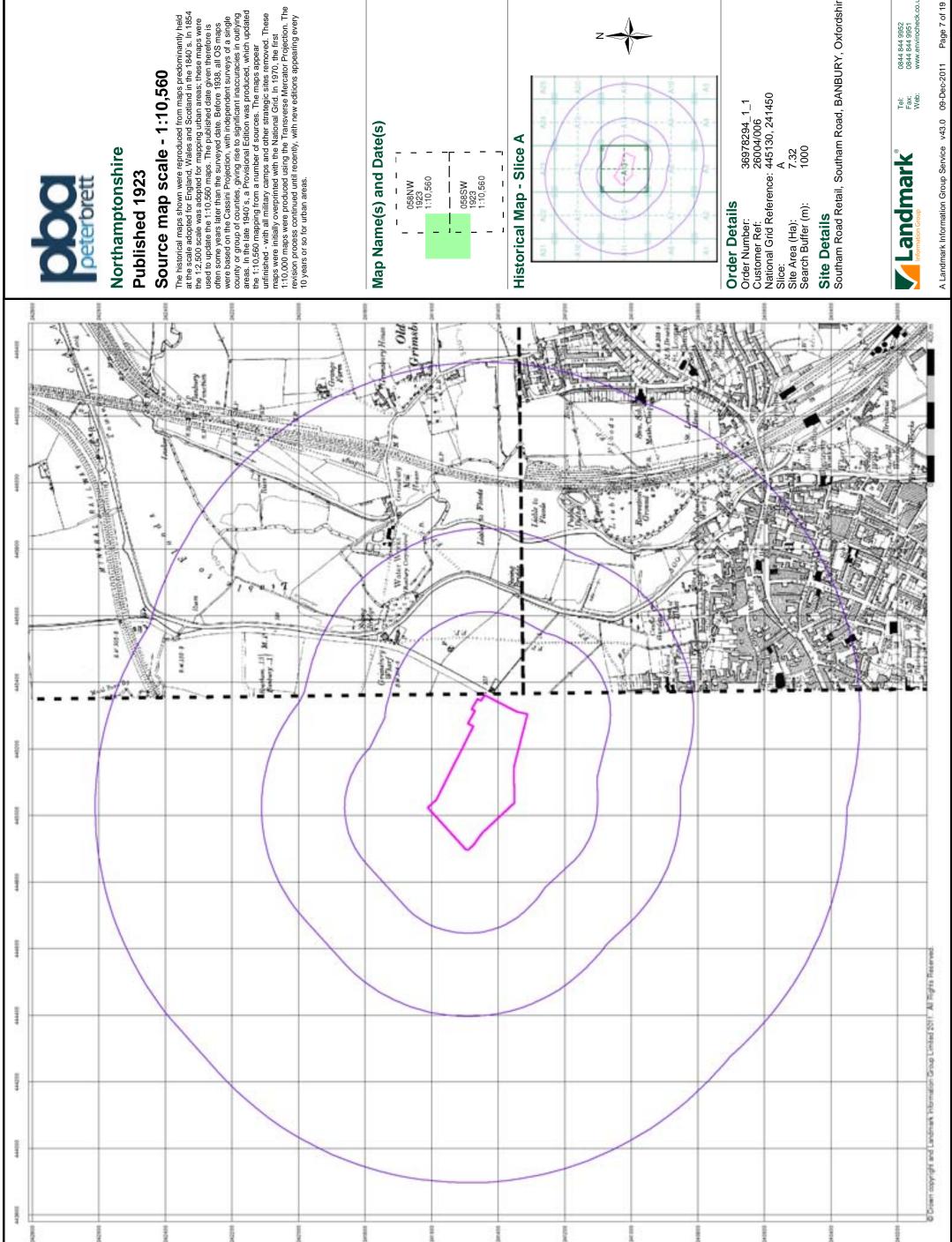
Historical Map - Slice A



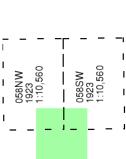


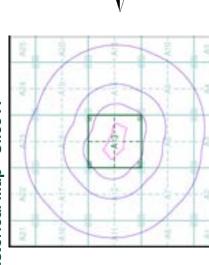






Northamptonshire



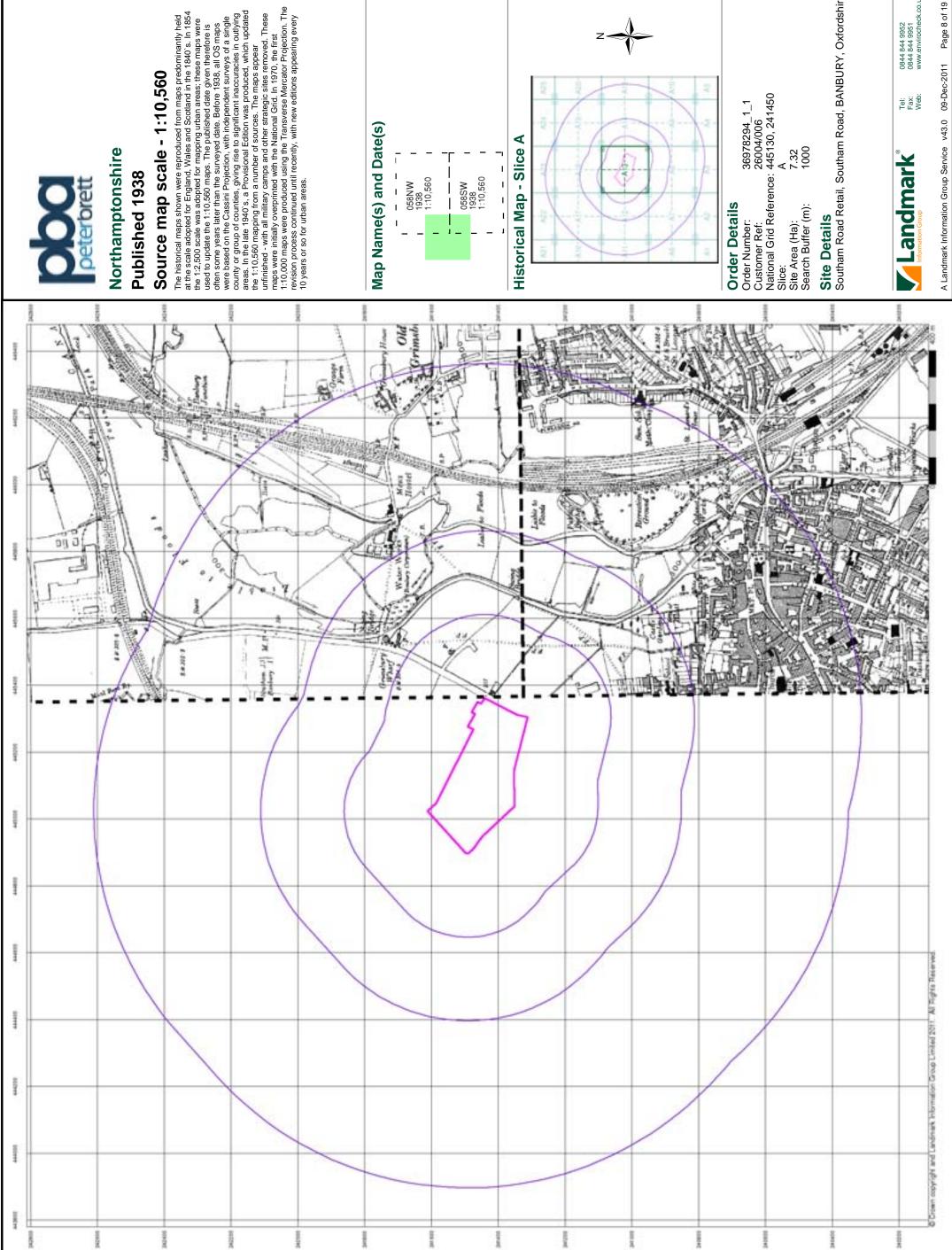


Site DetailsSoutham Road, BANBURY, Oxfordshire



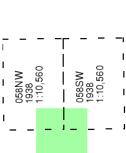


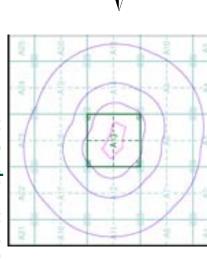






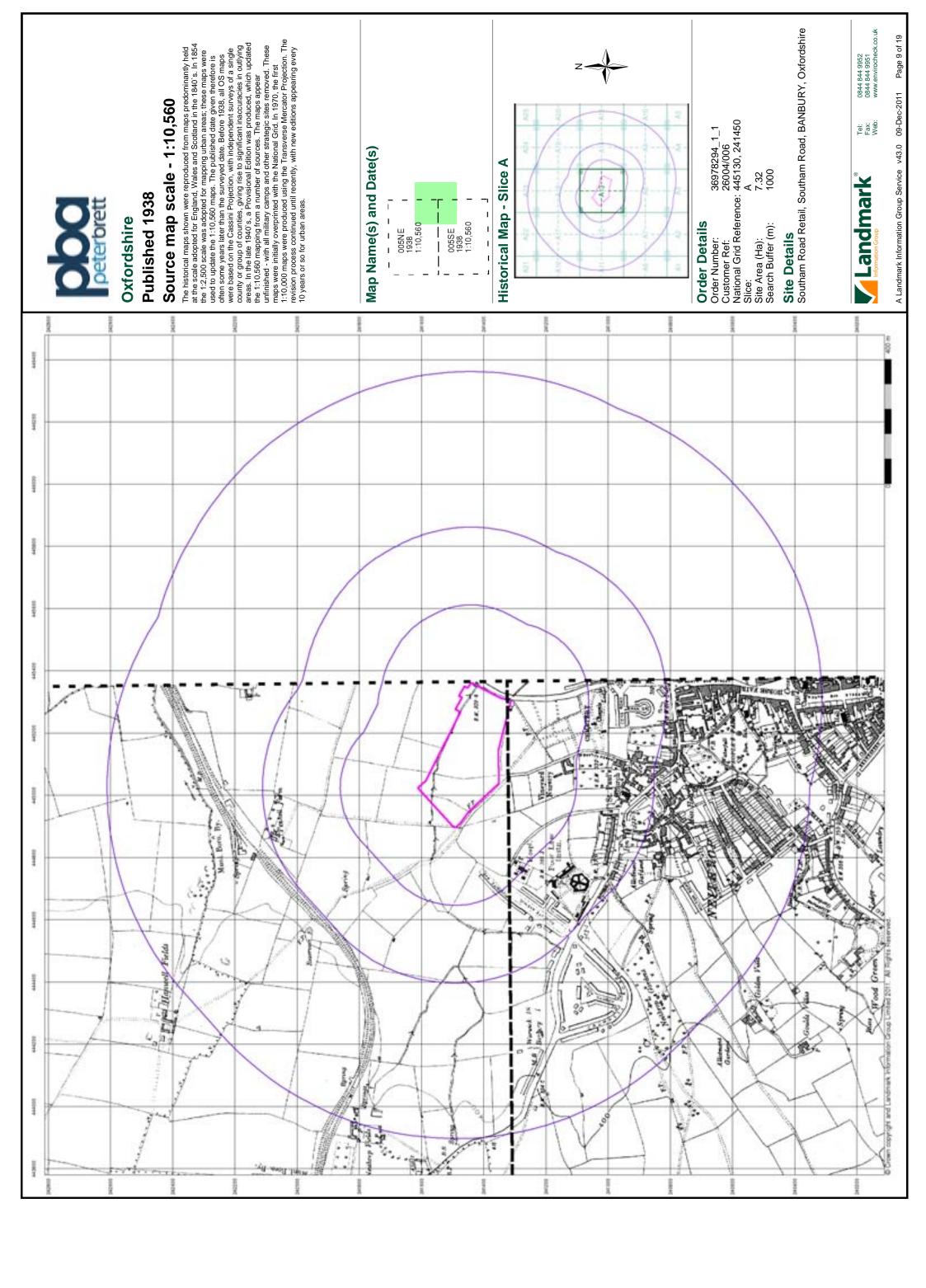
Northamptonshire

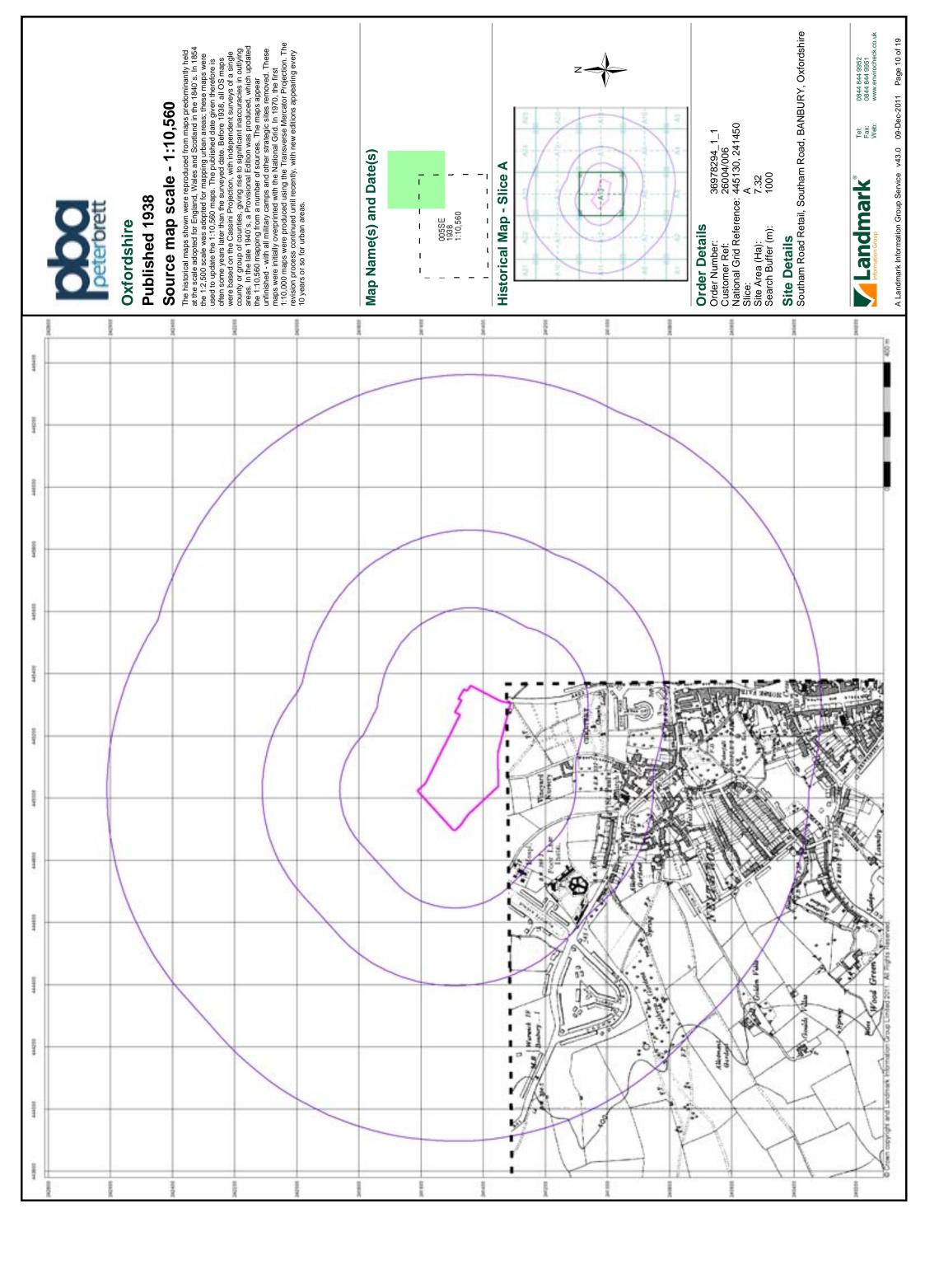


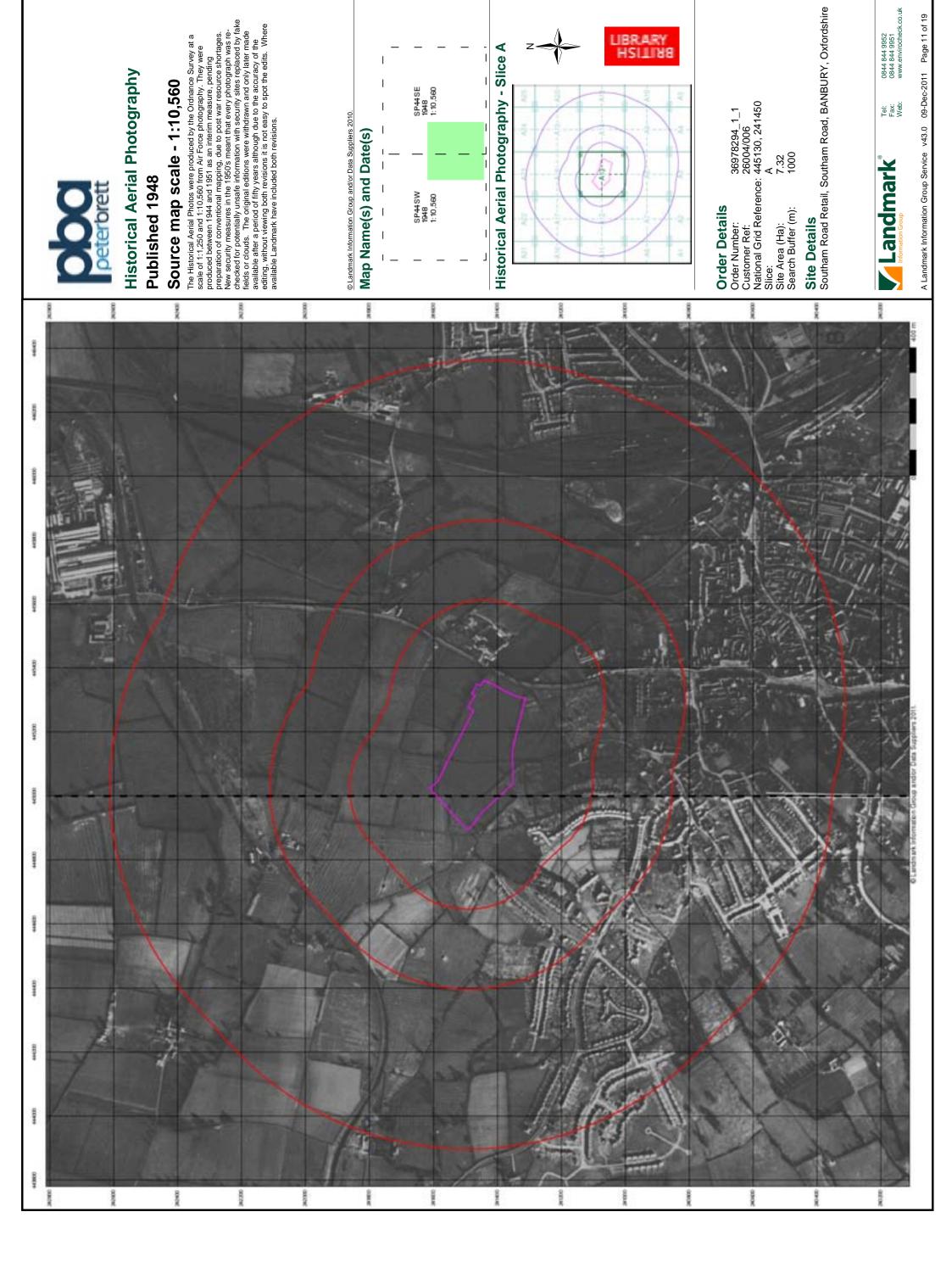


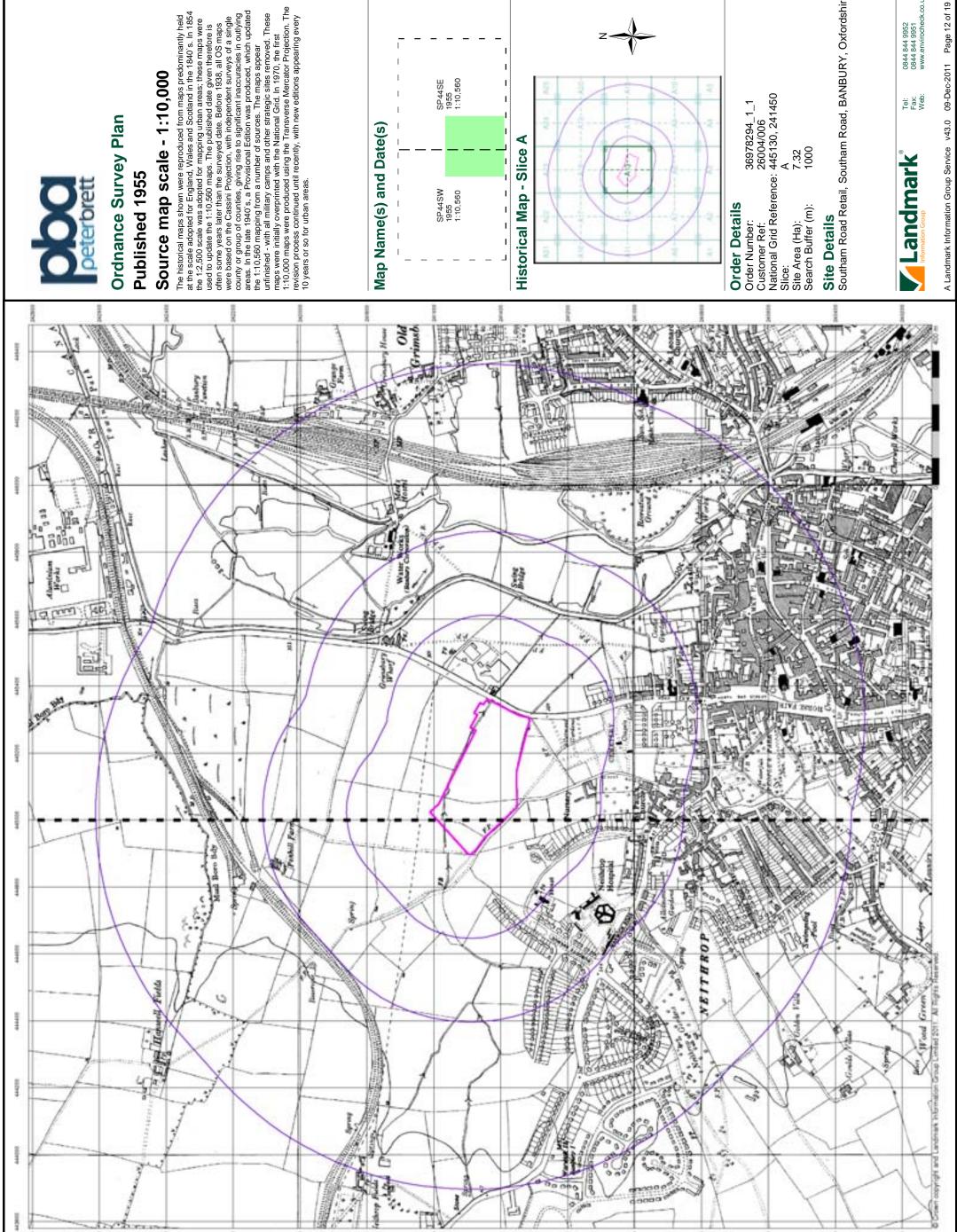
Site DetailsSoutham Road, BANBURY, Oxfordshire



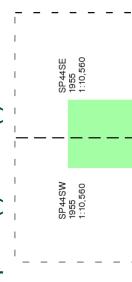




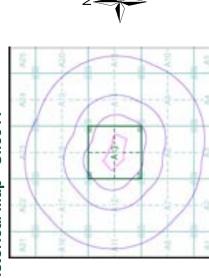




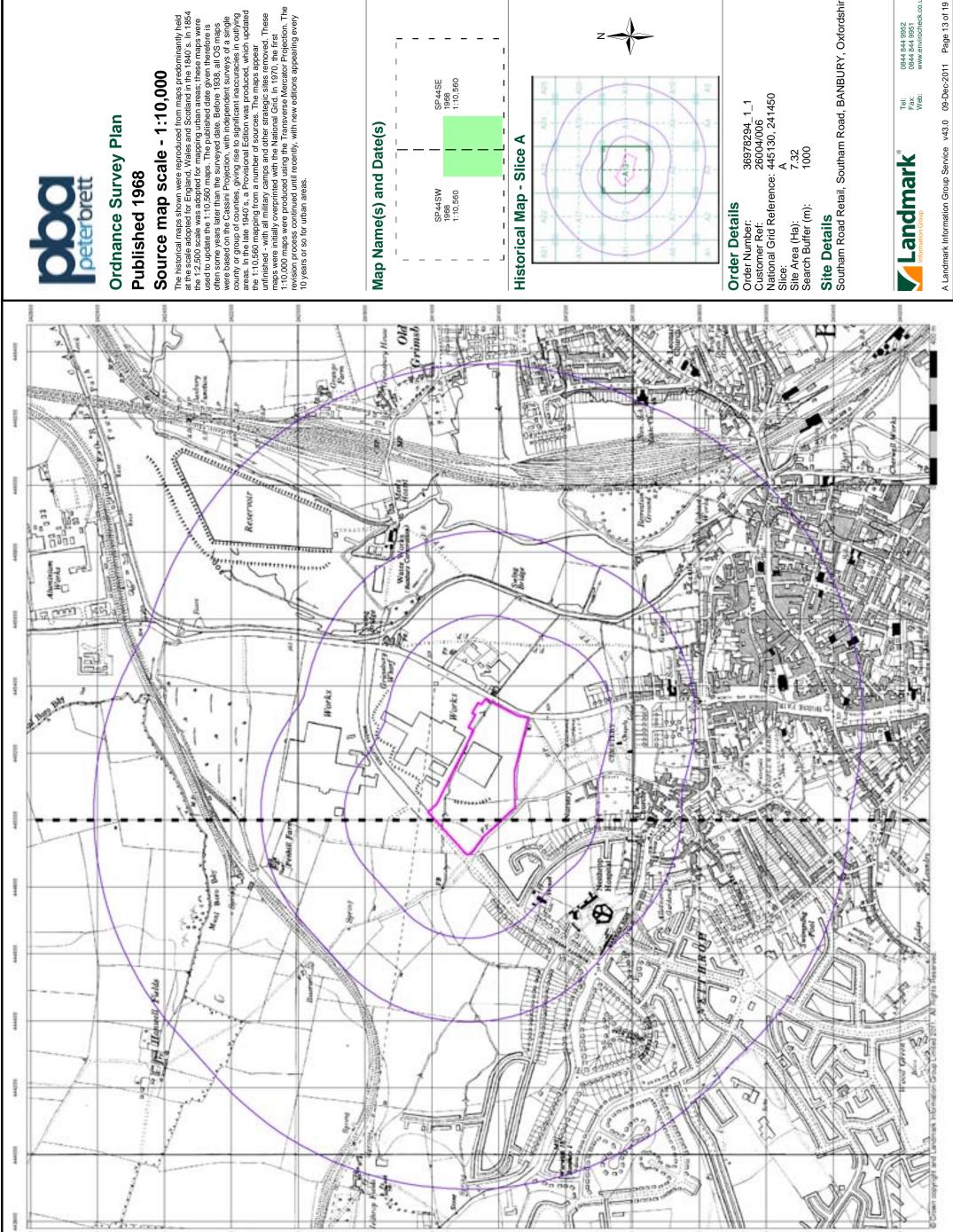
Map Name(s) and Date(s)



Historical Map - Slice A

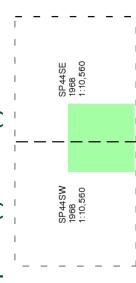




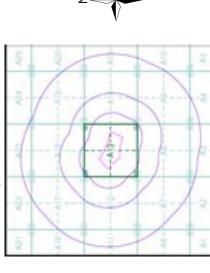




Map Name(s) and Date(s)

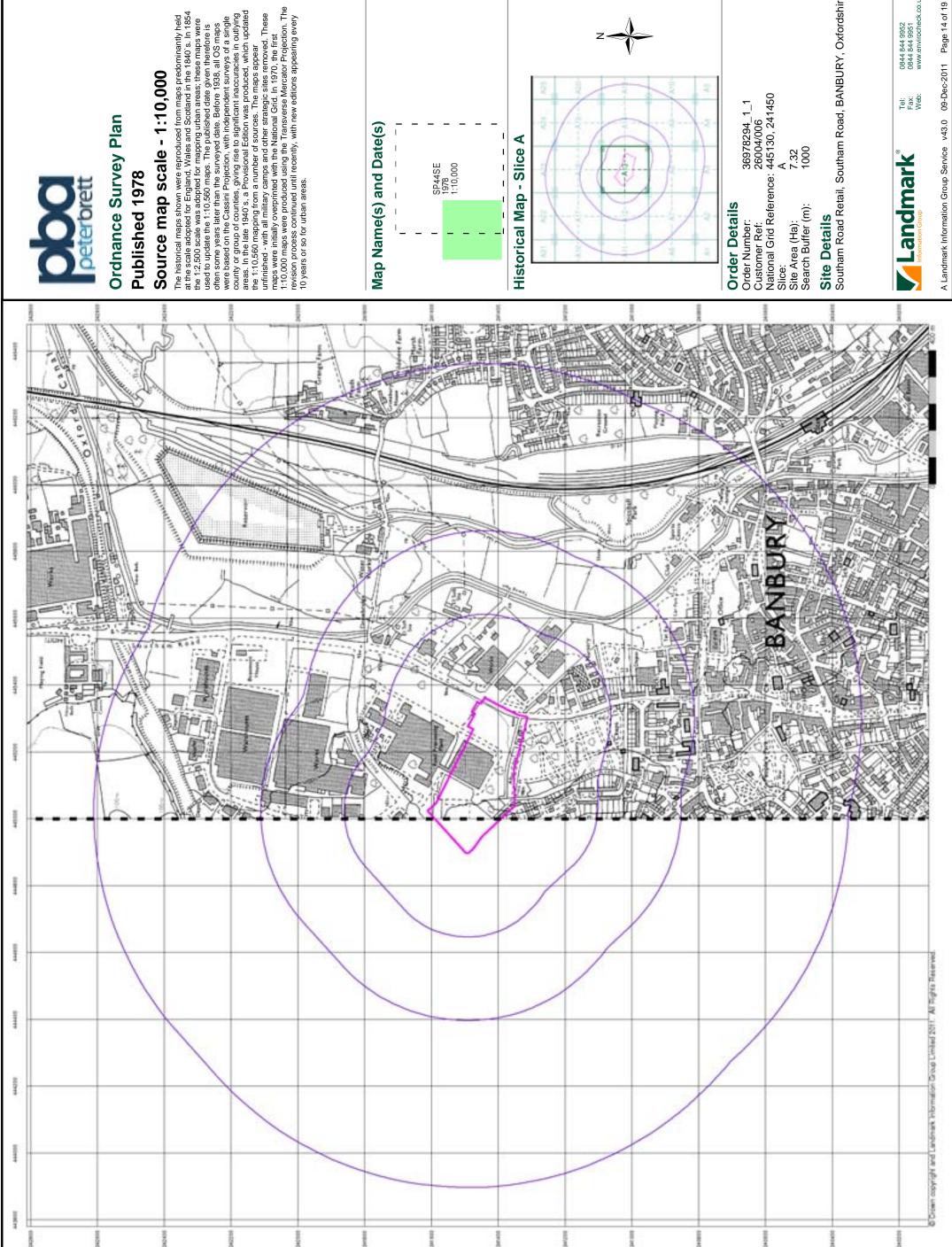


Historical Map - Slice A





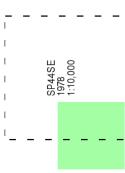




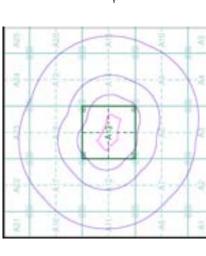


Source map scale - 1:10,000

Map Name(s) and Date(s)

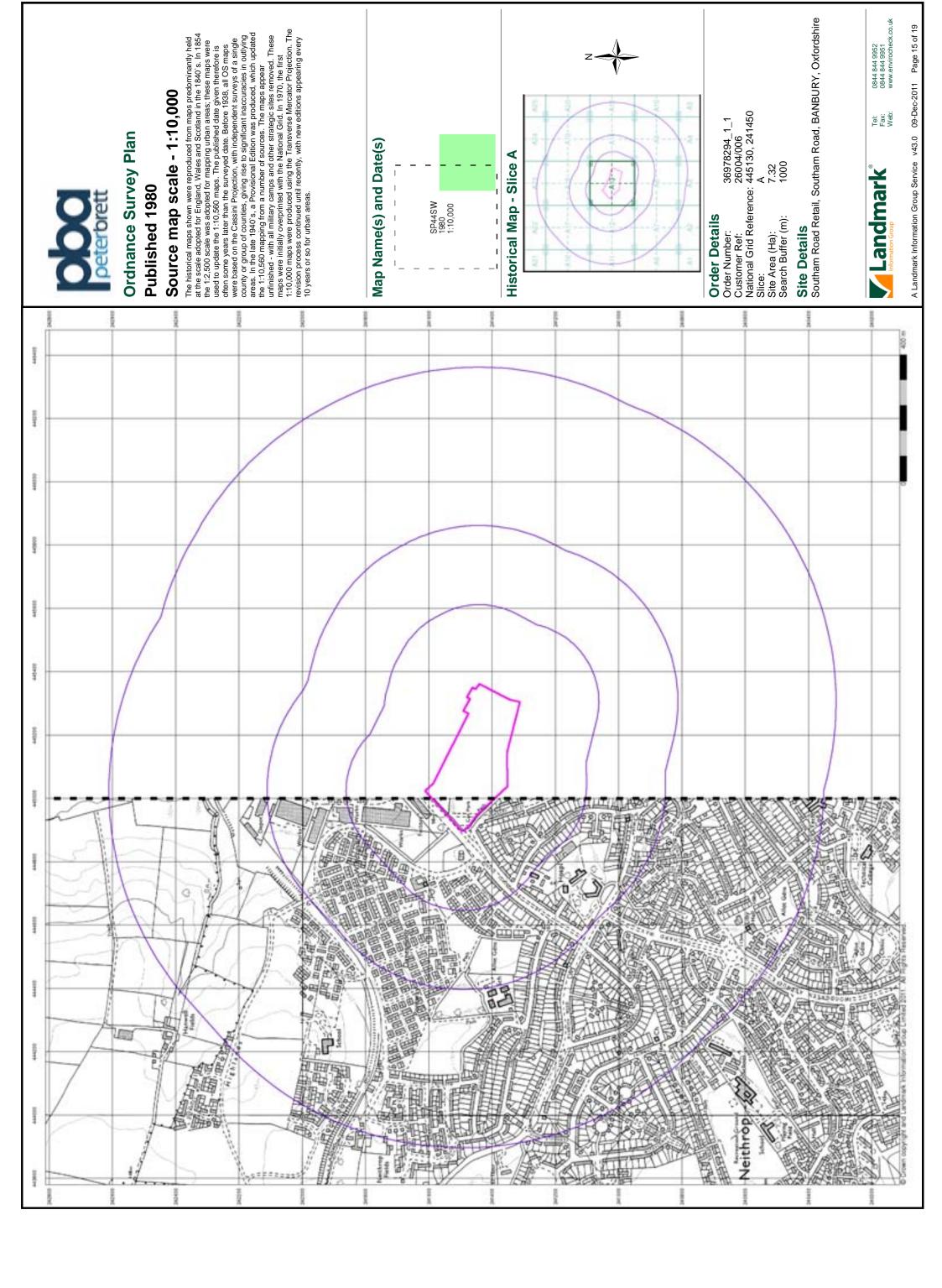


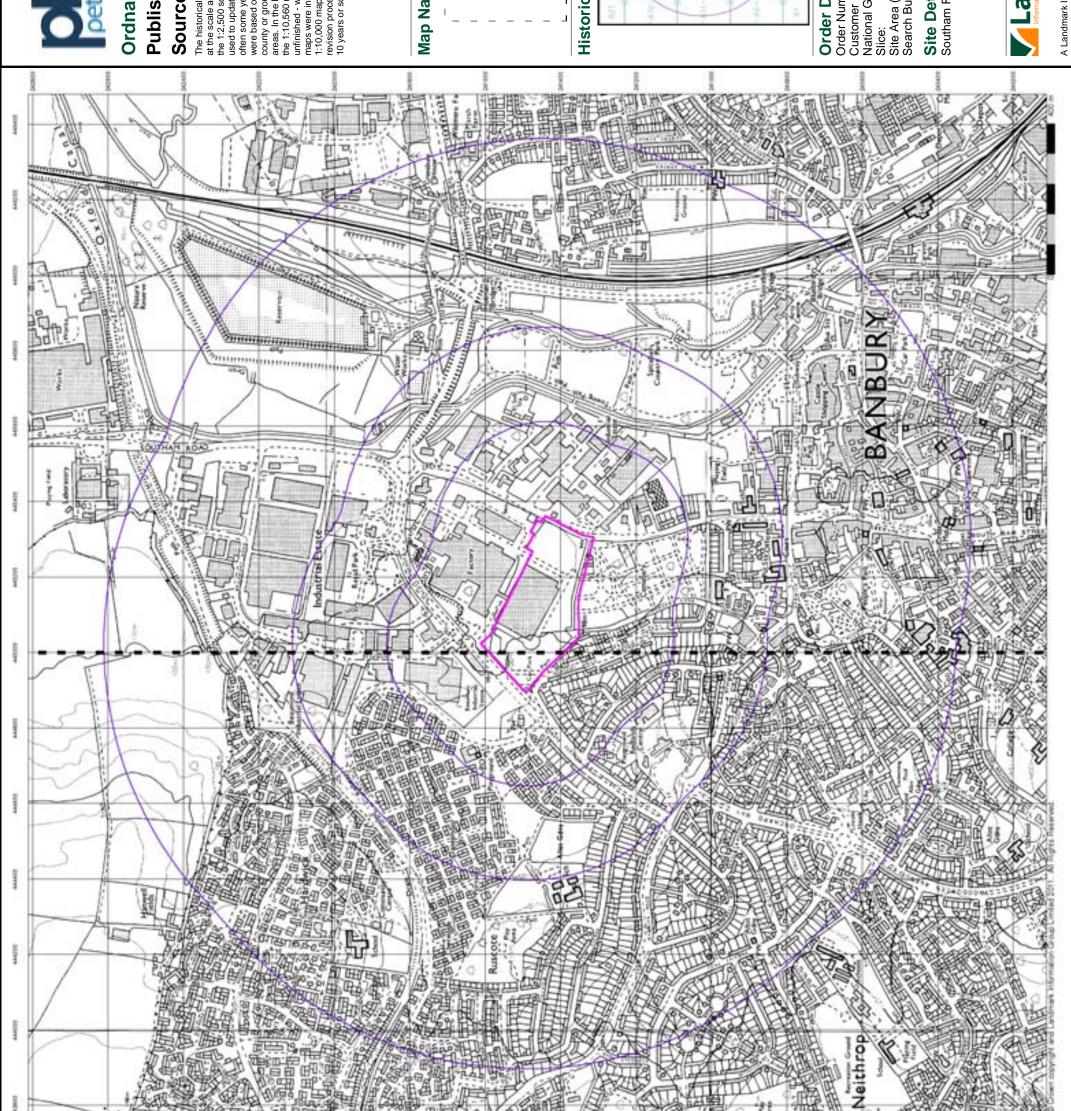
Historical Map - Slice A







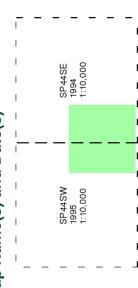




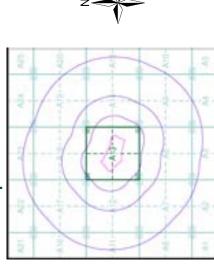


Source map scale - 1:10,000

Map Name(s) and Date(s)



Historical Map - Slice A



 Order Details
 36978294_1_1

 Order Number:
 26004/006

 Customer Ref:
 26004/006

 National Grid Reference:
 445130, 241450

 Slice:
 A

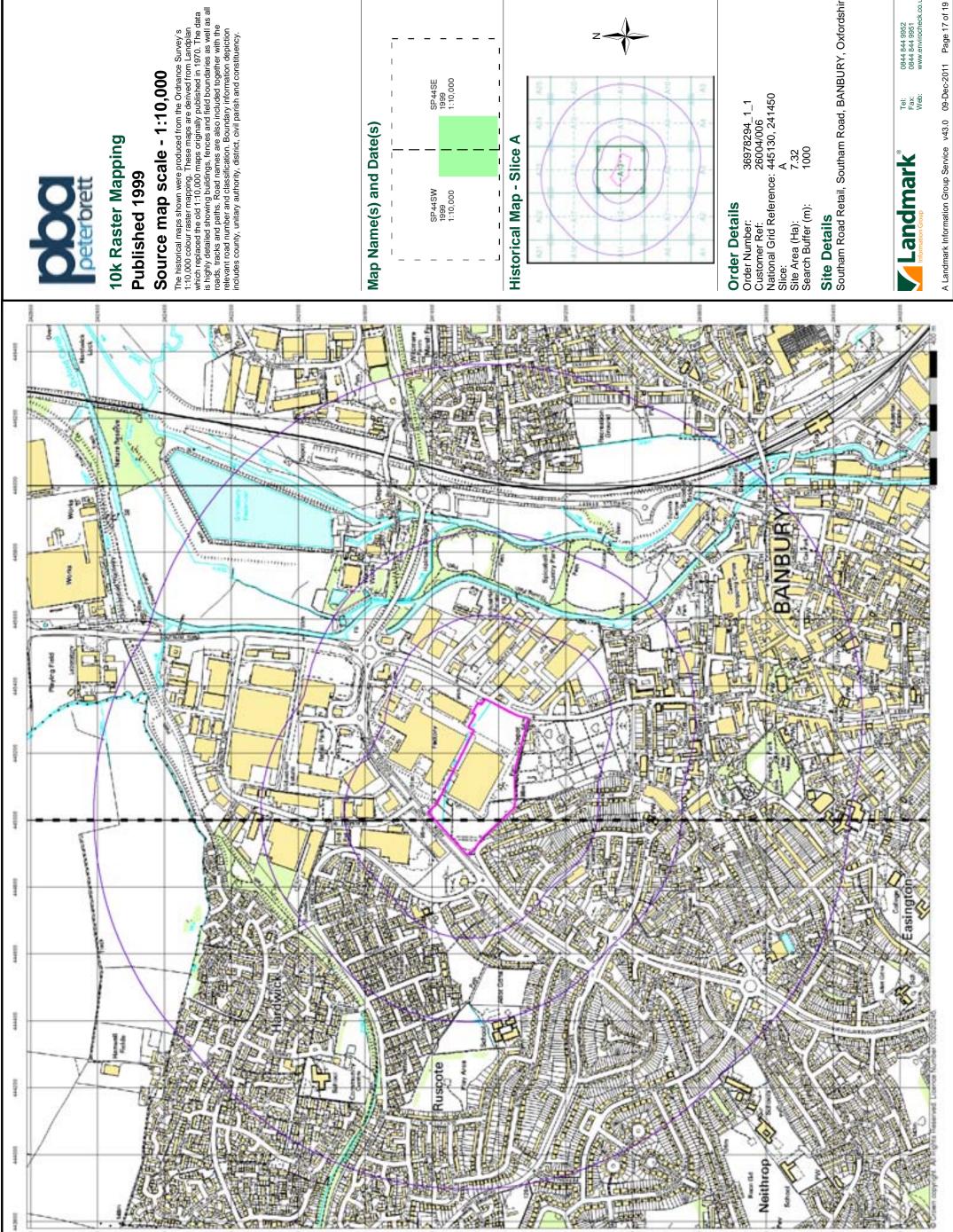
 Site Area (Ha):
 7.32

 Search Buffer (m):
 1000

Site DetailsSoutham Road Retail, Southam Road, BANBURY, Oxfordshire



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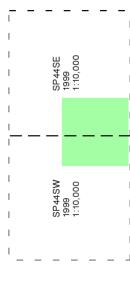


10k Raster Mapping

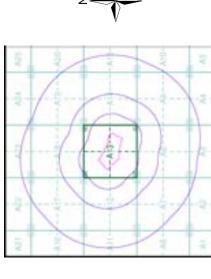
Published 1999

Source map scale - 1:10,000

Map Name(s) and Date(s)



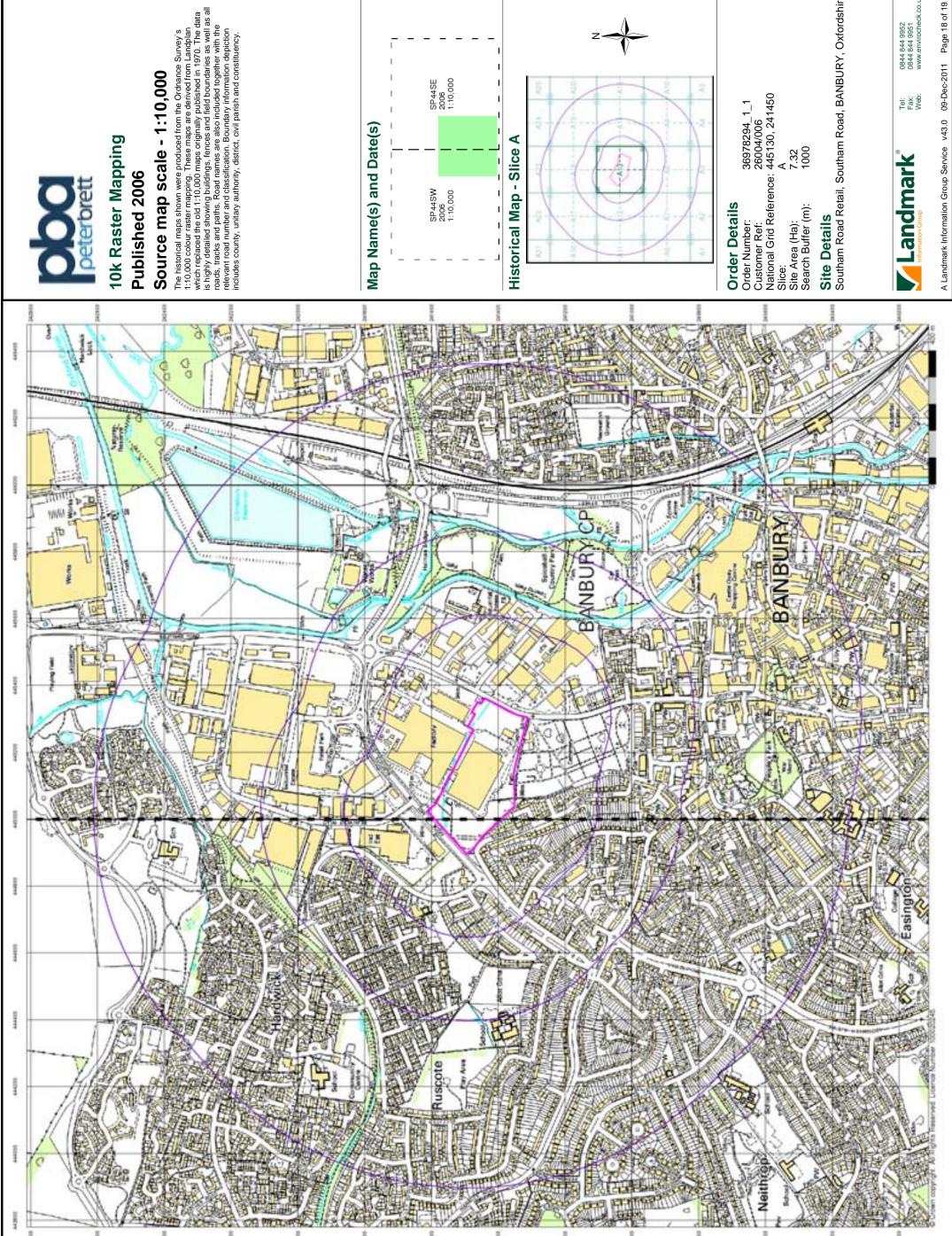
Historical Map - Slice A



Site DetailsSoutham Road Retail, Southam Road, BANBURY, Oxfordshire



Tel: Fax: Web:

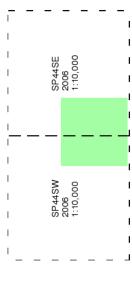




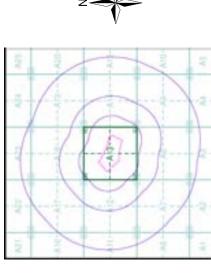
10k Raster Mapping

Published 2006

Map Name(s) and Date(s)



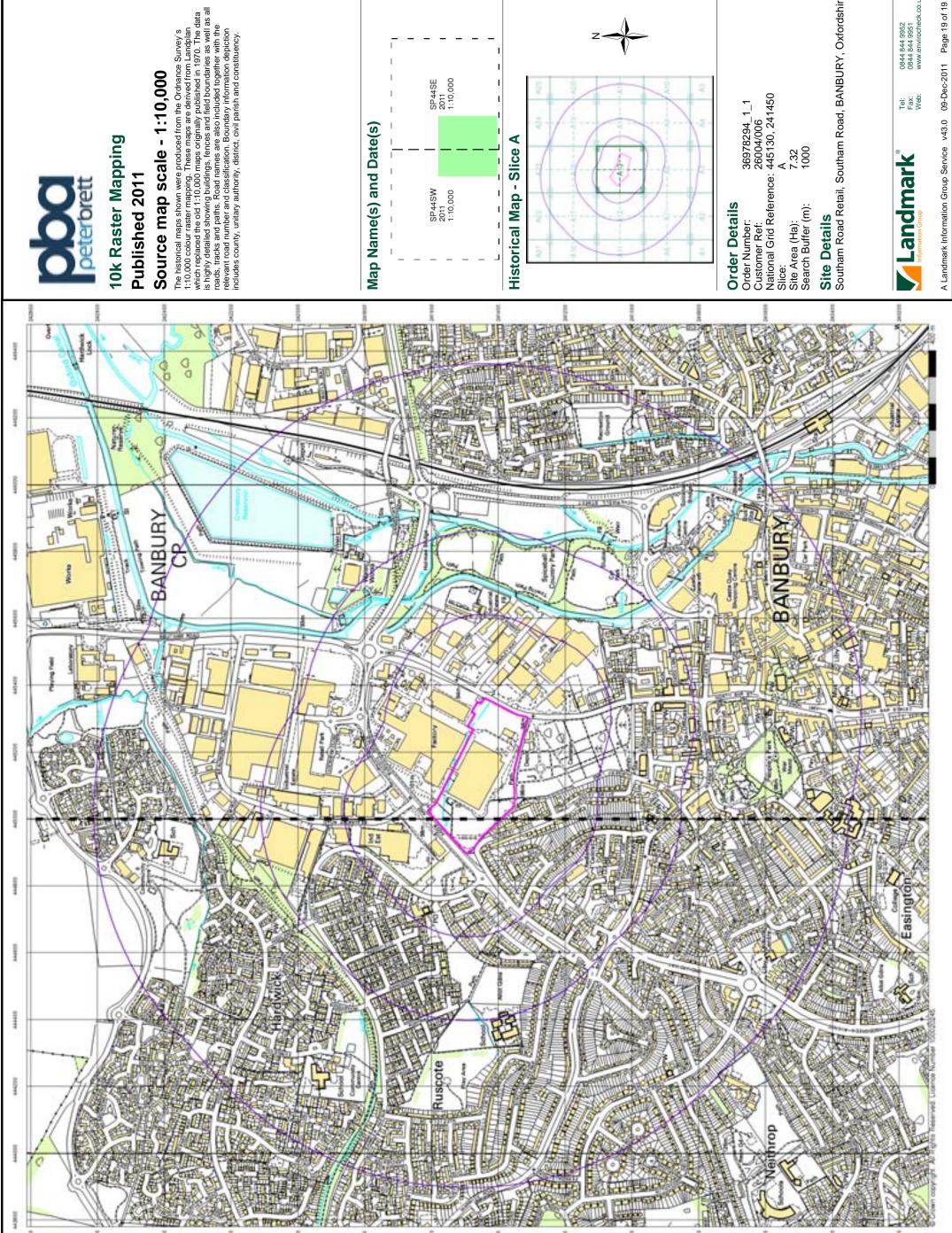
Historical Map - Slice A



Site DetailsSoutham Road Retail, Southam Road, BANBURY, Oxfordshire



Tel: Fax: Web:

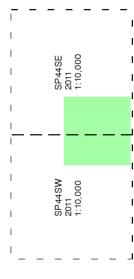




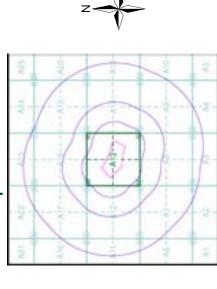
10k Raster Mapping

Source map scale - 1:10,000





Historical Map - Slice A



Site DetailsSoutham Road Retail, Southam Road, BANBURY, Oxfordshire



Tel: Fax: Web:

Southam Road Retail Park, Banbury

Ground Stability and Phase 1 Contaminated Land Desk Study

Appendix 3 Landmark Envirocheck Report



Southam Road Retail Park, Banbury

Ground Stability and Phase 1 Contaminated Land Desk Study





Envirocheck® Report:

Datasheet

Order Details:

Order Number:

36978294_1_1

Customer Reference:

26004/006

National Grid Reference:

445130, 241450

Slice:

Α

Site Area (Ha):

7.32

Search Buffer (m):

1000

Site Details:

Southam Road Retail Southam Road BANBURY Oxfordshire

Client Details:

Ms K Riley Peter Brett Associates LLP Caversham Bridge House Waterman Place Reading Berkshire RG1 8DN



Order Number: 36978294_1_1





Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	30
Hazardous Substances	-
Geological	31
Industrial Land Use	33
Sensitive Land Use	50
Data Currency	51
Data Suppliers	56
Useful Contacts	57

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	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1	6	3	4	24
Enforcement and Prohibition Notices					
Integrated Pollution Controls	pg 10		1		
Integrated Pollution Prevention And Control	pg 10		3		
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 11		5	5	9
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 13	Yes			
Pollution Incidents to Controlled Waters	pg 13	1	10	8	45
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters	pg 24		1		
Registered Radioactive Substances					
River Quality	pg 24			2	2
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points	pg 25				1
Substantiated Pollution Incident Register	pg 25				12
Water Abstractions	pg 27				2 (*5)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 28	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 29	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 30				1
Integrated Pollution Control Registered Waste Sites	pg 30				1
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites	pg 30				1
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					

rpr_ec_datasheet v47.0 A Landmark Information Group Service



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS Recorded Mineral Sites	pg 31				1
BGS 1:625,000 Solid Geology	pg 31	Yes	n/a	n/a	n/a
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 31		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 31	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 31		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 31	Yes		n/a	n/a
Radon Potential - Radon Affected Areas	pg 32	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 33		42	22	126
Fuel Station Entries	pg 49		1	1	2



Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 50	1			
Ramsar Sites					
Sites of Special Scientific Interest	pg 50				1
Special Areas of Conservation					
Special Protection Areas					



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Kraft Foods Uk Production Limited Food Production Chemical Ind. Machinery Kraft Foods, Outlet 2 North Side Coffee Operations Ruscote Avenue Banbury Oxfordshire Ox16 2qu Environment Agency, Thames Region Not Supplied Cawm.0243 1 10th August 2000 4th September 2000 Not Supplied Trade Effluent Discharge-Site Drainage Freshwater Stream/River Birds Ditch New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A13NE (E)	0	1	445250 241480
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Kraft Foods Uk Production Limited Industrial Parks & Estates Kraft Jacobs Suchard, Ruscote Avenue, Banbury, Oxfordshire, Ox16 7qu Environment Agency, Thames Region Not Given CNTM.1678 1 20th December 1994 20th December 1994 Not Supplied Trade Effluent Discharge-Site Drainage Freshwater Stream/River Birds Ditch New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A13NE (E)	0	1	445250 241480
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Kraft Foods Industrial Parks & Estates Kraft Jacobs Suchard, Ruscote Avenue, Banbury, Oxfordshire, Ox16 7qu Environment Agency, Thames Region Not Given Ctwc.1385 1 30th December 1986 30th December 1986 12th August 1996 Trade Effluent Freshwater Stream/River Birds Ditch Authorisation revokedRevoked Located by supplier to within 10m	A13NE (E)	0	1	445250 241480
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Kraft Foods Uk Production Limited Industrial Parks & Estates Kraft Jacobs Suchard, Ruscote Avenue, Banbury, Oxfordshire, Ox16 7qu Environment Agency, Thames Region Not Given CTWC.1386 1 30th December 1986 30th December 1986 10th August 2000 Discharge Of Other Matter-Surface Water Freshwater Stream/River Birds Ditch Consent revoked or revised: New Consent issued (Section 37(1)) Located by supplier to within 10m	A13NE (E)	0	1	445250 241480



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	General Foods Ltd. Industrial Parks & Estates Kraft Jacobs Suchard, Ruscote Avenue, Banbury, Oxfordshire, Ox16 7qu Environment Agency, Thames Region Not Supplied Ctwc.1384 1 30th December 1986 30th December 1986 22nd December 1993 Trade Discharges - Cooling Water Freshwater Stream/River Birds Ditch Authorisation revokedRevoked Located by supplier to within 10m	A13NE (E)	0	1	445250 241480
2	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Kraft Foods Uk Production Limited Industrial Parks & Estates Kraft Jacobs Suchard, Ruscote Avenue, Banbury, Oxfordshire, Ox16 7qu Environment Agency, Thames Region Not Given CNTM.1679 1 20th December 1994 20th December 1994 Not Supplied Trade Effluent Discharge-Site Drainage Freshwater Stream/River Birds Ditch New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A13NE (N)	0	1	445130 241530
3	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Alfred Bird & Sons Ltd, Maxwell Hse, Banbury, Oxon Miscellaneous Foods Food Processing Factory, Banbury, Oxon Environment Agency, Thames Region Not Supplied Ctcr.0851 1 25th July 1966 25th July 1966 30th December 1986 Trade Discharges - Cooling Water Freshwater Stream/River Trib Of Cherwell Authorisation revokedRevoked Located by supplier to within 100m	A13NE (E)	20	1	445300 241500
4	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	S Smiths Concrete Ltd. Ready Mixed Concrete Batching Plant, Southam Road, Banbury, Oxon, Ox16 7se Environment Agency, Thames Region Not Given CTCR.2060 1 21st November 1983 21st November 1983 Not Supplied Trade Discharge - Process Water Freshwater Stream/River Culverted Smiths Ditch Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Located by supplier to within 100m	A13SE (SE)	96	1	445400 241300



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Smith'S Ready Mixed Concrete Ltd Ready Mixed Concrete Depot, Southam Road, Banbury, Oxon, Ox16 7se Environment Agency, Thames Region Not Supplied Ctcr.1113 1 16th July 1969 16th July 1969 19th June 1987 Unknown Freshwater Stream/River Trib Of Cherwell Authorisation revokedRevoked Located by supplier to within 100m	A13SE (SE)	96	1	445400 241300
5	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Sewerage Network - Pumping Station - Water Company Southam Road Environment Agency, Thames Region Not Supplied Temp. 1938 1 2nd November 1989 2nd November 1989 26th November 2002 Sewage Discharges - Pumping Station - Water Company Freshwater Stream/River Southam Road Ditch Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 100m	A14NW (NE)	281	1	445500 241700
6	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Given Cntm.1235 1 24th December 1993 24th December 1993 12th January 1996 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Waterworks Ditch Authorisation revokedRevoked Located by supplier to within 10m	A14NW (NE)	465	1	445680 241790
6	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Given Cntm.0994 1 23rd July 1993 23rd July 1993 22nd December 1995 Trade Effluent Freshwater Stream/River Waterworks Ditch Authorisation revokedRevoked Located by supplier to within 100m	A14NW (NE)	465	1	445680 241790



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Settled Discharge, Grimsbury Water Works, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cntw.0232 1 16th January 1990 16th January 1990 18th January 1993 Trade Effluent Freshwater Stream/River Waterworks Ditch Authorisation revokedRevoked Located by supplier to within 10m	A14NW (NE)	465	1	445680 241790
7	Discharge Consent: Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:		A19SW (NE)	535	1	445610 241930
7	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Limited. Water Treatment Works Settled Discharge, Grimsbury Water Works, Banbury, Oxfordshire Environment Agency, Thames Region Not Given CNTM.0669 2 5th November 1998 19th January 1993 31st December 2009 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Waterworks Ditch Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A19SW (NE)	535	1	445610 241930
7	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Limited. Water Treatment Works Settled Discharge, Grimsbury Water Works, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cntm.0669 1 19th January 1993 19th January 1993 4th November 1998 Trade Discharges - Process Effluent - Water Company (Wtw) Ditch Waterworks Ditch New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A19SW (NE)	535	1	445610 241930



Page 5 of 57

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Direct Discharge, Grimsbury Water Treatment Works, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cntw.0231 1 16th January 1990 16th January 1990 18th January 1993 Trade Effluent Freshwater Stream/River Grimsbury Reservoir O/F Stream Authorisation revokedRevoked Located by supplier to within 10m	A14NE (E)	589	1	445870 241740
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Limited. Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Given CNTM.0670 1 19th January 1993 19th January 1993 4th November 1998 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Grimsbury Resevoir O/FI Stream New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 100m	A19SE (NE)	595	1	445830 241815
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Limited. Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cntm.0670 3 1st January 2010 25th September 2009 Not Supplied Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Grimsbury Resevoir O/FI Stream Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A19SE (NE)	598	1	445830 241820
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Given Cntm.1236 1 24th December 1993 24th December 1993 12th January 1996 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Grimsbury Reservoir O/F Stream Authorisation revokedRevoked Located by supplier to within 10m	A19SE (NE)	598	1	445830 241820



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Given Cntm.0995 1 23rd July 1993 23rd July 1993 8th February 1996 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Grimsbury Reservoir O/FI Str. Authorisation revokedRevoked Located by supplier to within 100m	A19SE (NE)	598	1	445830 241820
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Limited. Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cntm.0670 2 5th November 1998 19th January 1993 31st December 2009 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Grimsbury Resevoir O/FI Stream Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A19SE (NE)	598	1	445830 241820
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cntm.0668 1 19th January 1993 19th January 1993 7th February 1993 Unknown Freshwater Stream/River Grimsbury Resevoir O/FI Stream New Consent, by Application (Water Resources Act 1991, Section 88) Located by supplier to within 10m	A19SE (NE)	598	1	445830 241820
9	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Water Treatment Works Grimsbury Water Treatment Works, Hennef Way, Banbury, Oxfordshire Environment Agency, Thames Region Not Given CNTM.0668 2 8th February 1993 19th January 1993 30th July 1993 Trade Discharges - Process Effluent - Water Company (Wtw) Freshwater Stream/River Grimsbury Resevoir O/FI Stream Authorisation revokedRevoked Located by supplier to within 10m	A19SE (NE)	602	1	445835 241820



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	Discharge Consents Operator:	s Thames Water Utilities Limited.	A14NE	611	1	445920
	Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Sewage Disposal Works - Water Company Banbury Stw, Spital Farm, Banbury, Oxfordshire, Ox16 8rz Environment Agency, Thames Region Not Supplied Cntd.0021 10 20th October 2010 20th October 2010 Not Supplied Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River River Cherwell Varied under EPR 2010	(E)			241690
	,	Located by supplier to within 10m				
10	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment:	Thames Water Utilities Limited. Sewage Disposal Works - Water Company Banbury Stw, Spital Farm, Banbury, Oxfordshire, Ox16 8rz Environment Agency, Thames Region Not Supplied Cntd.0021 9 1st April 2010 1st April 2010 19th October 2010 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River	A14NE (E)	611	1	445920 241690
	Receiving Water: Status:	River Cherwell Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m				
	· -	,				
10	Discharge Consents Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy: Discharge Consents	Thames Water Utilities Limited. Sewage Disposal Works - Water Company Banbury Stw, Spital Farm, Banbury, Oxfordshire, Ox16 8rz Environment Agency, Thames Region Not Supplied Cntd.0021 8 1st April 2009 28th January 2009 31st March 2010 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River River Cherwell Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A14NE (E)	611	1	445920 241690
10	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Thames Water Utilities Limited. Sewage Disposal Works - Water Company Banbury Stw, Spital Farm, Banbury, Oxfordshire, Ox16 8rz Environment Agency, Thames Region Not Supplied Cntd.0021 7 25th September 2008 21st December 2000 31st March 2009 Sewage Discharges - Final/Treated Effluent - Water Company Freshwater Stream/River River Cherwell Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A14NE (E)	611	1	445920 241690



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Discharge Consent	s				
11	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Type: Discharge Type: The Comment: Discharge Type: Discharge	C.Sec Of Thames Water Utilities Ltd Water Treatment Works Reservoir Outfall Grimsbury Water Treatment Works, Grimsbury Green, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cawm.0824 2 1st January 2010 25th September 2009 Not Supplied Trade Discharge - Process Water Lake/Reservoir - with outlet Grimsbury Reservoir New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A19SE (NE)	628	1	445810 241890
		,				
11	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy: Discharge Consent	C.Sec Of Thames Water Utilities Ltd Water Treatment Works Reservoir Outfall Grimsbury Water Treatment Works, Grimsbury Green, Banbury, Oxfordshire Environment Agency, Thames Region Not Supplied Cawm.0824 1 16th August 2004 10th November 2004 31st December 2009 Trade Discharges - Process Effluent - Water Company (Wtw) Lake/Reservoir - with outlet Grimsbury Reservoir New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A19SE (NE)	628	1	445810 241890
12	Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status:	Sanctus Limited General Construction Work Spiceball Park Cherwell Street Banbury Oxfordshire Ox16 2bb Ox16 2bb Environment Agency, Thames Region Cherwell and Ray (Oxon) Cawm.1576 1 22nd January 2008 10th December 2007 8th December 2009 Sewage And Trade Combined - Unspecified Freshwater Stream/River The River Cherwell Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Located by supplier to within 10m	A9NE (SE)	738	1	445898 240874
13	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Sewerage Network - Sewers - Water Company Fergusson Road, Banburyfergusson Roadbanbury Environment Agency, Thames Region Not Supplied Temp.2606 2 3rd September 2010 3rd September 2010 Not Supplied Public Sewage: Storm Sewage Overflow Freshwater Stream/River Cherwell Varied under EPR 2010 Located by supplier to within 10m	A15SW (E)	833	1	446160 241200



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Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
13	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Thames Water Utilities Ltd Sewerage Network - Sewers - Water Company Fergusson Road, Banburyfergusson Roadbanbury Environment Agency, Thames Region Not Supplied Temp.2606 1 2nd November 1989 2nd November 1989 2nd November 1989 2nd September 2010 Public Sewage: Storm Sewage Overflow Freshwater Stream/River Cherwell Temporary Consents (Water Act 1989, Section 113) Located by supplier to within 10m	A15SW (E)	833	1	446160 241200
14	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Laser Lines Ltd. Undefined Or Other Premises, Beaumont Close, Southam Road, Banbury, Oxon Environment Agency, Thames Region Not Given CTCR.2232 2 30th October 1991 29th January 1985 Not Supplied Trade Discharges - Cooling Water Freshwater Stream/River Hanwell Brook Varied by Application - (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Located by supplier to within 100m	A19NW (N)	922	1	445500 242400
14	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Laser Lines Ltd. Undefined Or Other Premises, Beaumont Close, Southam Road, Banbury, Oxon Environment Agency, Thames Region Not Supplied Ctcr.2232 1 29th January 1985 29th January 1985 29th October 1991 Trade Discharges - Cooling Water Freshwater Stream/River Hanwell Brook Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Located by supplier to within 100m	A19NW (N)	922	1	445500 242400
15	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Mr Malcolm Weblin Domestic Property (Multiple) 1, 2, 3 Hardwick Cottages, Southam Road, Banbury, Oxon Environment Agency, Thames Region Not Given CTCU.1217 1 1st October 1982 1st October 1982 1oth August 2006 Sewage Discharges - Final/Treated Effluent - Not Water Company Into Land Soil Overlying Clay Strata Transferred from Water Resources Act 1963 Located by supplier to within 100m	A19NW (NE)	963	1	445600 242400



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Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
15	Discharge Consent Operator: Property Type: Location: Authority: Catchment Area: Reference: Permit Version: Effective Date: Issued Date: Revocation Date: Discharge Type: Discharge Environment: Receiving Water: Status: Positional Accuracy:	Mr Malcolm Weblin Domestic Property (Multiple) 1, 2, 3 Hardwick Cottages, Southam Road, Banbury, Oxon Environment Agency, Thames Region Not Supplied Ctcu.1217 2 13th July 2006 1st October 1982 31st March 2019 Sewage Discharges - Final/Treated Effluent - Not Water Company Into Land Soil Overlying Clay Strata Transferred from Water Resources Act 1963 Located by supplier to within 100m	A19NW (NE)	963	1	445600 242400
16	Integrated Pollution Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Kraft Foods Uk Ltd Ruscote Avenue, BANBURY, Oxfordshire, OX16 2QU Environment Agency, Thames Region BH2286 18th February 2000 IPC new application 1.3 A (C) Combustion processes within the Fuel & Power Industry Revoked - Now IPPC Automatically positioned to the address	A13NE (NE)	90	1	445232 241592
17	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code:	Revention And Control Kraft Foods Uk Production Limited Combustion Plant, Banbury, Kraft Foods Uk Limited, Ruscote Avenue,,Banbury, Oxon, OX16 2QU Environment Agency, Thames Region PP3533KB Pp3533KB Pp3533kb 5th October 2009 Effective Transfer Whole limited change in management Automatically positioned to the address 1.1 A(1) (B) (III) Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Y	A13NE (NE)	90	1	445232 241592
17	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code:	Prevention And Control Kraft Foods Uk Ltd Ruscote Avenue, BANBURY, Oxfordshire, OX16 2QU Environment Agency, Thames Region RP3839LJ Rp3839LJ 29th March 2007 Superseded By Variation Application New Automatically positioned to the address 1.1 A(1) (B) (III) Combustion; Waste Derived Fuel Greater Or Equal To 3Mw But Less Than 50Mw Y	A13NE (NE)	90	1	445232 241592
18	Name: Location: Authority: Permit Reference: Original Permit Ref: Effective Date: Status: Application Type: App. Sub Type: Positional Accuracy: Activity Code: Activity Description: Primary Activity: Activity Code:	n Prevention And Control Silver Group Fuels Limited Banbury Biodiesel, Former Banbury Laboratory, Southam Road,,, Banbury, Oxfordshire, OX16 2SP Environment Agency, Thames Region DP3034MG Dp3034mg 27th June 2007 Superseded By Variation Application New Manually positioned to the road within the address or location 4.1 A(1) (A) (II) Organic Chemicals; Oxygen Containing Compounds Eg Alcohols Y 0.0 Associated Process Associated Process N	A14NW (NE)	228	1	445481 241649



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	lution Prevention and Controls Hartwell Of Banbury Southam Road, Banbury, Oxfordshire, OX16 7RU Cherwell District Council, Environmental Health Department CDC/98/25 24th December 1998 Local Authority Air Pollution Control PG1/14 Petrol filling station Authorisation revokedRevoked Manually positioned to the address or location	A13SE (SE)	72	2	445375 241296
19	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	lution Prevention and Controls Hartwell of Banbury Southam Road, BANBURY, Oxfordshire, OX16 7RU Cherwell District Council, Environmental Health Department CDC18/93 15th December 1993 Local Authority Air Pollution Control PG1/14 Petrol filling station Authorisation revokedRevoked Manually positioned to the address or location	A13SE (SE)	84	2	445399 241330
20	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Iution Prevention and Controls Stabilus Ltd Beaumont Road, BANBURY, Oxfordshire, OX16 1QY Cherwell District Council, Environmental Health Department Cdc/3/00 31st October 2000 Local Authority Air Pollution Control PG6/23 Coating of metal and plastic Authorisation revokedRevoked Manually positioned to the address or location	A13NW (NW)	121	2	444960 241713
20	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Iution Prevention and Controls Demag Cranes And Components Ltd Beaumont Road, Banbury, Oxfordshire, Ox16 1qz Cherwell District Council, Environmental Health Department CDC31/93 14th December 1993 Local Authority Pollution Prevention and Control PG6/23 Coating of metal and plastic Permitted Manually positioned to the address or location	A13NW (NW)	148	2	444935 241728
21	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Bristol Street Motors Ltd Southam Road, BANBURY, Oxon, OX16 2RS Cherwell District Council, Environmental Health Department CDC P 14/93 22nd October 1993 Local Authority Air Pollution Control PG6/34 Respraying of road vehicles Authorised Automatically positioned to the address	A13NE (E)	123	2	445458 241522
22	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Smiths Concrete Southam Road, Banbury, Oxon, OX16 7RR Cherwell District Council, Environmental Health Department CDC6/93 1st October 1993 Local Authority Air Pollution Control PG3/1Blending, packing, loading and use of bulk cement Authorised Manually positioned to the address or location	A14NW (NE)	278	2	445561 241644
23	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Reids Dry Cleaners 2a Cope Road, Banbury, Oxfordshire, OX16 2EH Cherwell District Council, Environmental Health Department CDC P 04/05 1st November 2007 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Manually positioned to the address or location	A8NE (S)	334	2	445325 240979



Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
24	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Iution Prevention and Controls Spirit Motor Co 9-16 Southam Road, BANBURY, Oxfordshire, OX16 2EE Cherwell District Council, Environmental Health Department CDC P 5/95 7th September 1995 Local Authority Air Pollution Control PG6/34 Respraying of road vehicles Authorised Automatically positioned to the address	A8NE (SE)	464	2	445386 240855
25	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Iution Prevention and Controls Tescos Banbury Lockheed Close, BANBURY, Oxfordshire, OX16 1LX Cherwell District Council, Environmental Health Department CDC/98/1 27th October 1998 Local Authority Air Pollution Control PG1/14 Petrol filling station Authorised Automatically positioned to the address	A18SE (NE)	481	2	445378 241960
26	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Iution Prevention and Controls Cockhorse Service Station 98 Warwick Road, Banbury, Oxfordshire, Ox16 7ah Cherwell District Council, Environmental Health Department CDC/98/19 31st December 1998 Local Authority Air Pollution Control PG1/14 Petrol filling station Authorised Manually positioned to the road within the address or location	A8NW (S)	490	2	445025 240862
26	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	lution Prevention and Controls Hartford Banbury Warwick Road, BANBURY, Oxfordshire, OX16 7AH Cherwell District Council, Environmental Health Department Cdc20/93 15th December 1993 Local Authority Air Pollution Control PG6/10 Coating manufacturing Authorisation revokedRevoked Manually positioned to the road within the address or location	A8NW (S)	506	2	445041 240846
27	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Lafarge Heneff Way, BANBURY, Oxfordshire, OX16 7JJ Cherwell District Council, Environmental Health Department Cdc1/93 12th March 1993 Local Authority Air Pollution Control PG3/1Blending, packing, loading and use of bulk cement Authorised Automatically positioned to the address	A19SW (NE)	532	2	445727 241838
27	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	lution Prevention and Controls Lafarge Aggregates Ltd Heneff Way, BANBURY, Oxon, OX16 5LN Cherwell District Council, Environmental Health Department CDC11/93 15th June 1993 Local Authority Air Pollution Control PG3/15 Mineral drying and roadstone coating processes Authorised Manually positioned to the address or location	A19SW (NE)	539	2	445733 241842
28	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Jution Prevention and Controls Johnson Cleaners Uk Ltd 47c Castle Street, Banbury, Ox16 5nu Cherwell District Council, Environmental Health Department CDC P 01/10 Not Supplied Local Authority Air Pollution Control PG6/46 Dry cleaning Application Not Yet Authorised Manually positioned to the address or location	A9NW (SE)	549	2	445498 240798

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Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Decoma Exterior Systems Uk Ltd Beaumont Road, Banbury, Oxon, Ox16 1tr Cherwell District Council, Environmental Health Department CDC P 30/93 14th December 1993 Local Authority Air Pollution Control PG6/23 Coating of metal and plastic Authorised Manually positioned to the address or location	A18SE (NE)	597	2	445424 242069
	Local Authority Poll	lution Prevention and Controls				
30	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Caradon Rolinx Unit 2 Beaumont Road Industrial Estate, BANBURY, Oxon, OX16 7RH Cherwell District Council, Environmental Health Department Cdc29/93 14th December 1993 Local Authority Air Pollution Control PG6/10 Coating manufacturing Authorised Manually positioned to the road within the address or location	A18NE (N)	660	2	445297 242211
		lution Prevention and Controls				
31	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Quality Cleaners Banbury Ltd 3 Cornhill House, Banbury, Ox16 5ng Cherwell District Council, Environmental Health Department CDCP04/07 1st March 2008 Local Authority Pollution Prevention and Control PG6/46 Dry cleaning Permitted Manually positioned to the address or location	A9SW (SE)	696	2	445608 240686
	Local Authority Poll	lution Prevention and Controls				
32	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Toggs Of Banbury 19 Bridge Street, Banbury, Oxfordshire, OX16 5PN Cherwell District Council, Environmental Health Department CDC P 05/05 10th November 2007 Local Authority Air Pollution Control PG6/46 Dry cleaning Permitted Manually positioned to the address or location	A9SE (SE)	913	2	445848 240579
	Local Authority Poll	lution Prevention and Controls				
33	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status: Positional Accuracy:	Wm Morrison Supermarket Cherwell Service Station, Cherwell Street, BANBURY, Oxfordshire, OX16 2BB Cherwell District Council, Environmental Health Department Petrol 23 Fpi4b 7th January 1999 Local Authority Air Pollution Control PG1/14 Petrol filling station Authorised Automatically positioned to the address	A9SE (SE)	992	2	445903 240521
	Nearest Surface Wa	ter Feature	V43VIV41	0		445000
			A13NW (NW)	U	-	445028 241563
34	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 30th June 1995 W1950345 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A13NW (W)	0	1	445001 241501

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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 14th October 1992 W1920522 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A13NW (NW)	9	1	445001 241601
36	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Unknown Sewage Confirmed As A Pollution Incident 22nd January 1990 W1900029 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A13NE (E)	15	1	445300 241495
36	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Unknown Sewage Confirmed As A Pollution Incident 7th March 1990 W1900117 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A13NE (E)	18	1	445305 241495
36	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 3rd January 1989 W1890027 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A13NE (E)	20	1	445300 241500
37	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Other Not Supplied 4th September 1998 THWE1998040520 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A13SE (E)	52	1	445400 241400
38	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 16th September 1992 W1920479 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A13NE (E)	62	1	445400 241500



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	Pollution Incidents Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Unknown Sewage Not Supplied 18th September 1990 W1900493 Not Given	A13SW (SW)	63	1	445001 241301
	Receiving Water: Cause of Incident: Incident Severity: Positional Accuracy:	Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m				
39	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 15th June 1993 W1930331 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A13SW (SW)	67	1	445001 241296
40	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Not Supplied 12th August 1996 W1960372 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NW (E)	150	1	445500 241500
41	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 20th March 1989 W1890160 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A18SW (N)	192	1	445001 241801
42	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed incident 20th May 1999 THWE1999043286 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 10m	A14NW (NE)	281	1	445500 241700
43	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Grimsbury Water Works Environment Agency, Thames Region Chemicals - Unknown Confirmed As A Pollution Incident 15th January 1990 W1900033 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NW (NE)	345	1	445600 241700



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
44	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Not Supplied 2nd February 1996 W1960103 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A18SW (N)	391	1	445001 242001
45	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Chemicals - Unknown Confirmed As A Pollution Incident Not Supplied W1910252 Not Given Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	420	1	445600 241800
46	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 21st October 1991 W1910457 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NW (E)	442	1	445800 241500
47	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident Not Supplied W1950032 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	458	1	445500 241900
48	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 9th March 1993 W1930133 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NW (NE)	483	1	445700 241795
48	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 29th July 1992 W1920450 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	486	1	445700 241800



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
49	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Urban Runoff Confirmed As A Pollution Incident 20th August 1993 W1930459 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NW (E)	506	1	445800 241695
49	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Upstream Grimsbury Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 23rd December 1992 W1920644 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NW (E)	509	1	445800 241700
50	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region General Not Supplied 27th October 1998 THWE1998041159 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A18SE (NE)	519	1	445400 241995
50	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 11th January 1991 W1910012 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A18SE (NE)	524	1	445400 242000
51	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Storm Sewage Not Supplied 25th November 1998 THWE1998041450 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9NW (SE)	536	1	445700 240950
52	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 18th July 1993 W1930414 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NE (E)	541	1	445900 241500



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	Pollution Incidents Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Chemicals - Unknown Confirmed As A Pollution Incident 25th May 1994 W1940289 Not Given Not Given Not Given Category 3 - Minor Incident	A14NE (E)	560	1	445900 241595
	Positional Accuracy:	Located by supplier to within 100m				
53	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Daventry Road Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 18th May 1993 W1930272 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NE (E)	561	1	445900 241600
53	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Wildmere Road Environment Agency, Thames Region Miscellaneous - Urban Runoff Confirmed As A Pollution Incident 12th May 1995 W1950257 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NE (E)	565	1	445905 241595
53	Pollution Incidents Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Wildmere Road, BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 13th July 1995	A14NE (E)	566	1	445905 241600
53	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Urban Runoff Confirmed As A Pollution Incident 3rd August 1995 W1950431 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A14NE (E)	567	1	445905 241605
54	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed incident 9th January 1999 THWE1999042193 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 10m	A19SW (NE)	561	1	445700 241900



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 18th November 1989 W1890575 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9NW (SE)	586	1	445800 241000
55	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 3rd August 1995 W1950411 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9NW (SE)	588	1	445800 240995
55	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed incident 9th April 1999 THWE1999042630 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 10m	A9NE (SE)	590	1	445805 241000
55	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Storm Sewage Confirmed incident 29th March 1999 THWE1999042406 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 10m	A9NE (SE)	593	1	445805 240995
56	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 23rd August 1993 W1930455 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	587	1	445600 241995
56	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Beaumont Road, BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 14th October 1993 W1930531 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	590	1	445605 241995



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
56	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 4th July 1992 W1920354 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19SW (NE)	592	1	445600 242000
57	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Urban Runoff Confirmed As A Pollution Incident 30th July 1990 W1900409 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9NW (SE)	591	1	445600 240800
58	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Natural Not Supplied 15th April 1991 W1910152 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NE (E)	595	1	445900 241695
58	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 16th July 1993 W1930392 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NE (E)	600	1	445905 241695
58	Pollution Incidents Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity: Positional Accuracy:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Agricultural: Unknown Not Supplied Not Supplied W1960101 Not Given Not Given Not Given Category 3 - Minor Incident Unknown	A14NE (E)	600	1	445900 241705
58	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Urban Runoff Confirmed As A Pollution Incident 27th August 1993 W1930468 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A14NE (E)	602	1	445905 241700



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 22nd September 1993 W1930502 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A14NE (E)	604	1	445905 241705
59	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 1st November 1994 W1940592 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A12NW (W)	598	1	444300 241500
60	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown No 26th June 1990 W1900349 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A9NW (SE)	647	1	445700 240800
61	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Not Supplied 4th November 1998 THWE1998041163 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A18NE (N)	699	1	445400 242200
62	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Natural Confirmed As A Pollution Incident 13th September 1989 W1890461 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A9NW (SE)	713	1	445800 240800
63	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 22nd January 1991 W1910032 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SW (SE)	788	1	445800 240700



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Banbury Bus Station Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 13th October 1993 W1930544 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SW (SE)	792	1	445800 240695
64	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 30th March 1993 W1930178 Not Given Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A8SW (S)	851	1	445001 240501
64	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident Not Supplied W1920016 Not Given Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A8SW (S)	856	1	445001 240496
65	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	Not Given BANBURY Environment Agency, Thames Region Chemicals - Unknown No Pollution Found 15th January 1998 37659 Not Given Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SE (SE)	854	1	445905 240705
65	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Banbury Lock Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 19th October 1990 W1900541 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A9SE (SE)	854	1	445900 240700
65	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Not Supplied 21st October 1990 W1900531 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SE (SE)	858	1	445900 240695



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
65	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident Not Supplied W1930493 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SE (SE)	858	1	445905 240700
65	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given Banbury Lock, BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 24th October 1995 W1950566 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SE (SE)	861	1	445905 240695
66	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Unknown Sewage Confirmed As A Pollution Incident 21st April 1995 W1950208 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9NE (SE)	864	1	446000 240800
67	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Oils - Unknown Confirmed As A Pollution Incident 6th December 1989 W1890603 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A19NW (N)	918	1	445500 242395
67	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown No 25th June 1990 W1900348 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A19NW (N)	920	1	445505 242395
67	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Unknown Sewage Confirmed As A Pollution Incident Not Supplied W1890604 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A19NW (N)	925	1	445505 242400



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Chemicals - Unknown Not Supplied 15th December 1997 38144 Not Given Not Given Not Given Category 2 - Significant Incident Located by supplier to within 100m	A19NW (NE)	958	1	445600 242395
69	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Miscellaneous - Unknown Confirmed As A Pollution Incident 25th June 1990 W1900346 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SE (SE)	995	1	446000 240600
69	Property Type: Location: Authority: Pollutant: Note: Incident Date: Incident Reference: Catchment Area: Receiving Water: Cause of Incident: Incident Severity:	to Controlled Waters Not Given BANBURY Environment Agency, Thames Region Other Sewage Not Supplied 9th April 1998 38746 Not Given Not Given Not Given Category 3 - Minor Incident Located by supplier to within 100m	A9SE (SE)	999	1	446000 240595
70	Location: Prosecution Text: Prosecution Act: Hearing Date: Verdict: Fine: Cost:	ing to Controlled Waters Southam Road, BANBURY, Oxfordshire, OX16 7RR NRA Thames Data, 2 charges of breaching consent conditions by discharging efluent into Smith's Ditch on 1st October 1991. WA89 s107(6) 3rd July 1992 Guilty 3000 290 Manually positioned to the road within the address or location	A13SE (SE)	82	1	445306 241230
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Oxford Canal (Upper) River Quality D Alcan Intake - Cherwell At Aynho X-Over 11.8 Flow greater than 80 cumecs Canal 2000	A14NW (E)	251	1	445563 241606
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Cherwell River Quality B Banbury Water Intake - Banbury Stw 3.1 Flow less than 1.25 cumecs River 2000	A14SE (E)	477	1	445818 241295
	River Quality Name: GQA Grade: Reach: Estimated Distance (km): Flow Rate: Flow Type: Year:	Cherwell River Quality B Source - Banbury Water Intake 34 Flow less than 1.25 cumecs River 2000	A14NE (E)	614	1	445916 241706



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		(Compass Direction)	Distance From Site	Contact	NGR
River Quality	Harry II Di	A 4 ON 11 A /	750	4	445007
Name: GQA Grade: Reach: Estimated Distance	Hanwell Bk River Quality A Avon Dassett - Oxford Canal	A19NW (NE)	752	1	445607 242174
(km): Flow Rate:	Flow less than 0.31 cumecs				
Flow Type: Year:	River 2000				
River Quality Chemi	istry Sampling Points				
Name: Reach:	Cherwell Source To Banbury Water Intake	A19SE (NE)	698	1	445927 241855
Estimated Distance: Objective:	Not Supplied				
Year:	Located by supplier to within 10m 1990				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade D - Fair Not Supplied				
Year: GQA Grade:	1993 River Quality Chemistry GQA Grade B - Good				
Compliance: Year:	Not Supplied 1994 Private Quality Chamistry COA Crade B. Cood				
GQA Grade: Compliance: Year:	River Quality Chemistry GQA Grade B - Good Not Supplied 1995				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade B - Good Not Supplied				
Year: GQA Grade:	1996 River Quality Chemistry GQA Grade D - Fair				
Compliance: Year:	Not Supplied 1997				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade E - Poor Not Supplied				
Year: GQA Grade:	1998 River Quality Chemistry GQA Grade E - Poor				
Compliance: Year:	Not Supplied 1999				
GQA Grade: Compliance: Year:	River Quality Chemistry GQA Grade D - Fair Not Supplied 2000				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade B - Good Not Supplied				
Year: GQA Grade:	2001 River Quality Chemistry GQA Grade B - Good				
Compliance: Year:	Not Supplied 2002				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade B - Good Not Supplied				
Year: GQA Grade:	2003 River Quality Chemistry GQA Grade B - Good				
Compliance: Year:	Not Supplied 2004				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade C - Fairly Good Not Supplied				
Year: GQA Grade:	2005 River Quality Chemistry GQA Grade C - Fairly Good				
Compliance: Year: GQA Grade:	Not Supplied 2006 River Quality Chemistry GQA Grade D - Fair				
Compliance: Year:	Not Supplied 2007				
GQA Grade: Compliance:	2007 River Quality Chemistry GQA Grade D - Fair Not Supplied				
Year: GQA Grade:	2008 River Quality Chemistry GQA Grade C - Fairly Good				
Compliance: Year:	Not Supplied 2009				
GQA Grade: Compliance:	River Quality Chemistry GQA Grade B - Good Not Supplied				
Substantiated Pollu	tion Incident Register				
Authority: Incident Date: Incident Reference:	Environment Agency - Thames Region, West Area 22nd April 2009 672600	A19SW (NE)	527	1	445722 241836
Water Impact: Air Impact:	Category 1 - Major Incident Category 4 - No Impact				
Land Impact:	Category 4 - No Impact Located by supplier to within 10m Inorganic Chemicals : Other				



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 31st October 2008 Incident Reference: 631976 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Inorganic Chemicals: Other	A19SW (NE)	531	1	445726 241838
72	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 8th June 2009 Incident Reference: 686024 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Pollutant: Located by supplier to within 10m Inorganic Chemicals: Other	A19SW (NE)	534	1	445726 241842
72	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 6th April 2009 Incident Reference: 668067 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Pollutant: Located by supplier to within 10m Inorganic Chemicals: Other	A19SW (NE)	536	1	445729 241841
72	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 13th March 2009 Incident Reference: 661063 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Inorganic Chemicals: Other	A19SW (NE)	536	1	445729 241841
73	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 25th April 2006 Incident Reference: 393532 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 100m Agricultural Materials And Wastes: Other Agricultural Mate	A19SW (NE)	562	1	445800 241800
73	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 25th March 2008 Incident Reference: 573162 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Pollutant: Located by supplier to within 10m Organic Chemicals/Products: Pesticides And Biocides	A19SE (NE)	591	1	445822 241819
73	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 21st December 2007 Incident Reference: 552216 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Organic Chemicals/Products: Pesticides And Biocides	A19SE (NE)	614	1	445834 241841
74	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, West Area Incident Date: 26th September 2005 Incident Reference: 349162 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m General Biodegradable Materials And Wastes: Food And Dellutant: Oils - Diesel (Including Agricultural)	A9NW (SE)	586	1	445802 241003



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact:	Ition Incident Register Environment Agency - Thames Region, West Area 20th May 2005 314086 Category 1 - Major Incident Category 4 - No Impact Category 4 - No Impact Located by supplier to within 10m Organic Chemicals/Products: Pesticides And Biocides	A19SE (NE)	680	1	445870 241900
	Substantiated Pollu	ition Incident Register				
76	Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact: Positional Accuracy: Pollutant:	Environment Agency - Thames Region, West Area 25th November 2008 636907 Category 1 - Major Incident Category 4 - No Impact Category 4 - No Impact Located by supplier to within 10m Organic Chemicals/Products: Pesticides And Biocides	A19SE (NE)	698	1	445923 241861
76	Authority: Incident Date: Incident Reference: Water Impact: Air Impact: Land Impact:	Ition Incident Register Environment Agency - Thames Region, West Area 5th December 2008 639426 Category 1 - Major Incident Category 4 - No Impact Category 4 - No Impact Located by supplier to within 10m Organic Chemicals/Products: Pesticides And Biocides	A19SE (NE)	705	1	445923 241873
77	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Thames Water Utilities Ltd 28/39/14/0240 100 Grimsbury Mill Point 'A' - River Cherwell Environment Agency, Thames Region Public Water Supply: Potable Water Supply - Direct Water may be abstracted from a single point Surface 35459 3636800 Not Supplied 01 January 31 December 13th November 1967 Not Supplied Located by supplier to within 100m	A14NE (E)	597	1	445900 241700
78	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	P M & S M Donger 28/39/14/0229 Not Supplied Hanwell Fields Farm, BANBURY, Oxfordshire Environment Agency, Thames Region Private Water Supplies (Domestic) Not Supplied Groundwater 1 399 Middle Lias; Status: Revoked; Lapsed Or Cancelled Not Supplied Located by supplier to within 100m	A17NE (NW)	762	1	444700 242300
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date: Positional Accuracy:	Thames Water Utilities Ltd 28/39/14/0240 100 Grimsbury Mill Point 'B' - River Cherwell Environment Agency, Thames Region Public Water Supply: Potable Water Supply - Direct Water may be abstracted from a single point Surface Not Supplied Not Supplied Not Supplied Not Supplied 13 January 13 December 13th November 1967 Not Supplied Located by supplier to within 10m	A19NE (NE)	1124	1	446100 242300



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Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date:	British Waterways Board 28/39/14/0273 101 Oxford Canal At Banbury Environment Agency, Thames Region Other Industrial/Commercial/Public Services: General Use (Low Loss) Water may be abstracted from a single point Surface Not Supplied Not Supplied Banbury, Oxford 01 January 31 December 17th December 2007 Not Supplied	A25SW (NE)	1420	1	446200 242600
	Positional Accuracy: Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised Start: Authorised End: Permit Start Date: Permit End Date:	Located by supplier to within 100m	A25SW (NE)	1420	1	446200 242600
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date:	,	A16NW (NW)	1477	1	443600 242200
	Water Abstractions Operator: Licence Number: Permit Version: Location: Authority: Abstraction Type: Source: Daily Rate (m3): Yearly Rate (m3): Details: Authorised Start: Authorised End: Permit Start Date: Permit End Date:		A24NE (NE)	1666	1	446000 243000
	Groundwater Vulne Soil Classification: Map Sheet: Scale:		A13SE (SE)	0	1	445266 241347
	Groundwater Vulne Soil Classification: Map Sheet: Scale:	Not classified Sheet 30 Northern Cotswolds 1:100,000	A13SE (N)	0	1	445133 241452



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Drift Deposits				
	None				
	Bedrock Aquifer Designations				
	Aquifer Desination: Unproductive Strata	A13SE (N)	0	3	445133 241452
	Bedrock Aquifer Designations				
	Aquifer Desination: Unproductive Strata	A13SW (W)	0	3	445000 241452
	Superficial Aquifer Designations				
	No Data Available				
	Extreme Flooding from Rivers or Sea without Defences				
	None				
	Flooding from Rivers or Sea without Defences				
	None				
	Areas Benefiting from Flood Defences				
	None				
	Flood Water Storage Areas				
	None				
	Flood Defences				
	None				



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Map ID	Details		Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Historical Landfill S	tites				
79	Licence Holder: Location: Name: Operator Location: Boundary Accuracy: Provider Reference: First Input Date: Last Input Date: Specified Waste Type: EA Waste Ref: Regis Ref: WRC Ref: BGS Ref: Other Ref:		A9NE (SE)	600	1	445843 241048
80	Name: Location: Authority: Permit Reference: Dated: Process Type: Description: Status:	Redland Aggregates Ltd Water Works Road, Off Hennef Road, BANBURY, Oxfordshire, OX16 7JJ Environment Agency, Midlands Region AG5749 8th October 1993 Application since found to be exempt from IPC 5.2 A Recovery processes within the Waste Disposal Industry Application since found to be exempt from IPCExempt Automatically positioned to the address	A19SW (NE)	532	1	445727 241838
	Local Authority Lan					
	Name:	Cherwell District Council - Has supplied landfill data		0	2	445133 241452
	Local Authority Landfill Coverage					
	Name:	Oxfordshire County Council - Has supplied landfill data		0	6	445133 241452
	Local Authority Red	corded Landfill Sites				
81	Location: Reference: Authority: Last Reported Status: Types of Waste:	Spiceball Park 29 Cherwell District Council, Environmental Health Department Unknown Paper, Bricks, Concrete And Domestic	A9NE (SE)	600	2	445839 241040
	Date of Closure:	Not Supplied Positioned by the supplier Moderate				





/lap ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	BGS Recorded Mineral Sites Site Name: Hennef Way Rail Depot Location: Hennef Way, Banbury, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 13623 Type: Rail Depot Status: Active Operator: Lafarge Aggregates Ltd Operator Location: Periodic Type: Not Available Not Available	A14NE (E)	782	3	446100 241700
	Geology: Quarry (Hard Rock) Commodity: Crushed Rock Positional Accuracy: Located by supplier to within 100m BGS 1:625,000 Solid Geology				
	Description: Lower Lias	A13SE (N)	0	3	445133 241452
	Coal Mining Affected Areas In an area which may not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	3	445000 241452
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	445133 241452
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	18	3	445325 241315
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	3	44500 24145
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	44513 24145
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	18	3	44532 24131
	Potential for Ground Dissolution Stability Hazards No Hazard				
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	3	44500 24145
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	44513 24145
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	3	44500 24145
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	44513 24145
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	18	3	44532 24131
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	3	44500 24145
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (N)	0	3	44513 24145
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	3	44492 24145



Geological

Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Radon Potential - R	adon Affected Areas				
	Affected Area:	The property is in a radon affected area, as between 1 and 3% of homes are above the action level	A13SW (W)	0	3	445000 241452
	Source:	British Geological Survey, National Geoscience Information Service				
	Radon Potential - R	adon Affected Areas				
	Affected Area:	The property is in a radon affected area, as between 1 and 3% of homes are above the action level	A13SE (N)	0	3	445133 241452
	Source:	British Geological Survey, National Geoscience Information Service				
	Radon Potential - R	adon Protection Measures				
	Protection Measure:	No radon protective measures are necessary in the construction of new dwellings or extensions	A13SW (W)	0	3	444925 241452
	Source:	British Geological Survey, National Geoscience Information Service				
	Radon Potential - R	adon Protection Measures				
	Protection Measure:	No radon protective measures are necessary in the construction of new dwellings or extensions	A13SW (W)	0	3	445000 241452
	Source:	British Geological Survey, National Geoscience Information Service	, ,			
	Radon Potential - R	adon Protection Measures				
	Protection Measure:	No radon protective measures are necessary in the construction of new dwellings or extensions	A13SE (N)	0	3	445133 241452
	Source:	British Geological Survey, National Geoscience Information Service				



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Contemporary Trad	le Directory Entries				
83	Name: Location: Classification: Status: Positional Accuracy:	Comet Group Plc Ruscote Avenue, Banbury, Oxfordshire, OX16 2GU Electrical Goods Sales, Manufacturers & Wholesalers Inactive Automatically positioned to the address	A13NW (NW)	51	-	444913 241579
	Contemporary Trad	le Directory Entries				
84	Name: Location: Classification: Status:	Hartwell Ford Banbury Southam Road, Banbury, Oxfordshire, OX16 2AD Car Dealers Inactive Automatically positioned to the address	A13SE (SE)	73	-	445375 241295
	Contemporary Trad	le Directory Entries				
84	Name: Location: Classification: Status: Positional Accuracy:	Hartwell Southam Rd, Banbury, Oxfordshire, OX16 2AD Car Dealers Inactive Manually positioned within the geographical locality	A13SE (SE)	73	1	445375 241295
	Contemporary Trad	le Directory Entries				
84	Name: Location: Classification: Status: Positional Accuracy:	Hartwell Ford Southam Road, Banbury, Oxfordshire, OX16 2AD Car Dealers Active Automatically positioned to the address	A13SE (SE)	73	-	445375 241295
	Contemporary Trad	le Directory Entries				
85	Name: Location: Classification: Status:	Mantron Cherwell Business Village,Southam Rd, Banbury, Oxfordshire, OX16 2SP Engineers - General Inactive Manually positioned to the road within the address or location	A13NE (E)	85	-	445414 241518
		• • • • • • • • • • • • • • • • • • • •				
85	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Silver Group Fuels Banbury Laboratory,Southam Rd, Banbury, Oxfordshire, OX16 2SP Coal & Smokeless Fuel Merchants & Distributors Inactive Manually positioned to the road within the address or location	A13NE (E)	107	-	445425 241539
		•				
85	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	G B Fleet Care Southam Rd, Banbury, Oxfordshire, OX16 2RR Commercial Vehicle Servicing, Repairs, Parts & Accessories Active Manually positioned to the road within the address or location	A13NE (E)	110	-	445426 241542
85	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	The White Motor Co Southam Road, Banbury, Oxfordshire, OX16 2RR Car Dealers - Used Inactive Automatically positioned to the address	A13NE (E)	123	-	445458 241522
	Contemporary Trad	le Directory Entries				
86	Name: Location: Classification: Status:	Comet Unit 4,Banbury Cross Retail Pk,Ruscote Av, Banbury, Oxfordshire, OX16 2NZ Electrical Goods Sales, Manufacturers & Wholesalers Active Manually positioned within the geographical locality	A13NW (W)	86	-	444813 241504
	Contemporary Trad	le Directory Entries				
87	Name: Location: Classification: Status: Positional Accuracy:	Exel Ruscote Avenue, Banbury, Oxfordshire, OX16 2QU Distribution Services Inactive Automatically positioned to the address	A13NE (NE)	90	-	445232 241592
	Contemporary Trad	le Directory Entries				
87	Name: Location: Classification: Status:	Kraft Foods Ruscote Avenue, Banbury, Oxfordshire, OX16 2QU Food Products - Manufacturers Active Automatically positioned to the address	A13NE (NE)	90	-	445232 241592
	Contemporary Trad					
88	Name: Location: Classification: Status:	New Banbury Rover Southam Road, Banbury, Oxfordshire, OX16 2RU Car Dealers Inactive Automatically positioned to the address	A13SE (E)	92	-	445414 241340



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries New Banbury Rover Southam Road, Banbury, Oxfordshire, OX16 2RU Car Dealers Inactive Automatically positioned to the address	A13SE (E)	92	-	445414 241340
88	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Rapitech Southam Road, Banbury, Oxfordshire, OX16 2RU Tyre Dealers Inactive Automatically positioned to the address	A13SE (E)	92	-	445414 241340
89	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Stabilus Ltd Beaumont Road, Banbury, Oxfordshire, OX16 1QY Car Component Manufacturers Inactive Automatically positioned to the address	A13NW (NW)	113	-	444974 241711
89	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Demag Cranes & Components Ltd Beaumont Road, Banbury, Oxfordshire, OX16 1QZ Materials Handling Equipment Active Automatically positioned to the address	A13NW (NW)	148	-	444935 241728
89	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Siemens L & A Ltd Beaumont Road, Banbury, Oxfordshire, OX16 1QZ Materials Handling Equipment Inactive Automatically positioned to the address	A13NW (NW)	148	-	444935 241728
89	Contemporary Trad Name: Location: Classification: Status:	* * * * * * * * * * * * * * * * * * * *	A13NW (NW)	148	-	444935 241728
89	Contemporary Trad Name: Location: Classification: Status:		A13NW (NW)	148	-	444935 241728
90	Contemporary Trad Name: Location: Classification: Status:		A14SW (E)	135	-	445493 241408
90	Contemporary Trad Name: Location: Classification: Status:	••	A14SW (E)	135	-	445493 241408
90	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Pe Directory Entries Nationwide Autocentre Marley Way, Banbury, Oxfordshire, OX16 2RL Garage Services Inactive Manually positioned within the geographical locality	A14SW (E)	135	-	445493 241408
90	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	Halfords Autocentre Marley Way, Banbury, Oxfordshire, OX16 2RL Garage Services Active Automatically positioned to the address	A14SW (E)	135	-	445493 241408
90	Contemporary Trad Name: Location: Classification: Status:		A14SW (E)	138	-	445488 241384



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
91	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Bridge Motors Beaumont Road, Banbury, Oxfordshire, OX16 1RH Garage Services Active Automatically positioned to the address	A13NW (N)	140	-	445039 241749
92	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries U G S Pipe Lane, Banbury, Oxfordshire, OX16 2RP Builders' Merchants Active Automatically positioned to the address	A14NW (E)	151	-	445495 241512
93	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Uk Profile Components 46, Nursery Drive, Banbury, Oxfordshire, OX16 2LY Metal Workers Active Automatically positioned to the address	A13SW (S)	167	-	445065 241185
94	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Tile Giant Unit 2,Marley Way, Banbury, Oxfordshire, OX16 2RL Builders' Merchants Inactive Manually positioned to the address or location	A14SW (E)	175	-	445501 241327
94	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Plymovent Ltd Marley Way, Banbury, Oxfordshire, OX16 2RA Ventilators & Ventilation Systems Active Automatically positioned to the address	A14SW (E)	177	-	445505 241331
94	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Premier Diagnostics Ltd 3, Marley Way, Banbury, Oxfordshire, OX16 2RL Garage Equipment Inactive Automatically positioned to the address	A14SW (E)	189	-	445512 241319
95	Contemporary Trad Name: Location: Classification: Status:		A14NW (E)	181	-	445490 241578
95	Contemporary Trad Name: Location: Classification: Status:		A14NW (E)	181	-	445490 241578
96	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Cyrmoma Plastics Ltd Cpl House, Beaumont Road, Banbury, Oxfordshire, OX16 1RJ Plastics - Injection Moulding Inactive Automatically positioned to the address	A13NW (N)	188	-	445025 241799
96	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries A A C Cyroma Ltd Cpl House, Beaumont Road, Banbury, Oxfordshire, OX16 1RJ Plastics - Injection Moulding Active Automatically positioned to the address	A13NW (N)	188	-	445025 241799
97	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Avenue Motors 94, Neithrop Avenue, Banbury, Oxfordshire, OX16 2NJ Garage Services Inactive Automatically positioned to the address	A13SW (SW)	192	-	444827 241298
98	Contemporary Trad Name: Location: Classification: Status:	• • • • • • • • • • • • • • • • • • • •	A14SW (E)	193	-	445552 241406



Map ID		Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
98	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Lincoln Industrial Ltd 2, Canada Close, Banbury, Oxfordshire, OX16 2RT Lubricating Equipment Inactive Automatically positioned to the address	A14SW (E)	222	-	445577 241385
99	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries C A R Motor Services Southam Rd, Banbury, Oxfordshire, OX16 2RR Garage Services Active Manually positioned to the road within the address or location	A13NE (NE)	195	-	445467 241618
100	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Smiths Concrete Southam Rd, Banbury, Oxfordshire, OX16 2RR Concrete & Mortar Ready Mixed Inactive Manually positioned to the road within the address or location	A14NW (NE)	234	-	445483 241655
100	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Smiths Concrete Southam Rd, Banbury, Oxfordshire, OX16 2RR Concrete & Mortar Ready Mixed Inactive Manually positioned to the road within the address or location	A14NW (NE)	234	-	445483 241655
101	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Royce Lingerie Ltd Royce House, Canada Close, Banbury, Oxfordshire, OX16 2RT Lingerie & Hosiery Manufacturers & Wholesalers Active Automatically positioned to the address	A14SW (E)	235	-	445571 241332
101	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Vescom Uk Ltd 3, Canada Close, Banbury, Oxfordshire, OX16 2RT Wallpapers & Wall Coverings Active Automatically positioned to the address	A14SW (E)	251	-	445583 241321
101	Contemporary Trad Name: Location: Classification: Status:	• •	A14SW (E)	251	-	445583 241321
102	Contemporary Trad Name: Location: Classification: Status:		A18SW (N)	242	-	445035 241852
102	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Westmoreland Mechanical Testing & Research Ltd Westmoreland Building, 5, Beaumont Road, Banbury, Oxfordshire, OX16 1RH Testing, Inspection & Calibration Equipment Manufacturers Active Automatically positioned to the address	A18SW (N)	274	-	445043 241884
103	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Howe Motorgroup Southam Rd, Banbury, Oxfordshire, OX16 2RR Car Dealers - Used Inactive Manually positioned within the geographical locality	A14NW (E)	254	-	445561 241605
103	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Smiths Concrete Southam Road, Banbury, Oxfordshire, OX16 2RR Concrete Manufacturers & Distributors Active Manually positioned within the geographical locality	A14NW (E)	254	-	445561 241605
104	Contemporary Trad Name: Location: Classification: Status: Positional Accuracy:	e Directory Entries Clean Linen Services Ltd Beaumont Road, Banbury, Oxfordshire, OX16 1RH Laundries & Launderettes Active Automatically positioned to the address	A18SW (NW)	270	-	444950 241870