

Begbroke Science Park, Begbroke



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PROJECT INFORMATION

Project Information

Client University of Oxford

Project Details

Project Name Begbroke Science Park

Location Begbroke, Oxfordshire

Jubb Project Number 18143

Title Phase 1 Desk Study Report

Report Details

Version 3

Status Planning Issue

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Report Authorisation

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Issue History

Version	Date	Details
1	23/03/18	First issue
2	05/04/18	Second issue - Minor client amendments
3	4/5/18	Planning Issue

EXECUTIVE SUMMARY

Site Information	
Client	University of Oxford
Project	Begbroke Science Park
OS Co-ordinates	SP 47925 13503
Site Size	5.54 Hectares
Proposals	Expansion of existing facility
Site Description	Site comprises a science park with research laboratories and engineering facilities
Current and Historic Site Uses	Site was originally occupied by a farm and has been part of a research facility since at least the 1970s.
Geo-environmental Setting	
Geology	The site is shown to be underlain by superficial deposits comprising the Summertown Radley Sand and Gravel Member. The solid geology beneath the site is the Oxford Clay Formation and West Walton Formation (undifferentiated)
Hydrogeology and Hydrology	<p><u>Hydrogeology:</u></p> <ul style="list-style-type: none"> ▪ Bedrock is an Unproductive Strata ▪ Superficial Deposits are a Secondary A aquifer. <p><u>Hydrology:</u></p> <ul style="list-style-type: none"> ▪ Nearest surface water feature is Rowel Brook 400m to N of site.
Radon	The site is in a low risk radon area; therefore no radon protective measures are necessary as part of the development.
Ground Gas	Ground gas potential is moderate given the backfilled gravel pits in the surrounding area and the backfilled reservoir on site.
Landfill	There are three historic landfills within 1km of the site all associated with the backfilled gravel pits.
Preliminary Contamination Assessment	
Potential Sources of Contamination	<p>Made ground on site associated with the development of the facility and backfilled reservoir.</p> <p>Vehicles from agricultural use and car park.</p> <p>Chemicals and hazardous waste stored on site</p> <p>Off-site there are multiple backfilled gravel pits</p>
Potential Contaminants	<p>The following potential contaminants are identified:</p> <ul style="list-style-type: none"> ▪ Heavy Metal/ Semi-metals in any historic made ground and backfilled reservoir/gravel pits; ▪ Organics from vehicles, historic made ground and backfilled gravel pits; ▪ Asbestos in made ground; ▪ Ground gas from backfilled reservoir and gravel pits.

Contamination Risk Classification	Based on a preliminary assessment of risk carried out, the contamination potential of the site is considered to be low/moderate.
Preliminary Geotechnical Assessment	
Foundations and Floor Slabs	Shallow foundations are likely to be suitable on the site, founding on the superficial sand and gravels or directly onto Oxford Clay.
Groundwater	Groundwater likely to be shallow where granular superficial deposits are present.
Infiltration Drainage	Infiltration is potentially viable where granular superficial deposits are present
Volume Change Potential	Potential for high plasticity clays in residual soils. Plasticity Index testing should be carried out to clarify.
Geotechnical Risk Category	Category 2 – Conventional structures.

1 Introduction

1.1 Commission

The University of Oxford are proposing to construct additional research facilities within the grounds of Begbroke Science Park in Begbroke, Oxfordshire.

To assist with the development of the site proposals, Jubb Consulting Engineers (Jubb) have been commissioned on behalf of the Chancellor, Masters and Scholars of the University of Oxford (the "University of Oxford"), to undertake a Phase 1 Geo-environmental Assessment.

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1.2 Objectives

The objectives of this assessment are:

- to undertake a preliminary assessment of potential contamination risks, based on the established pollution linkage methods, and provide a summary of the potential contamination issues at the site with due regard to the proposed development;
- to identify existing ground conditions, subsidence or ground instability problems associated with mining or quarrying activity, slope stability problems or issues, and any other geological issues which may affect the proposed redevelopment;
- to make an initial evaluation of any potential hazards, risks and liabilities to the planned redevelopment of the site on the basis of the foregoing studies.

1.3 Scope, Sources & Limitations

To establish past usages of the site and possible indications of contamination or ground instability, this report relies on publicly available historic maps, published geological information, and data provided in an Envirocheck report referenced in section 3.

This report has been conducted in line with the source-pathway-receptor (SPR) linkage risk assessment based methods referred to in Part IIA of the Environmental Protection Act 1990, introduced by Section 57 of the Environment Act 1995.

A site walkover inspection has been carried out, and the findings are contained in this report.

The scope of this report is restricted to potential ground contamination and its environmental impact; it does not cover above ground hazards (e.g. asbestos in buildings; overhead services) potential ecological impacts (e.g. newts or bats) or botanical risks (e.g. Japanese Knotweed) or structural hazards (e.g. building or boundary wall stability) unless specifically referred to in the text of this report.

All information, comments and opinions given in this report are based on documentary records made available to us at the present time. It should be noted that documentary sources and records may not be totally accurate, precise or complete. It is possible, therefore that there may be potential or actual contaminants or adverse ground conditions that remain undetected.

Advice and recommendations given in this report are provided for information; they are not exhaustive and do not constitute a specification for further investigation or other works.

2 Site Setting

2.1 Site Location

The site is located within the Begbroke Science Park, approximately 0.75km to the south of village of Begbroke, Oxfordshire. The site is accessed via Begbroke Hill access road, located to the east of the A44 Woodstock Road. The outline of the site is shown in the below Figure 1.



Figure 1: Site boundary

The Ordnance Survey (Landranger) grid reference at the centre of the site is SP 47925 13503.

A site location plan and aerial photograph are reproduced in **Appendix A**.

2.2 Site Description

The site is a roughly rectangular parcel of land measuring approximately 210m x 320m, encompassing the Begbroke Science Park, which comprises a number of one and two storey structures housing laboratories, engineering facilities and administrative buildings. The site is relatively flat and is surrounded on all sides by open fields.

The science park comprises the original Grade II listed three storey stone farm house building situated over the southern part of the site, with associated single storey buildings surrounding them which now house the site offices. The two main science block buildings are situated over the eastern and western areas of the site, with a single storey horse shoe shaped building situated over the central area between the blocks. An asphalt on grade car park is present in the south-eastern area of the site.

The laboratory units in the northern area of the site have two large liquid nitrogen storage tanks and signage indicating storage of hazardous waste and chemicals. There is also a set of transformers attached to this unit. Chemical storage containers are also noted around the site.

The areas where the additional buildings are proposed, are situated in two separate areas, one on a rough gravel car park area situated at the western end of the site and the second over the north-eastern corner of the site over a second rough gravel car park.

A more detailed site description together with site photographs are contained within the site walkover report provided in **Appendix B**.

2.3 Site Proposals

No detailed development plans have been provided but it is understood that planning has previously been approved for the construction of new research buildings. The areas of the proposed development are included in **Appendix C**.

3 Geo-Environmental Setting

The following information is obtained primarily from an Envirocheck report containing geological and environmental information as contained in **Appendix D**.

3.1 Geology and Ground Conditions

The BGS 1:50,000 Solid and Drift Mapping (Witney, Sheet 236) and the online BGS Geology of Britain Viewer identifies the site to be underlain by the Summertown-Radley Sand and Gravel Member, which is described as predominantly sand and gravel of quartzite and flint.

The solid geology beneath the site is the Oxford Clay Formation and West Walton Formation (undifferentiated). The Oxford Clay is described as a silicate mudstone with sporadic beds of argillaceous limestone and the West Walton Formation is described as a calcareous mudstone, silty mudstone and siltstone with subordinate fine-grained sandstones and argillaceous limestone.

An extract of the geological map of the area is shown in figure 2.

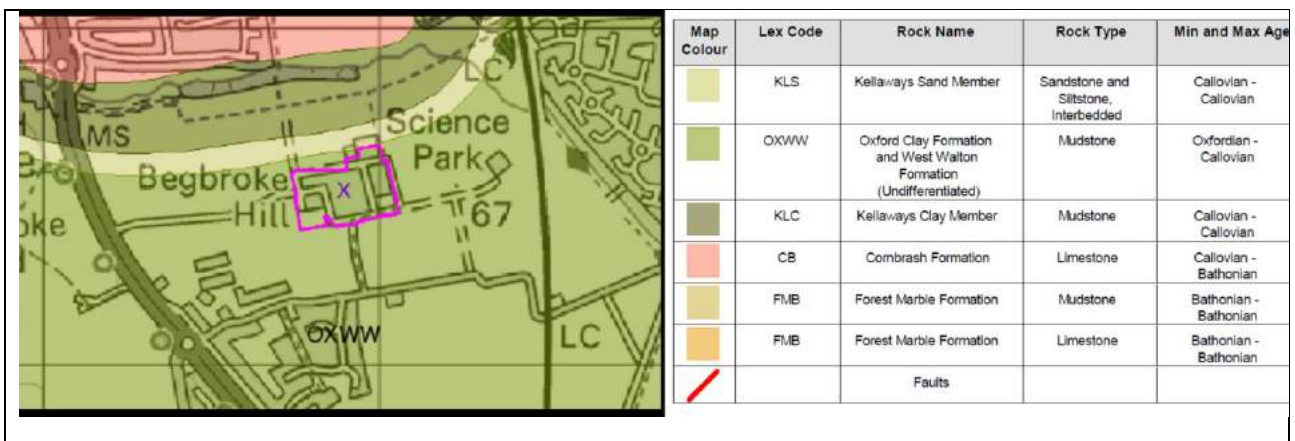


Figure 2: Geological map extract

One historical BGS borehole (SP41 SE6) is shown close to the western boundary of the site and encountered 1.4m of brown silty clay over around 3m of sand and gravel, with dark grey Oxford Clay encountered from 4.5m below ground level. Groundwater was encountered approximately 3m below ground level within the sand and gravel deposits.

3.2 Hydrogeology

The Environment Agency maps show that the bedrock beneath the site is defined as an 'Unproductive Stratum' and the superficial deposits as a Secondary 'A' Aquifer.

Unproductive Strata are described as *rock layers or drift deposits of low permeability that have negligible significance for water supply or river base flow*.

Secondary 'A' Aquifers are described as *permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers*.

The site soils beneath the site are classified as having an intermediate leaching potential, which indicates soils which can possibly transmit a wide range of pollutants.

The site is not located within a source protection zone.

The site is within an area of potential for groundwater flooding of below ground structures.

3.3 Hydrology

The nearest surface water feature is Rowel Brook approximately 400m north of the site.

3.4 Abstraction Consents

There are no water abstraction consents within 1km of the site.

3.5 Discharge Consents

There are two licensed discharge consents within 500m of the site and an additional five within 1km. These are summarised in Table 1 below.

Proximity to Site	Details	Status
409m NW	Sewage discharge into Rowel Brook	Revoked August 2014
409m NW	Sewage discharge into Rowel Brook	Revoked September 2010
678m W	Surface water discharge into Rowel Brook	Revoked October 1996
709m SW	Sewage discharge into tributary of Yarnton Stream	Active
754m S	Surface water discharge into ditch tributary of Oxford Canal	Active
800m W	Discharge of surface water into tributary of Rowel Brook	Active
927m N	Treated sewage effluent discharge into Thrupp Ditch	Revoked May 1999

Table 1: Discharge consents summary

3.6 Pollution Incidents to Controlled Waters

There have been 24 recorded pollution incidents within 1km of the site, the majority of which are classified as minor incidents and typically consist of sewage overflow incidents.

Four of these incidents have been classified as category 2 significant incidents, and all occurred in Kidlington situated to the east of the site and are summarised in Table 2 below.

Proximity to Site	Details	Date
459m NE	Unknown sewage into unspecified watercourse	26 th November 1989
460m NE	Unknown sewage into unspecified watercourse	11 th July 1989
764m E	Unknown oils into unspecified watercourse	12 th April 1989
947m N	Unknown sewage into unspecified watercourse	9 th January 1989

Table 2: Summary of significant pollution incidents

3.7 Fuel Stations and Contemporary Trade Entries

There are three fuel station entries within 1km of the site, which are summarised in table 2 below.

Proximity to Site	Details	Status
691m NW	Begbroke Car Sales, Woodstock Road	Obsolete
784m S	Yarnton Service Station, Woodstock Road	Active
876m S	Fraser Budgens of Yarnton, Woodstock Road	Active

Table 3: Summary of fuel station entries

There are ten contemporary trade directory entries on site and another ten within 500m. There are an additional 52 entries within 1km of the site.

Four of the on-site entries are currently active and relate to three laboratories and a chemical engineers.

3.8 Subsidence Risk

The maximum ratings for various ground subsidence hazards within 50m of the site is outlined in the Table 4 below. This rating is obtained through the ground stability hazard dataset, which are supplied by the British Geological Survey (BGS):

Subsidence Type	Risk Rating	Notes
Shrink-Swell Clays	Moderate	Possible clay above sand and gravel deposits.
Landslides	Very Low	No significant slopes.
Ground Dissolution of Soluble Rocks	No hazard	Soluble strata not present
Compressible Deposits	No hazard	Compressible strata not present
Collapsible Rocks	Very Low	Collapsible strata not anticipated to pose a development constraint.
Running Sands	Very low	Running sands not anticipated to pose a development constraint

Table 4: Ground stability hazards summary

3.9 Coal or Mineral Mining

The Envirocheck report indicates there are eight historic quarrying sites within 500m of the site, and an additional one within 1km. These are summarised in Table 5 below.

Proximity to site	Details
315m SW	The Sands sand and gravel open cast. Dates of operation not supplied.
368m S	Sandy Lane Gravel Pit sand and gravel open cast. Dates of operation not supplied.
373m SE	Sandy Lane Gravel Pit sand and gravel open cast. Dates of operation not supplied.
373m SE	Sandy Lane Gravel Pit sand and gravel open cast. Dates of operation not supplied.
432m NW	Fern Hill Gravel Pit sand and gravel opencast. Dates of operation not supplied.
441m N	Fern Hill Gravel Pit sand and gravel opencast. Dates of operation not supplied.
459m NW	Fern Hill Gravel Pit sand and gravel opencast. Dates of operation not supplied.
496m NW	Fern Hill Gravel Pit sand and gravel opencast. Dates of operation not supplied.
539m S	Ivy House Gravel Pits sand and gravel opencast. Dates of operation not supplied.

Table 5: BGS mineral sites summary

All of the sites relate to the quarrying of sand and gravel deposits from opencast pits.

3.10 Landfill Sites and Waste Management

There are three historic landfill sites or licensed waste management facilities recorded within 1km of the site. These are summarised in Table 6 below.

Proximity to site	Details
246m SE	Sandy Lane East, received inert and industrial waste with unspecified timeframe
300m S	Sandy Lane West, received inert waste with unspecified timeframe
440m NW	Willow Way, received inert, industrial, commercial and household waste with unspecified timeframe

Table 6: Historic landfills summary

There are no recorded waste management facilities within 1km of the site.

3.11 Radon Risks

The Envirocheck report indicates the site is in a lower probability radon area, where less than 1% of homes are estimated to be at or above the Action Level. Therefore, no radon protective measures are necessary in the construction of new dwellings.

3.12 Environmentally Sensitive Areas

The Envirocheck Report indicates that the site is within an area of designated green belt.

Rushy Meadows Site of Special Scientific Interest (SSSI) is located 374m north east of the site.

4 Site History

The site history has been assessed by a study of historic Ordnance Survey Maps dating back to 1876 as supplied in an Envirocheck Report. The historical maps obtained from this source, whilst considered to be fairly comprehensive, may not represent all of the historical maps possibly published for the site.

The maps reviewed are presented for reference in **Appendix E**.

Date	Scale	Onsite	Offsite
1876 – 1887	1:10,560 & 1:2,500	Site is identified as Begbroke Hill which comprises several farm buildings in the southern area of the site, an orchard and some open fields. Trees along southern boundary	Surrounding area is primarily open agricultural land. The village of Begbroke is located 1km to the north west. The Oxford to Birmingham railway line is present 500m to the east. <i>Oxford Canal</i> also present approx. 500m to the east.
1899 - 1900	1:10,560 & 1:2,500	Expansion of farm buildings. Footpath seen running through E side of site.	Surrounding area is largely unchanged. Gravel pits are present 500m to the south
1922 – 1936	1:10,560 & 1:2,500	Site is relatively unchanged	Surrounding area is largely unchanged Additional gravel pits have been opened 300m to the south/south west
1947	1:10,560	Site is unchanged	Gravel pits are present 500m north west and 300m south. The gravel pits to the south/southwest have been expanded. Begbroke has undergone residential expansion to the east of the A44
1955 - 1969	1:10,000	Site is unchanged	Surrounding area is largely unchanged A sewage works is now present 500m north of the site. One of the large gravel pits to the south appears to be closed. Woodstock Road has been converted to an A road 500m to west.
1971 – 1987	1:10,000 & 1:2,500	Site has been redeveloped with multiple new structures and now contains a reservoir over NE corner. Site is identified as a <i>Weed Research Organisation</i> . Two buildings and car park shown over western proposed development area.	Surrounding area has undergone significant residential expansion. Immediate site surroundings are still open fields. All gravel pits have now been closed, with ones to north constructed over, one to south (east) backfilled and one to south (west) shown as <i>disused</i> and mostly backfilled with a pond over one end.

Date	Scale	Onsite	Offsite
		Original buildings still present and incorporated into site.	Western area of former gravel pits to the south is now a depot. <i>Nursery</i> shown 500m to west of site. Sewage works no longer present to north. Residential expansion of Kidlington 1km to east and Yarnton 1km to south of site.
1992 – 1994	1:10,000 & 1:2,500	Site is unchanged.	Surrounding area is largely unchanged Depot to south is now an industrial estate
1999	1:10,000	Site is unchanged	Surrounding area is largely unchanged.
2018	1:10,000 & Google maps	Between 2004 -2006 the science park began to expand with new buildings constructed. Reservoir no longer shown, and has been levelled to form a car park. Buildings over western side no longer shown and also used as a car park	Surrounding area is largely unchanged Access road to site from Woodstock Road has been built Additional residential expansion of the surrounding area has taken place Industrial estate to south of site is now a residential area.

Table 7: Site history summary

4.1 Site History Summary

The site appears to have been a farm up until the 1960s when it is then shown to be a research facility for the Weed Research Organisation. In the 1980s the site was bought by the Cookson Group because of its Technology Centre before being taken over by Oxford University. When the site was originally developed as a research facility it had a reservoir over the north-eastern corner of the site. As the site was taken over and developed as a science park the reservoir was backfilled, and more office and laboratories were added after 2004 to take the form of how the site is today.

The surrounding area has undergone little major change over the mapped period. The immediate surroundings have remained as open fields for the duration of the mapped period. Begbroke and Kidlington have undergone steady residential expansion to the north west and north east of the site. Several large gravel pits were present 500m to the south of the site from around 1900 until the 1960s, which were subsequently backfilled and repurposed as a depot, an industrial estate, and a residential area in the present day. A pond formed by the backfilled pit is still present within the residential development to the south of the site.

5 Preliminary Contamination Assessment

5.1 General

The following comprises a Preliminary Qualitative Assessment of contamination risk, in accordance with the methodology set out in **Appendix G**.

The CSM provides a method to characterise potential site risks, by outlining potential sources of contamination, identifying potential receptors that may be impacted, and determining potential pathways by which sources may affect receptors.

The following preliminary CSM has been derived from an assessment of the sites environmental setting, site history, and review of previous reports.

5.1.1 Potential Sources of Contamination

The potential contaminants described below have been identified from a study of the site history. The principal contaminative sources are as follows:

On-site

- Potential for heavy metals in made ground associated with development of the site
- Ground Gases and heavy metals in made ground from backfilled reservoir.
- Leakage from chemical stores across the site.
- Oils and fuels from agricultural vehicles
- Oils and fuels from vehicles in car parks.

Off-site

- Fertiliser/Pesticides from agricultural land use;
- Ground gases from backfilled gravel pits;

5.1.2 Potential Receptors

The following potential receptors have been identified, based on the proposed development of the site for residential purposes:

- Ground workers and construction workers;
- Future site users;
- Groundwater (Secondary A Aquifer);
- Building materials

5.1.3 Potential Pathways

The following potential pathways need to be considered in relation to the receptors described above: -

i) Potential Receptor – Ground Workers and Construction Workers

<u>Potential Source</u>	<u>Potential Pathways</u>
• Metals and Metalloids -	Human uptake pathways
• Organics/hydrocarbons -	Human uptake pathways
• Asbestos -	Human uptake pathways
• Ammonium compounds	Human uptake pathways

ii) Potential Receptor - Future Site Users

<u>Potential Source</u>	<u>Potential Pathways</u>
-------------------------	---------------------------

- Metals and Metalloids - Human uptake pathways
- Organics/hydrocarbons - Human uptake pathways
- Ground Gas - Vertical and lateral migration
Inhalation
- Ammonium compounds Human uptake pathways

iii) *Potential Receptor –Groundwater/Minor Aquifer*

<u>Potential Source</u>	<u>Potential Pathways</u>
• Soluble metals/metalloids -	Percolation/leaching and migration to groundwater
• Organic compounds -	Percolation/leaching and migration to groundwater

iv) *Potential Receptor - Building Materials*

<u>Potential Source</u>	<u>Potential Pathways</u>
• Organic compounds -	Contact or penetration of plastic water pipes
• Sulphates and pH -	contact with subsoil or ground concrete

5.2 Preliminary Conceptual Site Model (CSM)

The potential key contaminative substances, potential receptors and possible pathways are set out in the table below, assuming a worst-case scenario.

The preliminary CSM will be used to target the required site investigation and will be developed and refined, based on the results of the site investigation.

Table 8: Conceptual site model

Preliminary Conceptual Site Model						
Sources	Receptor	Pathway	Consequence	Probability	Risk	Recommended Action (to clarify level of risk and assess suitable mitigation measures or to mitigate the risk)
Heavy metals from on-site and off-site sources (made ground, backfilled reservoir)	Future Site Users;	Human uptake pathways	Medium	Low likelihood	Moderate/Low risk	Future mitigation measures to protect human health may be required depending upon results (capping, soil treatment, etc.). Use of suitable PPE and good hygiene practice on the site to mitigate risk.
	Construction workers; Demolition workers.	Human uptake pathways	Medium	Low likelihood	Moderate/Low risk	
	Groundwater	Percolation/ leaching/ migration to groundwater;	Mild	Low likelihood	Low risk	Soils have intermediate leaching potential.
Organics/PAH/ Hydrocarbons from vehicles and backfilled reservoir	Future Site Users;	Human uptake pathways	Medium	Low likelihood	Moderate/Low risk	Future mitigation measures to protect human health may be required depending upon results (capping, soil treatment, etc.). Use of suitable PPE and good hygiene practice on the site to mitigate risk.
	Construction workers; Demolition workers	Human uptake pathways	Medium	Low likelihood	Moderate/Low risk	
	Groundwater	Percolation and leaching to groundwater;	Medium	Low likelihood	Moderate/Low risk	Potential for groundwater on site with onsite soils noted to have a medium leaching potential.
	Building Materials	Contact with water pipes;	Mild	Low likelihood	Low risk	Provide suitable pipe material if necessary.
Sulphates and pH	Building Materials	Contact with subsoil or groundwater	Medium	High likelihood	High risk	Oxford Clay is a known high sulphate stratum. BRE SD1 testing to determine appropriate concrete classification
Asbestos potentially in made ground	Future Site Users;	Inhalation	Severe	Low likelihood	Moderate/Low risk	Potential for asbestos in made ground
	Construction workers; Demolition workers.	Inhalation	Severe	Low likelihood	Moderate/Low risk	
Ground Gases	Future Site Users;	Inhalation	Medium	Low likelihood	Moderate/Low risk	Low potential for ground gases from backfilled gravel pits and from the backfilled reservoir on site.
	Construction workers.	Inhalation	Medium	Low likelihood	Moderate/Low risk	

Preliminary Conceptual Site Model						
Sources	Receptor	Pathway	Consequence	Probability	Risk	Recommended Action (to clarify level of risk and assess suitable mitigation measures or to mitigate the risk)
Radon	Future Site Users	Inhalation	Severe	Unlikely	Low Risk	The site is in a Radon affected area where less than 1% of homes are estimated to be at or above the Action Level, therefore no radon protective measures are necessary.

6 Preliminary Geotechnical Assessment

A Preliminary Geotechnical Risk Register has been produced for the site outlining potential risks, and this is reproduced in **Appendix F**.

6.1 Expected Ground Conditions

Ground conditions over much of the site are expected to comprise made ground, overlying natural strata.

The natural strata are likely to comprise superficial deposits of sand and gravel, overlying mudstone bedrock of the Oxford Clay and West Walton Formation. The bedrock will likely have an upper weathered zone of residual soils.

6.2 Groundwater

There is potential for shallow groundwater on site where granular superficial deposits are present, with groundwater noted at around 3m below ground level in a historic borehole record.

Groundwater standpipes should be installed across the site so the level of groundwater can be monitored and an assessment on its impact to the proposed works can be made.

6.3 Foundation Options

Depending on the density and thickness of the underlying sands and gravels, shallow foundations are likely to be suitable, with footings extending down to the Oxford Clay where the gravel is of insufficient thickness and density.

The density and strength of the underlying residual should be determined during the phase 2 ground investigation.

6.4 Floor Slab Design

Ground bearing floor slabs could potentially be viable depending on the nature of the site soils and the depth to bedrock. If a significant amount of made ground is present in the area of the former reservoir then the use of a suspended floor slab may be required.

6.5 Excavations

Excavations on site should be feasible using standard mechanical plant, however bedrock is potentially shallow on site. Should any significant excavations be required where shallow mudstone is present, a hydraulic breaker may be required to achieve the desired depth.

7 Conclusions and Recommendations

7.1 Environmental Assessment

On-site

- Potential for heavy metals in made ground associated with development of the site
- Ground Gases and heavy metals in made ground from backfilled reservoir.
- Leakage from chemical stores across the site.
- Oils and fuels from agricultural vehicles
- Oils and fuels from vehicles in car parks

Off-site

- Agricultural land use;
- Backfilled gravel pits.

The primary contamination risks at the site arise from the previous agricultural site uses, and the relevant pollutant linkages that are potentially in operation at the site are as follows:

- Heavy Metal/ Semi-metals in any historic made ground or backfilled reservoir and gravel pits (risk to construction workers and future site users);
- Organics (Hydrocarbons/PAH's) from agricultural vehicles, vehicles using car park backfilled pits (risk to construction workers and future site users);
- Asbestos in made ground (risk to construction workers and future site users).
- Ground gas (risk to future site users).

There were also several chemical stores noted around the site, although unlikely to impact the areas of proposed development, the COSHH sheets of any chemicals stored close should be obtained.

However, in general the contamination potential of the site is considered to be low/moderate.

7.2 Geotechnical Assessment

The site conditions are expected to comprise made ground over superficial sands and gravels. Bedrock is expected to comprise mudstone of the Oxford Clay and West Walton Formations.

Shallow foundations are likely to be suitable across the site, founding on the sands and gravels or directly onto bedrock. The extent and composition of the site soils, together with strength and density of the underlying site should be determined through appropriate ground investigation techniques.

Groundwater is expected to be relatively shallow on site, within the sand and gravel deposits, with the Envirocheck report indicating the superficial deposits are a Secondary A aquifer.

Infiltration drainage is potentially viable on the site, depending on the thickness of the granular superficial deposits.

7.3 Conclusions

Although there are potential sources of contamination identified on the site of the existing science park, given the former and current uses of the site and surrounding area the made ground is not anticipated to pose a significant source of contamination for the wider development.

Though the science park currently houses a range of potential pollutants related to the laboratory facilities, these are stored and managed in a professional manner and are not anticipated to present a significant risk as a feasible source of contamination affecting the proposed development.

APPENDIX A: SITE LOCATION PLAN



Appendix A: Site Location Plan

18143 Begbroke Science Park



APPENDIX B: SITE WALKOVER SURVEY

Walkover Survey Record

Project	Begbroke Science Park	Date	21/03/2018
Location	Begbroke, Oxfordshire	Weather	Sunny
Client	University of Oxford	Contact	

Site Visit Objectives

Site walkover to assess any potential sources of contamination on site and to scope site as to specify appropriate ground investigation techniques.

Site Visit Notes

The site is situated in a generally flat area of open fields between the villages of Yarnton and Begbroke in Oxfordshire. The site is accessed via an access road from the A44 Woodstock Road.

The site itself is situated approximately 400m east of the A44 and is a roughly rectangular parcel of flat land measuring approximately 210m x 160m. The site is currently utilised by the University of Oxford as a science park containing laboratories and engineering facilities. The site is surrounded on all sides by open fields. There is a pedestrian and cycle access path on the southern boundary. On the eastern and northern boundaries are access gates to the adjacent fields. The site boundaries generally consist of dense semi-mature deciduous trees or bushes.

The site houses several one and two storey buildings which are a combination of laboratories, engineering facilities, administrative offices. There are two large two storey buildings in the east and west areas of the site. In the southern area is an old farm house and associated structures which form the site offices. The central area of the site is a single storey horseshoe shaped structure. In the south-western area of the site are a pair of small single storey buildings with a large transformer shed adjacent.

There are two gravel car parks in the west and north east of the site, and a tarmac car park in the south east of the site. An access road runs around the outside of the developed part of the site.

The north and north-western areas of the site are grassed, with an approximately 2m high mound of material in the north-western corner.

The laboratories in the western area of the site have large liquid nitrogen storage tanks, and signage indicating storage of hazardous chemicals and hazardous waste. There is also an electrical transformer adjacent to this building.

There are mature trees located throughout the site.

There are small lights around the majority of the road around the site, indicating buried cables will be present.

Contamination Assessment	
No obvious signs of contamination were noted.	
Contamination Indicators	
None apparent	
Information for Planning Ground Investigation	
Site is accessible from the A44. Services present across the whole site. Exclusion zones for site users will be required throughout any subsequent investigation.	
Photographic Record	
Plate 1: View of site access road	Plate 2: View of site from access gate
Plate 3: Western gravel car park	Plate 4: Transformers near western entrance to site
Plate 5: Main facilities block	Plate 6: Central horseshoe shaped building



Plate 7: Liquid nitrogen tanks



Plate 8: Hazardous waste storage



Plate 9: Transformers at rear of main facility



Plate 10: Storage sheds along northern side of buildings



Plate 11: Rear of main facility



Plate 12: Rear of central building



Plate 13: Hedge boundary and access road on eastern side of site



Plate 14: Hedge boundary and access road on southern side of site



Plate 15: Farmhouse building



Plate 16: Admin buildings at rear of farmhouse



Plate 17: Field with overhead cables to north of site

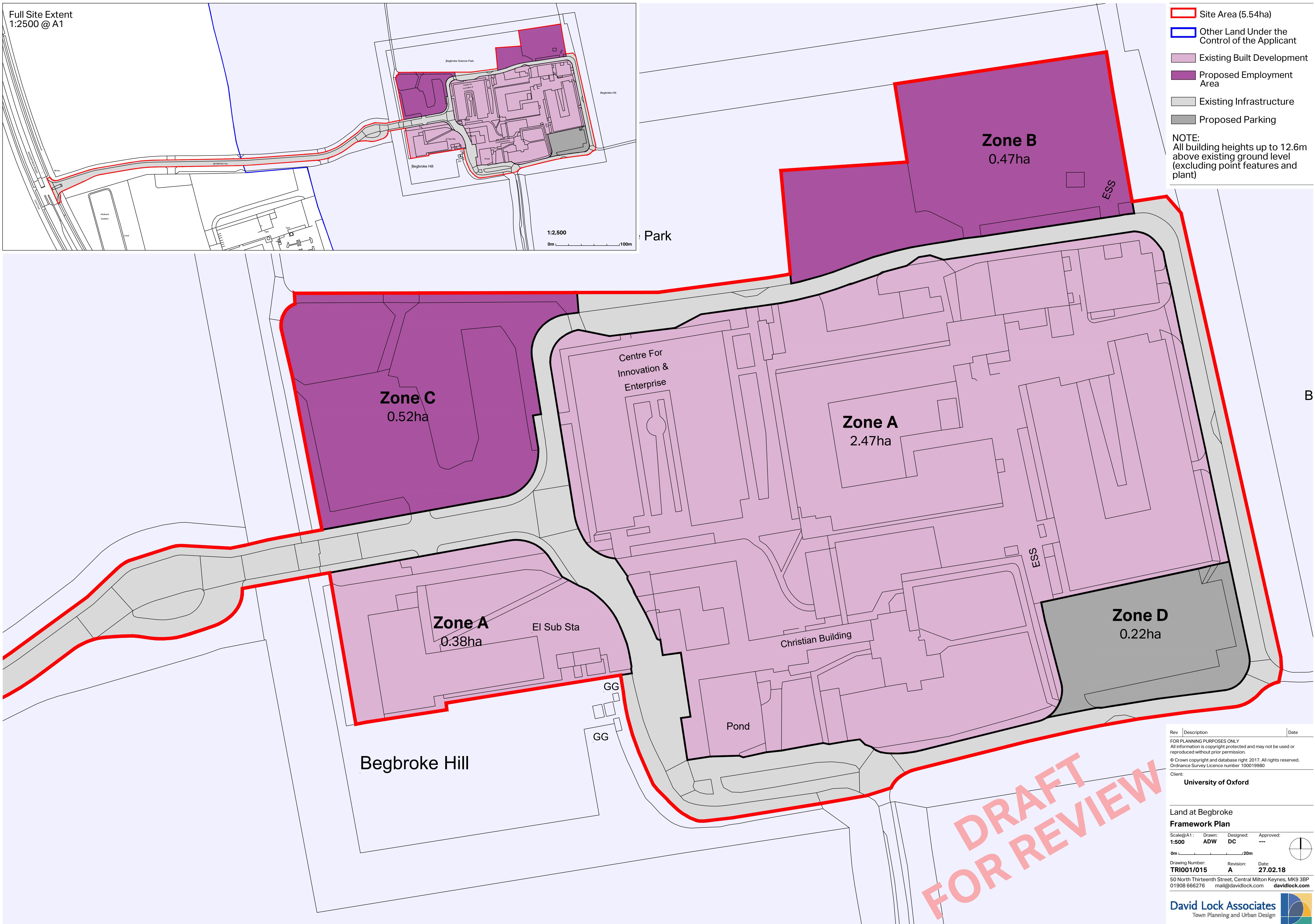


Plate 18: Field to west of site

APPENDIX C: PROPOSED SITE LAYOUT

- Site Area (5.54ha)
- Other Land Under the Control of the Applicant
- Existing Built Development
- Proposed Employment Area
- Existing Infrastructure
- Proposed Parking

NOTE:
All building heights up to 12.6m above existing ground level (excluding point features and plant)



DRAFT FOR REVIEW

Rev	Description	Date
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Client: University of Oxford		
Land at Begbroke Framework Plan		
Scale@A1: 1:500	Drawn: ADW	Designed: DC
Approved: ---		
Drawing Number: TR1001/015		
Revision: A	Date: 27.02.18	
50 North Thirteenth Street, Central Milton Keynes, MK9 3BP 01908 666276 mail@davidlock.com davidlock.com		
David Lock Associates Town Planning and Urban Design		

APPENDIX D: ENVIROCHECK REPORT

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

158805416_1_1

Customer Reference:

18143

National Grid Reference:

447890, 213520

Slice:

A

Site Area (Ha):

5.19

Search Buffer (m):

1000

Site Details:

Site at
Begbroke
Oxfordshire

Client Details:

Mr P Weber
Jubb Consulting Engineers Ltd
Ensign House
Parkway Court
Longbridge Road
Plymouth
PL6 8LR

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	17
Hazardous Substances	-
Geological	19
Industrial Land Use	22
Sensitive Land Use	29
Data Currency	30
Data Suppliers	35
Useful Contacts	36

Introduction

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

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Report Version v53.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2			2	5
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3				4
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4	Yes			
Pollution Incidents to Controlled Waters	pg 4			10	14
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances	pg 8	4			
River Quality	pg 9			1	
River Quality Biology Sampling Points					
Substantiated Pollution Incident Register	pg 9				2
River Quality Chemistry Sampling Points					
Water Abstractions	pg 9				(*3)
Water Industry Act Referrals	pg 10				1
Groundwater Vulnerability	pg 10	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 10		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 10		Yes	n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10		1	17	31

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 17		1	2	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 17	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 17		1	3	
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 19	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 19			8	1
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities	pg 20			1	
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 21	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 21	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 22	10	1	9	52
Fuel Station Entries	pg 28				3
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 29	1			
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 29	1			
Ramsar Sites					
Sites of Special Scientific Interest	pg 29			1	
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (N)	0	1	447894 213520
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (N)	47	1	447894 213700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	56	1	447750 213350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (N)	97	1	447900 213750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	113	1	448150 213400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	188	1	447650 213750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SE (N)	249	1	448050 213900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A18SW (N)	251	1	447894 213900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	282	1	448300 213650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	288	1	447800 213900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (N)	300	1	447894 213950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NW (NW)	307	1	447600 213850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (SE)	324	1	448250 213200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (NE)	336	1	448300 213800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A9NW (SE)	394	1	448300 213150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12NE (NW)	409	1	447400 213800
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A9NW (SE)	476	1	448300 213050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A9NW (SE)	496	1	448250 213000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Begbroke Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0428 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 19th August 2014 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Rowel Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	409	2	447400 213800
1	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Begbroke Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.0428 Permit Version: 1 Effective Date: 2nd November 1989 Issued Date: 2nd November 1989 Revocation Date: 2nd September 2010 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Rowel Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A12NE (NW)	409	2	447400 213800
2	<p>Discharge Consents</p> <p>Operator: Halfway Service Station Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: Halfway Service Station, Woodstock Road, Begbroke, Oxon Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.1441 Permit Version: 1 Effective Date: 10th February 1987 Issued Date: 10th February 1987 Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Rowel Brook Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A12NW (W)	678	2	447100 213800
3	<p>Discharge Consents</p> <p>Operator: Merton College Oxford Property Type: DENTIST/HOSPITAL/NURSING HOME (MEDICAL)/HUMAN HEALTH Location: Doctors Surgery Rutten Lane Yarnton Oxfordshire Ox5 1lt Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cawm.0850 Permit Version: 1 Effective Date: 29th June 2004 Issued Date: 17th November 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of The Yarnton Stream Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m</p>	A7SE (SW)	709	2	447410 212790

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>Operator: Mr Majid & Sons Service Stations Limited Property Type: SHOP INCL GARDEN CENTRE/RETAIL TRADE(NOT MOTOR VEHICLE) Location: Yarnton Autopoint, A34 Woodstock Road, Yarnton, Oxfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.3050 Permit Version: 1 Effective Date: 26th January 1989 Issued Date: 26th January 1989 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Canal Environment: Receiving Water: Ditch Trib Of Oxford Canal Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A8SE (S)	754	2	447900 212660
5	<p>Discharge Consents</p> <p>Operator: Solid State Logic Ltd. Property Type: Undefined Or Other Location: Offices & Factory, Begbroke, Oxford, Oxon Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CTWC.1988 Permit Version: 1 Effective Date: 3rd November 1987 Issued Date: 3rd November 1987 Revocation Date: Not Supplied Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Culverted Trib Of Rowel Brook Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A17SW (W)	800	2	447000 213880
6	<p>Discharge Consents</p> <p>Operator: Moss Plastic Parts Ltd. Property Type: Undefined Or Other Location: Langford Lane, Kidlington, Oxon. Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.0583 Permit Version: 1 Effective Date: 9th January 1986 Issued Date: 9th January 1986 Revocation Date: 7th May 1999 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thrupp Ditch Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m</p>	A23SE (N)	927	2	448000 214580
7	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Halfway Service Station Location: Woodstock Road East, Begbroke, KIDLINGTON, Oxfordshire, OX5 1RL Authority: Cherwell District Council, Environmental Health Department Permit Reference: Petrol06 Fpi4b Dated: 23rd December 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorisation revokedRevoked Positional Accuracy: Automatically positioned to the address</p>	A12NW (NW)	691	3	447111 213861
8	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Majid And Sons Location: 98 Woodstock Road, Yarnton, KIDLINGTON, Oxfordshire, OX5 1PL Authority: Cherwell District Council, Environmental Health Department Permit Reference: CDC/98/14 Dated: 27th October 1998 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Permitted Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	784	3	447907 212631

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Nationwide Crash Repair Centres Ltd Location: Unit C Langford Locks, Kidlington, Oxfordshire, Ox5 1hr Authority: Cherwell District Council, Environmental Health Department Permit Reference: CDC P 2/00 Dated: 13th September 2000 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A18NE (N)	821	3	448192 214451
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Blenheim Service Station Location: 93 Woodstock Road, YARNTON, Oxfordshire, OX5 1DT Authority: Cherwell District Council, Environmental Health Department Permit Reference: Cdc/02/01 Dated: 25th April 2001 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Manually positioned to the address or location</p>	A8SE (S)	868	3	447927 212548
	<p>Nearest Surface Water Feature</p>	A13SW (S)	0	-	447893 213455
11	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 10th March 1995 Incident Reference: W1950148 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SW (NW)	320	2	447700 213895
11	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 9th March 1995 Incident Reference: W1950124 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SW (NW)	325	2	447700 213900
12	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Roundham Lock Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 18th January 1995 Incident Reference: W1950018 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	347	2	448000 214000
13	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: Not Supplied Incident Reference: W1890349 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	390	2	448300 213900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 10th August 1989 Incident Reference: W1890423 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	456	2	448300 213995
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 26th November 1989 Incident Reference: W1890586 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	459	2	448305 213995
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 11th July 1989 Incident Reference: W1890364 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	460	2	448300 214000
14	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: Not Supplied Incident Reference: W1890249 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	463	2	448305 214000
15	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 22nd July 1990 Incident Reference: W1900384 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A19SW (NE)	487	2	448280 214050
16	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 1st August 1990 Incident Reference: W1900465 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A18SE (NE)	490	2	448200 214100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 19th November 1994 Incident Reference: W1940582 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	531	2	448400 214000
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 19th August 1989 Incident Reference: W1890434 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	539	2	448300 214100
19	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Begbroke, WOODSTOCK Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 24th January 1994 Incident Reference: W1940030 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	548	2	447300 213900
20	Pollution Incidents to Controlled Waters Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 16th January 1996 Incident Reference: W1960013 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	556	2	447890 214200
21	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: General Note: Confirmed incident Incident Date: 1st June 1999 Incident Reference: THWE1999043586 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m	A14SE (E)	649	2	448700 213500
22	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 25th August 1994 Incident Reference: W1940479 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	666	2	448700 213300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Agricultural: General Note: Confirmed As A Pollution Incident Incident Date: 2nd June 1993 Incident Reference: W1930310 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	676	2	447100 213795
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Natural Note: Confirmed As A Pollution Incident Incident Date: 5th August 1993 Incident Reference: W1930433 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	750	2	448800 213400
25	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 12th April 1989 Incident Reference: W1890205 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	764	2	448800 213300
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 20th December 1995 Incident Reference: W1960034 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	771	2	447000 213795
26	Pollution Incidents to Controlled Waters Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 18th December 1989 Incident Reference: W1890619 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NW (W)	772	2	447000 213800
27	Pollution Incidents to Controlled Waters Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 24th March 1995 Incident Reference: W1950143 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	854	2	448700 212900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: KIDLINGTON Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 9th January 1989 Incident Reference: W1890015 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A23SE (N)	947	2	448000 214600
29	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: BEGBROKE Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 27th July 1996 Incident Reference: W1960338 Catchment Area: Not Given Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m</p>	A16SE (W)	994	2	446800 213900
30	<p>Registered Radioactive Substances</p> <p>Name: Oxford Nanopore Technologies Limited Location: Begbroke Science Park ,Sandy Lane, KIDLINGTON, Oxfordshire, OX5 1PF Authority: Environment Agency, Thames Region Permit Reference: CD1673 Dated: 27th January 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	2	447888 213465
30	<p>Registered Radioactive Substances</p> <p>Name: Oxford Nanopore Technologies Limited Location: Begbroke Science Park ,Sandy Lane, KIDLINGTON, Oxfordshire, OX5 1PF Authority: Environment Agency, Thames Region Permit Reference: CD1681 Dated: 27th January 2009 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelledCancelled Positional Accuracy: Manually positioned within the geographical locality</p>	A13SE (SE)	0	2	447932 213466
30	<p>Registered Radioactive Substances</p> <p>Name: Oxford Nanopore Technologies Limited Location: Begbroke Science Park, Sandy Lane, Kidlington, Oxfordshire, OX5 1PF Authority: Environment Agency, Thames Region Permit Reference: CB0773 Dated: 30th May 2007 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Manually positioned to the address or location</p>	A13SW (S)	0	2	447888 213465
30	<p>Registered Radioactive Substances</p> <p>Name: Oxford Nanopore Technologies Limited Location: Begbroke Business & Science Park, Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PF Authority: Environment Agency, Thames Region Permit Reference: CB0781 Dated: 30th May 2007 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variationSuperseded Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	2	447888 213465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: Oxford Canal (Lower) GQA Grade: River Quality C Reach: Shiptonweir Lock - Kidlington Stw Estimated Distance (km): 5.9 Flow Rate: Flow greater than 80 cumecs Flow Type: Canal Year: 2000	A14NW (NE)	428	2	448397 213807
31	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, South East Area Incident Date: 23rd October 2007 Incident Reference: 540433 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 Pollutant: Pollutant Not Identified: Not Identified	A3NE (S)	931	2	447990 212490
32	Substantiated Pollution Incident Register Authority: Environment Agency - Thames Region, South East Area Incident Date: 18th July 2006 Incident Reference: 417885 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A23SE (N)	932	2	448021 214585
	Water Abstractions Operator: Unigate Dairies Ltd Licence Number: 28/39/13/0001 Permit Version: 100 Location: Langford Lane, Kidlington, - Well 'A' Authority: Environment Agency, Thames Region Abstraction: Dairies: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 182 Yearly Rate (m3): 66371 Details: Langford Lane, Kidlington Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 1st July 1993 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A23SW (N)	1163	2	447800 214800
	Water Abstractions Operator: Inchcape Estates Ltd Licence Number: 28/39/13/0001 Permit Version: 102 Location: Langford Lane, Kidlington, - Well 'A' Authority: Environment Agency, Thames Region Abstraction: Dairies: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Langford Lane, Kidlington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 22nd March 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SW (N)	1201	2	447890 214850
	Water Abstractions Operator: Dairy Crest Ltd Licence Number: 28/39/13/0001 Permit Version: 101 Location: Langford Lane, Kidlington, - Well 'A' Authority: Environment Agency, Thames Region Abstraction: Dairies: General Use (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Langford Lane, Kidlington Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st January 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A23SW (N)	1201	2	447890 214850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	<p>Water Industry Act Referrals</p> <p>Name: Oxford Aviation Services Ltd Location: OXFORD AVIATION SERVICES LTD, UNITS 1/2 OXONIAN PARK, LANGFORD LOCKS, KIDLINGTON, OXFORDSHIRE, OX15 1FP Authority: Environment Agency, Thames Region Permit Reference: BZ2265 Dated: 22nd April 2005 Process Type: Permissions or amendments to discharge under the Water Industry Act 1991 Description: Processes which result in the discharge of Special Category effluents under The Trade Effluents (Prescribed Processes and Substances) Regulations Status: Application received by the EA but is not yet authorisedNot Yet Authorised Positional Accuracy: Automatically positioned to the address</p>	A19NW (NE)	755	2	448303 214344
	<p>Groundwater Vulnerability</p> <p>Soil Classification: Soils of Intermediate Leaching Potential (I1) - Soils which can possibly transmit a wide range of pollutants Map Sheet: Sheet 38 Upper Thames & Bedfordshire Scale: 1:100,000</p>	A13SW (N)	0	2	447894 213520
	<p>Drift Deposits</p> <p>None</p>				
	<p>Bedrock Aquifer Designations</p> <p>Aquifer Designation: Secondary Aquifer - A</p>	A13NW (N)	0	1	447877 213635
	<p>Bedrock Aquifer Designations</p> <p>Aquifer Designation: Unproductive Strata</p>	A13SW (N)	0	1	447894 213520
	<p>Superficial Aquifer Designations</p> <p>Aquifer Designation: Secondary Aquifer - A</p>	A13SW (N)	0	1	447894 213520
	<p>Extreme Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied</p>	A13NW (N)	168	2	447845 213795
	<p>Flooding from Rivers or Sea without Defences</p> <p>Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied</p>	A13NW (N)	170	2	447845 213795
	<p>Areas Benefiting from Flood Defences</p> <p>None</p>				
	<p>Flood Water Storage Areas</p> <p>None</p>				
	<p>Flood Defences</p> <p>None</p>				
34	<p>OS Water Network Lines</p> <p>Watercourse Form: Inland river Watercourse Length: 1180.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 1</p>	A13NW (N)	215	4	447861 213860
35	<p>OS Water Network Lines</p> <p>Watercourse Form: Lake Watercourse Length: 24.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1</p>	A18SE (NE)	286	4	448154 213893
36	<p>OS Water Network Lines</p> <p>Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 2</p>	A18SE (NE)	303	4	448158 213910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	307	4	448176 213903
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 1	A18SE (NE)	309	4	448178 213905
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 272.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18SE (NE)	328	4	448138 213950
40	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	454	4	448457 213729
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	454	4	448457 213729
42	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 27.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	457	4	448461 213726
43	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	457	4	448461 213726
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 143.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	477	4	448488 213702
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	483	4	448346 213989

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	484	4	448347 213988
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	489	4	448363 213979
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	489	4	448526 213589
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 423.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	491	4	448357 213988
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 384.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NW (E)	491	4	448525 213598
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (E)	497	4	448523 213298
52	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 84.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Oxford Canal Catchment Name: Thames Primacy: 1	A19SW (NE)	507	4	448434 213911
53	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 39.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Oxford Canal Catchment Name: Thames Primacy: 1	A19SW (NE)	508	4	448388 213979
54	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 16.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Oxford Canal Catchment Name: Thames Primacy: 1	A19SW (NE)	508	4	448437 213909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 1344.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Oxford Canal Catchment Name: Thames Primacy: 1	A14NW (NE)	510	4	448507 213785
56	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 42.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Oxford Canal Catchment Name: Thames Primacy: 1	A19SW (NE)	515	4	448368 214012
57	OS Water Network Lines Watercourse Form: Canal Watercourse Length: 2288.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Oxford Canal Catchment Name: Thames Primacy: 2	A19SW (NE)	525	4	448345 214048
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 210.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A19SW (NE)	525	4	448345 214048
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 63.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SW (SE)	535	4	448531 213219
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 172.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12SE (SW)	538	4	447263 213211
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 239.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	553	4	448586 213313
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 240.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 1	A12NW (W)	575	4	447194 213757
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 196.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	575	4	447194 213756

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 370.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	641	4	448100 214287
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 608.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	641	4	447096 213587
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	642	4	448110 214285
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	645	4	448106 214290
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 704.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14NE (E)	647	4	448643 213784
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 96.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	680	4	448072 214329
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 311.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	680	4	448072 214329
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 560.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NW (SE)	719	4	448474 212874
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 1	A17SW (W)	760	4	447038 213867

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A7SE (SW)	763	4	447304 212795
74	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 15.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	771	4	448819 213372
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 838.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A14SE (E)	786	4	448833 213367
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 1	A17SW (NW)	798	4	447018 213914
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 148.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A15SW (E)	887	4	448933 213345
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 104.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A3NE (S)	927	4	447910 212488
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 693.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Rowel Brook Catchment Name: Thames Primacy: 1	A17SW (NW)	927	4	446992 214121
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A23SE (N)	932	4	448023 214585
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A23SE (N)	932	4	447964 214586

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A23SE (N)	935	4	448031 214588

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
83	Historical Landfill Sites Licence Holder: Ploughley Rural District Council Location: Yarnton, Oxfordshire Name: Sandy Lane East Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13585 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3100/0032 BGS Ref: Not Supplied Other Ref: TP0184, 13.6.4813	A13SE (SE)	246	2	448067 213204
84	Historical Landfill Sites Licence Holder: Not Supplied Location: Yarnton, Oxfordshire Name: Sandy Lane West Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13584 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3100/0031 BGS Ref: Not Supplied Other Ref: 13.6.4813, TP0183, 13.6.4713	A8NE (S)	300	2	447920 213117
85	Historical Landfill Sites Licence Holder: Not Supplied Location: Begbroke Name: Willow Way Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD13583 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert, Industrial, Commercial and Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 3100/0035 BGS Ref: Not Supplied Other Ref: 13.6.4714, TP0582	A18SW (NW)	440	2	447621 214009
	Local Authority Landfill Coverage Name: Cherwell District Council - Has supplied landfill data		0	3	447894 213520
	Local Authority Landfill Coverage Name: Oxfordshire County Council - Has supplied landfill data		0	5	447894 213520
86	Local Authority Recorded Landfill Sites Location: Sandy Lane B East, Yarnton Reference: 27 Authority: Cherwell District Council, Environmental Health Department Last Reported Status: Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A13SE (SE)	246	3	448065 213203
87	Local Authority Recorded Landfill Sites Location: Sandy Lane A West, Yarnton Reference: 26 Authority: Cherwell District Council, Environmental Health Department Last Reported Status: Types of Waste: Inert Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Good	A8NE (S)	283	3	447915 213134

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
88	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Willow Way Begbroke Reference: 36 Authority: Cherwell District Council, Environmental Health Department Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate</p>	A18SW (NW)	432	3	447588 213982
89	<p>Local Authority Recorded Landfill Sites</p> <p>Location: Willow Way Begbroke Reference: 36 Authority: Cherwell District Council, Environmental Health Department Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate</p>	A17SE (NW)	448	3	447547 213981

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Kellaways Formation And Oxford Clay Formation (Undifferentiated)	A13SW (N)	0	1	447894 213520
90	BGS Recorded Mineral Sites Site Name: The Sands Location: Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57528 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Jurassic Geology: Oxford Clay Formation And West Walton Formation (Undifferentiated) Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	315	1	447680 213100
91	BGS Recorded Mineral Sites Site Name: Sandy Lane Gravel Pit Location: Sandy Lane, Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57538 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	368	1	447850 213045
92	BGS Recorded Mineral Sites Site Name: Sandy Lane Gravel Pit Location: Sandy Lane, Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 231971 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Pleistocene Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A9NW (SE)	373	1	448294 213172
93	BGS Recorded Mineral Sites Site Name: Sandy Lane Gravel Pit Location: Sandy Lane, Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57539 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	373	1	448180 213105
94	BGS Recorded Mineral Sites Site Name: Fern Hill Gravel Pit Location: Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 231922 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Pleistocene Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A18SW (NW)	432	1	447643 213999

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	BGS Recorded Mineral Sites Site Name: Fern Hill Gravel Pit Location: Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 231965 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Pleistocene Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A18SW (N)	441	1	447732 214037
96	BGS Recorded Mineral Sites Site Name: Fern Hill Gravel Pit Location: Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 231921 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Pleistocene Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	459	1	447545 213992
97	BGS Recorded Mineral Sites Site Name: Fern Hill Gravel Pit Location: Begbroke Lane, Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57540 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A17SE (NW)	496	1	447461 213986
98	BGS Recorded Mineral Sites Site Name: Ivy House Gravel Pits Location: Begbroke, Kidlington, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57529 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Quaternary Geology: Summertown-Radley Sand And Gravel Member Commodity: Sand and Gravel Positional Accuracy: Located by supplier to within 10m	A8NW (S)	539	1	447785 212865
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Natural Cavities Easting: 448200 Northing: 213200 Distance: 296 Quadrant Reference: A13 Quadrant Reference: SE Bearing Ref: SE Cavity Type: Decalcification of Calcareous Rock Matrix x 1 Solid Geology Detail: Oxford Clay & Kellaway Beds Superficial Geology: River Terrace Deposits Detail:	A13SE (SE)	296	6	448200 213200
	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 (N)	0	1	447894 213520
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	129	1	447840 213744
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	154	1	448149 213695
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	154	1	448140 213713
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	0	1	447877 213635
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NW (N)	68	1	447861 213698
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	1	447894 213520

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Medical Diagnostics Location: Centre for Innovation & Enterprise, Begbroke Science Park, Begbroke Hill, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (W)	0	-	447841 213522
99	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Advanced Surfaces Location: Centre for Innovation & Enterprise, Begbroke Science Park, Begbroke Hill, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Chemical Engineers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (W)	0	-	447841 213522
99	<p>Contemporary Trade Directory Entries</p> <p>Name: Lascaux Pharmaceuticals Location: Centre for Innovation & Enterprise, Begbroke Science Park, Begbroke Hill, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (W)	0	-	447841 213522
99	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Genetics Ltd Location: Centre for Innovation & Enterprise, Begbroke Science Park, Begbroke Hill, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (W)	0	-	447841 213522
99	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Biodynamics Location: Centre for Innovation & Enterprise, Begbroke Science Park, Begbroke Hill, Yarnton, Kidlington, OX5 1PF Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	0	-	447837 213549
100	<p>Contemporary Trade Directory Entries</p> <p>Name: Microbial Solutions Ltd Location: Christian Building, Begbroke Science Park, Begbroke Hill, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Chemical Recycling & Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	-	447888 213465
100	<p>Contemporary Trade Directory Entries</p> <p>Name: Omass Technologies Ltd Location: Automotive Lighting UK the Christian Building, Begbroke Science Park, Begbroke Hill, Begbroke, OX5 1PF Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	-	447891 213466
100	<p>Contemporary Trade Directory Entries</p> <p>Name: Novarc Location: Unit 8, Begbroke Business & Science Park, Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Tool Design, Manufacturers & Makers Status: Inactive Positional Accuracy: Automatically positioned in the proximity of the address</p>	A13SE (SE)	0	-	447933 213466
100	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxloc Location: Begbroke Business & Science Park, Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	-	447888 213465
100	<p>Contemporary Trade Directory Entries</p> <p>Name: Rochford Medical Location: Begbroke Business & Science Park, Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PF Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (S)	0	-	447888 213465

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	Contemporary Trade Directory Entries Name: Taurus Crane Sales Ltd Location: Sandy La, Yarnton, Kidlington, Oxfordshire, OX5 1PB Classification: Crane Hire, Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (S)	247	-	447828 213164
102	Contemporary Trade Directory Entries Name: Mr R J Arnold Location: Unit G, Sandy La, Yarnton, Kidlington, Oxfordshire, OX5 1PB Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8NW (S)	267	-	447758 213137
103	Contemporary Trade Directory Entries Name: Motivair Compressors Ltd Location: 28 Sandy La, Yarnton, Kidlington, Oxfordshire, OX5 1PD Classification: Air Compressors Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8NW (SW)	271	-	447696 213142
104	Contemporary Trade Directory Entries Name: A W B S Ltd Location: Yarnton Nurseries Garden Centre, Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PA Classification: Builders' Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	295	-	447528 213228
104	Contemporary Trade Directory Entries Name: Blue Water Pools Location: Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PA Classification: Swimming Pool Contractors, Repairers & Service Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (SW)	295	-	447528 213228
105	Contemporary Trade Directory Entries Name: I M H Gas Services Location: 71, Fernhill Road, Begbroke, Kidlington, OX5 1RR Classification: Central Heating Supplies & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	361	-	447645 213926
105	Contemporary Trade Directory Entries Name: I M H Gas Services Location: 71, Fernhill Road, Begbroke, Kidlington, Oxfordshire, OX5 1RR Classification: Cookers - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	364	-	447644 213929
106	Contemporary Trade Directory Entries Name: Associated Interiors & Storage Systems Location: 60, Fernhill Road, Begbroke, Kidlington, Oxfordshire, OX5 1RR Classification: Materials Handling Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	422	-	447456 213887
107	Contemporary Trade Directory Entries Name: Humphris Refrigeration & Air Conditioning Ltd Location: 48, Fernhill Road, Begbroke, Kidlington, Oxfordshire, OX5 1RR Classification: Air Conditioning & Refrigeration Contractors Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	456	-	447406 213885
108	Contemporary Trade Directory Entries Name: Mule Vehicle Recovery And Transport Location: 11, Willow Way, Begbroke, Kidlington, Oxfordshire, OX5 1SD Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	462	-	447529 213988
109	Contemporary Trade Directory Entries Name: W B Contracting Location: The Caravan, Sandy Lane, Yarnton, Kidlington, Oxfordshire, OX5 1PA Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	520	-	448503 213196

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Contemporary Trade Directory Entries Name: Smart A B C Oxford North Location: 31, The Homestead, Kidlington, Oxfordshire, OX5 1SS Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	541	-	448496 213864
111	Contemporary Trade Directory Entries Name: R S Arthur Engineering Location: 23, Begbroke Lane, Begbroke, Kidlington, Oxfordshire, OX5 1RN Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	609	-	447356 214048
111	Contemporary Trade Directory Entries Name: South Midlands Hydraulics Ltd Location: 13, Begbroke Lane, Begbroke, Kidlington, Oxfordshire, OX5 1RN Classification: Hydraulic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	634	-	447311 214042
111	Contemporary Trade Directory Entries Name: Indukey Uk Ltd Location: 11, Begbroke Lane, Begbroke, Kidlington, Oxfordshire, OX5 1RN Classification: Computer Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	637	-	447305 214041
112	Contemporary Trade Directory Entries Name: Interiors For The Office Location: Unit 7, Oxonian Park, Langford Locks, Kidlington, Oxfordshire, OX5 1FP Classification: Office Furniture & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	690	-	448279 214283
112	Contemporary Trade Directory Entries Name: O E P Location: Unit 5, Oxonian Park, Langford Locks, Kidlington, Oxfordshire, OX5 1FP Classification: Windmills & Wind Power Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	702	-	448293 214290
112	Contemporary Trade Directory Entries Name: Camhill Transformers Ltd Location: Unit 5, Oxonian Park, Langford Locks, Kidlington, Oxfordshire, OX5 1FP Classification: Transformer Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A19NW (NE)	702	-	448293 214290
113	Contemporary Trade Directory Entries Name: Pace Motor Company Location: Woodstock Rd East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Car Dealers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A12NW (NW)	691	-	447111 213861
113	Contemporary Trade Directory Entries Name: Texaco Location: Woodstock Road East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (NW)	691	-	447111 213861
113	Contemporary Trade Directory Entries Name: Begbroke Car Sales Location: Woodstock Road East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (NW)	691	-	447111 213861
113	Contemporary Trade Directory Entries Name: Engine Services Location: Woodstock Road East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Engine Rebuilding & Reconditioning Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (NW)	691	-	447111 213861
113	Contemporary Trade Directory Entries Name: Jw Auto Repairs Location: Woodstock Road East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (NW)	691	-	447111 213861

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
113	<p>Contemporary Trade Directory Entries</p> <p>Name: L K W Campers Oxford Location: Oxford Motor Village, Woodstock Road, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Car Dealers - Used Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NW (NW)	694	-	447109 213863
114	<p>Contemporary Trade Directory Entries</p> <p>Name: Picture Poetry Ltd Location: 12, Morrell Close, Kidlington, Oxfordshire, OX5 1BD Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	719	-	448726 213747
115	<p>Contemporary Trade Directory Entries</p> <p>Name: Priceys Recovery Location: 29, Begbroke Crescent, Begbroke, Kidlington, Oxfordshire, OX5 1RW Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	753	-	447322 214203
116	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxuniprint Location: Unit 10, Oxonian Park, Langford Locks, Kidlington, Oxfordshire, OX5 1FP Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18NE (N)	770	-	448222 214390
117	<p>Contemporary Trade Directory Entries</p> <p>Name: Pace Motor Co Location: Woodstock Rd East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A17SW (NW)	780	-	447055 213947
117	<p>Contemporary Trade Directory Entries</p> <p>Name: Solo Italia Ltd Location: Halfway Garage, Woodstock Road East, Begbroke, Kidlington, Oxfordshire, OX5 1RL Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A17SW (NW)	797	-	447053 213978
118	<p>Contemporary Trade Directory Entries</p> <p>Name: Shell Service Station Location: 98, Woodstock Road, Yarnton, Kidlington, OX5 1PL Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	784	-	447907 212631
118	<p>Contemporary Trade Directory Entries</p> <p>Name: Texaco Location: 98, Woodstock Road, Yarnton, Kidlington, Oxfordshire, OX5 1PL Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	784	-	447907 212631
119	<p>Contemporary Trade Directory Entries</p> <p>Name: Tcs Location: 94, Wilsdon Way, Kidlington, Oxfordshire, OX5 1TX Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	795	-	448594 214180
120	<p>Contemporary Trade Directory Entries</p> <p>Name: Oven Cleaning Kidlington Location: 48, Lyne Road, Kidlington, Oxfordshire, OX5 1AD Classification: Oven cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SE (NE)	806	-	448702 214046
121	<p>Contemporary Trade Directory Entries</p> <p>Name: M D Electro Mech Repairs Location: 20, Osborne Close, Kidlington, Oxfordshire, OX5 1TU Classification: Electric Motor Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	810	-	448862 213412

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
122	Contemporary Trade Directory Entries Name: Kidlington Caravans Location: 19, Belgrove Close, Kidlington, Oxfordshire, OX5 1TT Classification: Caravans - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	852	-	448903 213516
123	Contemporary Trade Directory Entries Name: B P Service Station Location: 93, Woodstock Road, Yarnton, Kidlington, OX5 1PT Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A8SE (S)	859	-	447911 212556
123	Contemporary Trade Directory Entries Name: Pontings Of Oxford Location: Blenheim Service Station, 93, Woodstock Road, Yarnton, Kidlington, Oxfordshire, OX5 1PT Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	875	-	447919 212540
123	Contemporary Trade Directory Entries Name: Blenheim Car Sales & Servicing Ltd Location: 93, Woodstock Road, Yarnton, Kidlington, Oxfordshire, OX5 1PT Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	875	-	447919 212540
123	Contemporary Trade Directory Entries Name: Fits N Starts Location: 93, Woodstock Road, Yarnton, Kidlington, Oxfordshire, OX5 1PT Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SE (S)	875	-	447919 212540
123	Contemporary Trade Directory Entries Name: Fits & Starts Location: Blenheim Service Station, 93, Woodstock Road, Yarnton, Kidlington, Oxfordshire, OX5 1PT Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	875	-	447919 212540
124	Contemporary Trade Directory Entries Name: Penneys Cleaning & Support Services Ltd Location: 123, Rutten Lane, Yarnton, Kidlington, Oxfordshire, OX5 1LT Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	876	-	447467 212580
124	Contemporary Trade Directory Entries Name: Penneys Ltd Location: 123, Rutten Lane, Yarnton, Kidlington, Oxfordshire, OX5 1LT Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	876	-	447467 212580
125	Contemporary Trade Directory Entries Name: H T C Oxford Location: Unit 16, Chancerygate Business Centre, Langford Lane, Kidlington, OX5 1FQ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NE (N)	887	-	447955 214539
125	Contemporary Trade Directory Entries Name: Heathrow Truck Centre Oxford Location: Unit 16, Chancerygate Business Centre, Langford Lane, Kidlington, OX5 1FQ Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	887	-	447955 214539
126	Contemporary Trade Directory Entries Name: Ultimate Dents Ltd Location: 52, Chorefields, Kidlington, Oxfordshire, OX5 1SX Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19SE (NE)	887	-	448705 214189

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
127	Contemporary Trade Directory Entries Name: Solid State Logic Location: 25, Springhill Road, Begbroke, Kidlington, Oxfordshire, OX5 1RU Classification: Electronic Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	891	-	446881 213818
127	Contemporary Trade Directory Entries Name: Solid State Logic Location: 25, Springhill Road, Begbroke, Kidlington, Oxfordshire, OX5 1RU Classification: Sound Equipment Systems Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A11NE (W)	891	-	446881 213818
128	Contemporary Trade Directory Entries Name: Hartwell Renault Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1FH Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Cross Roads Garage Location: Oxford Motor Park, Langford La, Kidlington, Oxfordshire, OX5 1RY Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18NW (N)	899	-	447837 214538
128	Contemporary Trade Directory Entries Name: Marshall Volkswagen Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1RY Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Hartwell Ford Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1FH Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Hartwell Oxford Ford Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1FH Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Hartwell Oxford Vauxhall Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1RY Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Hartwell Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1RY Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Hartwell Ford Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1FH Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
128	Contemporary Trade Directory Entries Name: Skurrys Vauxhall Location: Oxford Motor Park, Langford Lane, Kidlington, Oxfordshire, OX5 1RY Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	899	-	447837 214539
129	Contemporary Trade Directory Entries Name: F G Alden Ltd Location: Langford Locks, KIDLINGTON, Oxfordshire, OX5 1LJ Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A23SE (N)	931	-	448134 214575

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Contemporary Trade Directory Entries Name: Reflection Location: 171, Wilsdon Way, Kidlington, Oxfordshire, OX5 1TZ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NE (NE)	938	-	448683 214294
131	Contemporary Trade Directory Entries Name: Gleamteam Valeting Oxford Ltd Location: 1, Flatford Place, Kidlington, Oxfordshire, OX5 1TQ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A19NW (NE)	943	-	448464 214473
132	Contemporary Trade Directory Entries Name: G P S Sprayers Ltd Location: Unit 11, Chancerygate Business Centre, Langford Lane, Kidlington, OX5 1FQ Classification: Agricultural Machinery - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A23SE (N)	959	-	447931 214610
133	Contemporary Trade Directory Entries Name: Cobham Technical Services Location: Network House, Langford Locks, Kidlington, Oxfordshire, OX5 1LH Classification: Electronic Component Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A24SW (N)	961	-	448269 214575
134	Contemporary Trade Directory Entries Name: Blackmore Precision Engineering Location: Unit 28, Chancerygate Business Centre, Langford Lane, Kidlington, Oxfordshire, OX5 1FQ Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SW (N)	976	-	447872 214621
135	Fuel Station Entries Name: Begbroke Car Sales Location: Woodstock Road East , Begbroke , Kidlington, Oxfordshire, OX5 1RQ Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A12NW (NW)	691	-	447111 213861
136	Fuel Station Entries Name: Yarnton Service Station Location: 98, Woodstock Road , Yarnton , Kidlington, Oxfordshire, OX5 1PL Brand: Shell Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A8SE (S)	784	-	447907 212631
137	Fuel Station Entries Name: Frasers Budgens Of Yarnton Location: 93, Woodstock Road , Yarnton , Kidlington, Oxfordshire, OX5 1PT Brand: Bp Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A8SE (S)	876	-	447932 212540

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	Areas of Adopted Green Belt Authority: Cherwell District Council Plan Name: Cherwell Local Plan Status: Adopted Plan Date: 20th July 2015	A13SW (N)	0	8	447894 213520
139	Nitrate Vulnerable Zones Name: Cherwell (Ray To Thames) And Woodeaton Brook Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SW (N)	0	10	447894 213520
140	Sites of Special Scientific Interest Name: Rushy Meadows Multiple Areas: N Total Area (m2): 89332.1 Source: Natural England Reference: 1001685 Designation Details: Site Of Special Scientific Interest Designation Date: 4th December 1985 Date Type: Notified	A18SE (NE)	374	7	448141 213999

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices South Oxfordshire District Council - Environmental Health Department Oxford City Council - Environmental Health Department Vale of White Horse District Council - Environmental Health Department Cherwell District Council - Environmental Health Department West Oxfordshire District Council - Environmental Health Department	January 2015 March 2015 March 2015 October 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	January 2018	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - Thames Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region	January 2018 January 2018	Quarterly Quarterly
Local Authority Integrated Pollution Prevention And Control South Oxfordshire District Council - Environmental Health Department Vale of White Horse District Council - Environmental Health Department West Oxfordshire District Council - Environmental Health Department Oxford City Council - Environmental Health Department Cherwell District Council - Environmental Health Department	June 2014 June 2014 June 2014 March 2015 October 2014	Variable Variable Variable Variable Variable
Local Authority Pollution Prevention and Controls South Oxfordshire District Council - Environmental Health Department Vale of White Horse District Council - Environmental Health Department West Oxfordshire District Council - Environmental Health Department Oxford City Council - Environmental Health Department Cherwell District Council - Environmental Health Department	June 2014 June 2014 June 2014 March 2015 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements South Oxfordshire District Council - Environmental Health Department Vale of White Horse District Council - Environmental Health Department West Oxfordshire District Council - Environmental Health Department Oxford City Council - Environmental Health Department Cherwell District Council - Environmental Health Department	June 2014 June 2014 June 2014 March 2015 October 2014	Variable Variable Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2017	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	As notified
Registered Radioactive Substances Environment Agency - Thames Region	January 2015	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - South East Area Environment Agency - Thames Region - West Area	January 2018 January 2018 January 2018	Quarterly Quarterly Quarterly

Agency & Hydrological	Version	Update Cycle
Water Abstractions Environment Agency - Thames Region	January 2018	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2017	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2017	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2017	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2017	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2017	Quarterly
Flood Defences Environment Agency - Head Office	November 2017	Quarterly
OS Water Network Lines Ordnance Survey	January 2018	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	As notified

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - Thames Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - West Area	January 2018 January 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - West Area	January 2018 January 2018	Quarterly Quarterly
Local Authority Landfill Coverage Cherwell District Council - Environmental Health Department Oxford City Council - Planning Business Unit Oxfordshire County Council South Oxfordshire District Council - Environmental Health Department Vale of White Horse District Council - Environmental Health Department West Oxfordshire District Council - Technical Services Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Cherwell District Council - Environmental Health Department Oxford City Council - Planning Business Unit Oxfordshire County Council South Oxfordshire District Council - Environmental Health Department Vale of White Horse District Council - Environmental Health Department West Oxfordshire District Council - Technical Services Department	May 2000 May 2000 May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - Thames Region - West Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - Thames Region - West Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - Thames Region - West Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	September 2017	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Cherwell District Council Oxfordshire County Council South Oxfordshire District Council - Planning Department (West) Vale of White Horse District Council West Oxfordshire District Council Oxford City Council - Planning Business Unit	February 2016 February 2016 February 2016 February 2016 February 2016 October 2015	Variable Variable Variable Variable Variable Variable
Planning Hazardous Substance Consents Cherwell District Council Oxfordshire County Council South Oxfordshire District Council - Planning Department (West) Vale of White Horse District Council West Oxfordshire District Council Oxford City Council - Planning Business Unit	February 2016 February 2016 February 2016 February 2016 February 2016 October 2015	Variable Variable Variable Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2017	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2017	Quarterly
Fuel Station Entries Catalist Ltd - Experian	February 2018	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	October 2017	Bi-Annually
Areas of Adopted Green Belt Cherwell District Council Oxford City Council South Oxfordshire District Council Vale of White Horse District Council West Oxfordshire District Council	February 2018 February 2018 February 2018 February 2018 February 2018	As notified As notified As notified As notified As notified
Areas of Unadopted Green Belt Cherwell District Council Oxford City Council South Oxfordshire District Council Vale of White Horse District Council West Oxfordshire District Council	February 2018 February 2018 February 2018 February 2018 February 2018	As notified As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	February 2018	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	February 2018	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	February 2018	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	February 2018	Bi-Annually
Sites of Special Scientific Interest Natural England	August 2017	Bi-Annually
Special Areas of Conservation Natural England	January 2018	Bi-Annually
Special Protection Areas Natural England	February 2018	Bi-Annually

A selection of organisations who provide data within this report


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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Cherwell District Council - Environmental Health Department Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 extn 4511 Fax: 01295 270028 Website: www.cherwell-dc.gov.uk
4	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	Oxfordshire County Council County Hall, New Road, Oxford, Oxfordshire, OX1 1ND	Telephone: 01865 792422 Fax: 01865 810106 Email: environmental.services@oxfordshire.gov.uk Website: www.oxfordshire.gov.uk
6	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
7	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
8	Cherwell District Council Bodicote House, Bodicote, Banbury, Oxfordshire, OX15 4AA	Telephone: 01295 252535 Fax: 01295 270028 Website: www.cherwell-dc.gov.uk
9	West Oxfordshire District Council Council Offices, Wood Green, Witney, Oxfordshire, OX8 6NB	Telephone: 01993 770300 Fax: 01993 770238 Website: www.westoxon.gov.uk
10	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk








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

Geology 1:50,000 Maps Legends








Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	SURA	Summertown-Radley Sand and Gravel Member	Sand and Gravel	Pleistocene - Pleistocene
	HAN	Hanborough Gravel Member	Sand and Gravel	Pleistocene - Pleistocene
	WV	Wolvercote Sand and Gravel Member	Sand and Gravel	Pleistocene - Pleistocene
	SURAL	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, LOWER FACET	Sand and Gravel	Quaternary - Quaternary
	SURAU	SUMMERTOWN-RADLEY SAND AND GRAVEL MEMBER, UPPER FACET	Sand and Gravel	Quaternary - Quaternary
	NDR	Northern Drift Formation	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	KLS	Kellaways Sand Member	Sandstone and Siltstone, Interbedded	Callovian - Callovian
	OXWW	Oxford Clay Formation and West Walton Formation (Undifferentiated)	Mudstone	Oxfordian - Callovian
	KLC	Kellaways Clay Member	Mudstone	Callovian - Callovian
	CB	Combrash Formation	Limestone	Callovian - Bathonian
	FMB	Forest Marble Formation	Mudstone	Bathonian - Bathonian
	FMB	Forest Marble Formation	Limestone	Bathonian - Bathonian
		Faults		



Geology 1:50,000 Maps

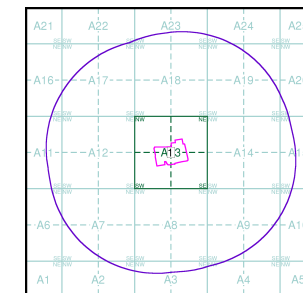
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	236
Map Name:	Witney
Map Date:	1982
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

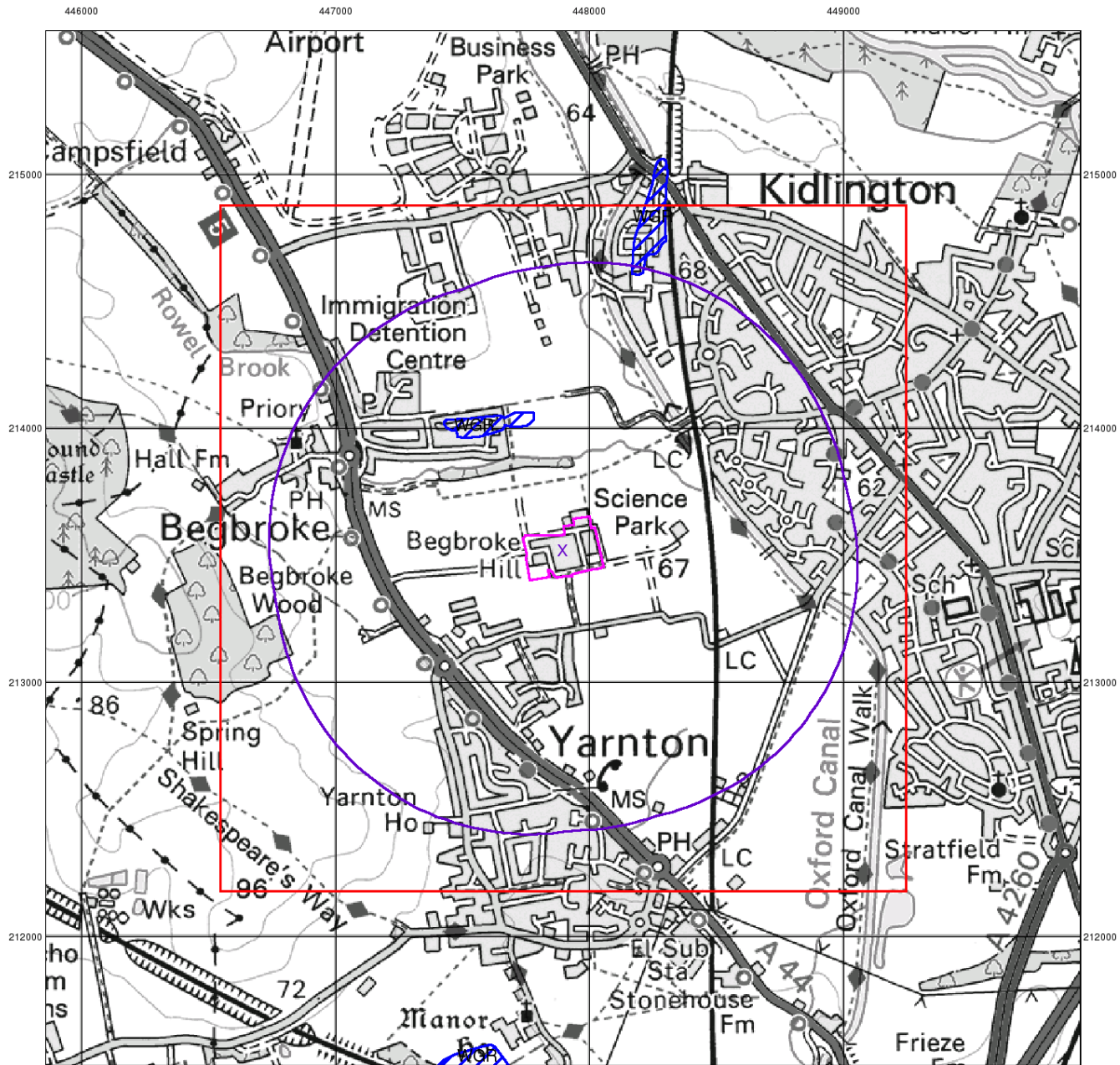


Order Details:

Order Number:	158805416_1_1
Customer Reference:	18143
National Grid Reference:	447890, 213520
Slice:	A
Site Area (Ha):	5.19
Search Buffer (m):	1000

Site Details:

Site at, Begbroke, Oxfordshire



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Artificial Ground and Landslip

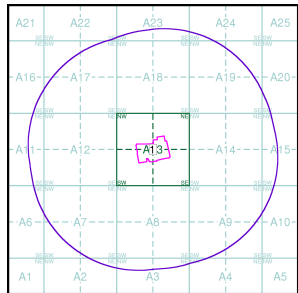
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

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

Artificial Ground and Landslip Map - Slice A



Order Details:

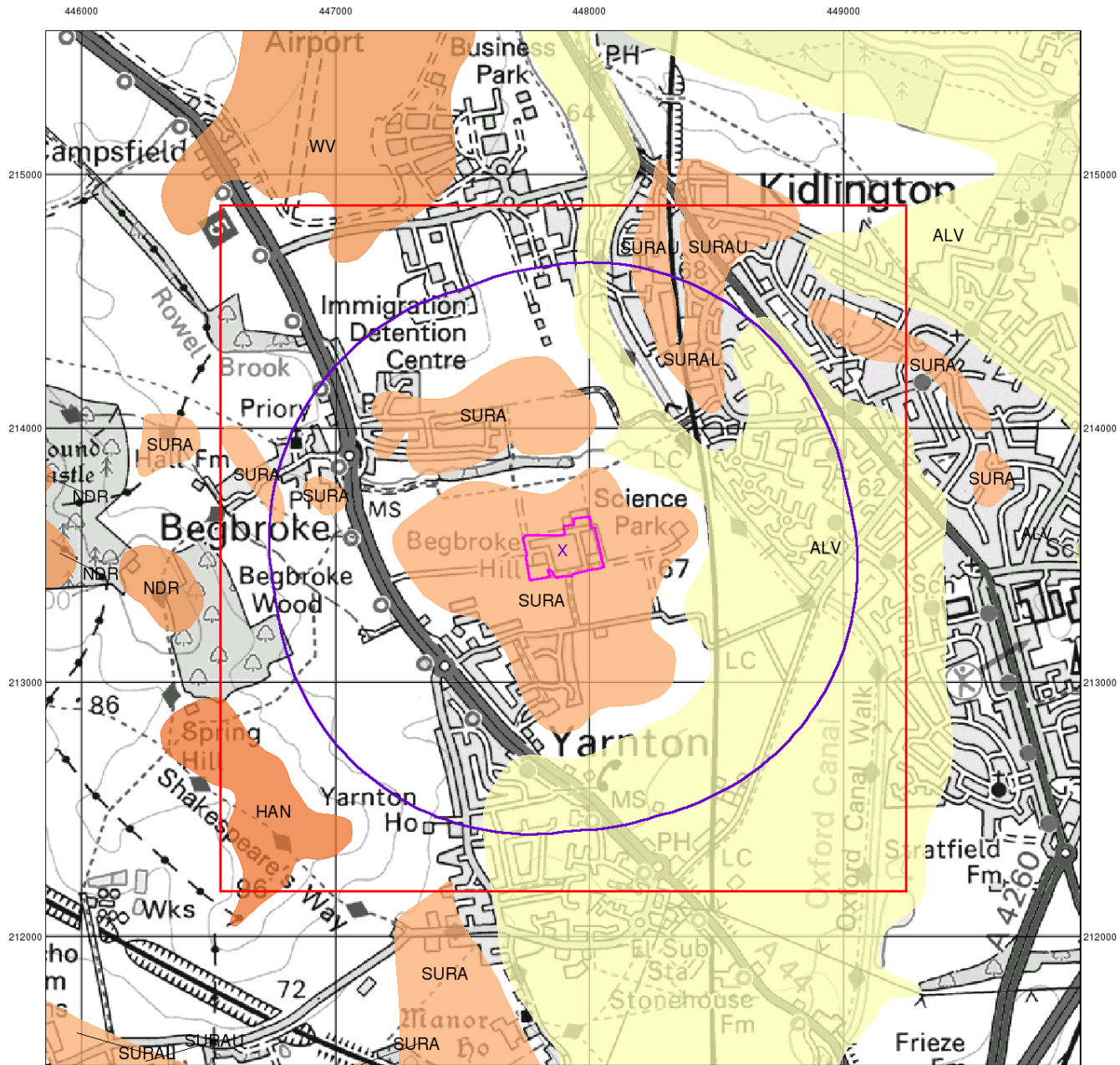
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 Customer Reference: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

Site Details:

Site at, Begbroke, Oxfordshire



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



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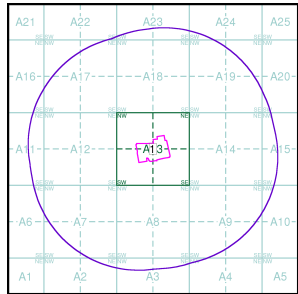
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Order Details:

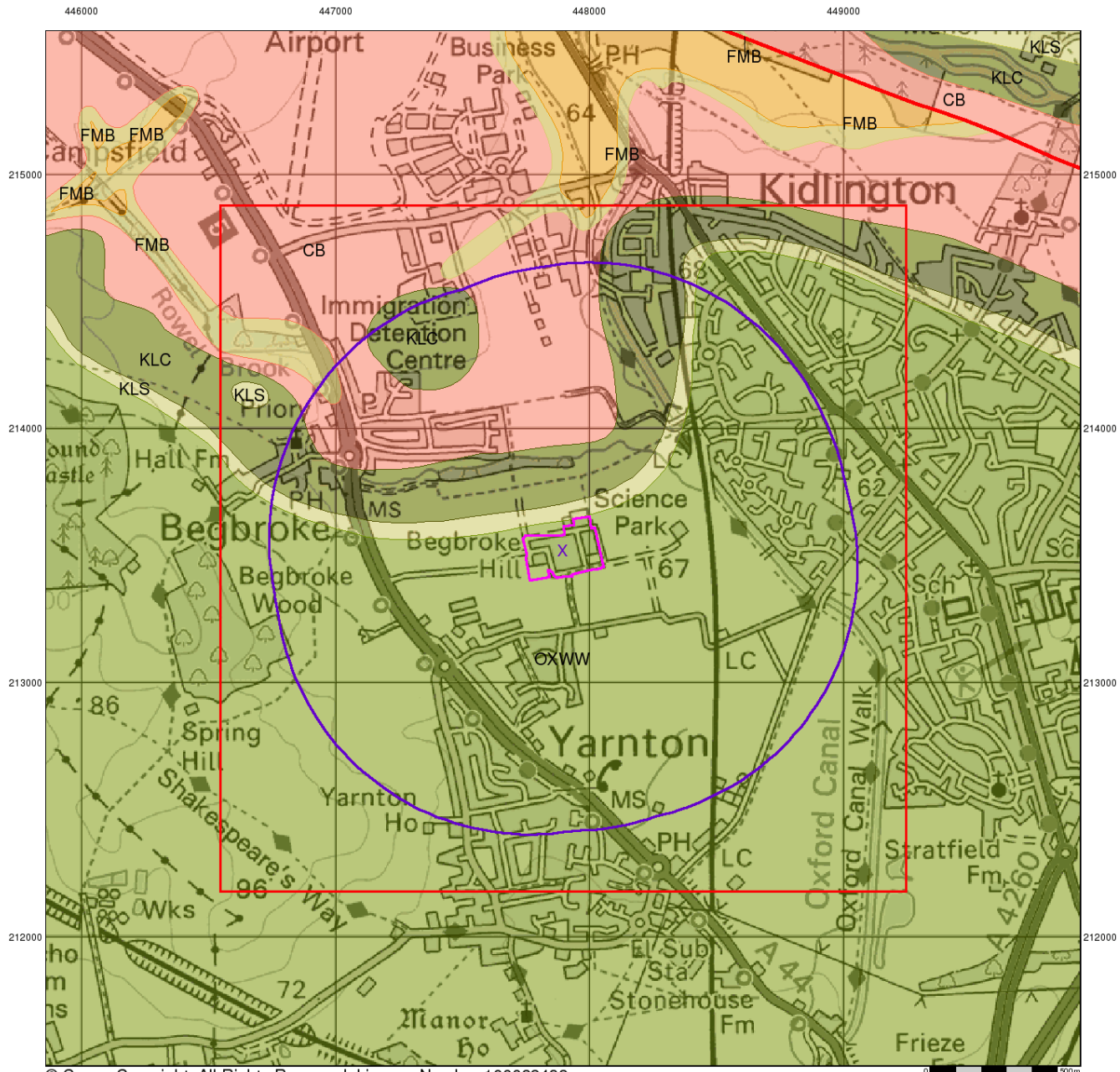
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 Customer Reference: 18143
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 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

Site Details:

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Bedrock and Faults

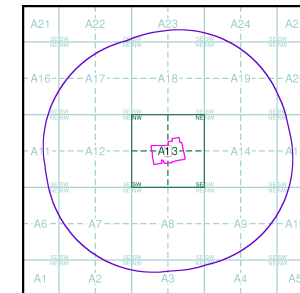
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 158805416_1_1
 Customer Reference: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

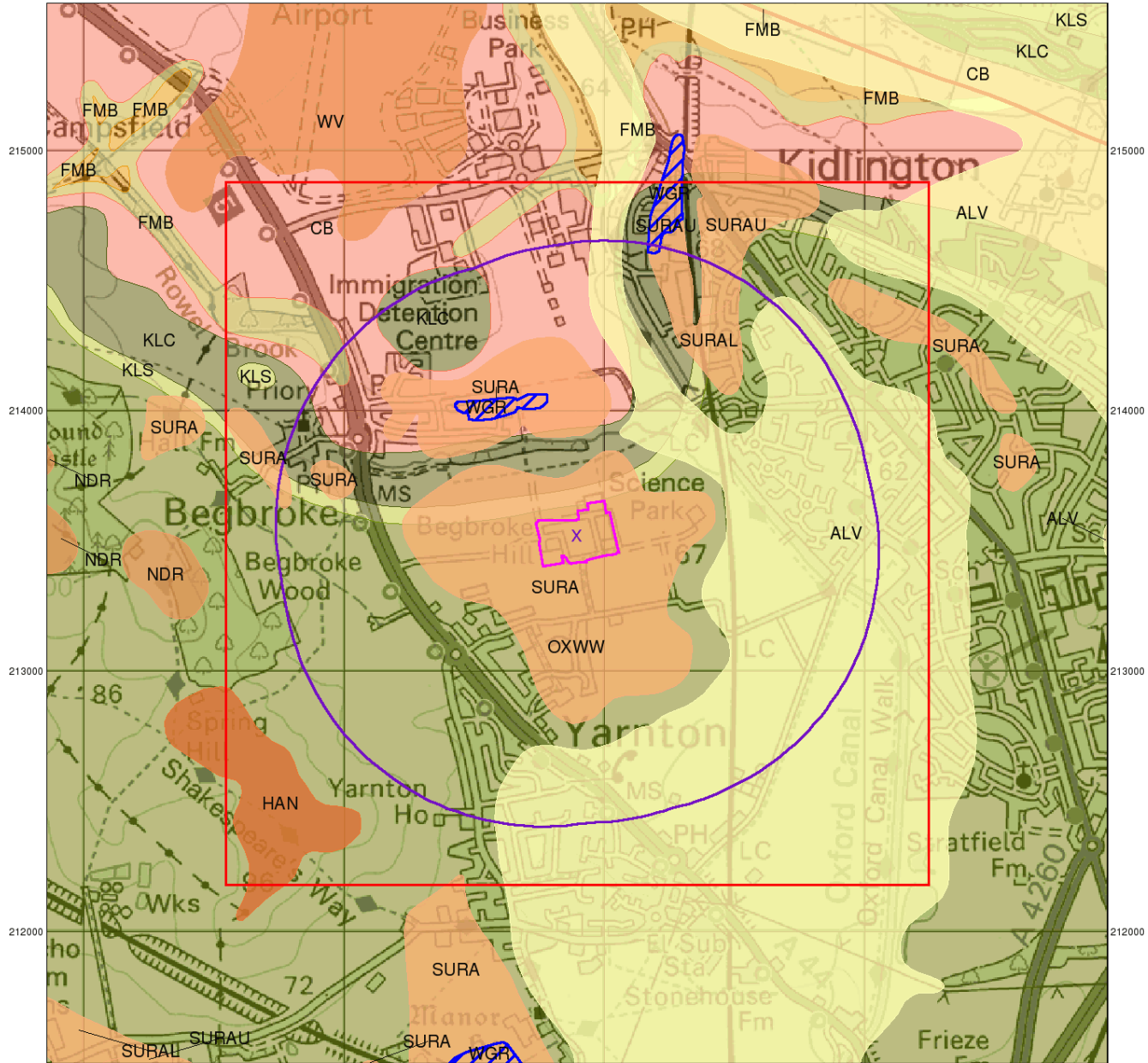
Site Details:

Site at, Begbroke, Oxfordshire



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446000 447000 448000 449000



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Combined Surface Geology

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

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

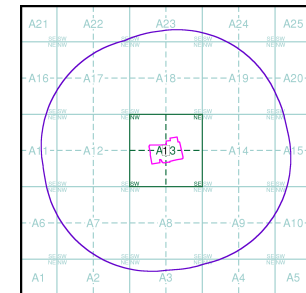
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order Details:

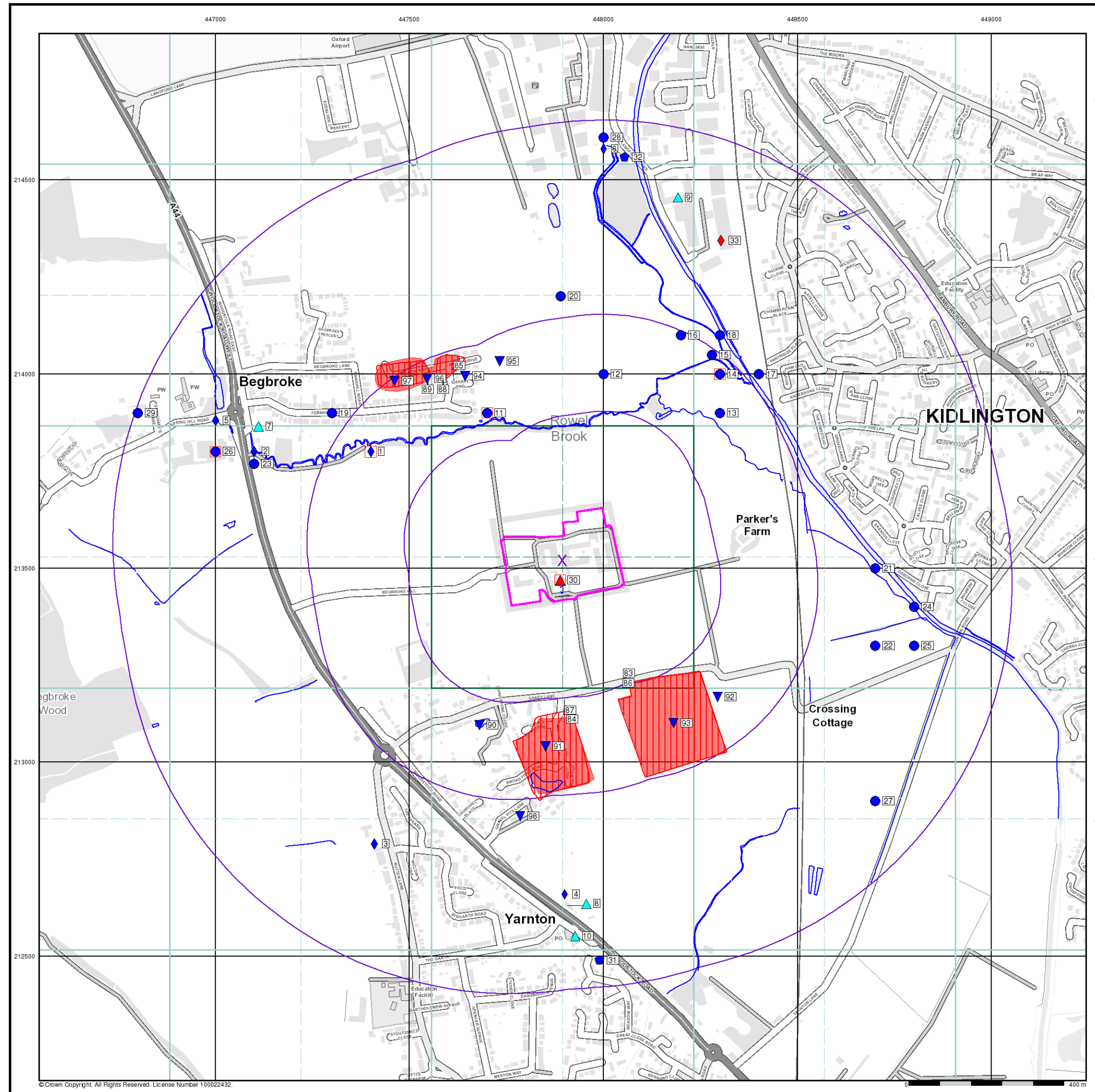
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Site Details:

Site at, Begbroke, Oxfordshire

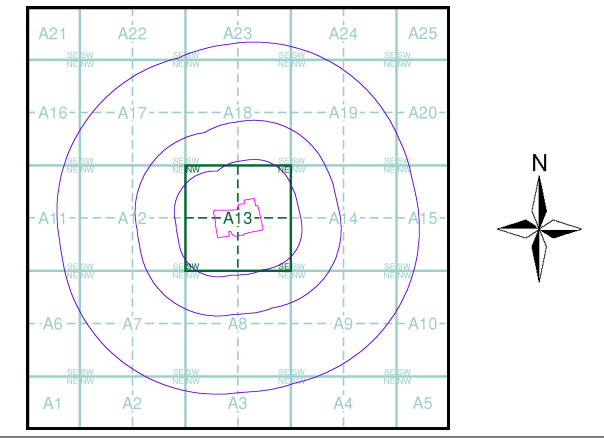


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 Web: www.envirocheck.co.uk



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

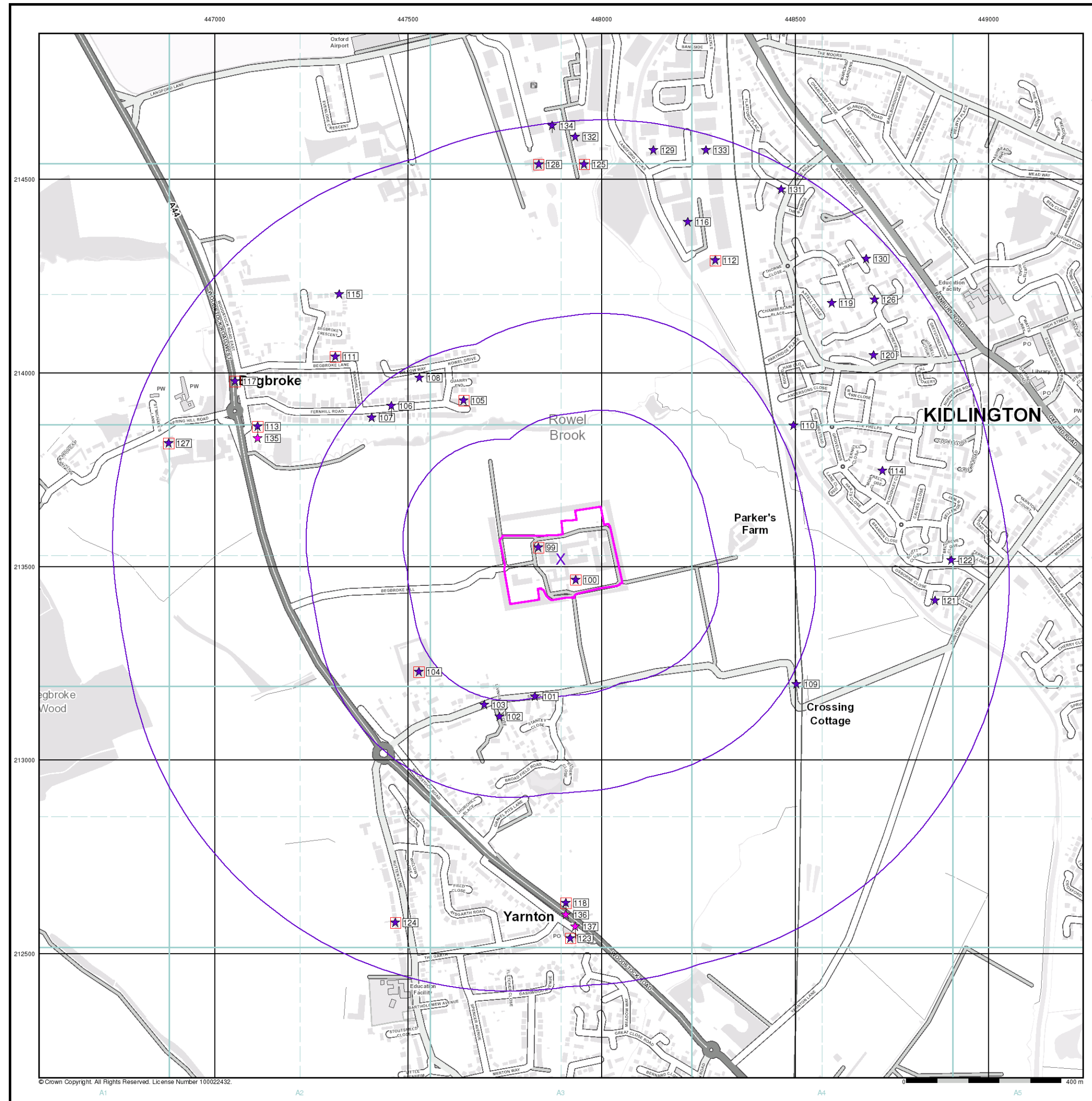
Site Sensitivity Map - Slice A



Order Details

Order Number: 158805416_1_1
 Customer Ref: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

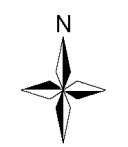
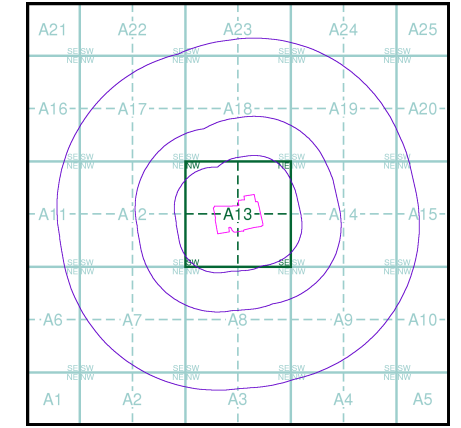
Site Details
 Site at, Begbroke, Oxfordshire



Industrial Land Use Map

- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slice
 - Map ID
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipeline
 - Underground Electrical Cables

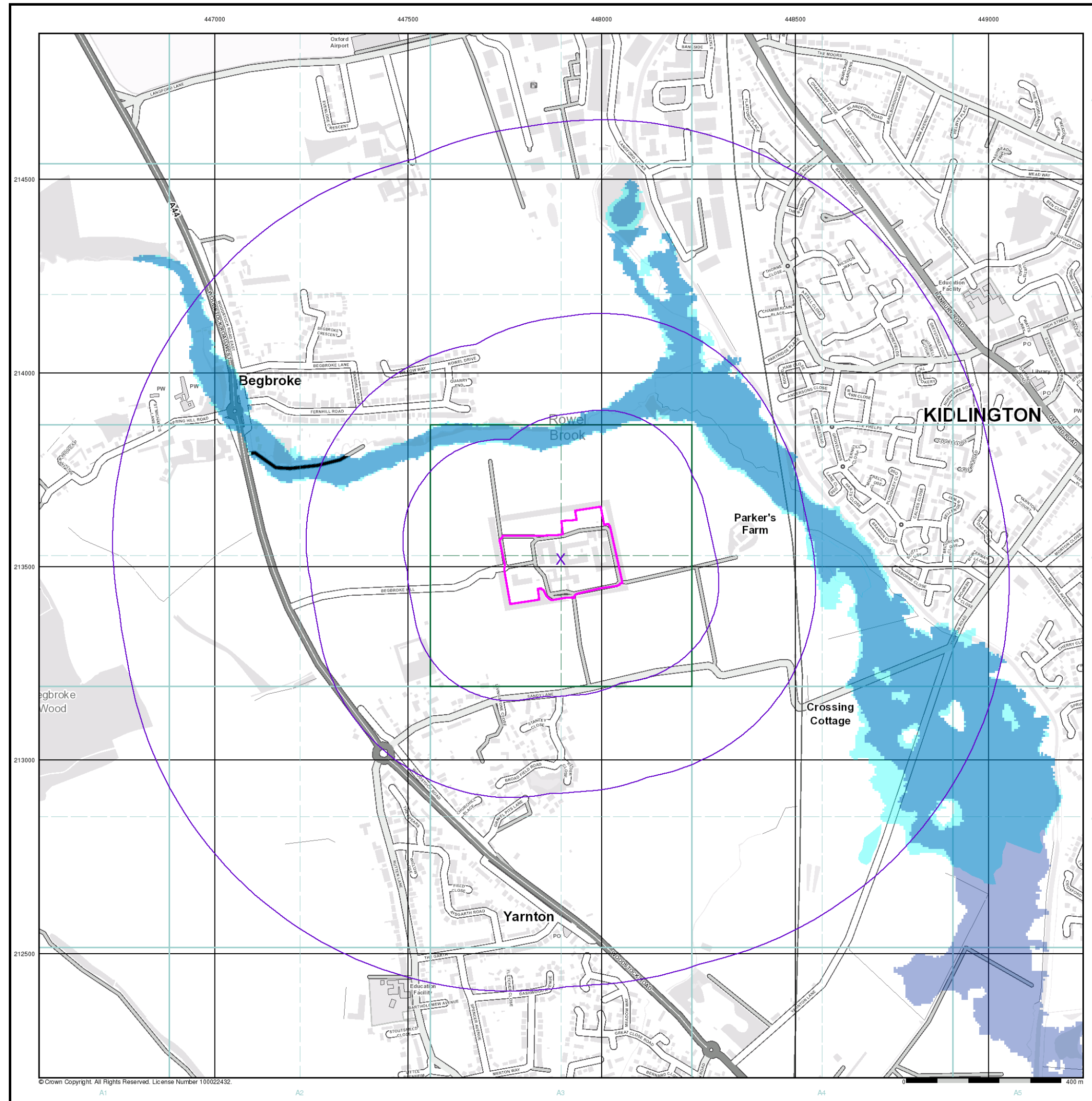
Industrial Land Use Map - Slice A



Order Details

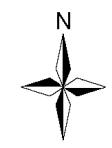
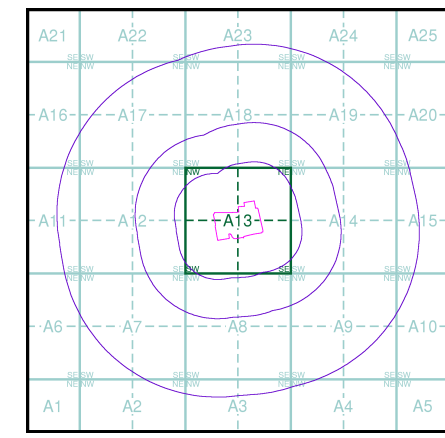
Order Number: 158805416_1_1
 Customer Ref: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

Site Details
 Site at, Begbroke, Oxfordshire



- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
- Agency and Hydrological (Flood)**
- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
 - Flooding from Rivers or Sea without Defences (Zone 3)
 - Area Benefiting from Flood Defence
 - Flood Water Storage Areas
 - Flood Defence

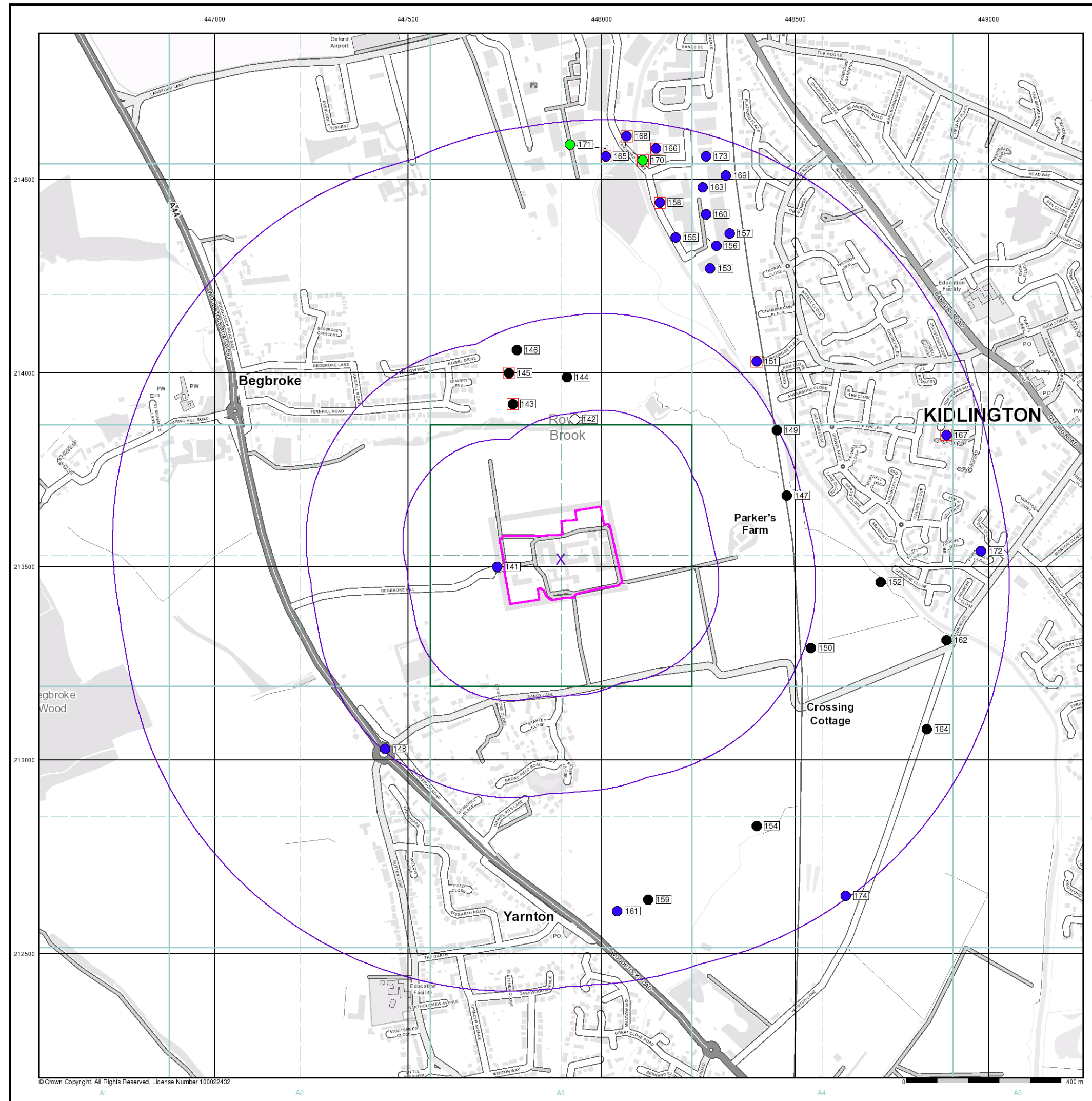
Flood Map - Slice A



Order Details

Order Number: 158805416_1_1
 Customer Ref: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

Site Details
 Site at, Begbroke, Oxfordshire



General

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

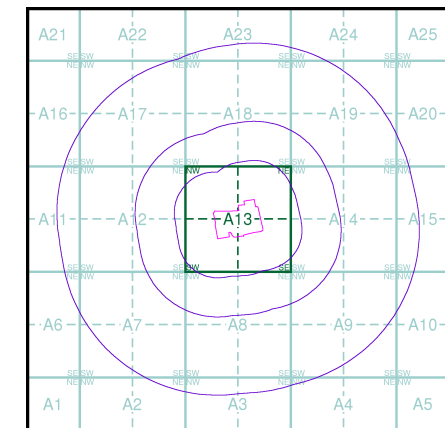
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

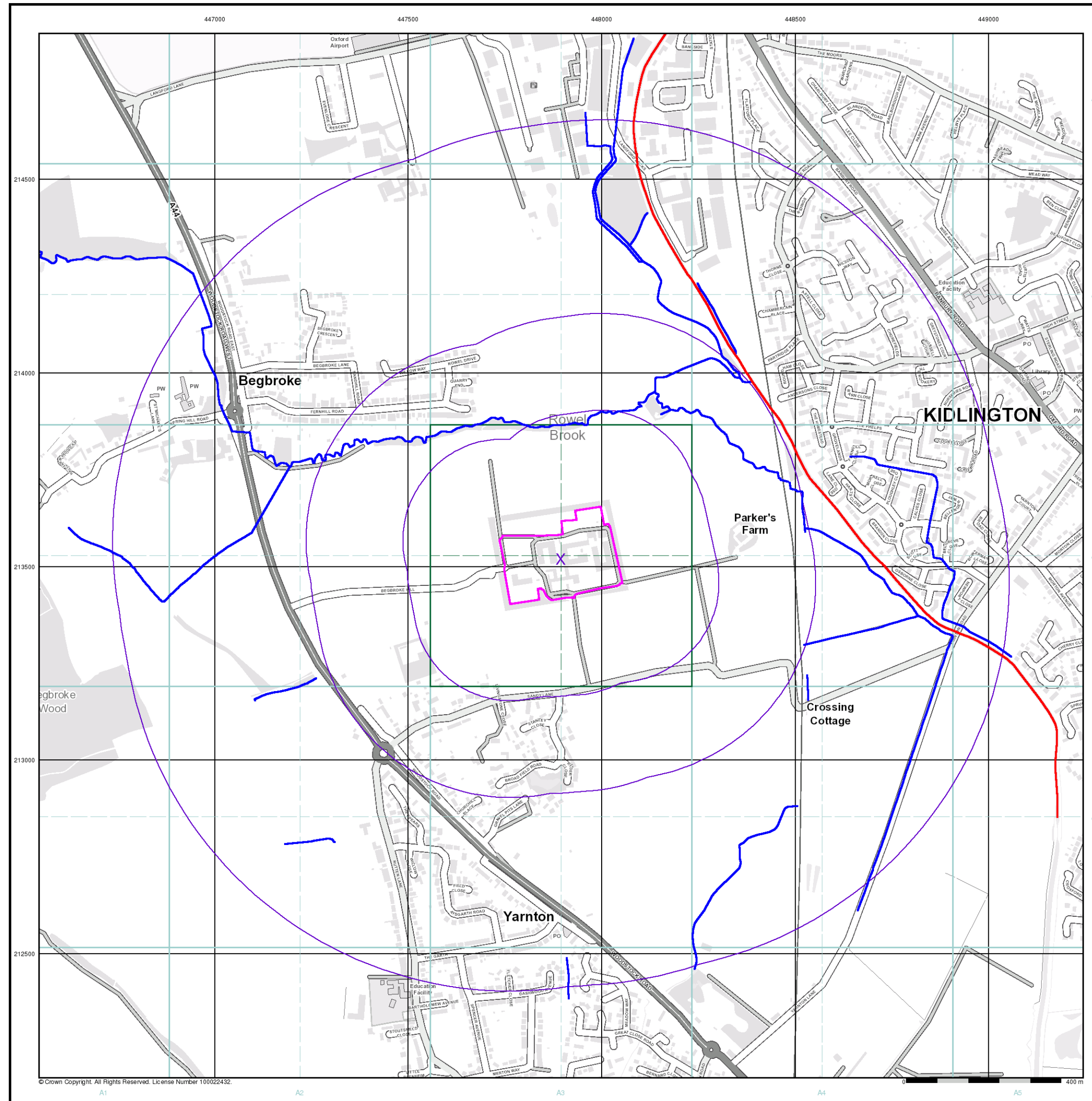


Order Details

Order Number: 158805416_1_1
 Customer Ref: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

Site Details

Site at, Begbroke, Oxfordshire



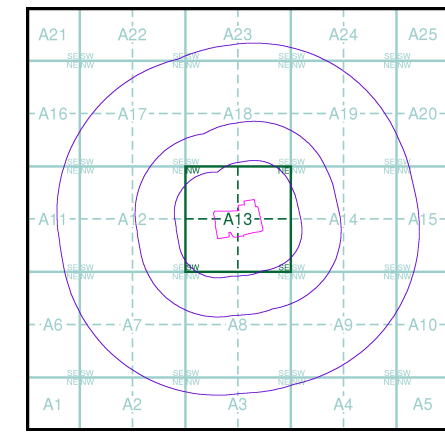
General

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

OS Water Network Data

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

OS Water Network Map - Slice A



Order Details

Order Number: 158805416_1_1
 Customer Ref: 18143
 National Grid Reference: 447890, 213520
 Slice: A
 Site Area (Ha): 5.19
 Search Buffer (m): 1000

Site Details

Site at, Begbroke, Oxfordshire