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Proposed Redevelopment of the Former Cowley Conservative Club, Between Towns Road, Oxford

**Phase 1 Ground Condition Assessment
(Contamination and Land Stability)**

On behalf of **Cantay Estates**

Project Ref: 46381/3501 | Rev: 00 | Date: August 2019

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Document Control Sheet

Project Name: Proposed Redevelopment of the Former Cowley Conservative Club, Between Towns Road, Oxford

Project Ref: 46381/3501

Report Title: Phase 1 Ground Condition Assessment (Contamination and Land Stability)

Doc Ref: 46381/3501/R001/GCA/Rev00

Date: August 2019

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Revision	Date	Description	Prepared	Reviewed	Approved
00	Aug '19	Final for Issue	NC	RF	PJ

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Contents

1	Introduction	1
1.1	Preamble	1
1.2	Objectives	1
1.3	Proposed Development	1
1.4	Methodology	1
1.5	Sources of Information	3
2	Land Use Information	5
2.1	Introduction	5
2.2	Site Location and General Description	5
2.3	Current Land Use	5
2.4	Historical Land Use	6
3	Environmental Setting	8
3.1	Introduction	8
3.2	Published Geology	8
3.3	Industrial Setting	9
3.4	Controlled Waters – Groundwater	10
3.6	Former Contaminative Land Uses	11
3.7	Enquires to Regulatory Authorities	12
3.8	Ecological Systems	12
3.1	Property – Buildings	12
3.2	Property – Animal or Crop Effect	12
3.3	Unexploded Ordnance (UXO)	13
4	Potential Ground Stability Constraints	14
4.1	Introduction	14
4.1	Naturally Occurring Geological Hazards	14
4.3	Radon	15
4.4	Slope Stability	15
4.5	Potentially Adverse Foundation Conditions	15
5	Tier 1 Preliminary Geoenvironmental Risk Assessment	17
5.1	Introduction	17
5.2	Conceptual Site Model	17
5.3	Geoenvironmental Hazard Classification	17
5.4	Pathways	17
5.5	Hazard Assessment	18
5.6	Risk Estimation	18
6	Conclusions and Recommendations	20
6.1	Geoenvironmental Considerations	20
6.1	Geotechnical and Ground Stability	20

6.2	Recommendations.....	20
7	Essential Guidance for Readers	21
	References	23

Figures

Figure 1	Site Location Plan
Figure 2	Site Layout and Walkover Plan

Tables

Table 3-1	Summary of Ground Conditions at Swan Motor Centre	9
Table 3-2	Summary of Environmental and Industrial Setting.....	9
Table 3-3	Summary of the Hydrogeology and Groundwater Vulnerability Related Information	11
Table 3-4	Summary of Surface Water Related Information	11
Table 4-1	Summary of Geological Hazards On-Site	14
Table 5-1	Potential Receptors and Sensitivity Score	18
Table 5-2	Worst - Case Risk Estimation	19

Appendices

Appendix A	Proposed Masterplan
Appendix B	PBA Methodology
Appendix C	Walkover Photographs
Appendix D	Envirocheck Report
Appendix E	OCC Environmental Search
Appendix F	BGS Borehole Records
Appendix G	Estimated Risk Table

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1 Introduction

1.1 Preamble

- 1.1.1 Peter Brett Associates LLP (PBA), now part of Stantec, has been commissioned by Cantay Estates (the Client) to undertake a Phase 1 Ground Condition Assessment for the Proposed Redevelopment of the Former Cowley Conservative Club, Between Towns Road, Oxford.
- 1.1.2 This report presents the findings of desk study researches, together with observations from a site walkover. It includes a preliminary land stability appraisal and a Tier 1 (preliminary/qualitative) contamination risk assessment.
- 1.1.3 It should be noted that the Phase 1 is a land condition assessment and does not purport to be an ecological, flood risk, archaeological survey etc. and as such additional surveys may be required to support a planning application.
- 1.1.4 Guidance on the use of this report is provided in **Section 7**.

1.2 Objectives

- 1.2.1 The National Planning Policy Framework (NPPF) (MHCLG, 2019) stipulates that planning policies and decisions should ensure that “a *site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation)*”; and that “*after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part 2A of the Environmental Protection Act 1990; and adequate site investigation information, prepared by a competent person, is available to inform these assessments*”
- 1.2.2 The objective of this report is to identify the likely ground conditions using published and publicly available information (see below for sources of information accessed) and to assess whether there are land instability or contamination risks associated with the ground conditions that may require management (remediation or mitigation).

1.3 Proposed Development

- 1.3.1 It is understood that the Client proposes to submit a planning application for the redevelopment of the site for residential apartments (student accommodation). The apartment blocks will form two wings, each four-stories in height, which will occupy the northern and southern areas of the site area respectively and connect on the western site boundary fronting Between Towns Road. An open courtyard area will be present between the two wings in the central site area with vehicular access from the southern site boundary into the eastern area of the site.
- 1.3.2 A proposed masterplan for the site is presented at the end of this report in **Appendix A** for reference.

1.4 Methodology

Assessment of Ground Conditions - Contamination

- 1.4.1 UK legislation on the contamination of land from historical activities is principally contained in Part 2A of the Environmental Protection Act, 1990 (which was inserted into the Act by Section 57 of the Environment Act 1995).

1.4.2 The Regulations and Statutory Guidance that accompanied the Act, including the Contaminated Land (England) Regulations 2006, have been revised with the issue of the Contaminated Land (England) (Amendment) Regulations 2012 (SI 2012/263) and the Contaminated Land Statutory Guidance for England 2012.

1.4.3 Under the NPPF, the broad approach, concepts and principles behind land contamination management advocated by the Part 2A regime are applied to the determination of planning applications. Contaminated Land Report 11 (CLR 11) of the Model Procedures for the Management of Contaminated Land (EA 2004) provides references to established technical and procedural practice.

CLR 11 presents a three-stage process to the management of contaminated land:

- Stage 1 = risk assessment
- Stage 2 = options appraisal and
- Stage 3 = implementation of remedial strategy

1.4.4 The Stage 1 risk assessment is undertaken in a phased manner with the three tiers being:

- Tier 1 – “preliminary risk assessment” – a qualitative assessment forming part of a Phase 1 report,
- Tier 2 – “generic risk assessment” - a quantitative assessment using published criteria to screen site specific ground condition data forming part of a Phase 2 report and
- Tier 3 – “detailed risk assessment” – a quantitative assessment involving the generation of site specific assessment criteria (SSAC).

1.4.5 The underlying principle is the evaluation of *pollutant linkages* in order to assess whether the presence of a source of contamination could potentially lead to harmful consequences. A pollutant linkage consists of the following three elements:

- A source of contamination or hazard that has the potential to cause harm or pollution;
- A pathway for the hazard to move along / generate exposure; and
- A receptor which is affected by the hazard.

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

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

1.4.7 The PBA methodology for ground condition assessment (contamination) is presented in **Appendix B**.

Assessment of Ground Conditions – Instability

- 1.4.8 Planning Authorities are required (NPPF paragraphs 178 and 179) to consider if land instability poses a potentially unacceptable risk to development. In paragraph 178, the requirement to take account of potential hazards arising from natural hazards (such as natural cavities) or former activities such as mining is outlined.
- 1.4.9 The preliminary ground stability assessment methodology adopted by PBA follows the guidance on preliminary land stability assessment given in the Planning Practice Guidance for Land Stability published by the Department for Communities and Local Government (DCLG 2014). The guidance requires, at least, a desk-based study and a site inspection visit by an appropriately qualified person.
- 1.4.10 The desk-based study comprises a review of existing readily available published sources of geological, geomorphological, hydrogeological and/or mining information on the site and its surroundings and a historical review including mapping and aerial imagery, if appropriate.
- 1.4.11 The preliminary stability assessment includes for example, where relevant, a review of geological hazards for the site such as natural and man-made (mining) cavities, landslide, cambering and block movement, collapsible and compressible soils, running sand, and subsidence and heave due to volumetric change in the ground.

1.5 Sources of Information

- 1.5.1 The following sources of information were used in the preparation of this report:
- A walkover survey, by a PBA representative, on the 13th August 2019 to observe existing conditions both on the Site and surrounding the land parcel – photographs are presented in **Appendix C**.
 - Envirocheck Report and historical maps provided by Landmark Information Group (LIG, 2019) which is presented in **Appendix D**.
 - Review of the Natural Cavity and Mining (non-coal) Cavity databases managed and enhanced by PBA.
 - Review of borehole records held by the British Geological Society (BGS) accessed via their website, <http://www.bgs.ac.uk/data/boreholescans/home.html>.
 - Review of map records held by the BGS accessed via their website <http://mapapps.bgs.ac.uk/geologyofbritain/home.html>
 - Review of the MAGIC (Multi-Agency Geographic Information for the Countryside) web site, <http://www.magic.gov.uk>. The MAGIC website provides authoritative geographic information about the natural environment from across government. The information covers rural, urban, coastal and marine environments across Great Britain. It is presented in an interactive map which can be explored using various mapping tools.
 - A search of the PBA project database to identify any ground condition reports near the site (within 250m).
 - Review of risk map records of Regional Unexploded Bomb Risk held by Zetica UXO and located at <https://zeticauxo.com/downloads-and-resources/risk-maps/>.
 - A review of historical aerial photography accessed via Google Earth Pro.

- A review of the Public Health England Radon Atlas and Interactive Radon Map, available at www.ukradon.org.
- Review of historical planning records on Oxford City Council's online planning portal.
- A search carried out by Oxford City Council for environmental information held by them relating to the site and surrounding area which is presented in **Appendix E**.

2 Land Use Information

2.1 Introduction

- 2.1.1 This section presents a summary of current and historical land uses on and immediately adjacent to the site. Land use is used to inform the hazard identification element of the risk assessment.
- 2.1.2 Current land use information is based on a site reconnaissance survey undertaken by a representative of PBA on the 13th August 2019. Selected photographs taken during the site walkover are presented in **Appendix C**.
- 2.1.3 The historical land use information is based on Ordnance Survey maps, and plans provided by Landmark Information Group (LIG, 2019) presented in **Appendix D**, supplemented by a review of Google Earth historical aerial photographs.

2.2 Site Location and General Description

- 2.2.1 The site is centred at National Grid Reference SP 5446 0409, approximately 3.8 km south-east of Oxford City Centre, in the area of Cowley. The location of the site is shown on the Site Location Plan, presented as **Figure 1**. The Layout of the site and location of pertinent features and photographs is presented on **Figure 2**.
- 2.2.2 The site comprises two adjoining plots of land that together occupy an area of approximately 3,000m². The site is bounded by newly constructed student accommodation blocks to the north, residential properties to the east, St Luke's Road to the south and Between Towns Road to the west.
- 2.2.3 The site is situated on level ground with existing ground levels at approximately 75 m above Ordnance Datum (OD). In the wider area, ground levels fall gradually to the north-west towards the base of the Boundary Brook valley, about 650 m north-west of the site boundary.

2.3 Current Land Use

On-Site

- 2.3.1 The site is currently occupied by two adjoining plots of land. The southern and larger plot, around 2,000m² in plan area, is occupied by the Cowley Conservative Club (CCC); the building fronts Between Towns Road to the west, (Plate 7) and there is an associated car park area to the rear (east) accessed from the southern site boundary off St Luke's Road.
- 2.3.2 At the time of the walkover, the CCC car park area was being used as a site compound for the construction of new student accommodation blocks to the north of the site boundary (Plate 1). Accordingly, the area contained various portacabins, skips and building materials. The CCC car park is surfaced with concrete hardstanding and there was some signs of damage and linear scarring (presumably related to drainage installation) in those areas that could be observed.
- 2.3.3 Along the eastern edge of the car park, on the site boundary, is a single row of garages (Plates 2 and 3). The garages are of concrete construction with corrugated cementitious roofing. The CCC building is a one and two storey structure and appears to have been vacant for some time. The western portion of the building, fronting Between Towns Road, is possibly the oldest part of the building with a pitched roof. The remaining central and eastern portions of the building appear to be of more recent construction and have a flat roof (Plate 4). Internally, the building is quite dilapidated and there appears to be have been a water leak in the former bar area in the southern section of the building, resulting in some floor damage (Plate 9).

- 2.3.4 Elsewhere, the building has been generally stripped out although it is evident that there were living quarters on the first floor, a kitchen on the ground floor in the north-eastern section and a large open bar and entertainment area in the northern section of the building (Plate 10).
- 2.3.5 The northern part of the site is occupied by two adjoining buildings. No. 17a Between Towns Road is a two-storey structure with a flat roof with a retail unit on the ground floor, a hair salon, and a residential unit on the first floor (Plate 8). The neighbouring building, No. 17, is a two-storey structure with a pitched roof and a two-storey extension with a flat roof. The building is occupied by a betting shop on the ground floor and a residential unit on the first floor. To the rear (east) of these buildings is an open car park area which is accessed off Between Towns Road through a gap between No.17a and the CCC building (Plates 5 and 6). The car park is asphalt surfaced with an unsurfaced scar (approximately 17m long and 1.2m wide) observed in the central area of the car park and a smaller unsurfaced area on the northern site boundary.

Off-Site

- 2.3.6 The area to the north of the site boundary is occupied by new student accommodation comprising four-storey apartment blocks. Construction work on the student accommodation, (Between Towns Court), appeared to be nearing completion at the time of the walkover. The site is bordered to the east by houses and residential rear gardens off St Luke's Road and Coleridge Close. Beyond St Luke's Road, to the south of the site boundary, is a three-storey office block, Knights Court, a telephone exchange and houses. To the west, the site is bordered by Between Towns Road, a dual carriageway thoroughfare, with a church, Cowley Workers Social Club and a 4-storey apartment block, Trinity Court, present on the opposite side of the road. The wider area is generally residential with the retail area of Cowley present further west and south-west along Between Towns Road.

2.4 Historical Land Use

- 2.4.1 This section presents a summary of historical land uses on the site and in the immediate surrounding area identified from historical Ordnance Survey (OS) mapping obtained from the late nineteenth century onwards, copies of which are presented in **Appendix D**.
- 2.4.2 The available historical OS map editions and aerial photographs supplied by the Envirocheck Report (LIG, 2019) cover the period between 1878 and 2019.

On-Site

- 2.4.3 The earliest available OS mapping from the late 19th Century shows the site boundary to be within open fields. The first development on the site is shown on the 1921 OS map edition with a small building labelled "Post Office" located in the north-west corner of the site. On the 1937 OS map edition, a building labelled "Club" is present located in the western part of the site fronting Between Town Road. (This is possibly the older part of the CCC building observed during the site walkover). Two other buildings, numbered 17 and 17a, are present to the north of the Club. The Club building extends to its current footprint during the 1960s and 1970s. The row of garages along the eastern site boundary is first shown on the 1966 OS map edition. The two buildings north of the Club appear joined on the 1966 OS map edition and later editions.

Off-Site

- 2.4.4 The earliest available OS mapping from the late 19th Century shows the surrounding area to be open fields and woodland with the small settlements of Cowley to the south-west and Temple Cowley to the north-west of the site area. Oxford Military College is located approximately 250 m to the north-east of the site boundary. Residential expansion of this area of Oxford is evident with many houses constructed between the 1921 and 1937 OS map editions. On the 1955 OS map edition, residential development is evident to the east and north of the site boundary and to the west on the opposite side of Between Towns Road. A "Garage" is labelled approximately

50 m north of the site boundary. A “Telephone Exchange” is shown south of the site boundary, beyond St Luke’s Road, on the 1975 OS map edition with a neighbouring office block shown from the 1988 OS map edition onward. The site of the garage, north of the site boundary, has been recently redeveloped for student accommodation.

3 Environmental Setting

3.1 Introduction

3.1.1 Information on the environmental setting is presented in this section and the data is used to inform the Contamination Risk Assessment presented in **Section 5**.

3.2 Published Geology

Geological Map

3.2.1 The 1:50,000 scale geological map of the area: Sheet 237, Thame, Soil and Drift, published by the British Geological Survey (BGS, 1994), indicates the site is underlain by the following deposits:

- **Solid** – Beckley Sand Member described by the BGS as grey, weathering brown to yellow, sand with calcareous sandstone beds and thin, shelly limestone beds and doggers with moderate fossil content. The Beckley Sand Member is underlain sequentially by the Temple Cowley Member, described by the BGS as fine grained silty sands, calcareous sandstones and clayey silts and siltstones, and the West Walton Formation, described by the BGS as a calcareous mudstone, silty mudstone and siltstone, with subordinate fine-grained sandstones and limestone.

3.2.2 No superficial deposits are mapped within the site boundary. Given the historical use of the site, it is expected that the solid geology is overlain by a thin mantle of Made Ground.

BGS Historical Borehole Records

3.2.3 The BGS archive contains records of several exploratory holes sunk in proximity to the site boundary. The nearest historical boreholes are located approximately 60 and 75 m north-west and 85 m south-west of the site boundary. The borehole logs record a thin veneer of topsoil or Made Ground (asphalt, concrete and hardcore) underlain by Beckley Sand Member described as yellow/brown sandy CLAY or clayey medium and fine SAND. Thin beds of limestone were also encountered within the Beckley Sand Member. The transition from Beckley Sand to the underlying Temple Cowley Member (described as blue grey clayey medium and fine SAND) is recorded at around 5.5 m below ground level (bgl) in one of the deeper borehole logs. Extracts of these boreholes are presented in **Appendix F**.

3.2.4 Groundwater was encountered within all the boreholes at depths of between 3.5 and 4.5 m bgl. rising to circa 2.3m bgl overnight during drilling.

Historical Ground Investigation

3.2.5 Oxford City Council's planning portal holds several reports relating to the redevelopment of the site directly to the north of the site boundary, known as the Swan Motor Centre, which was previously a car garage (as identified on the historical OS mapping- see section 2.5.5 above).

3.2.6 The ground investigation for the Swan Motor Centre site consisted of eight window sample boreholes, three cable percussion boreholes and one rotary borehole. A summary of the ground conditions encountered during the investigation is presented in the table below:

Table 3-1 Summary of Ground Conditions at Swan Motor Centre

Strata	Base of Stratum (m bgl ¹)	Typical Description
Made Ground	0.5 to 2.0	Tarmacadam or concrete overlying brown and brown/black very sandy clayey GRAVEL of brick, concrete, clinker, ash, ceramics, and mixed lithologies. Localised hydrocarbon odour (diesel)
Beckley Sand Member/ Temple Cowley Member	> 9.2 to ~9.5	Brown variably clayey/silty slightly gravelly SAND. Gravel of sandstone, limestone and siltstone with occasional cobbles. From 4.0 to 6.2 m bgl - Yellowish brown or bluish grey, sandy SILTSTONE and LIMESTONE
West Walton Formation	>20.4	Very weak to weak thinly laminated dark grey green, locally silty and sandy, slightly gravelly MUDSTONE.
<p>Note: 1) denotes below ground level</p> <p>This table is based on PBA's interpretation of the stratigraphy presented on the borehole logs presented in the ground investigation report.</p>		

3.2.7 Groundwater monitoring undertaken after the ground investigation (between February and June 2016) recorded groundwater level at around 2.2 to 2.5 m bgl corresponding to reduced levels of about 72.8 and 73.4 m Above Ordnance Datum (AOD).

3.3 Industrial Setting

3.3.1 Information on the environmental industrial setting of the Site is presented in the Envirocheck Report (LIG, 2019) and reproduced in **Appendix C**. The results of the database search are summarised on the following table and discussed in the following sections;

Table 3-2 Summary of Environmental and Industrial Setting

Data Type	Number on Site ⁽¹⁾	Number within 250m of Site ⁽¹⁾	Number within 500m of Site ⁽¹⁾
Waste Regulation			
Landfill Sites	0 (0)	0 (0)	0 (0)
Licensed Waste Management Facilities	0 (0)	0 (0)	0 (0)
Statutory Permits/Authorisations			
Pollution Prevention and Control ⁽²⁾	0 (0)	1 (0)	1 (0)
Registered Radioactive Substances	0 (0)	0 (1)	0 (0)
Planning Hazardous Substance Consents	0 (0)	0 (0)	0 (0)
COMAH Sites ⁽³⁾ and NIHHS Sites ⁽⁴⁾	0 (0)	0 (0)	0 (0)
Potential Contaminative Uses			

Data Type	Number on Site ⁽¹⁾	Number within 250m of Site ⁽¹⁾	Number within 500m of Site ⁽¹⁾
Fuel Stations	0 (0)	0 (1)	1 (0)
Contemporary Trade Directory Entries	0	16	41
Discharge Consents	0	0 (0)	0 (0)
Pollution Records			
Contaminated Land Register Entries and Notices	0	0	0
Pollution Incidents to Controlled Waters	0	0	4
Note: 1) Numbers in brackets denotes number of authorisations, licences or permits that are lapsed, revoked, cancelled, superseded, defunct, surrendered, not applicable, withdrawn or not yet started. 2) Includes Integrated Pollution Controls, Integrated Pollution Prevention and Control, Local Authority Integrated Pollution Prevention and Control and Local Authority Pollution Prevention and Control permits. 3) COMAH denotes Control of Major Accident Hazards 4) NIHHS denotes Notification of Installations Handling Hazardous Substances			

3.3.2 **Pollution Prevention and Control:** Two Local Authority Pollution Prevention and Control records have been indicated within 500 m of the site. The closest relates to a petrol filling station approximately 45m north-east of the site boundary. This relates to the former Swan Motor Centre to the north of the site boundary which has been subject to remediation and redevelopment, see Section 3.6 below.

3.3.3 **Registered Radioactive Substance:** One entry in the Registered Radioactive Substance list is indicated as located approximately 50 m south-west of the site boundary. The entry is listed to Becton Dickinson Ltd, a medical laboratory. However, the authorisation has been revoked. This entry is likely related to the use of radioactive material in a controlled laboratory environment and is not considered to represent an environmental hazard to the site or proposed development.

3.3.1 **Contemporary Trade Directory Entries:** The trade entries within 100 m of the site boundary are mostly classed as inactive with the closest active entry being located approximately 35 m north of the site boundary. This entry relates to the former Swan Motor Centre which is known to be closed and the site remediated and redeveloped as discussed in Section 3.6. The nearby inactive trade entries include car dealerships and car maintenance garages located west of the site boundary, on the opposite side of Between Towns Road, and are not considered to represent an environmental hazard to the site or proposed development.

3.4 Controlled Waters – Groundwater

3.4.1 **Table 3-3** summarises information recorded in the Envirocheck Report (LIG, 2019) regarding hydrogeology and groundwater vulnerability.

Table 3-3 Summary of the Hydrogeology and Groundwater Vulnerability Related Information

Item	Details
Bedrock Aquifer Classification	The Beckley Sand Member is classified as a Secondary A Aquifer. Secondary A Aquifers are defined by the Environment Agency as a formation of variable permeability that may be important for local supplies and in supplying base flow to rivers.
Depth to Groundwater	Groundwater monitoring from the ground investigation completed north of the site boundary encountered groundwater at between about 72.8 and 73.4 m AOD (about 2.0 – 2.5 m bgl) within the Beckley Sand Member. Regional groundwater flow direction would be anticipated to the south/south-east but was recorded as north/north-west during the ground investigation on the neighbouring site, which is possibly due to local variations and influence of the Boundary Brook valley to the north-west.
Groundwater Vulnerability	The Beckley Sand Member is indicated to have a high groundwater vulnerability meaning that it can easily transmit pollution to groundwater.
Groundwater Abstraction	The Envirocheck report records no groundwater abstractions within 500 m of the site boundary.
Source Protection Zone (SPZ) & Drinking Water Safeguard Zone (Groundwater)	The site is not located within a SPZ or a Drinking Water Safeguard Zone (Groundwater) and none are present within 1km of the site.

3.5 Controlled Waters – Surface Water

3.5.1 **Table 3-4** summarises the information recorded in the Envirocheck report (LIG, 2019) regarding hydrology.

Table 3-4 Summary of Surface Water Related Information

Item	Details
Surface Water Features	There are no surface water features within 500 m of the site boundary.
Abstraction	The Envirocheck report records no surface water abstractions within 500 m of the site boundary.
Flood Risk *	The Environment Agency (EA) Flood Zone map indicates the site is located in Flood Zone 1, i.e. on land assessed as having a low (1 in 1,000 or greater) probability of flooding.
Drinking Water Safeguard Zone (Surface Water), Drinking Water Protected Area (Surface Water)	The site is located within a Drinking Water Safeguard Zone and a Drinking Water Protected Area for Surface Water. This means the site is in an area where the Surface Water needs to be protected to ensure that it is not polluted as it may be used for drinking water.
* The scope of this report does not include a flood risk assessment.	

3.6 Former Contaminative Land Uses

3.6.1 **On-site** There are no recorded potentially contaminative uses of the site, with the exception of the use of land as a car park.

3.6.2 **Off-site** The site directly to the north of the site boundary was previously a car garage and petrol filling station (Swan Motor Centre) which has recently been redeveloped into student

accommodation. Prior to redevelopment, a ground investigation was carried out on the site (Tier, 2017a) which identified elevated concentrations of contaminants in soil (primarily lead and total petroleum hydrocarbons (TPH)), the localised presence of asbestos cement and fibre bundles in soil and elevated concentrations of dissolved contaminants in groundwater (primarily hydrocarbons).

- 3.6.3 Due to the groundwater exceedances a detailed qualitative risk assessment was undertaken (Tier, 2016). This assessment concluded that groundwater remediation was not required. A remediation strategy (Tier, 2017b) was prepared which identified removal of underground fuel storage tanks (located in the northern area of the site), removal of associated fuel line infrastructure and heavily contaminated soils in the vicinity of the tanks, removal of asbestos contaminated soils (in the northern area of the site), use of clean cover in areas of landscaping, appropriate selection of water pipework material and use of a proprietary vapour resistant membrane beneath one of the blocks located in the northern area of the site. It is noted that some underground fuel storage tanks were removed in the early 1990s.
- 3.6.4 A Remediation Verification Report (Tier, 2019) was completed for the site which identified that the remediation strategy had been carried out successfully. The Remedial Verification Report was submitted to and subsequently approved by Oxford City Council on 10 July 2019.
- 3.6.5 The former Swan Motor Centre represents a potential off-site source of contamination to the subject site. However, sources of contamination at the former Swan Motor Centre were identified in the northern area, distant from the boundary with the subject site, and have been remediated as part of the redevelopment for student accommodation. Therefore, it is considered unlikely that the former Swan Motor Centre represents an ongoing environmental hazard to the subject site or the proposed redevelopment.

3.7 Enquires to Regulatory Authorities

- 3.7.1 A request for any environmental information pertaining to the site was submitted to the Environmental Health Department at Oxford City Council. Their response is presented in **Appendix E**. OCC has identified potential sources of contamination in the vicinity of the site including the Swan Motor Centre (now remediated as discussed above), the former Murco petrol station located south-west of the site boundary on the opposite side of Between Towns Road (currently undergoing redevelopment which will include remediation) and former historical industrial land uses further north which have since been remediated and/or redeveloped.

3.8 Ecological Systems

- 3.8.1 The MAGIC website and the Envirocheck Report (LIG, 2019) indicates that the site falls into a Nitrate Vulnerable Zone. These are areas designated as being at risk from agricultural nitrate pollution and are not relevant to this assessment.
- 3.8.2 It should be noted that the statement above regarding ecological systems does not purport to be an ecological risk assessment which might require a separate commission.

3.1 Property – Buildings

- 3.1.1 From a search of the MAGIC website it has been established that there are no listed buildings located on the site or in the immediate vicinity. The closest listed building is located approximately 200 m north-east of the site boundary, which relates to a press and former schoolhouse and is Grade II listed. These listed buildings are unlikely to be affected by the proposed redevelopment of the site.

3.2 Property – Animal or Crop Effect

- 3.2.1 This receptor is not present on-site or on adjacent land.

3.3 Unexploded Ordnance (UXO)

- 3.3.1 The Zetica bomb risk maps indicates that the site is located in a Low risk area for unexploded bombs (UXB). This designation has been given based on the density of bombing hits and the relative abundance of potential targets.

4 Potential Ground Stability Constraints

4.1 Introduction

4.1.1 In accordance with the requirements of the National Planning Policy Framework (MHCLG, 2019), the potential for the proposed redevelopment to contribute to or to be adversely affected by land instability has been assessed.

4.1.2 The potential for land instability at the site has been considered, in relation to;

- Naturally Occurring Geological Hazards
- Artificial Cavities
- Natural Cavities
- Slope Stability
- Potentially adverse foundation conditions

4.1.3 Consideration is given below to the risk of these potential geotechnical constraints arising from existing ground conditions at the site, as identified in this data review. The geological constraints to the development are those relating to the natural ground conditions and any geological hazards on the site, and the constraints relating to the previous and current use of the site.

4.1 Naturally Occurring Geological Hazards

4.1.1 An assessment of potential geological hazards that may give rise to instability or adverse foundation or construction conditions as supplied by the BGS from their National Geoscience Information Service (NGIS) are presented in the Envirocheck Report reproduced in **Appendix C**. The generic assessment is generated automatically based on digital geological maps and the scope and the accuracy is limited by the methods used to create the dataset and is therefore only indicative for the search area.

4.1.2 The information contained in the report has been reviewed and where considered necessary reassessed considering the specific information available for the Site. The modified assessment of the potential for geological hazards to be present on the Site is summarised in **Table 4-1** below.

Table 4-1 Summary of Geological Hazards On-Site

Hazard	BGS-NGIS Assessed Hazard Potential On-Site	PBA Assessment
Coal Mining Affected Areas	In an area that might not be affected by coal mining	Agree
Non-Coal Mining Areas of Great Britain	No Hazard	Agree
Collapsible Ground Stability	Very Low	Agree
Compressible Ground Stability	No Hazard	Agree

Hazard	BGS-NGIS Assessed Hazard Potential On-Site	PBA Assessment
Dissolution	No Hazard	Given the geological setting of the site, it is considered highly unlikely dissolution features are present beneath the site.
Landslide Ground Stability	Very Low	Agree
Running Sand	No Hazard	Running sand may be a potential hazard for deep excavations extending beneath the groundwater table in the Beckley Sand Member and therefore the hazard potential should be classified as Low .
Shrinking or Swelling Clay	No Hazard	Agree

4.2 Natural and Mining Cavities

4.2.1 The PBA Natural and Mining (non-coal) Cavities Database and Envirocheck Report (LIG, 2019) indicate that there are no mining or natural cavities within 1000 m of the site. Given the anticipated ground conditions, natural and mining cavities would not be anticipated in this area.

4.3 Radon

4.3.1 The Envirocheck Report (LIG, 2019) indicates that the site is in a lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level), and reports that radon protection measures are not required in the construction of new dwellings or extensions at the site.

4.4 Slope Stability

4.4.1 The site is generally flat and therefore the potential slope stability hazard is considered to be **Very Low**.

4.5 Potentially Adverse Foundation Conditions

4.5.1 The geotechnical constraints to the redevelopment are those relating to the natural ground conditions and any geological hazards on the site, and the constraints relating to the previous and current use of the site.

4.5.2 From local experience, the Beckley Sand Member and Temple Cowley Member contain thin beds of limestone and doggers which can be problematic for construction. It is expected that shallow excavations should be easily dug using conventional mechanical excavators. However, deep excavations may require the use of pneumatic or hydraulic breakers to reach the required depth of the excavation. Specialist rock augers may be required to core through rock beds/doggers which can otherwise cause obstructions to sheet piles, piled foundations and ground improvement techniques.

4.5.3 Similarly, existing foundations associated with current or former site buildings could also form obstructions for future works and should be grubbed out where necessary and the resulting voids backfilled with engineered fill. New shallow foundations should extend a minimum of

300mm into competent natural ground beneath the maximum depth of disturbance caused by foundation removal.

- 4.5.4 Excavations extending beneath groundwater level will probably require side support and dewatering may be required for long-term open excavations. Any groundwater inflows into the excavation may result in loss of fines from the surrounding ground which could result in reduction of strength of the surrounding soil and may cause settlements of the ground around the excavation.
- 4.5.5 Overall the geotechnical constraints to the development of the site associated with the natural ground conditions, geological hazards and the land uses is considered to be **Low/Moderate**.

5 Tier 1 Preliminary Geoenvironmental Risk Assessment

5.1 Introduction

- 5.1.1 The methodology developed and adopted by PBA for the assessment of ground conditions is presented in **Appendix A**. In accordance with guidance presented in CLR 11 (EA Model Procedures for the Management of Land Contamination) we adopt a staged approach to risk assessment and this report presents a Tier 1 assessment or first stage.
- 5.1.2 The underlying principle to ground condition assessment is the identification of pollutant linkages to evaluate whether the presence of a source of contamination could potentially lead to harmful consequences.

5.2 Conceptual Site Model

- 5.2.1 The Tier 1 Preliminary Risk Assessment includes the development of a Conceptual Site Model (CSM). The CSM describes the types and locations of potential contamination sources, the identification of potential receptors and the identification of potential transport/migration pathways.
- 5.2.2 For a pollutant linkage to be identified a connection between all three elements (source-pathway-receptor) is required.

5.3 Geoenvironmental Hazard Classification

- 5.3.1 Based on the historical and current land use of the site, the contamination potential from on-site sources is considered to be **Very Low** (Classification Score 1 out of 5 in Table 1, **Appendix A**).
- 5.3.2 The potential for off-site contamination to be present, based on the past and present uses of neighbouring land, is assessed to be **Low**.

5.4 Pathways

- 5.4.1 Potential environmental hazards need a pathway connecting the source (if present) to potential receptors in order to be able to impact upon the receptors. These pathways are capable of conveying the contaminants. Pathways can be anthropogenic (artificial) or natural.
- 5.4.2 Anthropogenic pathways are artificial routes capable of conveying contaminants and include such routes as surface water drains, high permeability backfill materials, poorly consolidated Made Ground, foundations, and persons disturbing contamination sources in such a way as to liberate contaminants.
- 5.4.1 The proposed redevelopment consists of student accommodation with a communal courtyard and access area. The potential pathways relevant to future site users would therefore be the inhalation of vapours/gases both within the buildings and within external areas.
- 5.4.2 In the case of persons working with contaminated ground (e.g. to lay foundations or install services) direct contact with the source becomes possible, and pathways such as dermal contact, inhalation or ingestion require consideration.

5.5 Hazard Assessment

- 5.5.1 The receptors considered as part of this land contamination assessment are summarised in **Table 5-1** and based on the information reviewed either eliminated from further consideration or allocated a sensitivity score in accordance with the PBA Methodology. The sensitivity score informs the consequence element of the risk estimation process, definitions of which can be found in Table 2 of **Appendix B**.

Table 5-1 Potential Receptors and Sensitivity Score

Receptor Type	Comment	Sensitivity Score
Human Health – Current	Retail units and residential flats	5
Human Health – Future	Student accommodation	5
Human Health – Construction	Construction workers	4
Human Health – Neighbours	Residents of neighbouring properties	5
Groundwater	Beckley Sand Member - Secondary A Aquifer	2
Surface Water	No surface water feature within 500 m	Eliminated
Property - Buildings	Proposed buildings of local value	2
Property - Animal or Crop Effect	No receptor present on or adjacent to the Site	Eliminated
Ecological Systems	No local designations	1

- 5.5.2 Table 2 in the PBA methodology describes possible pathways for each receptor type. Each of these possible pathways is then considered when assessing the possible pollutant linkage (see below).
- 5.5.3 Potential pollutant linkages have been identified using the information on potential sources (contaminant types), receptors and exposure pathways. The table in **Appendix B** identifies which pollutant linkages are considered to potentially exist.

5.6 Risk Estimation

- 5.6.1 When there is a pollutant linkage (and therefore some measure of risk) it is necessary to determine whether the risk is significant and therefore whether further action is required. Risk estimation involves predicting the likely consequence (what degree of harm might result) and the probability that the consequences will arise (how likely the outcome is).
- 5.6.2 Based on the information available, the estimated risks have been designated with further comments in the sections below. The outcomes of the risk assessment are presented in **Appendix G** giving an assessment of consequence and probability.

5.6.3 A summary of the worst-case risk estimation for the site based on localised potential hazards is presented in Table 5-2 below.

Table 5-2 Worst - Case Risk Estimation

Receptor	Risk Estimation
Human Health – Current	Very Low
Human Health - Future	Very Low
Human Health - Neighbours	Very Low
Human Health - Construction	Very Low
Groundwater	Very Low
Property - Buildings	Very Low
Ecological Systems	Very Low

5.7 Risk Evaluation

- 5.7.1 Possible pollutant linkages are determined using professional judgement. If a linkage is considered possible, it is considered that this represents a potentially ‘unacceptable risk’ and therefore requires further consideration. This may be through remediation or mitigation or through further tiers of assessment.
- 5.7.2 Possible pollutant linkages have been identified for human health, controlled waters, property and ecological systems and the level of risk is generally **Very Low**. As such, there is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe, (as per **Table 7** in **Appendix B**).
- 5.7.3 On this basis, there is no reason that the site would be designated as Contaminated Land under Part IIa of the Environmental Protection Act 1990.

5.8 Data Gaps and Uncertainty

- 5.8.1 The available ground condition data is preliminary in nature, based solely on desk-based studies. However, it is considered that there is a reasonable level of confidence that the information presented in this report provides a good understanding of the likely ground conditions and enables identification of potential risks.

6 Conclusions and Recommendations

6.1 Geoenvironmental Considerations

- 6.1.1 The site is considered to have a **Very Low** potential for contamination to be present and when assessed in the context of the sensitivity of the proposed redevelopment and sensitivity of the environmental setting, the estimated risks associated with contamination are as a worst case **Very Low**. As such there is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.
- 6.1.2 Based on the nature of the current and historical land use and the proposed redevelopment it is considered that the requirement for remediation of soil and/or controlled waters is unlikely. It is considered very unlikely that the local planning authority will designate the site as Contaminated Land under Part 2a of the Environmental Protection Act 1990.

6.1 Geotechnical and Ground Stability

- 6.1.1 The natural ground conditions are, in general, expected to form a suitable platform for the construction of the proposed development.
- 6.1.2 Overall the geotechnical constraints to the development of the site associated with the natural ground conditions is mostly **Low** but due to the presence of rock beds within the Beckley Sand Member and Temple Cowley Member this could be increased to **Moderate** as these beds may present limestone beds or doggers that may provide obstructions to excavations and deep foundation methods.

6.2 Recommendations

- 6.2.1 The ground condition data used in this report is largely qualitative in nature and as such there is a degree of uncertainty as to the actual ground conditions present. It is recommended that an intrusive investigation is undertaken to fully characterise the ground conditions and to provide information for the design of foundations, drainage and pavements.
- 6.2.2 Prior to demolition of the existing site buildings, asbestos-containing material should be removed and handled by competent persons in accordance with the approved code of practice.
- 6.2.3 It is considered that whilst an intrusive investigation will be required in due course, this can be undertaken post planning, and could form part of the pre-commencement conditions.

7 Essential Guidance for Readers

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

- 1 The opinions and recommendations expressed in this report are based on statute, guidance, and best practice current at the time of its publication. Peter Brett Associates LLP (PBA) does not accept any liability whatsoever for the consequences of any future legislative changes or the release of subsequent guidance documentation, etc. Such changes may render some of the opinions and advice in this report inappropriate or incorrect and we will be pleased to advise if any report requires revision due to changing circumstances, especially those over one year old. Following delivery of any report PBA has no obligation to advise the Client or any other party of such changes or their repercussions.
- 2 Some of the conclusions in this report may be based on third party data. No guarantee can be given for the accuracy or completeness of any of the third party data used. Historical maps and aerial photographs provide a “snap shot” in time about conditions or activities at the site and cannot be relied upon as indicators of any events or activities that may have taken place at other times.
- 3 The conclusions and recommendations made in this report and the opinions expressed are based on the information reviewed and/or the ground conditions encountered in exploratory holes and the results of any field or laboratory testing undertaken. There may be ground conditions at the site that have not been disclosed by the information reviewed or by the investigative work undertaken. Such undisclosed conditions cannot be taken into account in any analysis and reporting.
- 4 Unless specifically stated to the contrary, this report does not purport to be a “Geotechnical Design Report” as defined in Clause 2.8 of Eurocode 7 (Geotechnical Design BS EN 1997-1:2004). Some of the data contained herein and used to support any geotechnical assessment presented in this report may be historical or for other reasons not fully compliant with the requirements of that code.
- 5 It should be noted that groundwater levels, groundwater chemistry, surface water levels, surface water chemistry, soil gas concentrations and soil gas flow rates can vary due to seasonal, climatic, tidal and man made effects.
- 6 If the report indicates that asbestos has been identified within the ground, any work that involves, or is likely to involve, contact with asbestos must be undertaken in accordance with the Control of Asbestos Regulations 2012, particularly in regard to risk assessment, licencing and training. Risk assessment should be carried out prior to any activities that could lead to the disturbance of asbestos materials, either buried or on the ground surface and should include appropriate mitigation measures, such as damping down to prevent the spread of asbestos, air monitoring and minimum PPE and/or RPE requirements for the work proposed.
- 7 This report has been written for the sole use of the Client stated at the front of the report in relation to a specific development or scheme. The conclusions and recommendations presented herein are only relevant to the scheme or the phase of project under consideration. This report shall not be relied upon or transferred to any other party without the express written authorisation of PBA. Any such party relies upon the report at its own risk.

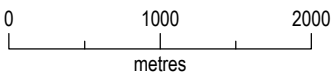
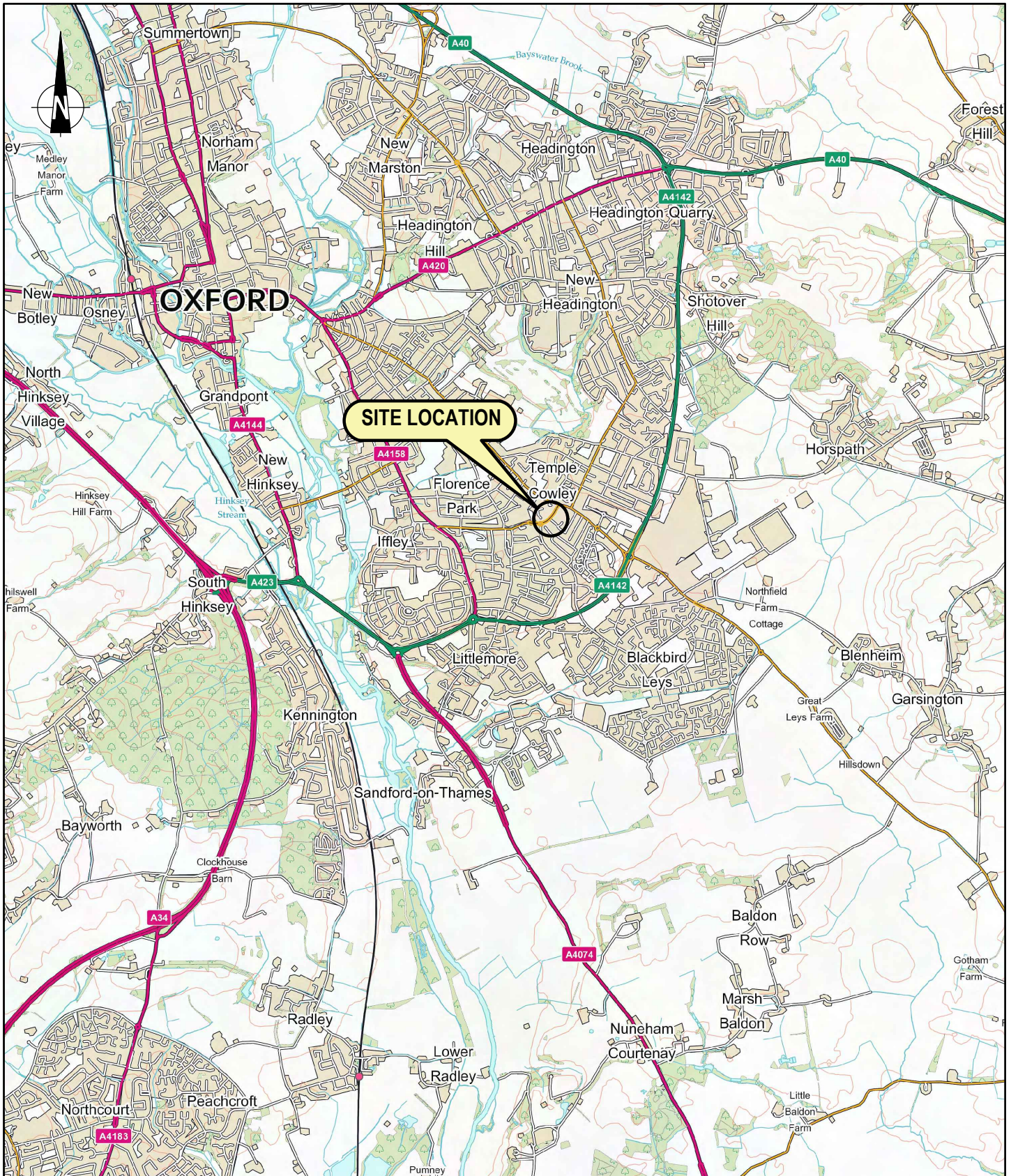
- 8 The interpretation carried out in this report is based on scientific and engineering appraisal carried out by suitably experienced and qualified technical consultants based on the scope of our engagement. We have not taken into account the perceptions of, for example, banks, insurers, other funders, lay people, etc, unless the report has been prepared specifically for that purpose. Advice from other specialists may be required such as the legal, planning and architecture professions, whether specifically recommended in our report or not.

- 9 Public or legal consultations or enquiries, or consultation with any Regulatory Bodies (such as the Environment Agency, Natural England or Local Authority) have taken place only as part of this work where specifically stated.

References

- BGS (1994) Geological Map Sheet 237, Thame, 1:50,000 Solid and Drift Edition, published by the British Geological Survey, Keyworth, Notts.
- BGS (2019) <http://mapapps.bgs.ac.uk/geologyofbritain/home.html> [Online, Accessed August 2019]
- EA (2004) The Model Procedures for the Management of Land Contamination CLR 11, Environment Agency
- EA (2019) <https://flood-map-for-planning.service.gov.uk/> [Online, Accessed August 2019]
- LIG (2019) Envirocheck Report No. 207012220_1_1, dated 11th June 2019, Landmark Information Group, Reading
- MAGIC (2018) <http://magic.defra.gov.uk/MagicMap.aspx> [Online, Accessed August 2019]
- MHCLG (2019) National Planning Policy Framework. Ministry of Housing, Communities & Local Government, London.
- Tier (2016) A Detailed Quantitative Risk Assessment Report for Land at 13-15 Between Towns Road, Oxford. Ref; T/16/1732/DQRA, dated July 2016. Tier Environmental Ltd, Warrington.
- Tier (2017a) A Ground Investigation Report For Land at 13-15 Between Towns Road, Oxford. Ref; T/16/1732/GIR, dated January 2017. Tier Environmental Ltd, Warrington.
- Tier (2017b) A Remediation Method Statement for Land at 13-15 Between Towns Road, Oxford. Ref; T/16/1732/RS, dated March 2017. Tier Environmental Ltd, Warrington.
- Tier (2019) Remediation Verification Report for Land at 13-15 Between Towns Road, Oxford. Ref; T161732VR, dated June 2019. Tier Environmental Ltd, Warrington.
- Zetica (2019) <https://zeticauxo.com/downloads-and-resources/risk-maps/> [Online, Accessed August 2019]

Figures



Site Grid Ref: SP5446 0409

PROPOSED REDEVELOPMENT OF FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD

SITE LOCATION PLAN

Client
CANTAY ESTATES

Date of 1st Issue
14.08.2019

Drawn by
davco

A4 Scale
1:50 000

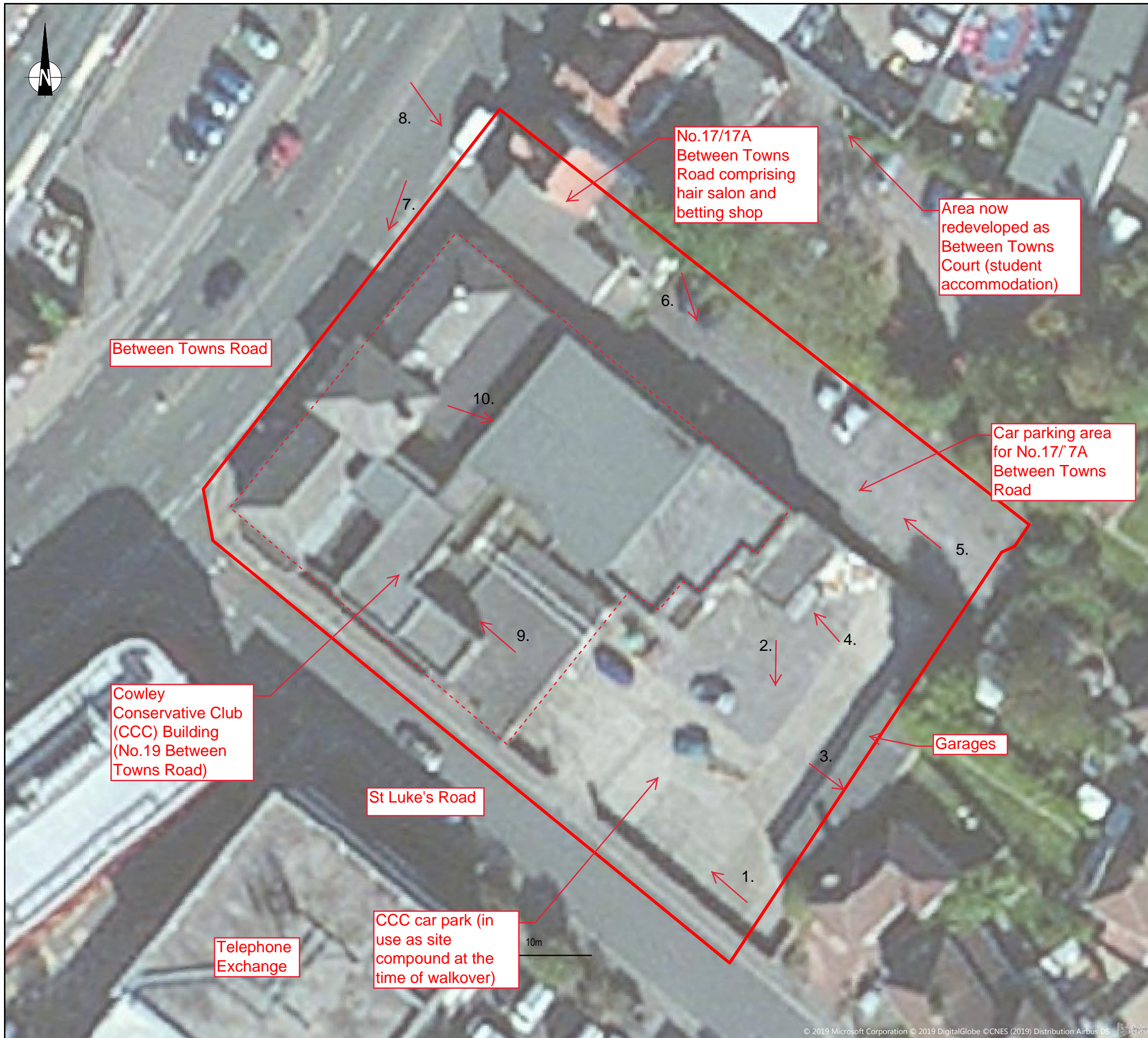
Checked by
NC

Figure Number

1



Contains Ordnance Survey data © Crown copyright and database right 2018



- Key
- Approximate Site Boundary
 - ↖ 3. Site walkover photograph (see Appendix C)

PROPOSED REDEVELOPMENT OF FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD

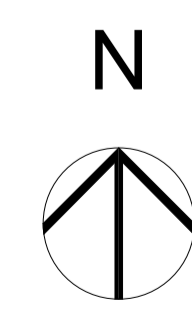
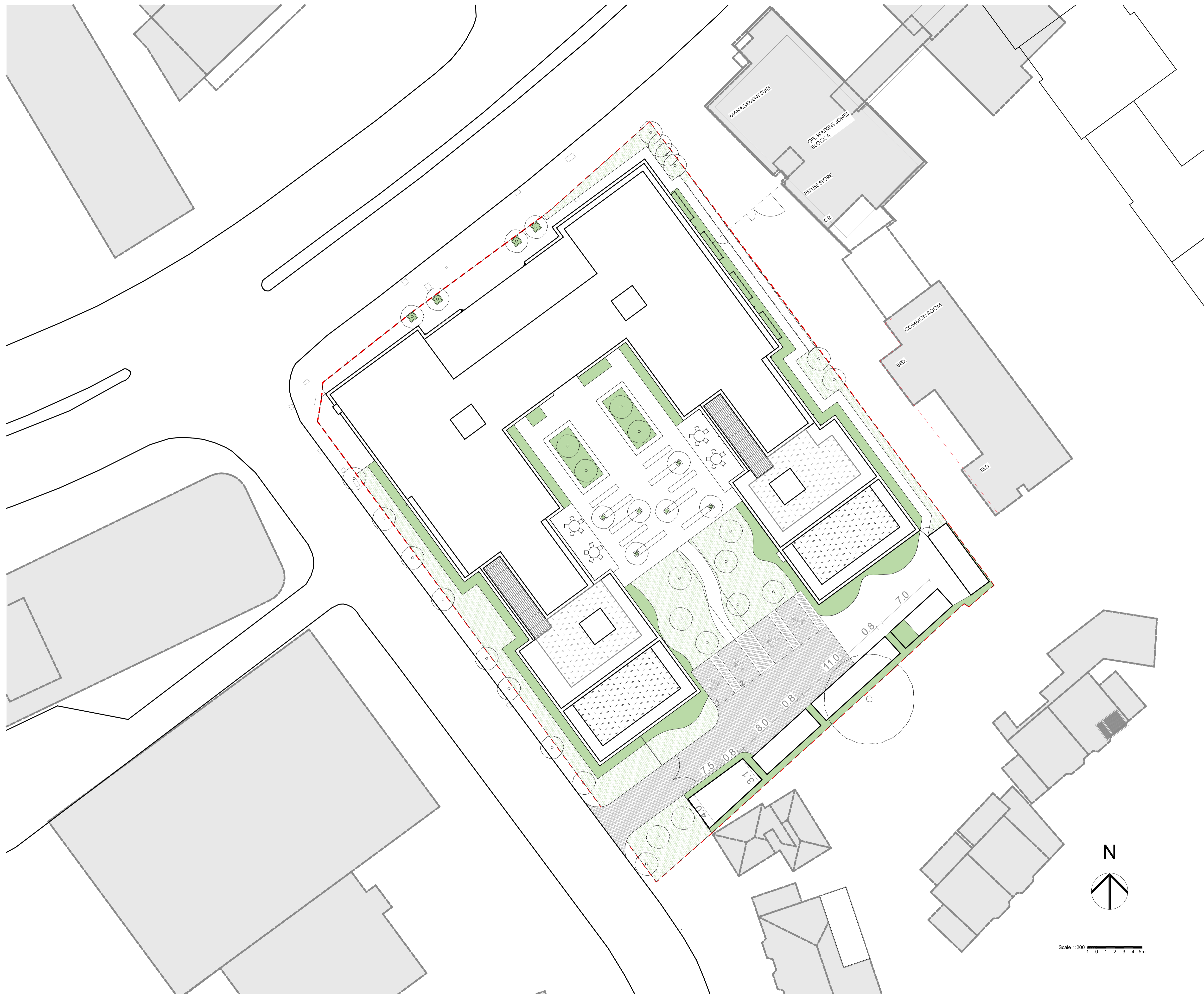
SITE LAYOUT & WALKOVER PLAN

Client CANTAY ESTATES	
Date of 1st Issue 14.08.2019	Drawn by davco
A3 Scale 1:350	Checked by NC
Figure Number 2	


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Appendix A Proposed Masterplan



Scale 1:200
 1 0 1 2 3 4 5m

PENWARDENHALE ARCHITECTS		
2513 - Conservative Club		
Building Name LG, Site survey, Roof level A1 no zone tables		
		1., DWG, L5A0100
2513/1., DWG, L5/A/0100	Revision P1	1:200 @A1 12/08/2019

Appendix B PBA Methodology

PBA Methodology for Land Contamination Assessment (England)

1 Introduction

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

When preparing our methodology, we have made reference to various technical guidance documents and legislation referenced in Section 7 of which the principal documents are (i) Contaminated Land Statutory Guidance (Defra 2012), (ii) the Model Procedures for the Management of Contamination (CLR 11) (EA 2004), (iii) Contaminated land risk assessment: A guide to good practice (C552) (CIRIA 2001) (iv) National Planning Policy Framework (NPPF, 2019) and (v) BS 10175 Investigation of potentially contaminated sites - Code of Practice (BSI 2017).

2 Dealing with Land Contamination

Government policy on land contamination aims to prevent new contaminated land from being created and promotes a risk based approach to addressing historical contamination. With regard to historical contamination, regulatory intervention is held in reserve for land that meets the legal definition and cannot be dealt with through any other means, including through planning. Land is only considered to be "contaminated land" in the legal sense if it poses an unacceptable risk.

UK legislation on contaminated land is principally contained in Part 2A of the Environmental Protection Act, 1990 (which was inserted into the 1990 Act by section 57 of the Environment Act 1995). Part 2A was introduced in England on 1 April 2000 and provides a risk-based approach to the identification and remediation of land where contamination poses an unacceptable risk to human health or the environment. In 2004 the Model Procedures for the Management of Contamination (CLR 11) were published providing guidance on how the statutory requirements were to be delivered. The approach, concepts and principles for land contamination management promoted by CLR 11 are applied to the determination of planning applications.

Other legislative regimes may also provide a means of dealing with land contamination issues, such as the regimes for waste, water, environmental permitting, and environmental damage. Further, the law of statutory nuisance may result in contaminants being unacceptable to third parties whilst not attracting action under Part 2A or other environmental legislation.

2.1 Part 2A

The Regulations and Statutory Guidance that accompanied the Act, including the Contaminated Land (England) Regulations 2006, has been revised with the issue of The Contaminated Land (England) (Amendment) Regulations 2012 (SI 2012/263) and the Contaminated Land Statutory Guidance for England 2012.

Part 2A defines contaminated land as "*land which appears to the Local Authority in whose area it is situated to be in such a condition that, by reason of substances in, on or under the land that significant harm is being caused, or there is a significant possibility that such significant harm (SPOSH) could be*

caused, or significant pollution of controlled waters is being caused, or there is a significant possibility of such pollution (SPOSP) being caused".

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

Part 2A provides a means of dealing with unacceptable risks posed by land contamination to human health and the environment, and under the guidance enforcing authorities should seek to find and deal with such land. It states that "*under Part 2A the starting point should be that land is not contaminated land unless there is reason to consider otherwise. Only land where unacceptable risks are clearly identified, after a risk assessment has been undertaken in accordance with the Guidance, should be considered as meeting the Part 2A definition of contaminated land*". Further, the guidance makes it clear that "*regulatory decisions should be based on what is reasonably likely, not what is hypothetically possible*".

The overarching objectives of the Government's policy on contaminated land and the Part 2A regime are:

- "(a) To identify and remove unacceptable risks to human health and the environment.
- (a) To seek to ensure that contaminated land is made suitable for its current use.
- (b) To ensure that the burdens faced by individuals, companies and society as a whole are proportionate, manageable and compatible with the principles of sustainable development".

The enforcing authority may need to decide whether and how to act in situations where decisions are not straight forward, and where there is uncertainty. "*In so doing, the authority should use its judgement to strike a reasonable balance between: (a) dealing with risks raised by contaminants in land and the benefits of remediating land to remove or reduce those risks; and (b) the potential impacts of regulatory intervention including financial costs to whoever will pay for remediation, health and environmental impacts of taking action, property blight, and burdens on affected people*". The authority is required to "*take a precautionary approach to the risks raised by contamination, whilst avoiding a disproportionate approach given the circumstances of each case*". The aim is "*that the regime produces net benefits, taking account of local circumstances*".

The guidance recognises that "*normal levels of contaminants in soils should not be considered to cause land to qualify as contaminated land, unless there is a particular reason to consider otherwise*".

Normal levels are quoted as:

- "(a) natural presence of contaminants' such as from underlying geology *that have not been shown to pose an unacceptable risk to health and the environment*
- b) *...low level diffuse pollution, and common human activity...*"

Similarly the guidance states that significant pollution or significant possibility of significant pollution of

PBA Methodology for Land Contamination Assessment (England)

controlled waters is required for land to be considered contaminated and the “*fact that substances are merely entering water*” or “*where discharge from land is not discernible at a location immediately downstream*” does not constitute contaminated land.

To help achieve a more targeted approach to identifying and managing contaminated land in relation to the risk (or possibility) of harm to human health, the revised Statutory Guidance presented a new four category system for considering land under Part 2A, ranging from Category 4, where there is no risk that land poses a significant possibility of significant harm (SPOSH), or the level of risk is low, to Category 1, where the risk that land poses a significant possibility of significant harm (SPOSH) is unacceptably high.

For land that cannot be readily placed into Categories 1 or 4 further assessment is required. If there is a sufficiently strong case that the risks are of sufficient concern to cause significant harm or have the significant possibility of significant harm the land is to be placed into Category 2. If the concern is not met land is considered Category 3.

The technical guidance clearly states that the currently published Soil Guidance Value's (SGV's) and Generic Assessment Criteria (GAC's) represent “*cautious estimates of level of contaminants in soils*” which should be considered “*no risk to health or, at most, a minimal risk*”. These values do not represent the boundary between categories 3 and 4 and “*should be considered to be comfortably within Category 4*”.

At the end of 2013 technical guidance in support of Defra's revised Statutory Guidance (SG) was published and then revised in 2014 (CL:AIRE 2014) which provided:

- A methodology for deriving C4SLs for four generic land-uses comprising residential, commercial, allotments and public open space; and
- A demonstration of the methodology, via the derivation of C4SLs for six substances – arsenic, benzene, benzo(a)pyrene, cadmium, chromium (VI) and lead.

With regards controlled waters the revised Statutory Guidance states that the following types of pollution should be considered to constitute significant pollution of controlled waters:

“(a) Pollution equivalent to “*environmental damage*” to surface water or groundwater as defined by The Environmental Damage (Prevention and Remediation) Regulations 2009, but which cannot be dealt with under those Regulations.

(b) Inputs resulting in deterioration of the quality of water abstracted, or intended to be used in the future, for human consumption such that additional treatment would be required to enable that use.

(c) A breach of a statutory surface water Environment Quality Standard, either directly or via a groundwater pathway.

(d) Input of a substance into groundwater resulting in a significant and sustained upward trend in concentration of contaminants (as defined in Article 2(3) of the Groundwater Daughter Directive (2006/118/EC)).”

The guidance also states that, in some circumstances, significant concentrations at a compliance point (in

groundwater or surface water) may constitute pollution of controlled waters.

As with SPOSH for human health the revised Statutory Guidance presents a four category system for SPOSP for controlled waters. Category 1 covers land where there is a strong and compelling case for SPOSH, for example where significant pollution would almost certainly occur if no action was taken to avoid it. Category 4 covers land where there is no risk or the risk is low, for example, where the land contamination is having no discernible impact on groundwater or surface water quality. Category 2 is for land where the risks posed to controlled waters are not high enough to consider the land as Category 1 but nonetheless are of sufficient concern to constitute SPOSP, Category 3 is for land where the risks posed to controlled waters are higher than low but not of sufficient concern to constitute SPOSP.

2.2 Planning

The Local Planning Authority (LPA) is responsible for the control of development, and in doing so it has a duty to take account of all material considerations, including contamination.

The principal planning objective is to ensure that any unacceptable risks to human health, buildings and other property and the natural and historical environment from the contaminated condition of the land are identified so that appropriate action can be considered and taken to address those risks.

The National Planning Policy Framework (NPPF, 2019), includes the following.

Paragraph 118 states that planning policies and decisions should “(c) *give substantial weight to the value of using suitable brownfield land within settlements for homes and other identified needs, and support appropriate opportunities to remediate despoiled, degraded, derelict, contaminated or unstable land.*”

Paragraph 179 states “*Where a site is affected by contamination or land stability issues, responsibility for securing a safe development rests with the developer and/or landowner.*”

Paragraph 170 states “*planning policies and decisions should contribute to and enhance the natural and local environment by:*

e) *preventing new and existing development from contributing to, being put at unacceptable risk from, or being adversely affected by, unacceptable levels of soil, air, water or noise pollution or land instability. Development should, wherever possible, help to improve local environmental conditions such as air and water quality, taking into account relevant information such as river basin management plans; and*

f) *remediating and mitigating despoiled, degraded, derelict, contaminated and unstable land, where appropriate.*”

Paragraph 178 describes the policy considerations the Government expects LPA's to have in regard to land

PBA Methodology for Land Contamination Assessment (England)

affected by contamination when preparing policies for development plans and in taking decisions on applications.

Paragraph 178 states “*planning policies and decisions should ensure that:*”

a) a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation);

b) after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and

c) adequate site investigation information, prepared by a competent person, is available to inform these assessments.”

Paragraph 183 states “*The focus of planning policies and decisions should be on whether proposed development is an acceptable use of land, rather than the control of processes or emissions (where these are subject to separate pollution control regimes). Planning decisions should assume that these regimes will operate effectively. Equally, where a planning decision has been made on a particular development, the planning issues should not be revisited through the permitting regimes operated by pollution control authorities.”*

The Glossary in Annex 2 provides the following:

Brownfield land registers: *Registers of previously developed land that local planning authorities consider to be appropriate for residential development, having regard to criteria in the Town and Country Planning (Brownfield Land Registers) Regulations 2017. Local planning authorities will be able to trigger a grant of permission in principle for residential development on suitable sites in their registers where they follow the required procedures.*

Competent person (to prepare site investigation information): *A person with a recognised relevant qualification, sufficient experience in dealing with the type(s) of pollution or land instability, and membership of a relevant professional organisation.*

Previously developed land: *Land which is or was occupied by a permanent structure, including the curtilage of the developed land (although it should not be assumed that the whole of the curtilage should be developed) and any associated fixed surface infrastructure. This excludes: land that is or was last occupied by agricultural or forestry buildings; land that has been developed for minerals extraction or waste disposal by landfill, where provision for restoration has been made through development management procedures; land in built-up areas such as residential gardens, parks, recreation grounds and allotments; and land that was previously developed but where the remains of the permanent structure or fixed surface structure have blended into the landscape.*

Site investigation information: *Includes a risk assessment of land potentially affected by contamination, or ground stability and slope stability reports, as appropriate. All investigations of land potentially affected by contamination should be carried out in accordance with established procedures (such as BS10175 Investigation of Potentially Contaminated Sites – Code of Practice). This in turn links to procedures in CLR11 which PBA adopt.*

PBA adopt the principle that a Phase 1 desk study is the minimum assessment requirement for planning applications.

The level at which contamination is deemed to be unacceptable, or, gives rise to adverse effects under a planning context has not been identified but is envisaged to be more precautionary than the level required to determine land as contaminated under Part 2A.

2.3 Building Control

The building control department of the local authority or private sector approved inspectors are responsible for the operation and enforcement of the Building Regulations (DCLG 2010) to protect the health, safety and welfare of people in and around buildings. Approved Document C requires the protection of buildings and associated land from the effects of contamination, to be applied (non-exclusively) in all changes of use from commercial or industrial premises, to residential property.

3 Approach

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

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

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

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

A PBA Phase 1 report normally comprises a desk study, walkover and Tier 1 risk assessment (the project specific proposal defines the actual scope of work). At Tier 1 the PBA approach to risk estimation involves identifying the magnitude of the potential consequence (taking into account both the potential severity of the hazard and the sensitivity of the receptor) and the

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magnitude of the likelihood i.e. the probability (taking into account the presence of the hazard and the receptor and the integrity of the pathway). This approach is promoted in current guidance such as R&D 66 (NHBC 2008).

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

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

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

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

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

The *Conceptual Site Model* identifies the types and locations of potential contaminant sources/hazards and potential receptors and potential migration/transportation pathway(s). The CSM is refined as the assessment progresses through the Tiers.

4.1 Hazard Identification

A hazard is a substance or situation that has the potential to cause harm. Hazards may be chemical, biological or physical.

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

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

At Tier 2 the site specific data is screened using appropriate published assessment criteria (refer to PBA document entitled Rationale for the Selection of Tier 2 Assessment Criteria). In general, published criteria have been developed using highly conservative assumptions and therefore if the screening criterion is not exceeded (and assuming that sufficient samples

from appropriate locations have been analysed) then the COPC is eliminated as a potential Hazard. It should be noted that exceedance does not necessarily indicate that a site is contaminated and/or unsuitable for use only that the COPC is retained as a potential Hazard. Published criteria are generated using models based on numerous and complex assumptions. Whether or not these assumptions are appropriate in a site-specific context requires confirmation on a project by project basis and would normally form part of a Tier 3 assessment.

When reviewing or assessing site specific data PBA utilise published guidance on comparing contamination data with a critical concentration (CL:AIRE/CIEH 2008) which presents a structured process for employing statistical techniques for data assessment purposes. The benefit of the statistical tool (uncertainty in estimating the representative exposure/source concentration) is quantified and decisions are made knowing the strength of the evidence. Correct decision probability is a function of sample size, difference in the mean and the critical concentration, variation in measured values and the significance level.

4.2 Receptor and Pathway Identification

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

- Human Health – including current and future occupiers, construction and future maintenance workers, and neighbouring properties/third parties;
- Ecological Systems; *1
- Controlled Waters *2 – including surface water and groundwater;
- Property - Animal or Crop (including timber; produce grown domestically, or on allotments, for consumption; livestock; other owned or domesticated animals; wild animals which are the subject of shooting or fishing rights); and
- Property - Buildings (including archaeological sites and ancient monuments).

*1 International or nationally designated sites (as defined in the statutory guidance (Defra Circular 04/12)) “in the local area” will be identified as potential ecological receptors. A search radius of 1, 2 or 5km will be utilised depending on the site specific circumstances (see also pathway identification). The Environment Agency has published an ecological risk assessment framework (EA 2008) which promotes (as opposed to statutorily enforces) consideration of additional receptors to include locally protected sites and protected or notable species. These additional potential receptors will only be considered if a Phase 1 habitat survey, undertaken in accordance with guidance (JNCC 1993), is commissioned and the data provided to PBA. It should be noted that without such a survey the Tier 1 risk assessment may conclude that the identification of potential ecological receptors is inconclusive (refer to PBA Specification for Phase 1).

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

If a receptor is taken forward for further assessment it will be classified in terms of its sensitivity, the criteria for which are presented in **Table 2**. Table 2 has been generated using descriptions of environmental receptor importance/value given in various guidance documents including R&D 66 (NHBC 2008), EA 2017 and

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Transport Analysis Guidance (based on DETR 2000). Human health and buildings classifications have been generated by PBA using the attribute description for each class.

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

4.3 Note regarding Ecological Systems

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

The framework consists of a three tiered process:-

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

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

- 1 Establish Regulatory Context
- 2 Collate and Assess Documentary Information
- 3 Summarise Documentary Information
- 4 Identify Contaminants of Potential Concern
- 5 Identify Likely Fate Transport of Contaminants
- 6 Identify Potential Receptors of Concern
- 7 Identify Potential Pathways of Concern
- 8 Create a Conceptual Site Model
- 9 Identify Assessment and Measurement Endpoints
- 10 Identify Gaps and Uncertainties

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

It should be noted that the Tier 1 assessment for ecological systems (i.e. where designated sites are identified) as part of a Phase 1 report will assess the viability of the mode of transport given the site specific circumstances and not specific pathways.

The Tier 1 risk assessment may conclude that the risk to potential ecological receptors is inconclusive (see PBA Specification for Phase 1).

4.4 Note regarding Controlled Waters

Controlled Waters are rivers, estuaries, coastal waters, lakes and groundwaters, but not perched waters.

The EU Water Framework Directive (WFD) 2000/60/EC provides for the protection of sub-surface, surface, coastal and territorial waters through a framework of river basin management. The EU Updated Water Framework Standards Directive 2014/101/EU amended the EU WFD to update the international standards therein; it entered into force on 20 November 2014 with the requirements for its provisions to be transposed in Member State law by 20 May 2016. Other EU Directives in the European water management framework include:

- the EU Priority Substances Directive 2013/39/EU;
- EU Groundwater Pollutants Threshold Values Directive 2014/80/EU amending the EU Groundwater Directive 2006/118/EC; and
- EU Biological Monitoring Directive 2014/101/EU.

The Ground Water Daughter Directive (GWDD) was enacted by the Groundwater Regulations (2009), which were subsumed by the Environmental Permitting Regulations (2010) which provide essential clarification including on the four objectives specifically for groundwater quality in the WFD: -

- Achieve 'Good' groundwater chemical status by 2015, commonly referred to as 'status objective';
- Achieve Drinking Water Protected Area Objectives;
- Implement measures to reverse any significant and sustained upward trend in groundwater quality, referred to as 'trend objective'; and
- Prevent or limit the inputs of pollutants into groundwater, commonly referred to as 'prevent or limit' objectives

The Water Act 2003 (Commencement No.11) Order 2012 amends the test for 'contaminated land' which relates to water pollution so that pollution of controlled waters must now be "significant" to meet the definition of contaminated land.

River Basin Management Plans (RBMP) have been developed for the 11 River Basin Districts in England and Wales. These were released by Defra in 2009 (Defra 2009) and these were updated in 2015.

These RBMP's establish the current status of waters within the catchments of the respective Districts and the current status of adjoining waters identified. As part of a Tier 2 risk assessment water quality data is screened against the WFD assessment criteria. Comparison with the RBMP's current status of waters for the catchment under consideration would form part of a Tier 3 assessment.

5 Risk Estimation

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

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

PBA Methodology for Land Contamination Assessment (England)

The criteria for classifying probability are set out in **Table 4** and have been taken directly from Table 6.4 CIRIA C552 (CIRIA 2001). Probability considers the integrity of the exposure pathway.

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

The Tier 1 risk classification is estimated for each pollutant linkage using the matrix given in **Table 6** which is taken directly from C552 (Table 6.5). Subsequent Tiers refine the CSM through retention or elimination of potential hazards and pollutant linkages.

6 Risk Evaluation

Risk evaluation is used to determine whether the risk is acceptable or not. It includes consideration of the risk estimation and associated uncertainties.

The PBA Tier 1 methodology provides an estimate of the level of risk, but does not identify a risk level at which the risk is considered “significant” and/or “unacceptable” as this is dependent on the view of the individual / stakeholder. For example; to a risk adverse stakeholder even a risk level of “very low” may be considered unacceptable and as such this stakeholder may require risk management options to be implemented.

In order to put the Tier 1 risk classification into context the likely actions are described in **Table 7** which is taken directly from C552 (Table 6.6). Subsequent Tiers identify potential risk management options through remediation and/or mitigation measures.

7 References

BSI 2007 BS 8485 Code of Practice for characterisation and remediation from ground gas in affected developments.

BSI 2017 BS 10175:2011+A2:2017 Investigation of potentially contaminated sites - Code of Practice

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

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

CL:AIRE/EIH 2008 Guidance on Comparing Soil Contamination Data with a Critical Concentration. Published by Contaminated Land: Applications in Real Environments (CL:AIRE)

CL:AIRE 2013 SP1010 – Development of Category 4 Screening Levels for Assessment of Land Affected by Contamination. Final Project Report published by

Contaminated Land: Applications in Real Environments (CL:AIRE) 20th December 2013

DCLG 2010 Building Regulations 2010 Approved Document C Site preparation and resistance to contaminants and moisture.

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

Defra Circular 01/2006

Defra Circular 04/2012 Environmental Protection Act 1990: Part 2A. Contaminated Land Statutory Guidance.

DEFRA, 2006 The Contaminated Land (England) Regulations 2006.

DEFRA, 2012 The Contaminated Land (England) (Amendment) Regulations 2012 (SI2012/263).

DEFRA, 2012 Environmental Protection Act 1990: Part 2A. Contaminated Land Statuary Guidance. April 2012.

DEFRA, 2013 Environmental Damage (Prevention and Remediation) Regulations 2009: Guidance for England and Wales

Defra ‘2009 Water for Life and Livelihoods. River Basin Management Plan. (11 Districts: Anglia, Dee, Humber, Northumbria, Northwest, Severn, Solway and Tweed, Southeast, Thames, Western Wales) December 2009

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

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

EA 2017 New groundwater vulnerability mapping methodology in England and Wales Report – SC040016/R Environment Agency (EA) September 2017

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

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

National Planning Policy Framework (February 2019), published by the Ministry of Housing, Communities and Local Government (MHCLG) Available at: https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/779764/NPPF_Feb_2019_web.pdf

PBA Methodology for Land Contamination Assessment (England)

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

Classification/Score	Potential for generating contamination/gas based on land use
Very Low 1	Land Use: Residential, retail or office use, agriculture Contamination: Limited. Gas generation potential : Soils with low organic content
Low 2	Land Use: Recent small scale industrial and light industry Contamination: locally slightly elevated concentrations. Gas generation potential : Soils with high organic content (limited thickness)
Moderate 3	Land Use: Railway yards, collieries, scrap yards, engineering works. Contamination: Possible widespread slightly elevated concentrations and locally elevated concentrations. Gas generation potential : Dock silt and substantial thickness of organic alluvium/peat
High 4	Land Use: Heavy industry, non-hazardous landfills. Contamination: Possible widespread elevated concentrations. Gas generation potential : Shallow mine workings Pre 1960's landfill
Very High 5	Land Use: Hazardous waste landfills, gas works, chemical works, Contamination: Likely widespread elevated concentrations. Gas generation potential: Landfill post 1960

"Greenfield" is land which has not been developed or used for commercial agriculture (no use of agrochemicals) – without a source/hazard this are no plausible pollutant linkages and therefore no risk.

Table 2: Criteria for Classifying Receptor Sensitivity/Value

Classification/Score	Definition
Very Low 1	Receptor of limited importance <ul style="list-style-type: none"> Groundwater: Unproductive strata (Strata with negligible significance for water supply or river baseflow) (previously Non-aquifer), Secondary B (water-bearing parts of non-aquifers), Secondary undifferentiated (previously minor or non-aquifer, but information insufficient to classify as secondary A or B) Surface water: Water body within 25m or eliminate Ecology: No local designation Buildings: Replaceable Human health: Unoccupied/limited access
Low 2	Receptor of local or county importance with potential for replacement <ul style="list-style-type: none"> Groundwater: Secondary A aquifer Surface water: Tertiary water body immediately adjacent Ecology: local habitat resources Buildings: Local value Human health: Minimum score 4 where human health identified as potential receptor
Moderate 3	Receptor of local or county importance with potential for replacement <ul style="list-style-type: none"> Groundwater: Principal aquifer Surface water: Secondary water body immediately adjacent Ecology: County wildlife sites, Areas of Outstanding Natural Beauty (AONB) Buildings: Area of Historic Character Human health: Minimum score 4 where human health identified as potential receptor
High 4	Receptor of county or regional importance with limited potential for replacement <ul style="list-style-type: none"> Groundwater: Source Protection Zone 2 or 3 Surface water: Primary water body immediately adjacent Ecology: SSSI, National or Marine Nature Reserve (NNR or MNR) Buildings: Conservation Area Human health: Minimum score 4 where human health identified as potential receptor
Very High 5	Receptor of national or international importance <ul style="list-style-type: none"> Groundwater: Source Protection Zone (SPZ) 1 Surface water: Primary water body on site Ecology: Special Areas of Conservation (SAC and candidates), Special Protection Areas (SPA and potentials) or wetlands of international importance (RAMSAR) Buildings: World Heritage site Human health: Residential, open spaces and uses where children are present

Table 3: Exposure Pathway and Modes of Transport

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

Table 4: Classification of Probability

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

PBA Methodology for Land Contamination Assessment (England)

Table 5: Classification of Consequence (score = magnitude of hazard Table 1 and sensitivity of receptor Table 2)

Classification / Score	Examples
Severe 17-25 (3 out of 25 outcomes)	Human health effect - exposure likely to result in “significant harm” as defined in the Defra (2012) Part 2A Statutory Guidance ¹ . Controlled water effect - short-term risk of pollution (note: Water Resources Act contains no scope for considering significance of pollution) of sensitive water resource. Equivalent to EA Category 1 incident (persistent and/or extensive effects on water quality leading to closure of potable abstraction point or loss of amenity, agriculture or commercial value. Major fish kill. Ecological effect - short-term exposure likely to result in a substantial adverse effect. Catastrophic damage to crops, buildings or property
Medium 10-16 (7 out of 25 outcomes)	Human health effect - exposure could result in “significant harm” ¹ . Controlled water effect - equivalent to EA Category 2 incident requiring notification of abstractor Ecological effect - short-term exposure may result in a substantial adverse effect. Damage to crops, buildings or property
Mild 5-9 (7 out of 25 outcomes)	Human health effect - exposure may result in “significant harm” ¹ . Controlled water effect - equivalent to EA Category 3 incident (short lived and/or minimal effects on water quality). Ecological effect - unlikely to result in a substantial adverse effect. Minor damage to crops, buildings or property. Damage to building rendering it unsafe to occupy (for example foundation damage resulting in instability).
Minor 1-4 (8 out of 25 outcomes)	No measurable effect on humans. Protective equipment is not required during site works. Equivalent to insubstantial pollution incident with no observed effect on water quality or ecosystems. Repairable effects to crops, buildings or property. The loss of plants in a landscaping scheme. Discolouration of concrete.

Note: 1. Significant harm includes death, disease, serious injury, genetic mutation, birth defects or impairment of reproductive function. The local authority may also consider other health effects to constitute significant harm such as physical injury; gastrointestinal disturbances; respiratory tract effects; cardio-vascular effects; central nervous system effects; skin ailments; effects on organs such as the liver or kidneys; or a wide range of other health impacts. Whether or not these would constitute significant harm would depend on the seriousness of harm including impact on health, quality of life and scale of impact.

Table 6: Classification of Risk (Combination of Consequence Table 5 and Probability Table 4)

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

Table 7: Description of Risks and Likely Action Required

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

Appendix C Walkover Photographs



Plate 1 – View from Cowley Conservative Club car park looking west towards rear of club building. Cabins and stores are in use as site compound for development to north of site boundary.



Plate 2 – View from club car park looking south-east towards garages located along eastern site boundary. Houses in background are beyond site boundary on St Luke's Road.



 <p>now part of</p> 	Client	SITE PHOTOGRAPHS FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD	Date	Aug 2019
	Cantay Estates		A4 Scale	NTS
			Drawn	RF
			Checked	PJ
			Appendix	C



Plate 3 – Internal view of one of the garages.



Plate 4 – View of rear of club building looking north-west from club car park.



 <p>now part of</p> 	Client	<p>SITE PHOTOGRAPHS</p> <p>FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD</p>	Date	Aug 2019
	Cantay Estates		A4 Scale	NTS
			Drawn	RF
			Checked	PJ
			Appendix	C



Plate 5 – View of car park for Nos 17/17a Between Towns Road looking west from eastern site boundary. Club building is on left hand side; new student accommodation (off-site) on right hand side. Nos 17/17a are at the rear of the photo.



Plate 6 – View of car park for Nos 17/17a Between Towns Road looking south-east. Club building is on right hand side. Scarring on surface of car park evident .



 <p>now part of</p> 	Client	SITE PHOTOGRAPHS FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD	Date	Aug 2019
	Cantay Estates		A4 Scale	NTS
			Drawn	RF
			Checked	PJ
			Appendix	C



Plate 7 – View of Cowley Conservative Club from Between Towns Road.



Plate 8 – View of Nos 17/17a from Between Towns Road.





 <p>now part of</p> 	Client	SITE PHOTOGRAPHS FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD	Date	Aug 2019
	Cantay Estates		A4 Scale	NTS
			Drawn	RF
			Checked	PJ
			Appendix	C



Plate 9 – Internal view of southern section of Cowley Conservative Club, looking west.

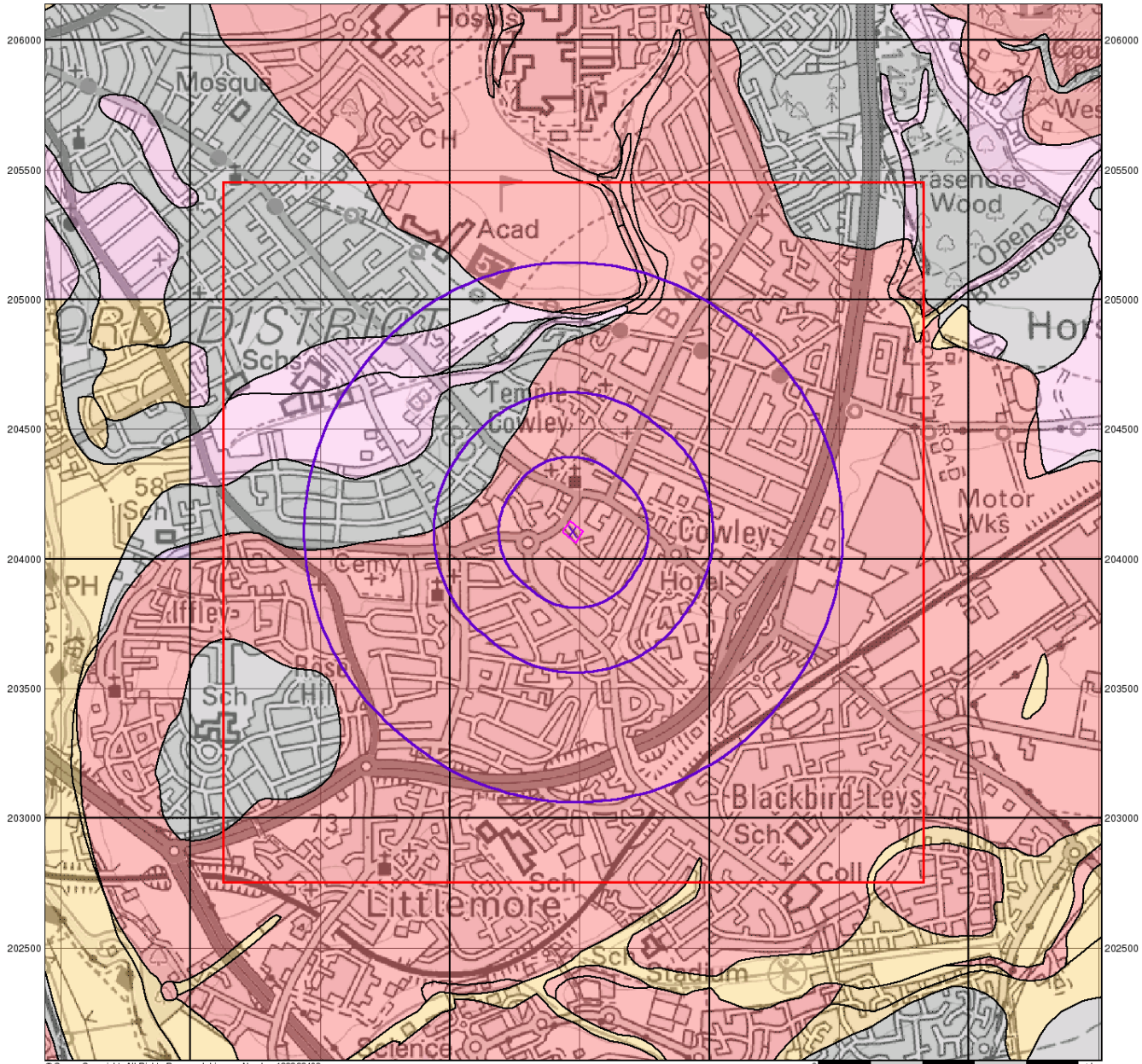


Plate 10 – Internal view of northern section of Cowley Conservative Club, looking east.

 <p>now part of</p> 	Client	SITE PHOTOGRAPHS FORMER COWLEY CONSERVATIVE CLUB, BETWEEN TOWNS ROAD, OXFORD	Date	Aug 2019
	Cantay Estates		A4 Scale	NTS
			Drawn	RF
			Checked	PJ
			Appendix	C

Appendix D Envirocheck Report

452500 453000 453500 454000 454500 455000 455500 456000 456500



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0 1 km

Groundwater Vulnerability

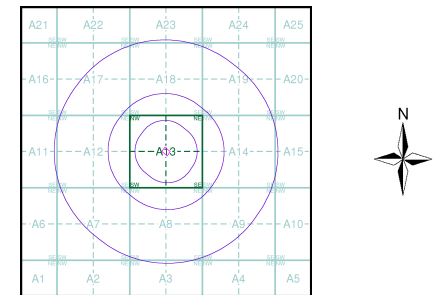
General

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

Agency and Hydrological

- | Bedrock Aquifers | Superficial Aquifers |
|--|--|
| High Vulnerability, Principal Aquifer | High Vulnerability, Principal Aquifer |
| High Vulnerability, Secondary Aquifer | High Vulnerability, Secondary Aquifer |
| Medium Vulnerability, Principal Aquifer | Medium Vulnerability, Principal Aquifer |
| Medium Vulnerability, Secondary Aquifer | Medium Vulnerability, Secondary Aquifer |
| Low Vulnerability, Principal Aquifer | Low Vulnerability, Principal Aquifer |
| Low Vulnerability, Secondary Aquifer | Low Vulnerability, Secondary Aquifer |
| Unproductive Aquifer | |
| Soluble Rock | |

Site Sensitivity Context Map - Slice A



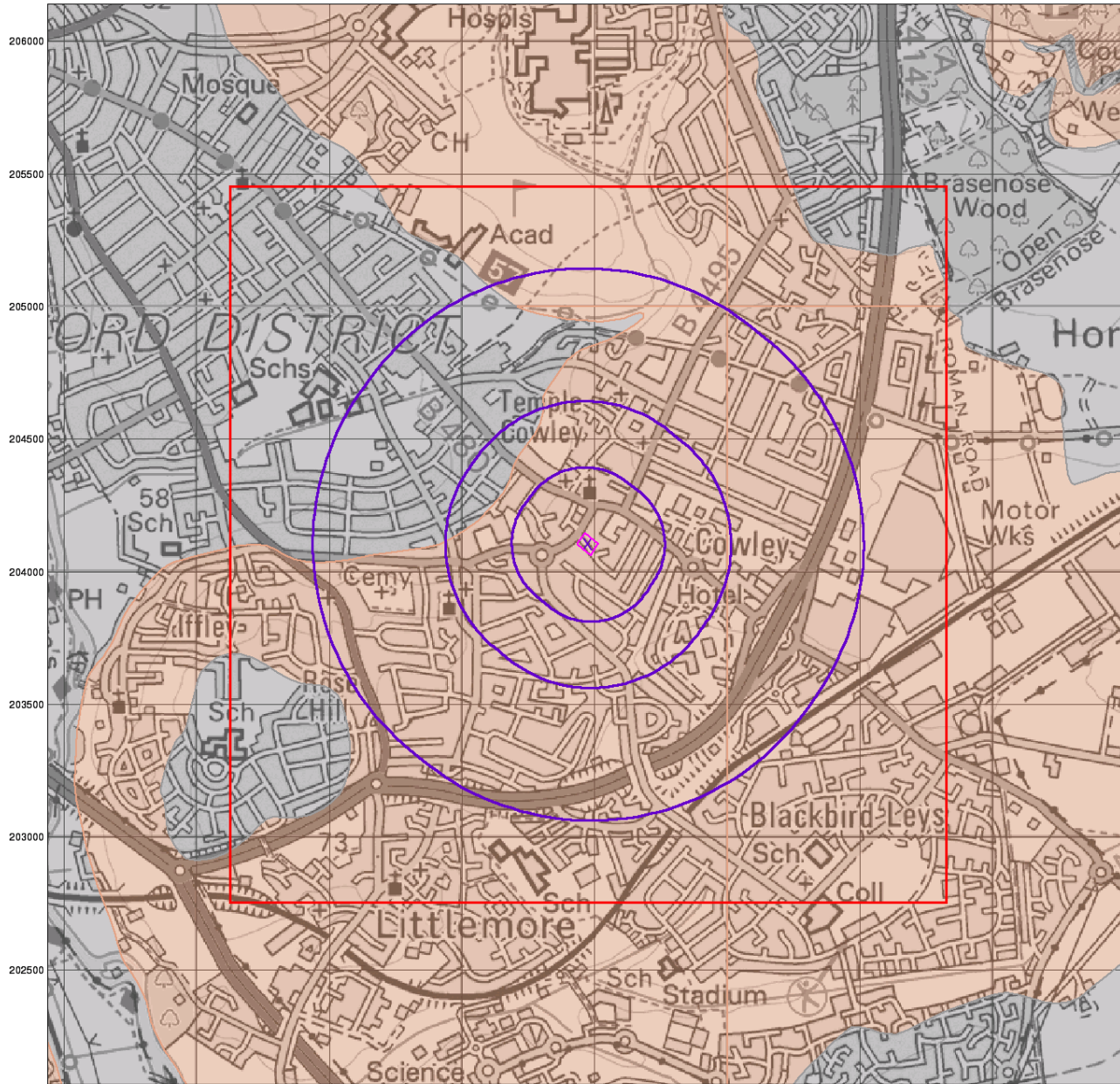
Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
 National Grid Reference: 454480, 204100
 Slice: A
 Site Area (Ha): 0.32
 Search Buffer (m): 1000

Site Details

Former Conservative Club, Between Towns Road, OXFORD

452500 453000 453500 454000 454500 455000 455500 456000 456500



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0 1 km

Bedrock Aquifer Designation

General

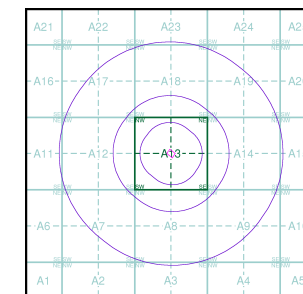
- ◆ Specified Site
- Specified Buffer(s)
- ✕ Bearing Reference Point
- Slice
- B Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



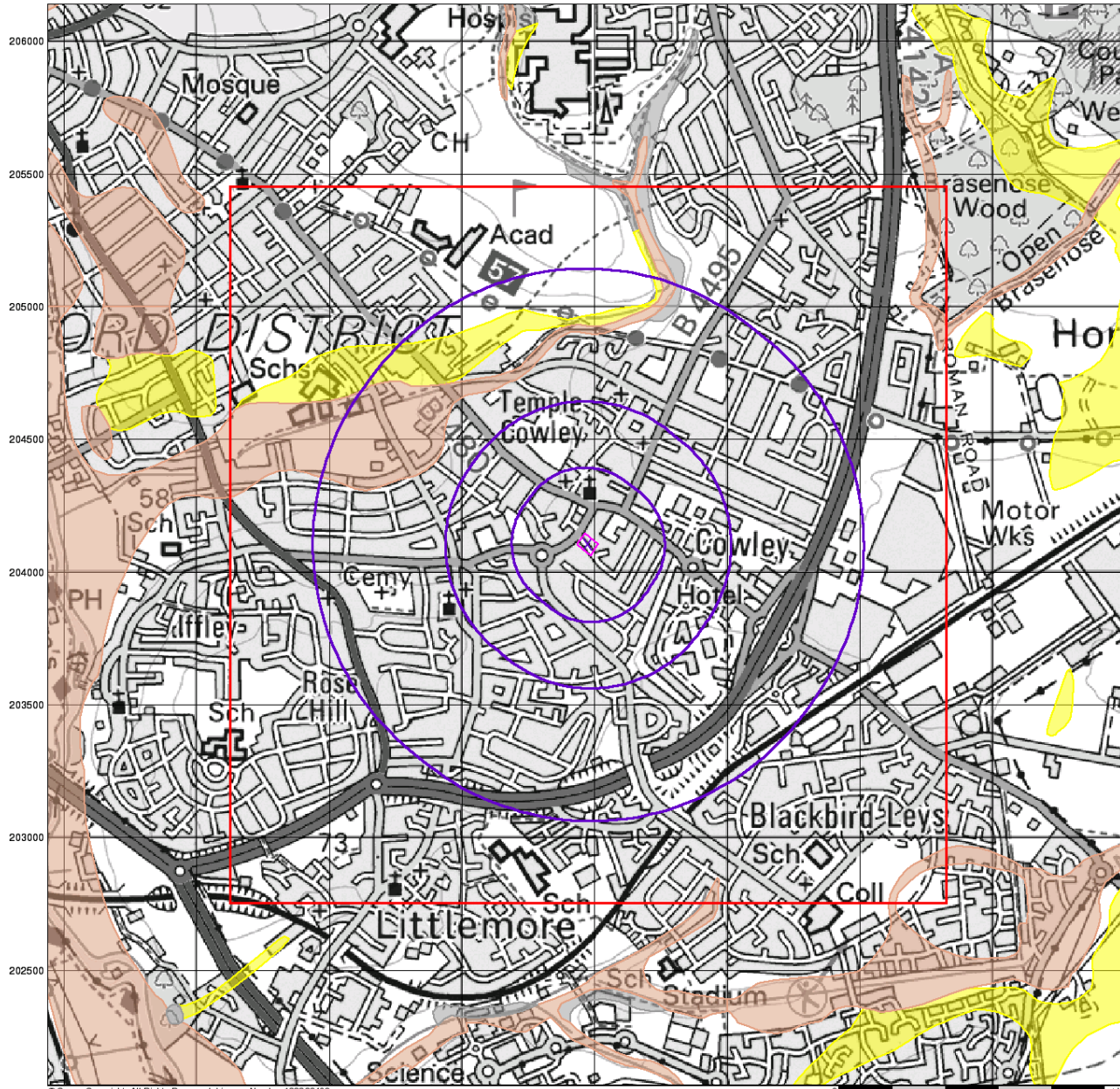
Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
 National Grid Reference: 454480, 204100
 Slice: A
 Site Area (Ha): 0.32
 Search Buffer (m): 1000

Site Details

Former Conservative Club, Between Towns Road, OXFORD

452500 453000 453500 454000 454500 455000 455500 456000 456500



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Superficial Aquifer Designation

General

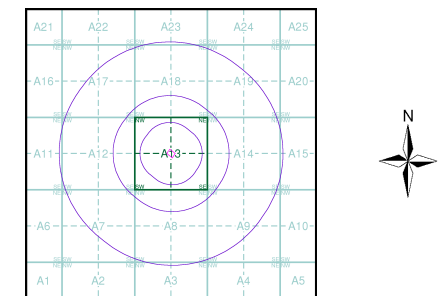
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



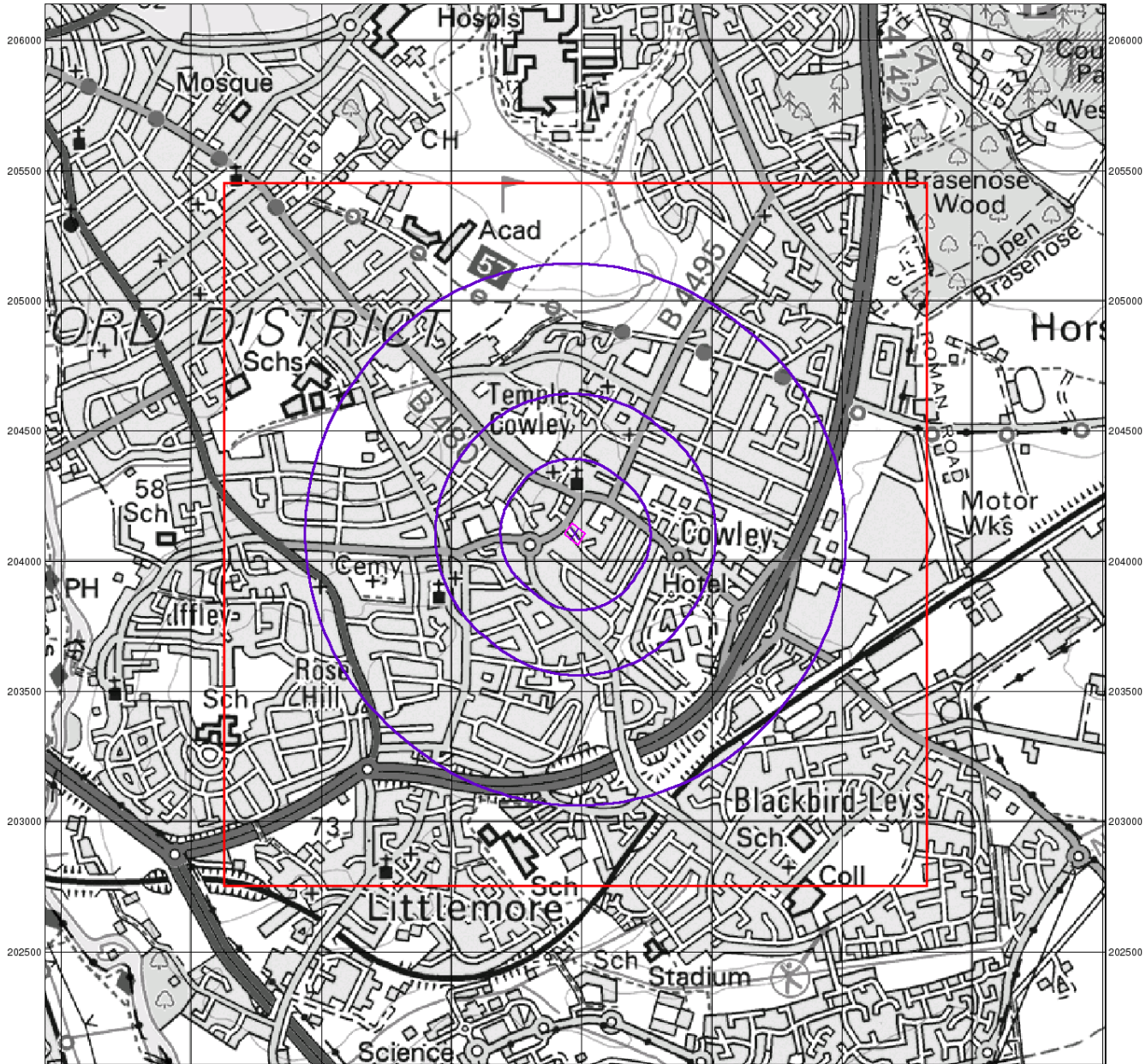
Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
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Source Protection Zones

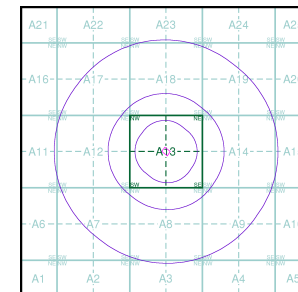
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



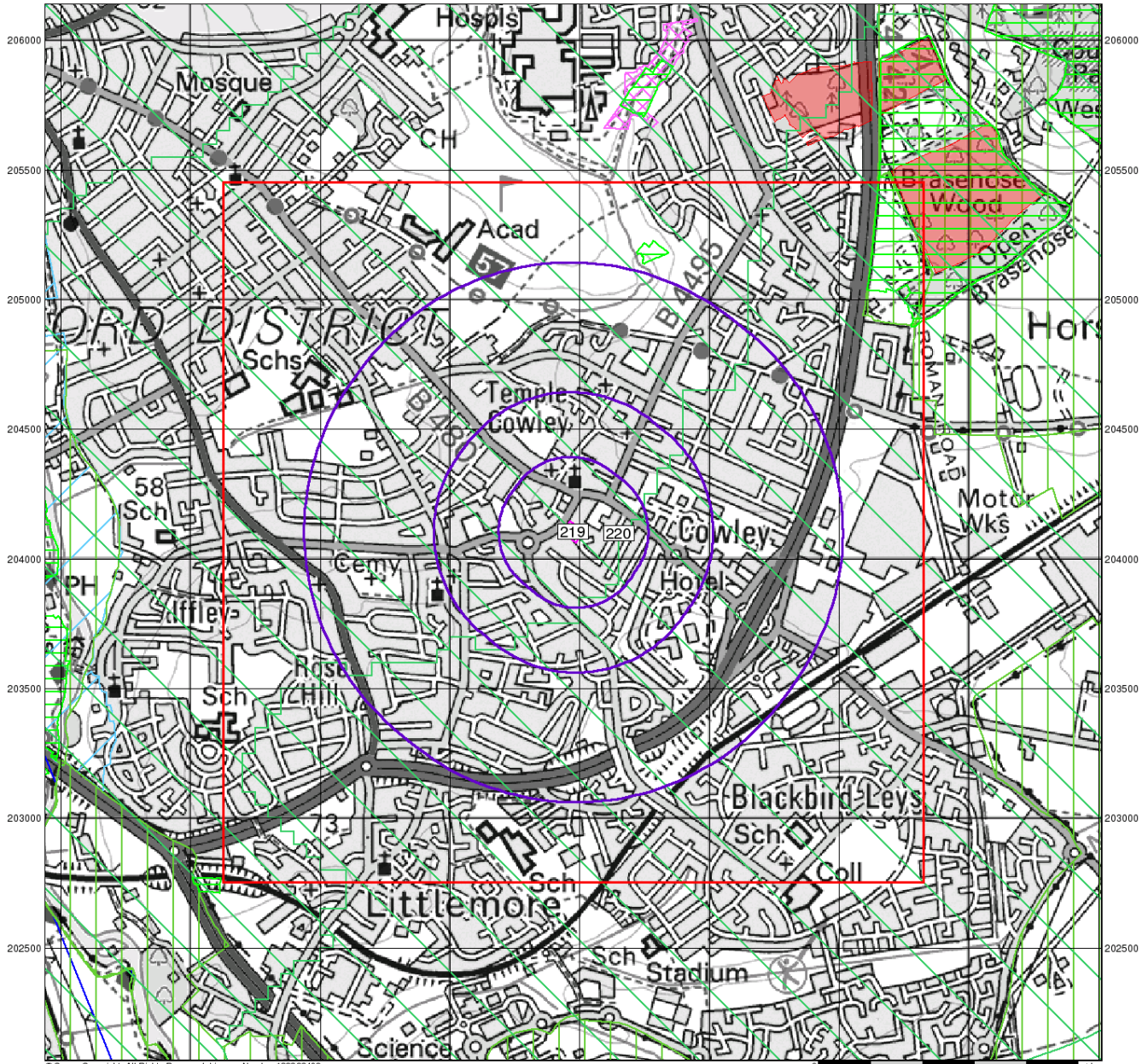
Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
 National Grid Reference: 454480, 204100
 Slice: A
 Site Area (Ha): 0.32
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Sensitive Land Uses

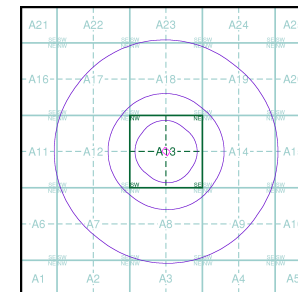
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



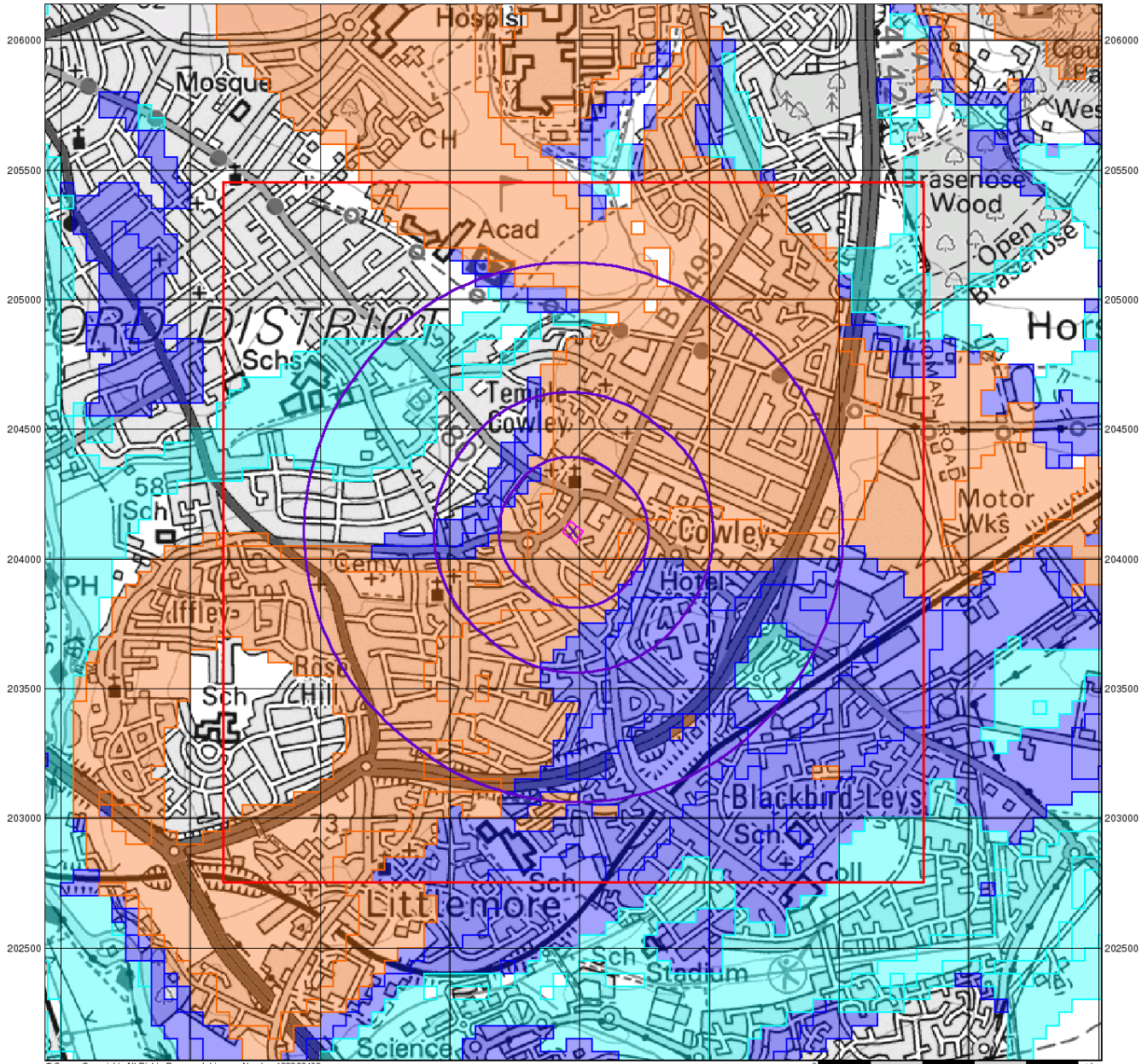
Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
 National Grid Reference: 454480, 204100
 Slice: A
 Site Area (Ha): 0.32
 Search Buffer (m): 1000

Site Details

Former Conservative Club, Between Towns Road, OXFORD

452500 453000 453500 454000 454500 455000 455500 456000 456500



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BGS Flood GFS Data

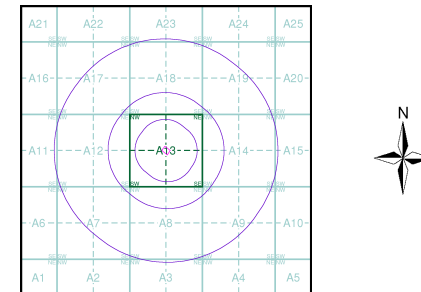
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
 National Grid Reference: 454480, 204100
 Slice: A
 Site Area (Ha): 0.32
 Search Buffer (m): 1000

Site Details

Former Conservative Club, Between Towns Road, OXFORD



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

214311051_1_1

Customer Reference:

46381/3500

National Grid Reference:

454480, 204100

Slice:

A

Site Area (Ha):

0.32

Search Buffer (m):

1000

Site Details:

Former Conservative Club

Between Towns Road

OXFORD

Client Details:

Ms K Riley

Peter Brett Associates LLP

Caversham Bridge House

Waterman Place

Reading

Berkshire

RG1 8DN



Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	15
Hazardous Substances	-
Geological	17
Industrial Land Use	19
Sensitive Land Use	42
Data Currency	43
Data Suppliers	48
Useful Contacts	49

Introduction

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

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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 1				8
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control	pg 3				1
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls	pg 3		1	1	8
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4			Yes	
Pollution Incidents to Controlled Waters	pg 5			4	20
Prosecutions Relating to Authorised Processes	pg 9			1	
Registered Radioactive Substances	pg 9		2		
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 9				2
Water Abstractions	pg 9				(*1)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 10	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk	pg 10	1	n/a	n/a	n/a
Groundwater Vulnerability - Local Information			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 10				39

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 15				1
Local Authority Landfill Coverage	pg 15	2	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Potentially Infilled Land (Non-Water)	pg 15				5
Potentially Infilled Land (Water)	pg 15			1	3
Registered Landfill Sites					
Registered Waste Transfer Sites	pg 16				2
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes			Yes
BGS Recorded Mineral Sites	pg 17				2
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 18	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 18	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 18		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards				n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 19		16	41	76
Fuel Station Entries	pg 30		1	1	3
Points of Interest - Commercial Services	pg 31		7	7	26
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 34		5	8	14
Points of Interest - Public Infrastructure	pg 37		7	7	16
Points of Interest - Recreational and Environmental	pg 39		2	4	16
Gas Pipelines					
Underground Electrical Cables					



Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 42	1	1		
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (S)	0	1	454476 204103
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	88	1	454350 204103
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	130	1	454600 204000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (NW)	195	1	454300 204250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	231	1	454650 203900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	238	1	454200 204103
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NW (W)	256	1	454200 204200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	302	1	454700 203850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A18SW (NW)	349	1	454300 204450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	486	1	455000 204103
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	495	1	455000 204200
1	Discharge Consents Operator: H Sahli, Esq Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 54-56 Marsh Road, Oxford, Oxfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.3128 Permit Version: 1 Effective Date: 9th February 1989 Issued Date: 9th February 1989 Revocation Date: 20th June 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Cowley Marshstream Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A18SW (NW)	617	2	454200 204700
2	Discharge Consents Operator: Magdalen Development Company Ltd Property Type: REAL ESTATE ACTIVITIES/BUYING/SELLING/RENTING Location: Plot 6, Oxford Science Park, Sandford On Thames, Oxford, Oxfordshire Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Cntm.0146 Permit Version: 1 Effective Date: 13th March 1992 Issued Date: 13th March 1992 Revocation Date: 15th May 1995 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Northfield Brook Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m	A8SE (S)	665	2	454540 203400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	<p>Discharge Consents</p> <p>Operator: A. Moran Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: Site Adj. 46 Marsh Road, Cowley, Oxon Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.1382 Permit Version: 1 Effective Date: 9th January 1987 Issued Date: 9th January 1987 Revocation Date: 4th November 1991 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Cowley Marshstream Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A17SE (NW)	666	2	454100 204700
4	<p>Discharge Consents</p> <p>Operator: Mr. D. Ford Property Type: DOMESTIC PROPERTY (SINGLE) (INCL FARM HOUSE) Location: House Behind No 45 Wilkins Road Marshall Road Oxfordshire Ox4 2nr Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: CAWM.0011 Permit Version: 1 Effective Date: 19th April 1999 Issued Date: 9th June 1999 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land 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>	A19SW (NE)	697	2	455080 204510
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Van Diemans Lane Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2151 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: Northfield Brook Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	723	2	454200 203400
5	<p>Discharge Consents</p> <p>Operator: Thames Water Utilities Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Van Diemans Lane Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Temp.2151 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: Northfield Brook Status: Temporary Consents (Water Act 1989, Section 113) Positional Accuracy: Located by supplier to within 100m</p>	A8SW (S)	723	2	454200 203400



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Discharge Consents</p> <p>Operator: The Glynwed Commingled Fund Property Type: Undefined Or Other Location: Rear Of 190-196 Garsington Road, Cowley, Oxford Authority: Environment Agency, Thames Region Catchment Area: Not Given Reference: Ctwc.0042 Permit Version: 1 Effective Date: 15th April 1985 Issued Date: 15th April 1985 Revocation Date: 1st October 1996 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Northfield Brook West Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A9NE (SE)	892	2	455250 203600
6	<p>Discharge Consents</p> <p>Operator: Dresden Estates (Developments) Ltd Property Type: Undefined Or Other Location: Rear Of 190-196 Garsington Road, Cowley, Oxford Authority: Environment Agency, Thames Region Catchment Area: Not Supplied Reference: Ctwc.0043 Permit Version: 1 Effective Date: 15th April 1985 Issued Date: 15th April 1985 Revocation Date: 29th May 1991 Discharge Type: Unknown Discharge: Freshwater Stream/River Environment: Receiving Water: Northfield Brook West Status: Authorisation revoked Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	892	2	455250 203600
7	<p>Integrated Pollution Prevention And Control</p> <p>Name: Gb Gas Holdings Limited Location: British Gas Office, Oxford, 2600, John Smith Drive,Oxford Business Park South,, Oxford, Oxfordshire, OX4 2JY Authority: Environment Agency - South East Region, West Thames Area Permit Reference: CP3236QA Original Permit Ref: Cp3236qa Effective Date: 28th March 2019 Status: Effective Application Type: Application App. Sub Type: New Positional Accuracy: Located by supplier to within 10m Activity Code: 25A (a) Activity Description: New Medium Combustion Plant Primary Activity: Y</p>	A9NW (SE)	733	2	455010 203550
8	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Murco Service Station Location: Between Towns Road, Cowley Centre, Oxford, Oxfordshire, OX4 3LZ Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/26/99 Dated: 9th February 1999 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>	A13NE (NE)	46	3	454505 204170
9	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Cowley Service Station Location: 44-48 Garsington Road, Cowley, OXFORD, Oxfordshire, OX4 2LG Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/27B/00 Dated: 10th February 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	278	3	454788 204059
10	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Pace Petroleum Location: 44-56 Oxford Road, Cowley, Oxford, Oxfordshire, OX4 2EN Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/23/99 Dated: 2nd February 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	547	3	454071 204522



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Crescent Road Garage Location: 127 Crescent Road, Cowley, OXFORD, Oxfordshire, OX4 2NY Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/1/92 Dated: 6th July 1992 Process Type: Local Authority Air Pollution Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Authorised Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	575	3	454665 204682
12	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: City Works Transport Services Location: Cowley Marsh Depot, Marsh Road, OXFORD, Oxfordshire, OX4 2HH Authority: Oxford City Council, Environmental Health Department Permit Reference: Not Given Dated: 31st December 1994 Process Type: Local Authority Air Pollution Control Description: PG6/34 Respraying of road vehicles Status: Authorisation revoked Positional Accuracy: Manually positioned to the address or location</p>	A18NW (N)	707	3	454200 204799
13	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Unipart Cowley Location: Unipart House, Cowley, OXFORD, Oxfordshire, OX4 2PG Authority: Oxford City Council, Environmental Health Department Permit Reference: Epa/8/01 Dated: 25th January 2001 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>	A14SE (E)	883	3	455397 204085
14	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Motofix Oxford Ltd Location: 496 Cowley Road, OXFORD, Oxfordshire, OX4 2DP Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/19A/95 Dated: 30th September 1993 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>	A17SE (NW)	901	3	453805 204756
15	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Tesco Stores Ltd Location: Unit 7 Oxford Retail Park, Ambassador Avenue, Oxford, Oxfordshire, OX4 2SL Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/24/99 Dated: 4th February 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Authorised Positional Accuracy: Automatically positioned to the address</p>	A9SW (SE)	923	3	455141 203413
16	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: W G Powell Ltd Location: 474 Cowley Road, Oxford, Oxfordshire, OX4 2DP Authority: Oxford City Council, Environmental Health Department Permit Reference: NOT GIVEN Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG6/2 Manufacture of timber and wood-based products Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address</p>	A17NE (NW)	946	3	453801 204816
17	<p>Local Authority Pollution Prevention and Controls</p> <p>Name: Humphris Oxford Ltd Location: 72 Rose Hill, OXFORD, Oxfordshire, OX4 4HS Authority: Oxford City Council, Environmental Health Department Permit Reference: EPA/21A/96 Dated: 1st October 1996 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>	A7NW (SW)	965	3	453559 203706
	<p>Nearest Surface Water Feature</p>	A13NE (N)	318	-	454603 204430



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Cowley, OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 3rd August 1995 Incident Reference: W1950412 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>	A12SE (W)	445	2	454005 204000
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 4th February 1995 Incident Reference: W1950052 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>	A12SE (W)	447	2	454005 203995
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: COWLEY Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 13th October 1993 Incident Reference: W1930542 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>	A12SE (W)	450	2	454000 204000
18	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Cowley, OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 20th April 1994 Incident Reference: W1940225 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>	A12SE (W)	452	2	454000 203995
19	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Cowley, OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 26th November 1991 Incident Reference: W1910509 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>	A18NE (N)	671	2	454600 204800
20	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 30th October 1989 Incident Reference: W1890535 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>	A9NW (SE)	712	2	455100 203700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
21	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th December 1994 Incident Reference: WE940662 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>	A17SE (NW)	724	2	453900 204595
21	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 7th December 1994 Incident Reference: WE940653 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>	A17SE (NW)	727	2	453900 204600
22	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 20th September 1993 Incident Reference: W1930507 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>	A18NE (NE)	737	2	454800 204800
23	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: Not Supplied Incident Reference: W1910262 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>	A17SE (NW)	790	2	453900 204695
23	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 2nd December 1992 Incident Reference: W1920611 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>	A17SE (NW)	793	2	453900 204700
24	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Watlington Road, OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 16th July 1997 Incident Reference: THWE1997028626 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>	A9NE (SE)	796	2	455200 203700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 22nd September 1993 Incident Reference: W1930498 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>	A9NE (SE)	877	2	455295 203705
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 19th July 1994 Incident Reference: W1940385 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>	A9NE (SE)	879	2	455295 203700
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 28th July 1993 Incident Reference: W1930419 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>	A9NE (SE)	882	2	455300 203705
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Unknown Sewage Note: Confirmed As A Pollution Incident Incident Date: 3rd February 1989 Incident Reference: W1890062 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>	A9NE (SE)	884	2	455300 203700
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 22nd July 1993 Incident Reference: W1930405 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>	A9NE (SE)	886	2	455305 203705
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Cowley, OXFORD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 8th February 1989 Incident Reference: W1890076 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>	A9NE (SE)	886	2	455300 203695



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 17th April 1993 Incident Reference: W1930251 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>	A9NE (SE)	888	2	455305 203700
25	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Chemicals - Unknown Note: Confirmed As A Pollution Incident Incident Date: 25th November 1992 Incident Reference: W1920589 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>	A9NE (SE)	891	2	455305 203695
26	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 20th January 1994 Incident Reference: W1940050 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>	A17SW (NW)	885	2	453700 204595
26	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Oils - Unknown Note: Confirmed As A Pollution Incident Incident Date: 29th March 1991 Incident Reference: W1910136 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>	A17SW (NW)	888	2	453700 204600
27	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: Cowley, OXFORD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Unknown Note: Confirmed As A Pollution Incident Incident Date: 4th May 1989 Incident Reference: W1890250 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>	A18NE (N)	890	2	454701 205001
28	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Not Given Location: OXFORD Authority: Environment Agency, Thames Region Pollutant: Miscellaneous - Urban Runoff Note: Confirmed As A Pollution Incident Incident Date: 2nd November 1989 Incident Reference: W1890553 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>	A17SW (NW)	946	2	453700 204700



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	<p>Prosecutions Relating to Authorised Processes</p> <p>Location: Garsington Road, Oxford Business Park, Oxford, Ox4 Prosecution Text: Failure to comply with packaging waste regulations Prosecution Act: Pro97 Hearing Date: 18th December 2006 Verdict: Guilty Fine: 15000 Costs: 8964 Positional Accuracy: Manually positioned to the address or location</p>	A14NW (E)	308	2	454820 204142
30	<p>Registered Radioactive Substances</p> <p>Name: Becton Dickinson (uk) Ltd Location: 21 BETWEEN TOWNS ROAD,, COWLEY, OXFORD, OXFORDSHIRE, OX4 3LY Authority: Environment Agency, Thames Region Permit Reference: AL8657 Dated: 5th May 1994 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 cancelled Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	49	2	454407 204066
30	<p>Registered Radioactive Substances</p> <p>Name: Becton Dickinson (uk) Ltd Location: 21 BETWEEN TOWNS ROAD,, COWLEY, OXFORD, OXFORDSHIRE, OX4 3LY Authority: Environment Agency, Thames Region Permit Reference: AB6322 Dated: 3rd April 1992 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	49	2	454407 204066
31	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - Thames Region, South East Area Incident Date: 5th April 2011 Incident Reference: 872746 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Other Contaminated Water</p>	A17SE (NW)	744	2	453958 204687
32	<p>Substantiated Pollution Incident Register</p> <p>Authority: Environment Agency - Thames Region, South East Area Incident Date: 4th March 2009 Incident Reference: 658752 Water Impact: Category 3 - Minor Incident Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage</p>	A17SW (NW)	912	2	453672 204602
	<p>Water Abstractions</p> <p>Operator: C N Sykes Licence Number: 28/39/15/0015 Permit Version: Not Supplied Location: Guydens Farm, GARSINGTON Authority: Environment Agency, Thames Region Abstraction: Agriculture (General) Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 2 Yearly Rate (m3): 763 Details: Portland And Purbeck Beds. Status: Revoked; Lapsed Or Cancelled Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	(SE)	1868	2	456200 203300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Intermediate Bedrock Flow: Well Connected Fractures Dilution: <300 mm/year Baseflow Index: 40-70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: No Data	A13NW (S)	0	4	454476 204103
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Problems Unlikely	A13NW (S)	0	4	454476 204103
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NW (S)	0	4	454476 204103
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
33	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (NW)	591	5	453938 204422
34	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 258.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18SW (NW)	643	5	454201 204729
35	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 131.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18SW (NW)	643	5	454201 204729
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 21.2 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (NW)	674	5	453823 204381

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: Underground Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NW (N)	691	5	454300 204815
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NE (W)	694	5	453802 204383
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 8.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NW (N)	694	5	454302 204817
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.3 Watercourse Level: Underground Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NW (N)	699	5	454307 204824
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 165.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NW (N)	702	5	454310 204828
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (NW)	703	5	453794 204389
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 176.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (NW)	708	5	453789 204390
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 251.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A17SE (NW)	749	5	453948 204685
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 71.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	760	5	454641 204883



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NE (N)	768	5	454496 204910
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NW (N)	782	5	454439 204924
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 10.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NW (N)	785	5	454458 204928
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 2.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	785	5	454458 204928
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	786	5	454448 204929
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 20.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	788	5	454459 204931
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 282.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NE (N)	790	5	454569 204927
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NE (N)	790	5	454569 204927
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	792	5	454445 204935

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 366.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A18NE (N)	797	5	454597 204929
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 79.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	854	5	454252 204970
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A18NW (N)	854	5	454252 204970
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 256.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A18NW (N)	855	5	454252 204971
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 2	A12NW (W)	863	5	453623 204389
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	863	5	453623 204389
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 198.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A12NW (W)	872	5	453614 204393
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 332.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A18NW (N)	883	5	454173 204976
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A17SW (NW)	886	5	453708 204610

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 112.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	888	5	455269 203635
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 304.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9NE (SE)	895	5	455251 203596
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 116.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Boundary Brook Catchment Name: Thames Primacy: 1	A17SW (NW)	930	5	453645 204593
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 14.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	987	5	455131 203316
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	989	5	455146 203326
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 849.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	989	5	455146 203326
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	993	5	455125 203303
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 492.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Thames Primacy: 1	A9SW (SE)	994	5	455122 203299



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Licensed Waste Management Facilities (Locations) Licence Number: 86114 Location: Marsh Depot, Marsh Road, Cowley, Oxford, Oxfordshire, OX4 2HH Operator Name: Oxford Direct Services Limited Operator Location: Not Supplied Authority: Environment Agency - South East Region, West Thames Area Site Category: Transfer Stations Taking Non-biodegradable Wastes Licence Status: Transferred Issued: 8th August 1994 Last Modified: 3rd December 2009 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A18NW (N)	708	2	454200 204800
	Local Authority Landfill Coverage Name: Oxfordshire County Council - Has supplied landfill data		0	7	454476 204103
	Local Authority Landfill Coverage Name: Oxford City Council - Has no landfill data to supply		0	6	454476 204103
73	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A19SW (NE)	658	-	454888 204647
74	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1976	A19SW (NE)	670	-	454864 204681
75	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	A19NW (NE)	895	-	455077 204800
76	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	A14SE (E)	950	-	455462 204043
77	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1975	A14NE (E)	993	-	455476 204351
78	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1914	A13NW (N)	271	-	454414 204409
79	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1914	A18SW (NW)	607	-	454216 204697
80	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A18NE (N)	689	-	454691 204794
81	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1922	A12NW (NW)	705	-	453792 204389



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
82	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Oxford City Council Licence Reference: OCC/150 Site Location: Cowley Marsh Depot, Marsh Road, OXFORD, Oxfordshire, OX4 2HH Operator Location: Town Hall, St Aldate'S, Oxford, Oxfordshire, Ox1 1bx Authority: Environment Agency - Thames Region, West Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Licence Status: Operational as far as is knownOperational Dated: 8th August 1994 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence Oxon Cat.A Inert 'Non-Decomp.' Prohibited Waste: Waste N.O.S.</p>	A18NW (N)	708	2	454200 204800
83	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Groom & Hornsby Ltd Licence Reference: OCC/111/M01 Site Location: 496 Cowley Road, OXFORD, Oxfordshire, OX4 2DP Operator Location: As Site Address Authority: Environment Agency - Thames Region, West Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st December 1992 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Max.Waste Storage By Licence Waste Solvents</p>	A17NE (NW)	900	2	453840 204790



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Corallian Group	A13NW (S)	0	1	454476 204103
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NW (S)	0	1	454476 204103
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	617	1	453920 204442
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 90 - 120 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	752	1	454000 204734
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SE (NW)	775	1	453933 204706
84	BGS Recorded Mineral Sites Site Name: Pavilion Sports Ground Location: Temple Cowley, Witney, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 56780 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Wheatley Limestone Member Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	653	1	454883 204645
85	BGS Recorded Mineral Sites Site Name: Infirmary Location: Crowley, Oxford, Oxfordshire Source: British Geological Survey, National Geoscience Information Service Reference: 57728 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Jurassic Geology: Beckley Sand Member Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A15SW (E)	983	1	455493 204012

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	454476 204103
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	454476 204103
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	454476 204103
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	454476 204103
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	454476 204103
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	188	1	454277 204205
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (S)	0	1	454476 204103
	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	A13NW (S)	0	1	454476 204103
	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	A13NW (S)	0	1	454476 204103



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
86	<p>Contemporary Trade Directory Entries</p> <p>Name: Swan Motor Centre Ltd Location: Between Towns Road, Oxford, OX4 3LX Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	36	-	454499 204162
86	<p>Contemporary Trade Directory Entries</p> <p>Name: Swan Motor Centre Location: Between Towns Road, Oxford, OX4 3LX Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	36	-	454499 204162
86	<p>Contemporary Trade Directory Entries</p> <p>Name: Murco Petroleum Ltd Location: Between Towns Road, Oxford, OX4 3LZ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13NE (NE)	46	-	454505 204170
87	<p>Contemporary Trade Directory Entries</p> <p>Name: The Test Centre Location: Between Towns Rd, Oxford, Oxfordshire, OX4 3LZ Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A13NW (NW)	49	-	454412 204153
88	<p>Contemporary Trade Directory Entries</p> <p>Name: D F C Cars Location: Between Towns Road, Oxford, OX4 3LZ Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (W)	74	-	454364 204107
88	<p>Contemporary Trade Directory Entries</p> <p>Name: Centre Services Location: Between Towns Road, Oxford, OX4 3LZ Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (W)	74	-	454364 204107
89	<p>Contemporary Trade Directory Entries</p> <p>Name: Bruno Car Repairs Location: 1 Between Towns Rd, Oxford, Oxfordshire, OX4 3LX Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13NE (N)	90	-	454505 204224
90	<p>Contemporary Trade Directory Entries</p> <p>Name: Quality Assurance Cleaning Services Location: Gerard Pl, Oxford, OX4 3HD Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A13NW (NW)	135	-	454336 204196
91	<p>Contemporary Trade Directory Entries</p> <p>Name: R G Appliances Location: Flat 4, Templar House, Temple Road, Cowley, Oxford, OX4 2HR Classification: Washing Machines - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (N)	152	-	454481 204295
92	<p>Contemporary Trade Directory Entries</p> <p>Name: Spotless Cleaning Solutions Location: 25, Bailey Road, Oxford, Oxfordshire, OX4 3HU Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	155	-	454552 203922
93	<p>Contemporary Trade Directory Entries</p> <p>Name: H & D Cleaners Location: 5, St. Lukes Road, Oxford, OX4 3JD Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NE (E)	158	-	454671 204119
94	<p>Contemporary Trade Directory Entries</p> <p>Name: Sherlocks Dry Cleaners Location: 189, Barns Road, Oxford, OX4 3UT Classification: Dry Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	169	-	454318 203984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
95	Contemporary Trade Directory Entries Name: Turan Audio Ltd Location: 168, Oxford Road, Cowley, Oxford, OX4 2LA Classification: Copying & Duplicating Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	173	-	454334 204256
96	Contemporary Trade Directory Entries Name: Cell Phone Repair Location: 35, Upper Barr, Oxford, OX4 3UX Classification: Electrical goods - servicing & repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	244	-	454267 203930
96	Contemporary Trade Directory Entries Name: Bargains Galore Location: 35, Upper Barr, Oxford, OX4 3UX Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	244	-	454267 203930
96	Contemporary Trade Directory Entries Name: Hearn's Pet Supplies Location: 35a, Upper Barr, Oxford, OX4 3UX Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	244	-	454267 203930
97	Contemporary Trade Directory Entries Name: Potters Tanks & Cesspool Cleaning Services Location: 19, Templars Square, Cowley, Oxford, OX4 3UZ Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (W)	262	-	454199 203997
98	Contemporary Trade Directory Entries Name: Royal Mail Group Plc Vehicle Services Workshop Location: Road Transport Workshop, 7000, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2ZY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	267	-	454715 204280
99	Contemporary Trade Directory Entries Name: Gerald King Fixmix Location: 35, Phipps Road, Oxford, OX4 3HJ Classification: Garage Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (SE)	270	-	454724 203934
100	Contemporary Trade Directory Entries Name: Brighthouse Location: 16-17, Templars Square, Cowley, Oxford, OX4 3UZ Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	272	-	454202 203969
100	Contemporary Trade Directory Entries Name: The Fragrance Shop Location: 13, Templars Square, Cowley, Oxford, Oxfordshire, OX4 3UZ Classification: Perfume Suppliers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	279	-	454208 203946
101	Contemporary Trade Directory Entries Name: Shell Cowley Location: 44-48, Garsington Road, Cowley, Oxford, OX4 2LG Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (E)	278	-	454788 204059
101	Contemporary Trade Directory Entries Name: Shell Service Station Location: 44-48, Garsington Road, Cowley, Oxford, OX4 2LG Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (E)	278	-	454788 204059



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
101	<p>Contemporary Trade Directory Entries</p> <p>Name: Total Location: 44-48, Garsington Road, Oxford, OX4 2LG Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (E)	278	-	454788 204059
101	<p>Contemporary Trade Directory Entries</p> <p>Name: Powwow Water Location: 4050 Chancellor Ct, Garsington Rd, Oxford Business Pk, Oxford, OX4 2JY Classification: Water Coolers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14SW (E)	327	-	454836 204050
102	<p>Contemporary Trade Directory Entries</p> <p>Name: Blazes Fireplace Centre Location: 142-144 Oxford Rd, Cowley, Oxford, Oxfordshire, OX4 2DZ Classification: Fireplaces & Mantelpieces Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A13NW (NW)	296	-	454253 204350
102	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Mini Moto Centre Location: 138, Oxford Road, Cowley, Oxford, Oxfordshire, OX4 2DU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13NW (NW)	337	-	454220 204374
103	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Soap Company Location: 69, Lizmans Court, Silkdale Close, Oxford, OX4 2HG Classification: Cosmetic Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13NE (NE)	317	-	454633 204412
104	<p>Contemporary Trade Directory Entries</p> <p>Name: T I Automotive Ltd Location: 4650, Kingsgate, Cascade Way, Oxford Business Park South, Oxford, OX4 2SU Classification: Car Accessories Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SW (E)	329	-	454822 203989
105	<p>Contemporary Trade Directory Entries</p> <p>Name: D C A Distribution Ltd Location: 4610, Kingsgate, Cascade Way, Oxford Business Park South, Oxford, OX4 2SU Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A13SE (SE)	335	-	454774 203891
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Relax Cleaning Location: 7200, The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Prestige Cleaning Services Location: 7200, The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: I C Filling Systems Location: 7200 The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, Oxfordshire, OX4 2JZ Classification: Engineering Services Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Fast Carpet Cleaners Location: 7200, The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	344	-	454822 204257



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Buy My Car Now Location: Alec Issigonis Way, Oxford Business Park North, Oxford, Oxfordshire, OX4 2JZ Classification: Car Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Fast Cash 4 Scrap Cars Oxford Aeg Location: 7400 The Quorum, Oxford, Oxfordshire, OX4 2JZ Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Scrap Cars Vans Caravans Buyer Location: 7200 The Quorum, Oxford, Oxfordshire, ox4 2jz Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxysystems Location: Alec Issigonis Way, Oxford Business Park North, Oxford, Oxfordshire, OX4 2JZ Classification: Hospitals Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Thames Valley Lock & Safe Location: The Quorum, Alec Issigonis Way, Oxford, OX4 2JZ Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: I C Filling Systems Location: The Quorum, Alec Issigonis Way, Oxford, OX4 2JZ Classification: Packaging Materials Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	344	-	454822 204257
106	<p>Contemporary Trade Directory Entries</p> <p>Name: Waldner Ltd Location: 7400, The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Classification: Laboratory Equipment, Instruments & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NW (NE)	371	-	454846 204270
107	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxysystems Location: Alec Issigonis Way, Oxford Business Park North, Oxford, Oxfordshire, OX4 2JZ Classification: Hospitals Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A14NW (E)	345	-	454848 204190
108	<p>Contemporary Trade Directory Entries</p> <p>Name: Comet Location: Unit 3, The John Allen Centre, Between Towns Rd, Oxford, Oxfordshire, OX4 3JP Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Manually positioned to the address or location</p>	A12NE (W)	348	-	454100 204189
108	<p>Contemporary Trade Directory Entries</p> <p>Name: Comet Group Plc Location: Unit 3, The John Allen Centre, Between Towns Road, Oxford, OX4 3JP Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NE (W)	348	-	454100 204189
109	<p>Contemporary Trade Directory Entries</p> <p>Name: Edge Tyres Location: 12, Hampden Road, Oxford, OX4 3LW Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A13SW (SW)	374	-	454147 203868

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
110	Contemporary Trade Directory Entries Name: Family Cleaning Services Location: 32, Dodgson Road, Oxford, OX4 3QS Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	378	-	454450 203687
110	Contemporary Trade Directory Entries Name: C M D Location: 13, Cholsey Close, Oxford, OX4 3QP Classification: Ceramic Manufacturers, Supplies & Services Status: Active Positional Accuracy: Automatically positioned to the address	A8NW (S)	414	-	454453 203651
111	Contemporary Trade Directory Entries Name: J & J Cleaning Location: Temple Court, 107, Oxford Road, Cowley, Oxford, Oxfordshire, OX4 2ER Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A18SW (NW)	378	-	454255 204458
112	Contemporary Trade Directory Entries Name: Zinc Ahead Location: 4240 Nash Court, John Smith Drive, Oxford Business Park South, Oxford, OX4 2RU Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	387	-	454714 203750
113	Contemporary Trade Directory Entries Name: C & C Cleaning Services Location: 56, Hollow Way, Cowley, Oxford, OX4 2NH Classification: Commercial Cleaning Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	439	-	454767 204464
113	Contemporary Trade Directory Entries Name: Oxford Instant Printing Service Location: 68, Hollow Way, Cowley, Oxford, OX4 2NH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	463	-	454773 204489
113	Contemporary Trade Directory Entries Name: Dalcelular Comms Ltd Location: 68, Hollow Way, Cowley, Oxford, OX4 2NH Classification: Telecommunications Equipment & Systems Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SE (NE)	463	-	454773 204489
114	Contemporary Trade Directory Entries Name: Powwow Ltd Location: 4050, John Smith Drive, Oxford Business Park South, Oxford, OX4 2GX Classification: Water Coolers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	453	-	454669 203649
115	Contemporary Trade Directory Entries Name: Reprogenetics Uk Ltd Location: 8000, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2HW Classification: Laboratories Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	454	-	454955 204211
116	Contemporary Trade Directory Entries Name: B P Service Station Location: 66, Oxford Road, Cowley, Oxford, OX4 2DT Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (NW)	465	-	454139 204474
117	Contemporary Trade Directory Entries Name: Hubdean Ltd Location: 7, Lewin Close, Oxford, OX4 3JL Classification: Coating Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (SW)	477	-	454017 203880

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
118	Contemporary Trade Directory Entries Name: Oxford Stained Glass Location: 9, Trevor Place, Oxford, OX4 3LE Classification: Stained Glass Designers & Producers Status: Active Positional Accuracy: Automatically positioned to the address	A12NE (W)	499	-	453971 204283
119	Contemporary Trade Directory Entries Name: Grafton Merchants (Gb) Ltd Location: 5520, John Smith Drive, Oxford Business Park South, Oxford, OX4 2LL Classification: Builders' Merchants Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	506	-	454810 203675
120	Contemporary Trade Directory Entries Name: Pv Saves Ltd Location: 42, Church Cowley Road, Oxford, OX4 3JT Classification: Pharmaceutical Manufacturers & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	506	-	453945 203993
121	Contemporary Trade Directory Entries Name: Warneford Hospital Location: 4000, John Smith Drive, Oxford Business Park South, Oxford, OX4 2GX Classification: Laboratories Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NE (SE)	508	-	454716 203610
122	Contemporary Trade Directory Entries Name: Garden Help Location: 89a, Wilkins Road, Oxford, OX4 2JB Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	508	-	454953 204360
122	Contemporary Trade Directory Entries Name: Smith & Osman Services Location: 85, Wilkins Road, Oxford, OX4 2JB Classification: Vacuum Cleaners - Sales & Service Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	522	-	454960 204374
122	Contemporary Trade Directory Entries Name: Universal Energy Location: 77, Wilkins Road, Oxford, Oxfordshire, OX4 2JB Classification: Gas Companies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	548	-	454974 204401
123	Contemporary Trade Directory Entries Name: Centrica British Gas Location: 1200-1600, Parkway Court, John Smith Drive, Oxford Business Park South, Oxford, OX4 2JY Classification: Electricity Companies Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SW (SE)	508	-	454961 203862
124	Contemporary Trade Directory Entries Name: R G Domestic Location: 34, Beauchamp Place, Oxford, OX4 3NE Classification: Washing Machines - Servicing & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A12SE (W)	539	-	453945 203887
125	Contemporary Trade Directory Entries Name: Oprima Ltd Location: Fernhill Rd, Oxford, OX4 2JR Classification: Fibre Optics Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NW (E)	542	-	455029 204274
126	Contemporary Trade Directory Entries Name: M R H Service Station Location: 44-56 Oxford Road, Cowley, Oxford, Oxfordshire, OX4 2DT Classification: Petrol Filling Stations Status: Active Positional Accuracy: Automatically positioned to the address	A17SE (NW)	547	-	454071 204522



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	<p>Contemporary Trade Directory Entries</p> <p>Name: M R H Retailer Location: 54-56, Oxford Road, Cowley, Oxford, OX4 2DT Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	547	-	454071 204522
126	<p>Contemporary Trade Directory Entries</p> <p>Name: Bp Mrh Retail Location: 54-56, Oxford Road, Cowley, Oxford, OX4 2DT Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	547	-	454071 204522
126	<p>Contemporary Trade Directory Entries</p> <p>Name: T & C Mudek Location: 49, Oxford Road, Cowley, Oxford, OX4 2ER Classification: Airfreight Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	561	-	454094 204563
127	<p>Contemporary Trade Directory Entries</p> <p>Name: Smith & Low Ltd Location: 107-111, Hollow Way, Cowley, Oxford, OX4 2NE Classification: Electrical Goods Sales, Manufacturers & Wholesalers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SE (NE)	563	-	454790 204603
128	<p>Contemporary Trade Directory Entries</p> <p>Name: Crescent Road Garage Location: 127, Crescent Road, Oxford, OX4 2NY Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SE (N)	575	-	454665 204682
129	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxfordshire Van Rescue Location: 46, Littlehay Road, OXFORD, OX4 3EQ Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address</p>	A12NE (NW)	602	-	453925 204422
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Fonfix4u Location: 2, Crescent Road, Oxford, OX4 2PB Classification: Mobile Phone Accessories and Car Kits Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	615	-	454237 204714
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Coffins Ltd Location: Crescent Rd, Oxford, Oxfordshire, OX4 2PB Classification: Coffin Manufacturers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location</p>	A18SW (N)	630	-	454280 204745
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Parchment'S Print Of Oxford Location: 1a, Crescent Road, Oxford, OX4 2PB Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	648	-	454243 204752
130	<p>Contemporary Trade Directory Entries</p> <p>Name: Colourful Coffins Location: 1a, Crescent Road, Oxford, OX4 2PB Classification: Coffin Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A18SW (N)	648	-	454243 204752
131	<p>Contemporary Trade Directory Entries</p> <p>Name: Oakmead Construction Services Location: 37a, Oxford Road, Cowley, Oxford, OX4 2EN Classification: Drilling & Boring Equipment & Supplies Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	621	-	454102 204647
131	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxfordshire Rubbish Removals Location: Flat 32, Agnes Court, Oxford Road, Cowley, Oxford, OX4 2EW Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	627	-	454111 204661



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
132	<p>Contemporary Trade Directory Entries</p> <p>Name: Powwow Water Location: 4050, Chancellors Court, Oxford Business Pk South, Oxford, OX4 2JY Classification: Water Coolers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14SW (SE)	623	-	455068 203820
133	<p>Contemporary Trade Directory Entries</p> <p>Name: Chips Away Location: 126, Fern Hill Road, Oxford, OX4 2JP Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	648	-	455155 204201
133	<p>Contemporary Trade Directory Entries</p> <p>Name: Trip Industry Location: 95, Fern Hill Road, Oxford, OX4 2JW Classification: Cemeteries & Crematoria Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	678	-	455180 204228
134	<p>Contemporary Trade Directory Entries</p> <p>Name: B C D Oxford Location: 24, Van Diemens Lane, Oxford, OX4 3QD Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	682	-	454282 203413
135	<p>Contemporary Trade Directory Entries</p> <p>Name: City Works Location: Marsh Road, Oxford, Oxfordshire, OX4 2HH Classification: Waste Disposal Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A18SW (NW)	694	-	454151 204762
136	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford M O T & Service Centre Location: 8, Marsh Road, Oxford, OX4 2HH Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	696	-	454024 204682
136	<p>Contemporary Trade Directory Entries</p> <p>Name: Marsh Road Motors Location: 8, Marsh Road, Oxford, OX4 2HH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	696	-	454024 204682
136	<p>Contemporary Trade Directory Entries</p> <p>Name: Tyreryte Service Centre Ltd Location: 8, Marsh Road, Oxford, OX4 2HH Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	697	-	454024 204682
136	<p>Contemporary Trade Directory Entries</p> <p>Name: Car Doctor Location: 8, Marsh Road, Oxford, Oxfordshire, OX4 2HH Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A17SE (NW)	697	-	454024 204682
137	<p>Contemporary Trade Directory Entries</p> <p>Name: Whites Cars Location: 138, Hollow Way, Cowley, Oxford, OX4 2NL Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	702	-	454874 204714
137	<p>Contemporary Trade Directory Entries</p> <p>Name: Whites Cars Location: 138, Hollow Way, Cowley, Oxford, OX4 2NL Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	702	-	454874 204714
137	<p>Contemporary Trade Directory Entries</p> <p>Name: Dunn Car Sales Ltd Location: 138, Hollow Way, Cowley, Oxford, OX4 2NL Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A19SW (NE)	702	-	454874 204714



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	<p>Contemporary Trade Directory Entries</p> <p>Name: Executive Alarms Ltd Location: 26, Kelburne Road, Oxford, OX4 3SJ Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	705	-	453932 203613
138	<p>Contemporary Trade Directory Entries</p> <p>Name: Executive Fire Protection Ltd Location: 26, Kelburne Road, Oxford, Oxfordshire, OX4 3SJ Classification: Firefighting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	705	-	453932 203613
138	<p>Contemporary Trade Directory Entries</p> <p>Name: City Motors Cowley Location: Unit 1 Kelburne Road, Oxford, Oxfordshire, OX4 3SJ Classification: Garage Services Status: Active Positional Accuracy: Manually positioned to the road within the address or location</p>	A7NE (SW)	742	-	453888 203606
139	<p>Contemporary Trade Directory Entries</p> <p>Name: Weldtite Engineering Automotive Lyd Location: Cowley, Oxford, OX4 6NL Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14SE (E)	720	-	455220 203962
139	<p>Contemporary Trade Directory Entries</p> <p>Name: G P M Engineering Location: Cowley, Oxford, OX4 6NL Classification: Mechanical Engineers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A14SE (E)	723	-	455223 203964
140	<p>Contemporary Trade Directory Entries</p> <p>Name: Executive Transport Location: 86, Westbury Crescent, Oxford, OX4 3SA Classification: Car Engine Tuning & Diagnostic Services Status: Active Positional Accuracy: Automatically positioned to the address</p>	A7NE (SW)	730	-	453848 203674
141	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Audi Location: Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2HW Classification: Car Customisation & Conversion Specialists Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	748	-	455260 204048
141	<p>Contemporary Trade Directory Entries</p> <p>Name: Marshall Oxford Audi Location: Alec Issigonis Way, Oxford Business Park North, Oxford, Oxfordshire, OX4 2HW Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14SE (E)	748	-	455260 204048
142	<p>Contemporary Trade Directory Entries</p> <p>Name: Carpet Brite Location: 28, Bodley Road, Littlemore, Oxford, OX4 3UA Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SW (S)	776	-	454240 203327
143	<p>Contemporary Trade Directory Entries</p> <p>Name: Blue Flame Location: 55, Lytton Road, Oxford, OX4 3PA Classification: Boilers - Servicing, Replacements & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A12NW (W)	790	-	453653 204187
144	<p>Contemporary Trade Directory Entries</p> <p>Name: Tesco Filling Station Location: 7 Oxford Retail Park, Cowley, Oxford, Oxfordshire, OX4 6XJ Classification: Petrol Filling Stations Status: Active Positional Accuracy: Manually positioned to the address or location</p>	A9NW (SE)	825	-	455149 203571



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Mynheer Automotive Location: 17, Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Classification: Car Customizing Specialists Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	830	-	455195 203628
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Rescue Location: 17, Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	830	-	455195 203628
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Rescue Location: 17, Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Classification: Car Breakdown & Recovery Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	830	-	455195 203628
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Multi-Fix Direct Location: 1, Chiltern Business Centre, Garsington Road, Oxford, Oxfordshire, OX4 6NG Classification: Hardware Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	830	-	455235 203693
145	<p>Contemporary Trade Directory Entries</p> <p>Name: V W Golf Breakers (Oxford) Location: 18, Chiltern Business Centre, Garsington Road, Oxford, Oxfordshire, OX4 6NG Classification: Car Accessories Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	835	-	455199 203627
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Cycle Factors Location: 13, Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Classification: Cycle Manufacturers & Wholesalers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	837	-	455220 203654
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Increase Decrease Location: 8, Chiltern Business Centre, Garsington Road, Oxford, Oxfordshire, OX4 6NG Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	837	-	455221 203657
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Oxford Giclee & Photographic Centre Location: 2, Chiltern Business Centre, Garsington Road, Oxford, Oxfordshire, OX4 6NG Classification: Photo & Digital Imaging Bureaus Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	838	-	455242 203689
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Maxprint Location: 19, Chiltern Business Centre, Garsington Road, Oxford, Oxfordshire, OX4 6NG Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	840	-	455203 203625
145	<p>Contemporary Trade Directory Entries</p> <p>Name: B H W Refrigeration & Air Conditioning Ltd Location: 7, Chiltern Business Centre, Garsington Road, OXFORD, OX4 6NG Classification: Air Conditioning & Refrigeration Contractors Status: Active Positional Accuracy: Automatically positioned to the address</p>	A9NE (SE)	847	-	455231 203653
145	<p>Contemporary Trade Directory Entries</p> <p>Name: Eat Well Location: Unit 9 Chiltern Business Centre, Garsington Rd, Oxford, Oxfordshire, OX4 6NG Classification: Frozen Food Processors & Distributors Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A9NE (SE)	848	-	455230 203650

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	Contemporary Trade Directory Entries Name: Fast Cash For Cars Location: 24, Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Classification: Car Breakers & Dismantlers Status: Active Positional Accuracy: Automatically positioned to the address	A9NE (SE)	877	-	455238 203609
145	Contemporary Trade Directory Entries Name: W B Location: 25, Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	886	-	455247 203605
146	Contemporary Trade Directory Entries Name: Unipart Location: Unipart House, Garsington Road, Cowley, Oxford, OX4 2PG Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	854	-	455366 204050
146	Contemporary Trade Directory Entries Name: Truck & Trailer Components Ltd Location: Unipart House, Garsington Road, Cowley, Oxford, OX4 2PG Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	854	-	455366 204050
146	Contemporary Trade Directory Entries Name: Christian Salvesen Location: Unipart House, Garsington Road, Cowley, Oxford, OX4 2PG Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A14SE (E)	854	-	455366 204050
147	Contemporary Trade Directory Entries Name: Mcleans Mirrors Location: 102, Cowley Road, Littlemore, Oxford, OX4 3TJ Classification: Mirrors & Decorative Glass Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	868	-	454031 203325
148	Contemporary Trade Directory Entries Name: Harding & Panton Ltd Location: 186 Hollow Way, Cowley, Oxford, OX4 2PP Classification: Cleaning Services - Commercial Status: Inactive Positional Accuracy: Manually positioned to the address or location	A19NW (NE)	871	-	454953 204864
149	Contemporary Trade Directory Entries Name: Groom & Hornsby Ltd Location: 496, Cowley Road, Oxford, OX4 2DP Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A17NE (NW)	900	-	453836 204786
149	Contemporary Trade Directory Entries Name: Oxford Paint Service Location: 496, Cowley Road, Oxford, OX4 2DP Classification: Car Painters & Sprayers Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	900	-	453836 204786
149	Contemporary Trade Directory Entries Name: Motofix Oxford Location: 496, Cowley Road, Oxford, OX4 2DP Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A17NE (NW)	900	-	453836 204786
150	Contemporary Trade Directory Entries Name: Tesco Petrol Filling Station Location: Unit 8, Oxford Retail Park, Ambassador Avenue, Cowley, Oxford, Oxfordshire, OX4 6XJ Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	923	-	455141 203413

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
151	Contemporary Trade Directory Entries Name: Oxford Gas Maintenance Location: 25, Eastern Avenue, Oxford, OX4 4QS Classification: Boilers - Servicing, Replacements & Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (SW)	937	-	453874 203354
151	Contemporary Trade Directory Entries Name: Atlas Rescue Location: 34, Eastern Avenue, Oxford, OX4 4QS Classification: Breakdown and Recovery Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	944	-	453901 203323
152	Contemporary Trade Directory Entries Name: Cleaning Co Location: 2, Bobby Fryer Close, Cowley, Oxford, OX4 6ZN Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	946	-	455329 203624
152	Contemporary Trade Directory Entries Name: Voila Cleaner'S Location: 2, Bobby Fryer Close, Cowley, Oxford, OX4 6ZN Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A9NE (SE)	946	-	455329 203624
153	Contemporary Trade Directory Entries Name: Brayley'S Of Oxford Location: 72, Rose Hill, Oxford, OX4 4HS Classification: Car Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	965	-	453559 203705
154	Contemporary Trade Directory Entries Name: Laundry Basket Location: 80, Rose Hill, Oxford, OX4 4HS Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	971	-	453596 203619
155	Contemporary Trade Directory Entries Name: Buzy Beez Tyres & Exhausts Location: 131, Rose Hill, Oxford, OX4 4HT Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	972	-	453713 203457
156	Contemporary Trade Directory Entries Name: The Print Shop Location: 86, The Parade, Rose Hill, Oxford, Oxfordshire, OX4 4HX Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NW (SW)	991	-	453623 203541
157	Contemporary Trade Directory Entries Name: C K Electrical Installations Ltd Location: Cowley, Oxford, OX4 6NL Classification: Electronic Engineers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A15NW (E)	992	-	455492 204272
158	Fuel Station Entries Name: Oxford Service Station Location: 71, Between Towns Road Towns Road, Cowley , Oxford, Oxfordshire, OX4 3JP Brand: MURCO Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A13SW (W)	107	-	454331 204100
159	Fuel Station Entries Name: Shell Cowley Location: 44-48, Garsington Road , Cowley , Oxford, Oxfordshire, OX4 2LG Brand: Shell Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A13SE (E)	278	-	454788 204059



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	Fuel Station Entries Name: Mrh Cowley Spar Location: 44-56, Oxford Road Edmund Road, Cowley , Oxford, Oxfordshire, OX4 2DT Brand: Bp Premises Type: Petrol Station Status: Open Positional Accuracy: Automatically positioned to the address	A17SE (NW)	547	-	454071 204522
161	Fuel Station Entries Name: Tesco Oxford 2 Location: Ambassador Avenue , Cowley Oxford Retail Park, Oxford, Oxfordshire, OX4 6XJ Brand: TESCO Premises Type: Hypermarket Status: Open Positional Accuracy: Manually positioned to the address or location	A9NW (SE)	825	-	455148 203571
162	Fuel Station Entries Name: Humphris Oxford Ltd Location: Rose Hill , , Oxford, Oxfordshire, OX4 4HS Brand: Obsolete Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A7NW (SW)	967	-	453559 203700
163	Points of Interest - Commercial Services Name: Test Centre Location: Between Towns Road, Oxford, OX4 3LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	27	8	454482 204165
163	Points of Interest - Commercial Services Name: T & T Motor Services Location: Between Towns Road, Oxford, OX4 3LX Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	35	8	454498 204161
164	Points of Interest - Commercial Services Name: M O T Testing Centre Location: Between Towns Road, Oxford, OX4 3LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	74	8	454364 204107
164	Points of Interest - Commercial Services Name: D F C Cars Location: Between Towns Road, Oxford, OX4 3LZ Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	74	8	454364 204107
164	Points of Interest - Commercial Services Name: Oxford Service Station Location: 71 Between Towns Road, Towns Road, Cowley, Oxford, OX4 3JP Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SW (W)	107	8	454331 204100
164	Points of Interest - Commercial Services Name: Car Wash Location: 71 Between Towns Road, Towns Road, Cowley, Oxford, Oxfordshire, OX4 3JP Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A13SW (W)	107	8	454331 204100
165	Points of Interest - Commercial Services Name: Matt Ltd Location: 207 Barns Road, Oxford, OX4 3UT Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13SW (SW)	178	8	454317 203973
166	Points of Interest - Commercial Services Name: Temple Road Garage Location: 108 Temple Road, Oxford, OX4 2HA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (N)	254	8	454462 204397



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
167	<p>Points of Interest - Commercial Services</p> <p>Name: Royal Mail Group Plc Vehicle Services Workshop Location: Road Transport Workshop 7000, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2ZY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A13NE (NE)	267	8	454715 204280
168	<p>Points of Interest - Commercial Services</p> <p>Name: Shell Cowley Location: 44-48, Garsington Road, Cowley, Oxford, OX4 2LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A13SE (E)	277	8	454787 204059
168	<p>Points of Interest - Commercial Services</p> <p>Name: Shell Car Wash Location: 48 Garsington Road, Oxford, OX4 2LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A13SE (E)	278	8	454788 204059
168	<p>Points of Interest - Commercial Services</p> <p>Name: Car Wash Location: 44-48 Garsington Road, Cowley, Oxford, OX4 2LG Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A13SE (E)	278	8	454788 204059
169	<p>Points of Interest - Commercial Services</p> <p>Name: Andy Parker & Son Scrap Metal Location: 22 Dodgson Road, Oxford, OX4 3QS Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location</p>	A8NW (S)	397	8	454419 203672
170	<p>Points of Interest - Commercial Services</p> <p>Name: Kabidhi Ltd Location: 72 Hollow Way, Cowley, Oxford, OX4 2NH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location</p>	A18SE (NE)	474	8	454782 204496
171	<p>Points of Interest - Commercial Services</p> <p>Name: Mrh Cowley Spar Location: 54-56, Oxford Road, Cowley, Oxford, OX4 2DT Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A17SE (NW)	547	8	454071 204522
171	<p>Points of Interest - Commercial Services</p> <p>Name: B P Car Wash Location: 44-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A17SE (NW)	547	8	454071 204522
171	<p>Points of Interest - Commercial Services</p> <p>Name: Car Wash Location: 54-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location</p>	A17SE (NW)	547	8	454071 204522
172	<p>Points of Interest - Commercial Services</p> <p>Name: Crescent Road Garage Location: 127 Crescent Road, Oxford, OX4 2NY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A18SE (N)	575	8	454665 204682
172	<p>Points of Interest - Commercial Services</p> <p>Name: Crescent Road Garage Location: 127 Crescent Road, Oxford, OX4 2NY Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A18SE (N)	575	8	454665 204682
173	<p>Points of Interest - Commercial Services</p> <p>Name: Chipsaway Location: 126 Fern Hill Road, Oxford, OX4 2JP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location</p>	A14NE (E)	648	8	455155 204201



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	Points of Interest - Commercial Services Name: B C D Oxford Location: 24 Van Diemens Lane, Oxford, OX4 3QD Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SW (S)	682	8	454281 203413
175	Points of Interest - Commercial Services Name: Oxford M O T & Service Centre Location: 8 Marsh Road, Oxford, OX4 2HH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	696	8	454024 204682
175	Points of Interest - Commercial Services Name: Marsh Road Motors Location: 8 Marsh Road, Oxford, OX4 2HH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	696	8	454024 204682
175	Points of Interest - Commercial Services Name: Tyretyte Service Centre Ltd Location: 8 Marsh Road, Oxford, OX4 2HH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	697	8	454024 204682
175	Points of Interest - Commercial Services Name: Tyretyte Service Centre Location: 8 Marsh Road, Oxford, OX4 2HH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	697	8	454024 204682
175	Points of Interest - Commercial Services Name: Service Centre Location: 8 Marsh Road, Oxford, OX4 2HH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17SE (NW)	697	8	454024 204682
176	Points of Interest - Commercial Services Name: Tesco Oxford 2 Location: Ambassador Avenue, Cowley, Oxford Retail Park, Oxford, OX4 6XJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9NW (SE)	825	8	455148 203571
176	Points of Interest - Commercial Services Name: Car Wash Location: Ambassador Avenue, Cowley, Oxford Retail Park, Oxford, Oxfordshire, OX4 6XJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9NW (SE)	825	8	455148 203571
177	Points of Interest - Commercial Services Name: Unipart Location: Unipart House, Garsington Road, Cowley, Oxford, OX4 2PG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	854	8	455366 204050
177	Points of Interest - Commercial Services Name: Truck & Trailer Components Ltd Location: Unipart House, Garsington Road, Cowley, Oxford, OX4 2PG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14SE (E)	854	8	455366 204050
177	Points of Interest - Commercial Services Name: Christian Salvesen Location: Unipart House, Garsington Road, Cowley, Oxford, OX4 2PG Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A14SE (E)	854	8	455366 204050
178	Points of Interest - Commercial Services Name: Mobile Windscreens Location: Chiltern Business Centre, Garsington Rd, Oxford, OX4 6NG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	859	8	455241 203647

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
178	Points of Interest - Commercial Services Name: Fast Cash for Cars Location: 24 Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Category: Recycling Services Class Code: Scrap Metal Merchants Positional Accuracy: Positioned to address or location	A9NE (SE)	877	8	455238 203609
178	Points of Interest - Commercial Services Name: W B Auto Servicing & Repairs Location: 25 Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	886	8	455247 203605
178	Points of Interest - Commercial Services Name: W B Autoservicing & Repairs Location: 25 Chiltern Business Centre, Garsington Road, Oxford, OX4 6NG Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	887	8	455247 203605
178	Points of Interest - Commercial Services Name: National Windscreens Location: Unit 4 Fenchurch Court, Bobby Fryer Close, Cowley, Oxford, OX4 6ZN Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A9NE (SE)	946	8	455329 203624
179	Points of Interest - Commercial Services Name: Groom & Hornsby Location: 496 Cowley Road, Oxford, OX4 2DP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	900	8	453836 204786
179	Points of Interest - Commercial Services Name: Groom & Hornsby Location: 496 Cowley Road, Oxford, OX4 2DP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	900	8	453836 204786
179	Points of Interest - Commercial Services Name: Motofix Oxford Location: 496a Cowley Road, Oxford, OX4 2DP Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	900	8	453835 204786
180	Points of Interest - Commercial Services Name: IMO - arc Clean Car Centres Location: Unit 7 Oxford Retail Park, Ambassador Avenue, Cowley, Oxford, OX4 6XJ Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A9SW (SE)	916	8	455143 203424
181	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	122	8	454383 203991
181	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	122	8	454383 203991
182	Points of Interest - Manufacturing and Production Name: Tank Location: OX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	186	8	454443 204328
182	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	222	8	454497 204363

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
182	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13NE (N)	222	8	454497 204363
183	Points of Interest - Manufacturing and Production Name: Tank Location: OX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A13NW (N)	275	8	454384 204406
184	Points of Interest - Manufacturing and Production Name: Regus Location: 7200 The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14NW (NE)	344	8	454822 204257
184	Points of Interest - Manufacturing and Production Name: Oxford Employment Law Solicitors Location: 7200 The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14NW (NE)	344	8	454822 204257
184	Points of Interest - Manufacturing and Production Name: Regus Location: 7200 The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14NW (NE)	344	8	454822 204257
184	Points of Interest - Manufacturing and Production Name: Regus - Oxford Division Location: 7200 The Quorum, Alec Issigonis Way, Oxford Business Park North, Oxford, OX4 2JZ Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14NW (NE)	344	8	454822 204257
185	Points of Interest - Manufacturing and Production Name: Tank Location: OX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	389	8	454455 204532
186	Points of Interest - Manufacturing and Production Name: Business Park Location: OX4 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	413	8	454834 203841
187	Points of Interest - Manufacturing and Production Name: Oxford Business Park North Location: OX4 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	449	8	454944 204234
188	Points of Interest - Manufacturing and Production Name: Pure Offices Location: 1200-1600 Parkway Court, John Smith Drive, Oxford Business Park South, Oxford, OX4 2JY Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to address or location	A14SW (SE)	508	8	454961 203862
189	Points of Interest - Manufacturing and Production Name: Oxford Business Park South Location: OX4 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A14SW (SE)	628	8	455067 203807

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
190	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	645	8	454244 204749
190	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	645	8	454244 204749
190	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	687	8	454304 204811
190	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	687	8	454304 204811
191	Points of Interest - Manufacturing and Production Name: Chiltern Business Centre Location: OX4 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A9NE (SE)	829	8	455223 203675
192	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	886	8	453810 204740
192	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A17SE (NW)	889	8	453806 204739
193	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	917	8	455375 203789
193	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	917	8	455375 203789
194	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	933	8	455447 204125
194	Points of Interest - Manufacturing and Production Name: Works Location: OX4 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NE (E)	933	8	455447 204125
195	Points of Interest - Manufacturing and Production Name: Tanks Location: OX4 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	955	8	455451 203921



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	Points of Interest - Public Infrastructure Name: Oxford Murco Service Station Location: Between Towns Road, Oxford, OX4 3LZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (N)	27	8	454482 204165
196	Points of Interest - Public Infrastructure Name: Murco Petroleum Ltd Location: Between Towns Road, Oxford, OX4 3LZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13NE (NE)	46	8	454505 204170
197	Points of Interest - Public Infrastructure Name: Murco Petroleum Location: Between Towns Road, Oxford, OX4 3LZ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (W)	107	8	454331 204100
197	Points of Interest - Public Infrastructure Name: Oxford Service Station Location: 71 Between Towns Road, Towns Road, Cowley, Oxford, OX4 3JP Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SW (W)	107	8	454331 204100
198	Points of Interest - Public Infrastructure Name: Cowley Police Station Location: Cowley Police Station, Oxford Road, Cowley, Oxford, OX4 Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	147	8	454383 204265
198	Points of Interest - Public Infrastructure Name: Thames Valley Police Location: Cowley Police Station, Oxford Road, Cowley, Oxford, OX4 2LE Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	147	8	454384 204265
198	Points of Interest - Public Infrastructure Name: Cowley Police Station Location: Cowley Police Station, Oxford Road, Cowley, Oxford, OX4 2LE Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A13NW (NW)	147	8	454384 204265
199	Points of Interest - Public Infrastructure Name: Shell Cowley Location: 44-48 Garsington Road, Cowley, Oxford, OX4 2LG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (E)	277	8	454787 204059
199	Points of Interest - Public Infrastructure Name: Total Convenience Stores Ltd Location: 44-48 Garsington Road, Cowley, Oxford, OX4 2LG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (E)	278	8	454788 204059
199	Points of Interest - Public Infrastructure Name: Total UK Ltd Location: 44-48 Garsington Road, Cowley, Oxford, OX4 2LG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (E)	278	8	454788 204059
199	Points of Interest - Public Infrastructure Name: Shell Service Station Location: 44-48 Garsington Road, Cowley, Oxford, OX4 2LG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (E)	278	8	454788 204059
199	Points of Interest - Public Infrastructure Name: Tcs Cowley Location: 44-48 Garsington Road, Oxford, OX4 2LG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (E)	278	8	454788 204059



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
199	Points of Interest - Public Infrastructure Name: TCS Cowley Location: 44-48 Garsington Road, Cowley, Oxford, OX4 2LG Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A13SE (E)	278	8	454788 204059
200	Points of Interest - Public Infrastructure Name: BP Service Station Location: 66 Oxford Road, Cowley, Oxford, OX4 2DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A18SW (NW)	465	8	454139 204474
200	Points of Interest - Public Infrastructure Name: BP Location: 44-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	547	8	454071 204522
200	Points of Interest - Public Infrastructure Name: M R H Retailer Location: 54-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	547	8	454071 204522
200	Points of Interest - Public Infrastructure Name: M R H Service Station Location: 44-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	547	8	454071 204522
200	Points of Interest - Public Infrastructure Name: Pace Spar Cowley Location: 54-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	547	8	454071 204522
200	Points of Interest - Public Infrastructure Name: MRH Cowley Spar Location: 54-56 Oxford Road, Cowley, Oxford, OX4 2DT Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	547	8	454071 204522
201	Points of Interest - Public Infrastructure Name: Oxfordshire Rubbish Removals Location: Flat 32 Agnes Court, Oxford Road, Cowley, Oxford, OX4 2EW Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A17SE (NW)	627	8	454111 204661
202	Points of Interest - Public Infrastructure Name: City Works Location: Marsh Road, Oxford, OX4 2HH Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to address or location	A18SW (NW)	694	8	454151 204762
203	Points of Interest - Public Infrastructure Name: Rose Hill Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	713	8	453747 203928
203	Points of Interest - Public Infrastructure Name: Rose Hill Cemetery Location: OX4 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	713	8	453747 203928
204	Points of Interest - Public Infrastructure Name: Pase Petroleum (GB) Ltd Location: Oxford Road, Cowley, Oxford, OX4 2EN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	714	8	453995 204681



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
204	Points of Interest - Public Infrastructure Name: Q8 Petroleum GB Ltd Location: Oxford Road, Cowley, Oxford, OX4 2EN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A17SE (NW)	714	8	453995 204681
205	Points of Interest - Public Infrastructure Name: Rose Hill Cemetery Location: OX4 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A12SW (W)	787	8	453658 204002
206	Points of Interest - Public Infrastructure Name: Tesco Filling Station Location: 7 Oxford Retail Park, Cowley, Oxford, OX4 6XJ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9NW (SE)	825	8	455149 203571
206	Points of Interest - Public Infrastructure Name: Tesco Oxford 2 Location: Ambassador Avenue, Cowley, Oxford Retail Park, Oxford, OX4 6XJ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9NW (SE)	825	8	455148 203571
207	Points of Interest - Public Infrastructure Name: Turnpike Filling Station Location: 43 Horspath Road, Oxford, OX4 2QN Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A19SW (NE)	877	8	455103 204754
208	Points of Interest - Public Infrastructure Name: Tesco Petrol Filling Station Location: Unit 8 Oxford Retail Park, Ambassador Avenue, Cowley, Oxford, OX4 6XJ Category: Road And Rail Class Code: Petrol and Fuel Stations Positional Accuracy: Positioned to address or location	A9SW (SE)	923	8	455141 203413
209	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	207	8	454232 204131
209	Points of Interest - Recreational and Environmental Name: Playground Location: Nr Between Towns Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A13NW (W)	207	8	454232 204131
210	Points of Interest - Recreational and Environmental Name: Playground Location: Cholsey Close, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	421	8	454483 203642
210	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	422	8	454483 203641
211	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NW (SW)	488	8	454207 203663
211	Points of Interest - Recreational and Environmental Name: Playground Location: Gaisford Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A8NW (SW)	491	8	454204 203662

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
212	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	525	8	454600 203551
212	Points of Interest - Recreational and Environmental Name: Playground Location: Bartholomew Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8NE (S)	525	8	454600 203551
213	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	689	8	454729 203418
213	Points of Interest - Recreational and Environmental Name: Playground Location: Kersington Crescent, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	689	8	454729 203418
214	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	705	8	454972 204639
214	Points of Interest - Recreational and Environmental Name: Playground Location: Marshall Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SW (NE)	705	8	454972 204639
215	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	707	8	454267 204822
215	Points of Interest - Recreational and Environmental Name: Playground Location: Crescent Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	707	8	454267 204822
216	Points of Interest - Recreational and Environmental Name: Playground Location: Normandy Crescent, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	921	8	455359 204469
216	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	922	8	455360 204469
216	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	933	8	455356 204506
216	Points of Interest - Recreational and Environmental Name: Playground Location: OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A19SE (NE)	933	8	455356 204506



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
217	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A12NW (W)	966	8	453511 204377
217	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Cornwallis Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location</p>	A12NW (W)	983	8	453495 204384
218	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location</p>	A19NE (NE)	988	8	455227 204787
218	<p>Points of Interest - Recreational and Environmental</p> <p>Name: Playground Location: Cranmer Road, OX4 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location</p>	A19NE (NE)	989	8	455229 204787



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
219	Nitrate Vulnerable Zones Name: Thames (Leach To Evenlode) Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NW (S)	0	4	454476 204103
220	Nitrate Vulnerable Zones Name: Northfield Brook (Source To Thames) At Sandford Nvz Description: Surface Water Source: Environment Agency, Head Office	A13SE (E)	136	4	454650 204100

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	January 2015 March 2015 March 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - Thames Region	April 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - Thames Region	March 2013	Annual Rolling Update
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	April 2019 April 2019	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 Oxford City Council - Environmental Health Department	June 2014 June 2014 March 2015	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 Oxford City Council - Environmental Health Department	June 2014 June 2014 March 2015	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 Oxford City Council - Environmental Health Department	June 2014 June 2014 March 2015	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters Environment Agency - Thames Region	September 1999	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - Thames Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - Thames Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - Thames Region	June 2016	
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	April 2019 April 2019 April 2019	Quarterly Quarterly Quarterly
Water Abstractions Environment Agency - Thames Region	July 2019	Quarterly
Water Industry Act Referrals Environment Agency - Thames Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	Annually

Agency & Hydrological	Version	Update Cycle
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	Annually
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	July 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2019	Quarterly
Flood Defences Environment Agency - Head Office	May 2019	Quarterly
OS Water Network Lines Ordnance Survey	April 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	July 2019	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	July 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - South East Region - West Thames Area Environment Agency - Thames Region - West Area	April 2019 April 2019	Quarterly Quarterly
Local Authority Landfill Coverage 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	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites 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	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - 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	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Oxfordshire County Council South Oxfordshire District Council - Planning Department (West) Vale of White Horse District Council Oxford City Council - Planning Business Unit	February 2016 February 2016 February 2016 October 2015	Variable Variable Variable Variable
Planning Hazardous Substance Consents Oxfordshire County Council South Oxfordshire District Council - Planning Department (West) Vale of White Horse District Council Oxford City Council - Planning Business Unit	February 2016 February 2016 February 2016 October 2015	Variable Variable Variable Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2019	Bi-Annually
CBCSB Compensation District Cheshire Brine Subsidence Compensation Board (CBCSB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	July 2019	Quarterly
Points of Interest - Education and Health PointX	July 2019	Quarterly
Points of Interest - Manufacturing and Production PointX	July 2019	Quarterly
Points of Interest - Public Infrastructure PointX	July 2019	Quarterly
Points of Interest - Recreational and Environmental PointX	July 2019	Quarterly
Underground Electrical Cables National Grid	December 2015	

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt Oxford City Council South Oxfordshire District Council Vale of White Horse District Council	March 2019 March 2019 March 2019	As notified As notified As notified
Areas of Unadopted Green Belt Oxford City Council South Oxfordshire District Council Vale of White Horse District Council	March 2019 March 2019 March 2019	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	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	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology <small>NATURAL ENVIRONMENT RESEARCH COUNCIL</small>
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	Oxford City Council - Environmental Health Department Ramsay House, 10 St Ebbes Street, Oxford, Oxfordshire, OX1 1PT	Telephone: 01865 249811 Fax: 01865 252144 Website: www.oxford.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Oxford City Council - Planning Business Unit Ramsay House, 10 St. Ebbes Street, Oxford, Oxfordshire, OX1 1PT	Telephone: 01865 249811 Fax: 01865 252144 Website: www.oxford.gov.uk
7	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
8	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
9	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
10	Oxford City Council Ramsay House, 10 St Ebbes Street, Oxford, Oxfordshire, OX1 1PT	Telephone: 01865 249811 Fax: 01865 252144 Website: www.oxford.gov.uk
11	South Oxfordshire District Council Council Offices, P O Box 92, Crowmarsh, Wallingford, Oxfordshire, OX10 8NY	Telephone: 01491 835351 Fax: 01491 33390 Website: www.southoxon.gov.uk
12	Vale of White Horse District Council PO Box 27, The Abbey House, Abingdon, Oxfordshire, OX14 3JN	Telephone: 01235 520202 Fax: 01235 540396 Website: www.whitehorsedc.gov.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

Historical Mapping Legends

Ordnance Survey County Series 1:10,560

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

Ordnance Survey Plan 1:10,000

- Chalk Pit, Clay Pit or Quarry
- Gravel Pit
- Sand Pit
- Disused Pit or Quarry
- Refuse or Slag Heap
- Lake, Loch or Pond
- Dunes
- Boulders
- Coniferous Trees
- Non-Coniferous Trees
- Orchard
- Scrub
- Coppice
- Bracken
- Heath
- Rough Grassland
- Marsh
- Reeds
- Saltings
- Building
- Glasshouse
- Sloping Masonry
- Pylon
- Electricity Transmission Line
- Pole
- Cutting
- Embankment
- Standard Gauge Multiple Track
- Standard Gauge Single Track
- Siding, Tramway or Mineral Line
- Narrow Gauge
- Geographical County
- Administrative County, County Borough or County of City
- Municipal Borough, Urban or Rural District, Burgh or District Council
- Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
- Civil Parish
Shown alternately when coincidence of boundaries occurs
- BP, BS Boundary Post or Stone
- Ch Church
- CH Club House
- F E Sta Fire Engine Station
- FB Foot Bridge
- Fn Fountain
- GP Guide Post
- MP Mile Post
- MS Mile Stone
- Pol Sta Police Station
- PO Post Office
- PC Public Convenience
- PH Public House
- SB Signal Box
- Spr Spring
- TCB Telephone Call Box
- TCP Telephone Call Post
- W Well

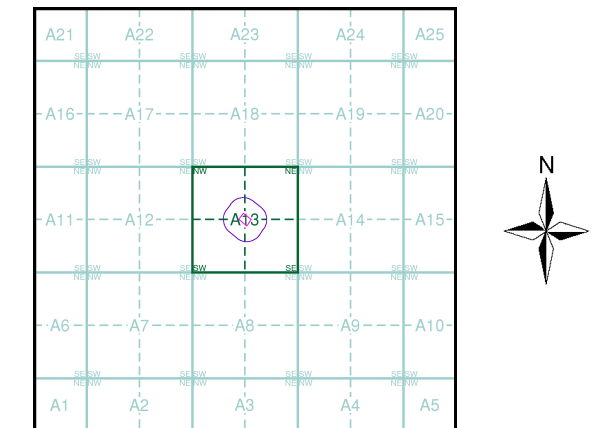
1:10,000 Raster Mapping

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

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Berkshire	1:10,560	1886	3
Oxfordshire	1:10,560	1886	4
Oxfordshire	1:10,560	1900	5
Berkshire	1:10,560	1914	6
Oxfordshire	1:10,560	1922	7
Berkshire	1:10,560	1922	8
Berkshire	1:10,560	1938	9
Oxfordshire	1:10,560	1939	10
Historical Aerial Photography	1:10,560	1947	11
Ordnance Survey Plan	1:10,000	1960 - 1961	12
Ordnance Survey Plan	1:10,000	1965 - 1967	13
Oxford	1:10,000	1973	14
Ordnance Survey Plan	1:10,000	1975 - 1978	15
Ordnance Survey Plan	1:10,000	1994	16
10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2019	19

Historical Map - Slice A



Order Details

Order Number: 214311051_1_1
 Customer Ref: 46381/3500
 National Grid Reference: 454480, 204100
 Slice: A
 Site Area (Ha): 0.32
 Search Buffer (m): 1000

Site Details

Former Conservative Club, Between Towns Road, OXFORD

Russian Military Mapping Legends

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

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Fireproof Building		Prominent Fireproof Building
	Non-fireproof Building		Non-fireproof Building (non-dwelling)
	Factory, mill, and flour mill, with chimneys		Factory, mill, and flour mill, without chimneys
	Power Station, drawn to scale		Hydroelectric Power Station
	Radio Station, drawn to scale		Telephone Station, drawn to scale
	Abandoned Open-pit Mine or Quarry		Open-pit Salt Mine
	Pit		Oil Deposit or Well
	Oil Seepage		Natural Gas Tank
	Tailings Pile		Fuel Storage Tanks
	Bench Mark		Drill Hole
	Burial Mound		Triangulation Point on Burial Mound
	Single-track Railroad		Double-track Railroad
	Small Bridge		Tunnel
	Pipe (Culvert)		Railroad and Station Building
	Coniferous Forest		Deciduous Forest
	Mixed Forest		Lawns
	Citrus Orchard		Wet Ground
	Scattered Vegetation		

243,8 Values for prominent elevations
186.0 Numbers for spot elevations, depth soundings, contour lines, etc.
0,2 Velocity of the current, width of river bed, depth of river
180/12 Fractional terms: length and capacity of bridges; depth of fords and condition of the river bottom; height of forest and the diameter of trees

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

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

1:25,000 mapping

a. Not drawn to scale b. Drawn to scale

	Government and Administrative Buildings		Military and Industrial Buildings
	Military and Communication Areas		Subway Entrance
	Partly Demolished Buildings		Demolished Buildings
	Built-Up Area with Fireproof Buildings Predominant		Built-Up Area with Non-Fireproof Buildings Predominant
	Individual Fireproof Building		Prominent Industrial Building
	Individual Dwelling, Fireproof		Ruins of an Individual Dwelling
	Factory or Mill Chimney		Factory or Mill with Chimney
	Factory or Mill without Chimney		Mine or Open Pit Mine
	Operating Shaft or Mine		Non-Operating Shaft or Mine
	Salt Mine		Tailings Pile
	Pit		Stone Quarry
	Gas Pump or Service Station		Fuel Storage or Natural Gas Tank
	Oil or Natural Gas Derrick		Small Hydroelectric Power Station
	Power Station		Transformer Station
	Cemetery		Burial Mound (height in metres)
	Triangulation Point on Burial Mound		Triangulation Point
	Bench Mark		Bench Mark (monumented)
	Telegraph Office		Telephone Station
	Radio Station		Radio Tower
	Airfield or Seaplane Base		Landing Strip
	Cut		Fill
	Km Post		Plantings
	Telegraph/Telephone Lines		Main Highway
	Highway under Construction		Improved Dirt Road (former truck road)
	Steep Grade		Width of Road
	Small Bridge		Pipe (Culvert)
	Tunnel		Dismantled Railroad
	Double-track Railroad with First Class Station		Railroad Under Construction
	Shore Embankment		River or Ditch with Embankment
	Water Reservoir or Rain Water Pit		Spring
	Well		Isobath with value
	Heavy (Index) Contour Line		Half Contour Line
	Contour Line and Value		Spot Elevation Value
	Coniferous		Deciduous
	Mixed		Scrub

Key to Numbers on Mapping

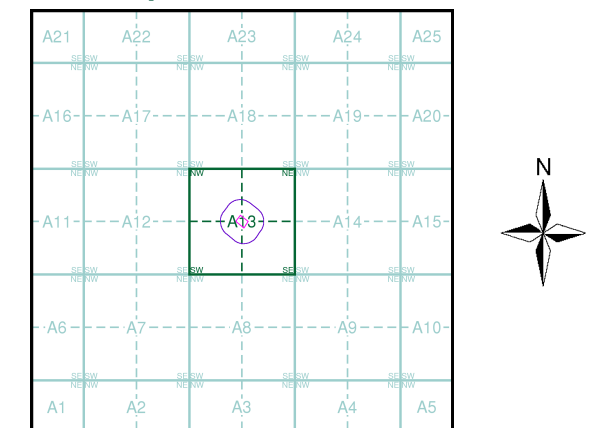
SP50SW_Oxford

No.	Description
1	Factory (Cars)
7	Factory (Machinery)
17	Post Office
32	Warehouse (Cars)

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Berkshire	1:10,560	1886	3
Oxfordshire	1:10,560	1886	4
Oxfordshire	1:10,560	1900	5
Berkshire	1:10,560	1914	6
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10K Raster Mapping	1:10,000	1999	17
10K Raster Mapping	1:10,000	2006	18
VectorMap Local	1:10,000	2019	19

Russian Map - Slice A

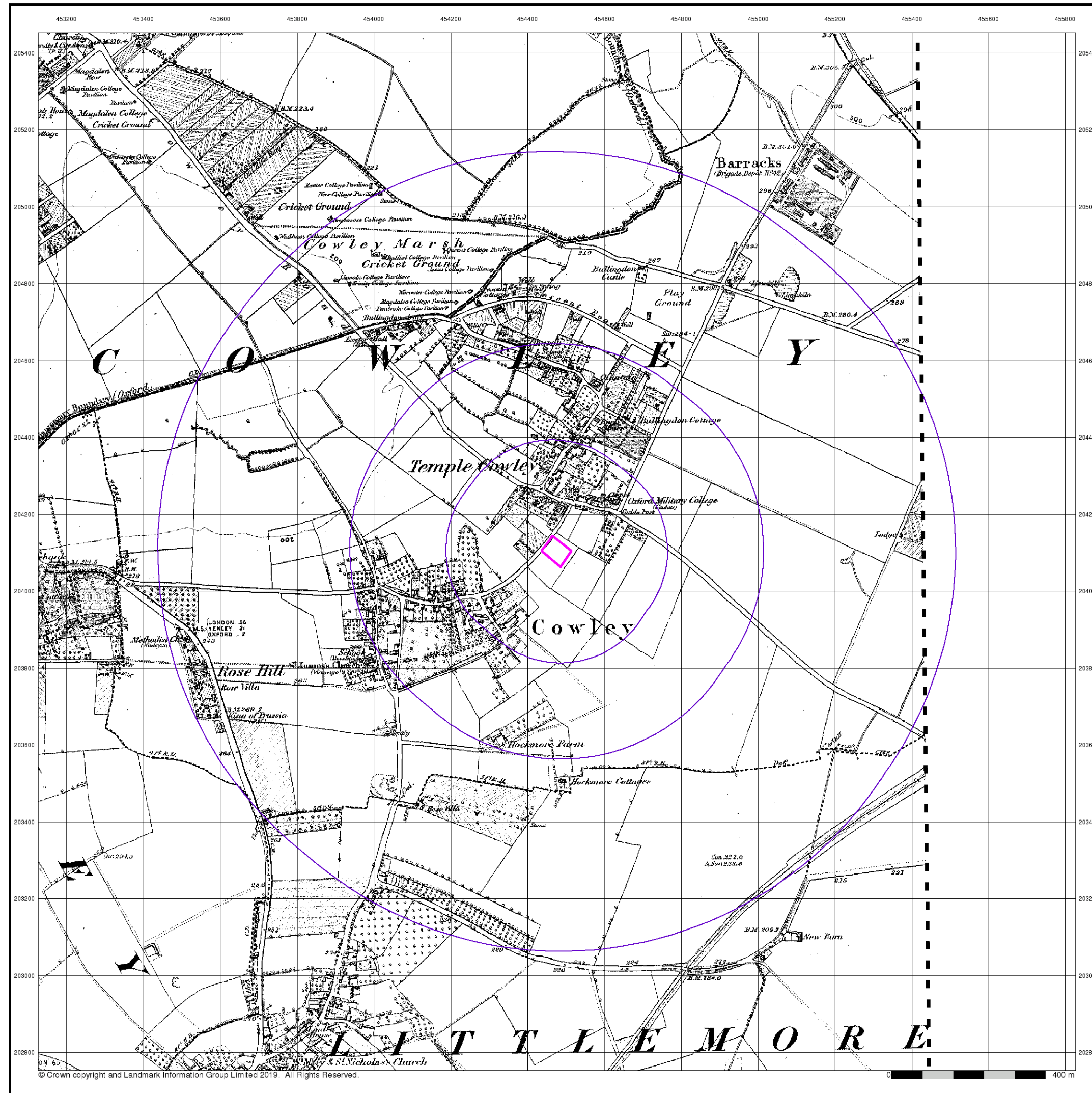


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Site Details

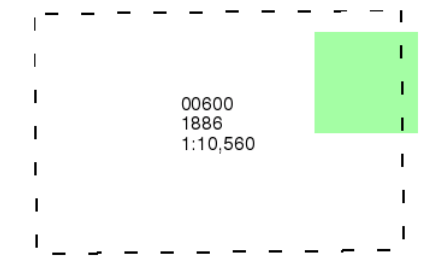
Former Conservative Club, Between Towns Road, OXFORD



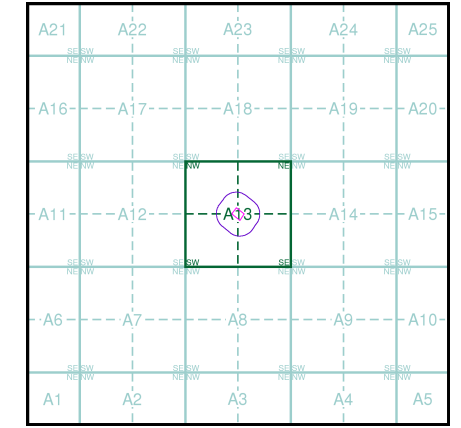
Berkshire
Published 1886
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

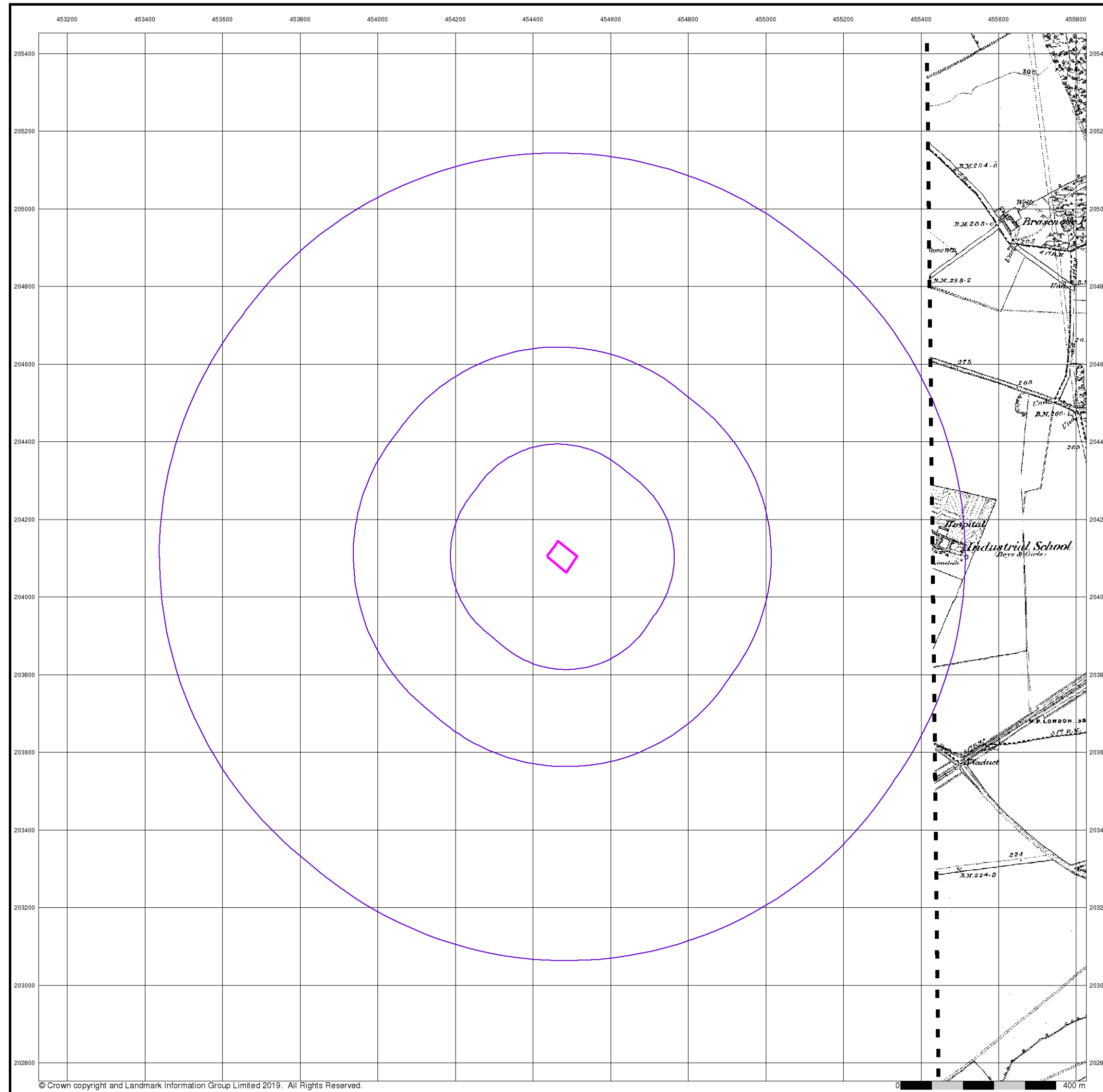


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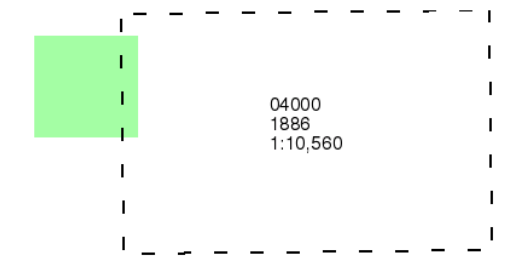
Former Conservative Club, Between Towns Road, OXFORD



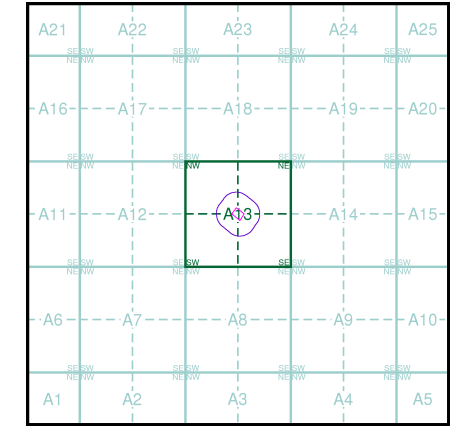
Oxfordshire
Published 1886
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

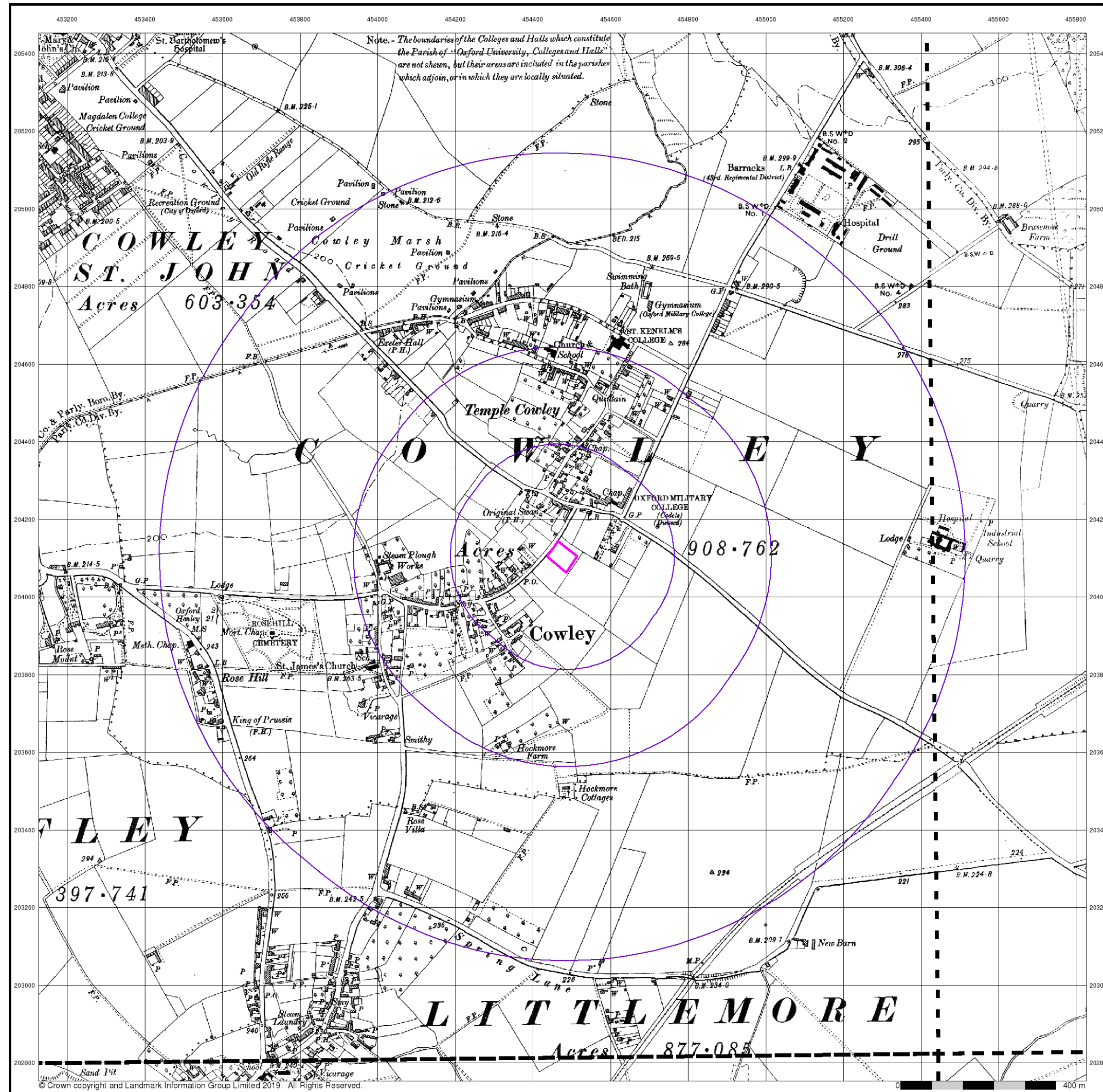


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Site Details

Former Conservative Club, Between Towns Road, OXFORD



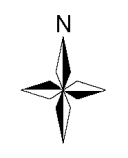
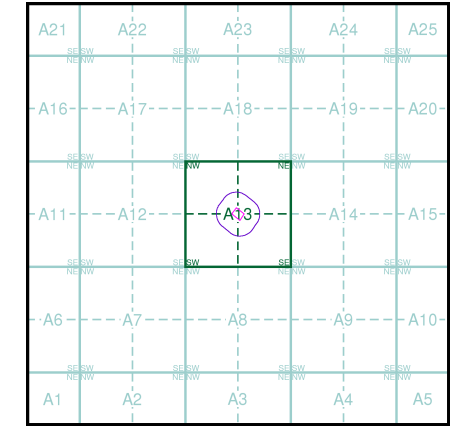
Oxfordshire
Published 1900
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

039NE 1900 1:10,560	040NW 1900 1:10,560
039SE 1900 1:10,560	040SW 1900 1:10,560

Historical Map - Slice A

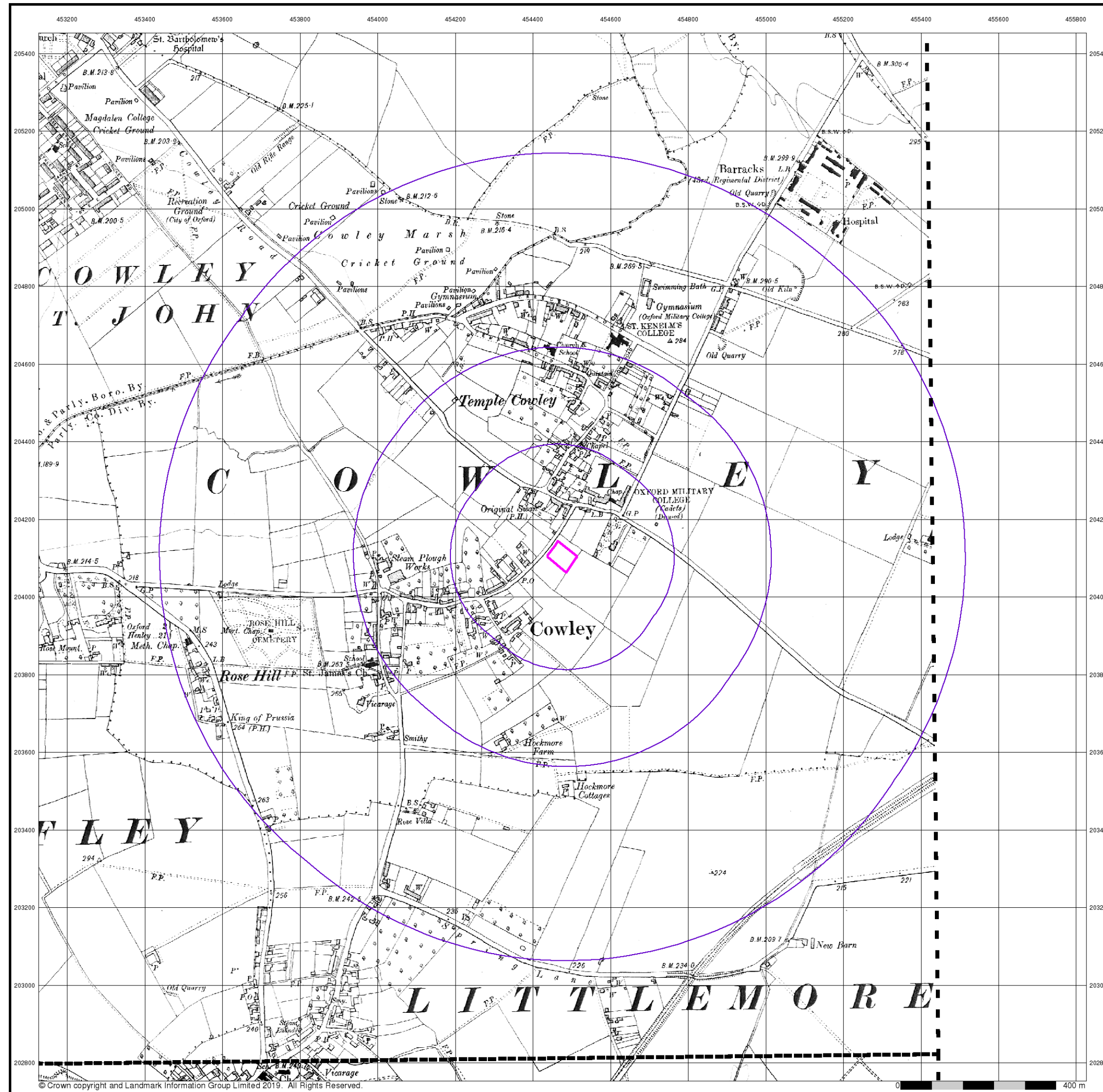


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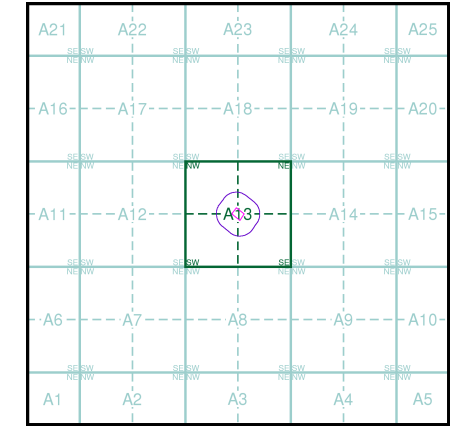
Berkshire
Published 1914
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

006NE	1914	1:10,560
006SE	1914	1:10,560

Historical Map - Slice A



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