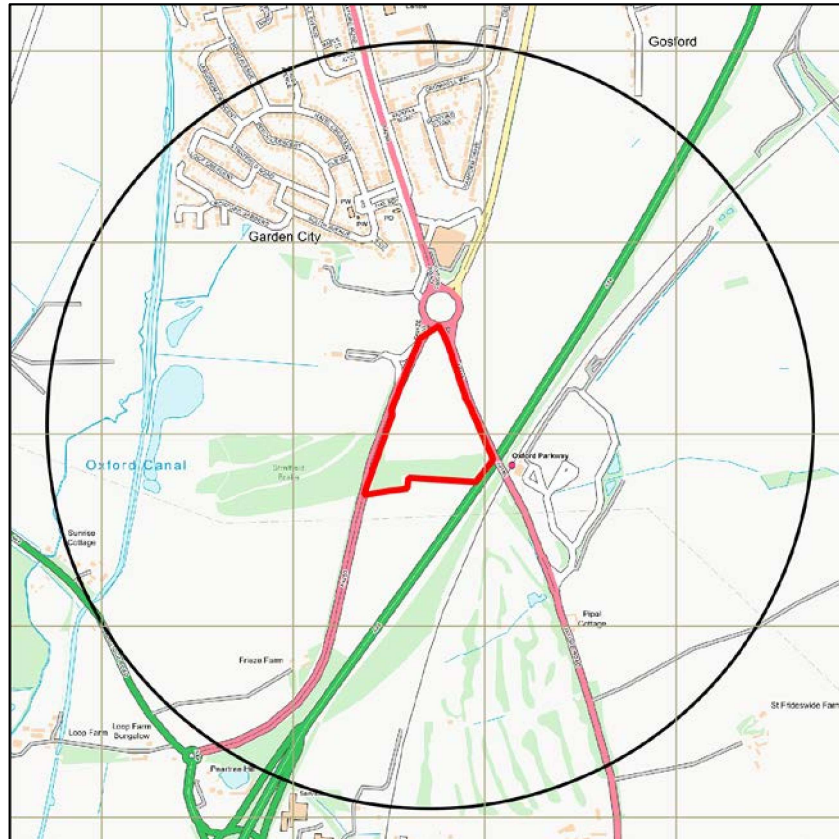


B. Preliminary UXO Risk Assessment

PRELIMINARY UNEXPLODED ORDNANCE (UXO) THREAT ASSESSMENT

Meeting the requirements of CIRIA C681 'Unexploded Ordnance (UXO) – A guide for the Construction Industry' Risk Management Framework



PROJECT NUMBER	16019	ORIGINATOR	J. Hancock
PROJECT	Banbury Road	REVIEWED BY	L. Gregory
CLIENT	Mott MacDonald	RELEASED BY	L. Hayes
VERSION	1.0	DATE	26 th May 2023
RECOMMENDATION	No Further Action is required to address the UXO risk at this Study Site		



special risks consultancy



STUDY SITE

The Study Site is described as “Banbury Road, Oxford, OX2 8HA”, and it is centred on National Grid Reference 449858, 212022.

THREAT POTENTIAL AND RECOMMENDATIONS

The potential for a UXO hazard to occur, and more specifically, the potential for unexploded WWI and WWII ordnance to exist at this site is assessed as being UNLIKELY (*Figure 2*).

In accordance with *CIRIA C681* Chapter 5 on managing UXO risks, *6 Alpha* concludes that **NO FURTHER ACTION** is required to address the UXO risk at this Study Site. Should you have any queries, please contact *6 Alpha*.



REPORT SUMMARY

During WWII, the Study Site was situated within *Ploughley Rural District*, which recorded one High Explosive (HE) bomb strike per 100 hectares; a “very low” level of bombing.

Luftwaffe aerial reconnaissance photography associated with the Study Site did not identify any targets on-site, nor within 1,000m of its boundary.

Air Raid Precaution (ARP) records concerning the *Ploughley Rural District* did not note any bomb strikes around the closest major settlement of *Kidlington* (approximately 500m north-west at its closest point), which suggests that there were no documented bomb strikes within 1,000m of the Study Site. Moreover, analysis of WWII-era aerial photography, and pertinent historical records associated with the Study Site, also did not uncover any evidence of bomb damage in proximity of the Study Site.

Consequently, as there is no evidence of bombing, bomb damage, or significant military activity recorded in the Study Site’s vicinity during WWII, there is no reason to suggest that further investigation into UXO is warranted.

USING THIS REPORT

This Preliminary Assessment is designed to inform environmental and construction professionals of the potential threat of military related explosives and/or ordnance on, or in, the vicinity of the Study Site.

This assessment is designed to be employed as a site-screening tool to meet with the requirement of Phase One of the *CIRIA UXO Risk Management Framework*; there are two broad prospective outcomes; either the threat level requires a detailed threat & risk assessment; or no further action is required. In the former instance we can provide a report within 10 working days (or more quickly upon application).

Two figures accompany the report, the *Second World War* (WWII) High Explosive (HE) Bomb Density and the final Probability of UXO Encounter. The purpose of this approach is to demonstrate that whilst bomb density statistics give an indication for WWII bombing, they should not be relied upon exclusively to generate a holistic assessment.












For further information, please contact *6 Alpha*:

Telephone: +44 (0)2033 713 900

Website: <http://www.6alpha.com>

Email: enquiry@6alpha.com

DATA FINDINGS

Threat Source (within 1,000m)	Detail	
	Identified	Comments
 Military Facilities/Activity	✗	None recorded within 1,000m.
 Ordnance Manufacture/Storage	✗	
 WWII Decoy Bombing Sites	✗	
 WWII Defensive Features	✓	A WWII-era anti-tank block was recorded 435m to the north-north-east of the Study Site.
 WWII <i>Luftwaffe</i> Designated Bombing Targets	✗	<i>Luftwaffe</i> aerial photography did not identify any primary bombing targets within 1,000m.
 WWII Bomb Strikes (Study Site Boundary)	✗	Further research of historical records and an analysis of post-war mapping did not identify any bomb strikes or bomb damage on-site, or within its vicinity.
 WWII Bomb Strikes (Wider Area)	✗	
 WWII Bomb Damage	✗	
 Abandoned Bomb Register	✗	The official abandoned bomb list did not identify any abandoned bombs within 1,000m.
 Potential Threat Sources	✗	Further research has not uncovered any potential UXO threat sources associated with the Study Site.
 WWII Bombing Density Per 100 Hectares	✓	The Study Site was located within <i>Ploughley Rural District</i> , which recorded one HE bomb strike per 100 hectares.

IMPORTANT NOTES

1. The term 'Preliminary UXO Threat Assessment' has been used to describe this report, to fall in line with the *CIRIA C681* guidelines. Whilst the term 'Risk' can be justifiably used at this stage, the reader should note that the 'Consequence' function of 'Risk' is not considered. Should it be required, this would be addressed in the 'Detailed UXO Threat & Risk Assessment' (Stages 2 and 3).
2. This report is accurate and up to date at the time of writing.
3. The assessment levels have been generated from historical data and third-party sources. Where possible *6 Alpha* have sought to verify the accuracy of such data, but cannot be held accountable for inherent errors that may be in third party data sets (e.g. *National Archives* or library sources).
4. *6 Alpha* have exercised all reasonable care, skill and due diligence in producing this service.
5. Whilst every effort has been used to identify all potential UXO/explosive threats, there were a number of private facilities, which may not have released privately recorded information concerning UXO/explosive threats into the public domain. It is therefore possible that some of the aforementioned sites may not be included within the database.



BANBURY ROAD, OXFORD OX2 8HA



WWII High Explosive Bomb Density

British National Grid



LEGEND

- Site_Boundary
- High Explosive Bomb Density
 - Less than 15 bombs per 100 hectares
 - 16-25 bombs per 100 hectares
 - 26-35 bombs per 100 hectares
 - 36-45 bombs per 100 hectares
 - Over 46 bombs per 100 hectares

PROJECT NO.	FIGURE	DRAWN	CHECKED	DATE			
10619	1	CC	LG	24/05/2023	Contains Ordnance Survey data © Crown copyright and database right 2017	Produced by and Copyright to 6 Alpha Associates Ltd. Users noting any errors please notify 6 Alpha.	

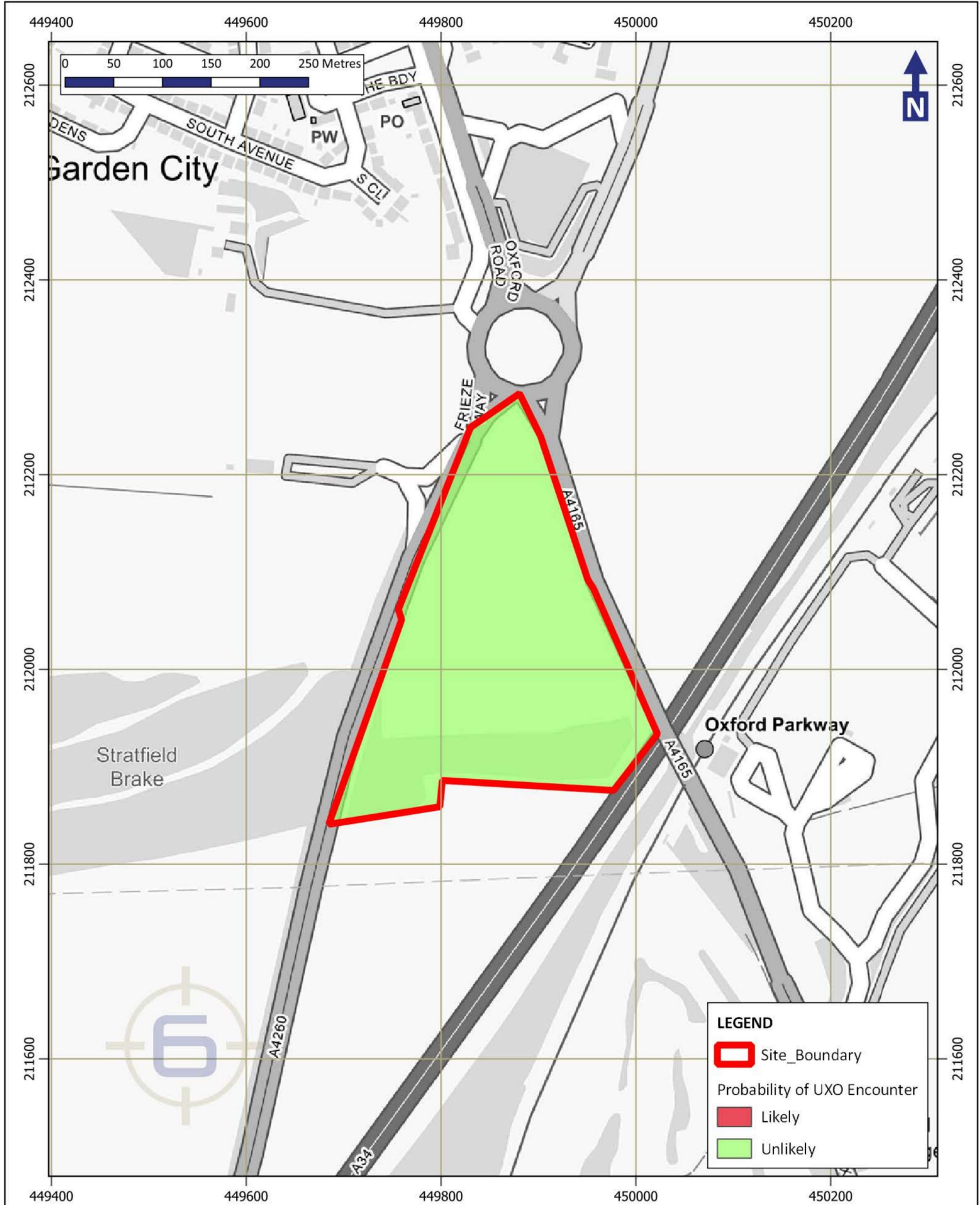


BANBURY ROAD, OXFORD OX2 8HA



Probability of UXO Encounter

British National Grid



PROJECT NO.	FIGURE	DRAWN	CHECKED	DATE
10619	2	CC	LG	24/05/2023

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