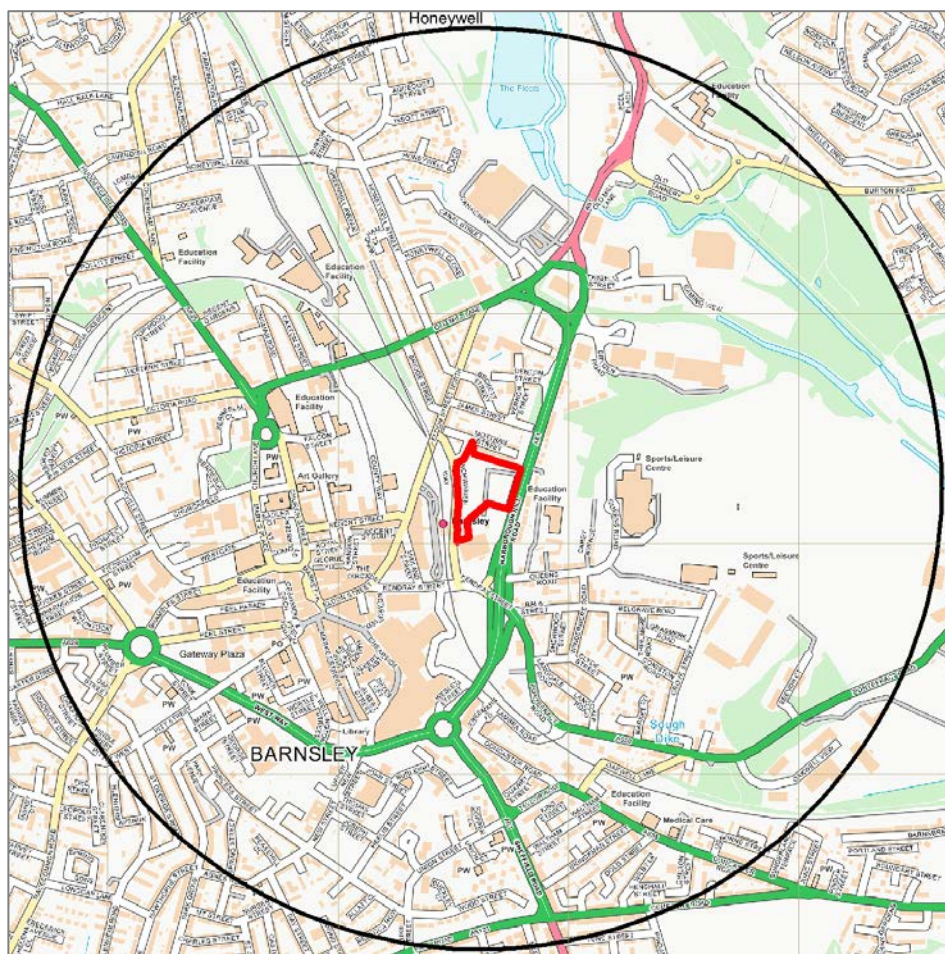


PRELIMINARY UNEXPLODED ORDNANCE (UXO) THREAT ASSESSMENT

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



6 ALPHA PROJECT NUMBER	8734	ORIGINATOR	L. Hayes
LANDMARK ORDER NUMBER	273324614_1	REVIEWED BY	L. Gregory (15 th February 2021)
CLIENT REFERENCE	Barnsley Youth Zone Prelim UXO	RELEASED BY	L. Gregory (16 th February 2021)
STUDY SITE	Site at 434820, 406600		
RECOMMENDATION	No further action is required to address the UXO risk at this Study Site		

STUDY SITE

The Study Site is described as “Site at 434820, 406600”, and it is centred on National Grid Reference 434810, 406620.

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 *Envirocheck*.

Telephone: +44 (0)844 844 9952

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REPORT SUMMARY

During WWII, the Study Site was situated within *Barnsley County Borough*, which recorded less than 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 primary bombing targets on-site or within 1,000m of its boundary.

Neither *Air Raid Precaution* (ARP) records nor official bomb damage mapping were available. In addition, further research of historical records and an analysis of post-war mapping did not identify any evidence of bombing within the vicinity of the Study Site. On the 11th May 2018, an unexploded shell was however discovered in *Barnsley Canal* (585m north-east).

Nonetheless, as there was no bombing or bomb damage recorded in the Study Site’s vicinity during WWII, there is no evidence 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 *Envirocheck*:

Telephone: +44 (0)844 844 9952

Website: <http://www.envirocheck.co.uk>

Email: customerservice@envirocheck.co.uk

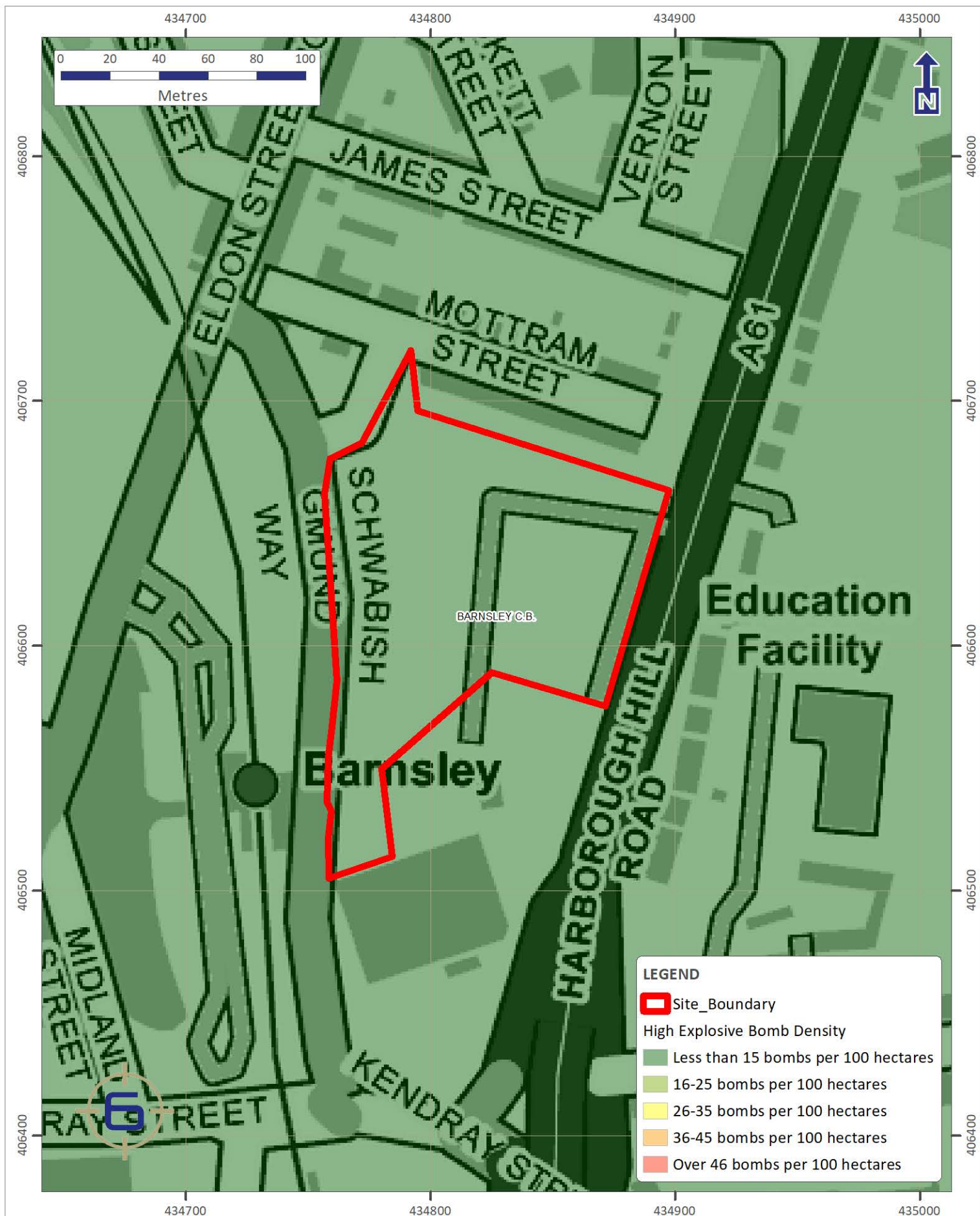
DATA FINDINGS

Threat Source (within 1,000m)	Detail	
	Identified	Comments
 Airfields/Military Facilities	✗	None recorded within 1,000m.
 Ordnance Manufacture/Storage	✗	None recorded within 1,000m.
 WWII Decoy Bombing Sites	✗	None recorded within 1,000m.
 WWII Defensive Features	✗	None recorded within 1,000m.
 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)	✗	ARP records were not available.
 WWII Bomb Strikes (Wider Area)	✗	ARP records were not available.
 WWII Bomb Damage	✗	Official bomb damage mapping was not available.
 Abandoned Bomb Register	✗	The official abandoned bomb list did not identify any abandoned bombs located 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>Barnsley County Borough</i> , which recorded less than 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.

WWII High Explosive Bomb Density



Probability of UXO Encounter

