

Phase I Site Appraisal

**20A High Street, Botley
Southampton, Hampshire**

for

Carbury Investments Limited
HSB-PPC-00-XX-RP-G-0001

March 2023

Phase I Site Appraisal
20A High Street, Botley
for
Carbury Investments Limited

Revision	Date of issue	Comments	Prepared By	Checked By
1	08/03/2023	1 st Issue	OJB	NAM

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1.0 Introduction

1.1 Commission

Patrick Parsons (PP) has been appointed by Carbury Investments Limited (client) to produce a Phase I Site Appraisal, for their site at 20A High Street, in Botley, Southampton.

1.2 Proposed Development

It is understood that the site is to be developed to provide residential properties with private gardens and an access road. A site location plan and proposed development plan is included in Appendix A.

1.3 Limitations

This report has been prepared for the client and their appointed agents only and should not be relied upon by any third party without the written permission of Patrick Parsons. If any unauthorised third party comes into possession of this report, they rely on it at their own risk and the authors do not owe them any Duty of Care or Skill. It is based on and limited to an assessment of the information and ground conditions identified here.

1.4 Aim of Phase I Site Appraisal

The client's specific requirements were to provide a Phase I Site Appraisal for the site supplemented with a new environmental data report. The principal objectives are as follows:

- Obtain information about the likely soil and groundwater conditions within the area of the site;
- Determine the possible ground related geotechnical and contamination hazards within the site boundaries that may affect any future proposed development;
- Provide advice on further works required for the cost-effective reduction of risks to the development and procedures likely to satisfy regulators.

1.5 Information Sources

This Phase I Site Appraisal is based on published geological and environmental information supplemented by historical mapping (Appendix B) and an environmental data report (Appendix C).

2.0 Phase I Desk Study

2.1 Site Description

The site is located in Botley town centre, approximately 10km east of Southampton City Centre, centred at OS grid reference 451337, 113050, and the nearest postcode is SO30 2EA. A site location plan is presented in Appendix A.

The site is an irregularly shaped parcel of land covering approximately 0.05 ha, located to the north of the A334 (Botley High Street). The site is currently occupied by a building in the west, most recently used by Mariner Outboards, and open space with sparse vegetation. Access to the site is gained via the A334 (Botley High Street) and Warner Mews, a residential road to the west of the site. The site is delineated by residential buildings on the western boundary, with wooden fencing and mature and semi mature trees making up the eastern and northern boundaries, separating the site from the adjacent road and associated houses. The southern boundary is formed by a combination of the access point from the A334 and commercial / residential properties fronting onto the A334.

The immediate surrounding area is predominantly mixed commercial / residential use.

2.2 Site History

Year	Site	Surrounding Area
1868-1869	The earliest mapping reviewed shows the northern half of the site to be rear gardens or possibly orchards, with two small buildings. An assumed residential building is present in the south of the site.	The immediate surrounding area is formed by Botley which is populated with numerous residential buildings. The site is bounded by the High Street to the south, private gardens and a building to the west, orchards to the north and a garden to the east. A smithy is located 80m east with Botley Mills (Corn) located 140m east along the River Hamble which is recorded 175m east which flows in a southerly direction. Further north and west agricultural land is present with Botley village to the south. A graveyard is located 200m west of the site.
1896	The trees are no longer mapped on the site. An additional building is recorded on the western boundary of the site.	A well is recorded approximately 20m west of the site. The smithy 80m east is no longer recorded, however, a smithy is mapped approximately 80m west. Two malshouses are recorded in the surrounding area, both at a distance of approximately 120m east and south-east, respectively.
1909	Two glasshouses have been mapped in the centre of the site.	No significant changes are recorded.
1940	One of the glasshouses is no longer mapped on-site.	A fire engine station is mapped 100m west of the site. Residential development is mapped 250m north of the site.
1957	No significant changes are recorded.	No significant changes are recorded.
1959 (partial)	No significant changes are recorded.	A garage and builders yard are mapped 60m south of the site. Significant residential development is mapped 115m south.
1965	The buildings previously recorded along the western boundary are now recorded inside the western site boundary.	A second garage is recorded approximately 20m south of the site. Residential properties have been built 285m north-west.
1974	No significant changes are recorded.	Tanks are recorded 10m west of the site and residential development is recorded 65m north-west. Tanks are mapped 10m west of the site. Agricultural fields between 50m-250m north and

		north-west of the site are recorded to have been replaced with houses.
1976 (partial)	No significant changes are recorded.	A fire station is located approximately 200m north-east of the site.
1987	The glasshouse is no longer recorded on the site and the buildings in the west of the site have been reconfigured.	Residential infilling is recorded 100-250m north-north-west replacing agricultural fields.
1993	No significant changes are recorded.	No significant changes are recorded.
2001	No significant changes are recorded.	No significant changes are recorded.
2003	No significant changes are recorded.	The tanks are no longer recorded 10m west of the site.
2010	No significant changes are recorded.	No significant changes are recorded.
2023	No significant changes are recorded.	No significant changes are recorded.

The historical maps reviewed are represented in Appendix B.

2.3 Unexploded Ordinance (UXO)

Review of the available online Unexploded Ordinance (UXO) risk maps indicates that the site lies within a low-risk area. As such no further mitigation measures will be required.

2.4 Geology

Made Ground is not recorded to be present beneath the site, however, due to the former phases of redevelopment and demolition, and given the existing buildings present on and around the site, Made Ground should be expected.

The superficial deposits beneath the site are recorded as River Terrace Deposits comprising sand and gravel. The bedrock beneath the site is recorded as the Earnley Sand Formation.

There are no BGS boreholes recorded on-site, the nearest accessible BGS borehole is recorded 48m south-east of the site and recorded paving over gravel fill to 1.00m below ground level at time of boring (bgl), overlying stiff silty clay to 1.40m bgl, soft/firm becoming firm/stiff silty clay to 6.20m bgl, stiff thinly laminated silty clay to 13.10m, stiff light grey silty clay to 15.00m bgl.

A groundwater seepage was encountered at 1.00m with no rise after 20 minutes. Further seepages were encountered at 6.20m rising to 6.00m after 5 mins with no further rise.

2.5 Mining and Quarrying

The site is not recorded to be within a Coal Authority Coal Mining Reporting Area.

There are 8no. surface ground workings recorded within 250m of the site, the closest being a graveyard in 1868, located 150m west of the site. The remaining surface ground workings comprise ponds, mill ponds and unspecified heaps ranging between 155m and 198m from the site.

2.6 Radon

The site is not within a Radon Affected Area, as less than 1% of properties are above the action level; radon protection measures are therefore not required for new properties.

2.7 Hydrogeology and Hydrology

The superficial deposits and bedrock geology are recorded as Secondary A Aquifers. The site is not recorded to be within any Source Protection Zone and there are no potable or groundwater abstraction points recorded within 2000m of the site.

There is one surface water feature within 250m, the River Hamble located approximately 163m east of the site. There are 8 no. historical and active surface water abstraction licenses identified within 2000m of the site. The nearest active record being 617m north-east from the Mill Stream, licence number 30/052/RO1.

The site is not recorded to be in an area with a risk of flooding and is not recorded to be within an Environment Agency Zone 2 and Zone 3 floodplain.

2.8 Environmental Data

There are no EA/NRW/BGS or LA recorded historical landfill sites within 500m of the site. There is 1no. recorded waste exemption within 500m of the site, relating to waste being used in construction.

There are 25no. recorded historical industrial land uses within 500m of the site, none of which are directly on site. The closest record is for a smithy, recorded in 1897, approximately 40m south-west.

There are 7no. recorded historical tanks within 500m of the site, the nearest being 4m north-west of the site, recorded between 1975 and 1996.

There are 6no. historic energy features located within 500m of the site relating to electricity substations, the nearest being 89m west of the site.

There are 4no. records of historical garages within 500m of the site, the nearest was located 18m south of the site.

There are 16no. records of current or recent industrial land use within 250m of the site, the nearest being related to electrical and electronic engineering services, located 19m east of the site and Blenheim Oak Auto Repairs is recorded 54m south.

The environmental data report obtained for the site is presented in Appendix C.

2.9 Contaminants of Concern

Based on the desk study information it is considered that there is the potential for limited thicknesses and extents of Made Ground to be present on-site associated with the glasshouses and other historic and existing buildings. Given the likely presence of Made Ground and an outboard repair company located on-site, there is the potential for contamination to be encountered on site. Specific contaminants of concern are likely to include heavy metals, polycyclic aromatic hydrocarbons (PAHs), fuel/oil hydrocarbons, and a risk of asbestos, given the presence of buildings on site.

3.0 Phase I Conceptual Model

The preceding desk study data has been assessed and a conceptual site model produced following current relevant guidance.

Based on the desk study information it is considered that there is the potential for limited thicknesses and extents of Made Ground to be present on-site associated with the historic and existing buildings. There is also an outboard motor company present on-site. Historic tanks were present 4m north-west of the site, however the contents of the tanks are unknown. It is therefore considered that contamination may be present beneath the site.

In terms of human health, the primary receptors are end-users of the proposed residential development and construction workers. The pathways include direct contact with contaminated soil and soil dust, ingestion of contaminated soil and dust, the indoor/outdoor inhalation of ground gas and soil vapour and the consumption of homegrown produce. Given that proposed development of the site includes private gardens and soft landscaping, there will be a pathway between any potential contamination and end users and as such the risk to end users is assessed as low to moderate. The risk to construction workers is considered to be very low due to their shorter exposure period and given that risks shall be adequately mitigated by law, specifically the Construction Design Management (CDM) Regulations, 2015.

In terms of risk to human health associated with ground gases, the primary receptors are the proposed end users. Although there is a potential for Made Ground associated with previous buildings at the site it is considered that no significant potential source of ground gas is present. Therefore, the risk of harmful ground gas being present on the site is assessed as low.

In terms of controlled waters, the primary receptor is the Secondary A Aquifers (superficial and bedrock). It is noted that there are no potable or groundwater abstractions recorded within 2000m and the site is not within a Source Protection Zone. There is 1no. active surface water abstraction located 617m north-east of the site.. The primary pathways would be through infiltration and leaching of potential contaminants and downwards migration to the aquifer. Whilst there is the potential for a pathway to exist, it is considered unlikely that significant contamination is present beneath the site. Subsequently, the overall risk to controlled waters is assessed as low.

The Phase I conceptual model is illustrated on the next page.

Human Health		
Source	Pathway	Receptor
On-site Made Ground; heavy metals, PAHs, TPHs and asbestos	Ingestion and inhalation of contaminated soil and soil dust and direct contact with contaminated soil and soil dust consumption of home grown produce	End users of the completed development.
Off-site historic tanks	Indoor and outdoor inhalation of ground gas and soil vapours, the ingestion of contaminated soil and soil dust and direct contact with contaminated soil and soil dust	Construction workers.
No significant source of ground gas present	Inhalation of ground gas and explosive potential	End users and construction workers.
Controlled Waters		
On-site made ground; heavy metals, PAHs and TPHs.	Leaching and vertical migration; due to predominantly high permeability of granular superficial deposits	Secondary A Aquifer (bedrock geology) Secondary A Aquifer (superficial deposits)

4.0 Preliminary Recommendations

4.1 Contamination and Remediation

There is potential for contamination to be present at the site, however it is considered unlikely to be significant, and as such the risk posed to human health (end users) is considered low to moderate and in respect of construction workers, very low. The risk to controlled waters has been assessed as low. Given there are no significant sources of ground gas either on or offsite the risk of ground gases is assessed as low. However, a ground investigation will be required to confirm this assessment, the scope of which is outlined in Section 5.0.

It should be noted that the following comments are based on the findings of this desk study and should be confirmed by intrusive investigation and chemical analysis. At this stage, it should be assumed:

- Proposed garden areas and areas of soft landscaping may require a minimum 600mm clean capping layer;
- Source removal may be required if grossly contaminated soils are encountered.

4.2 Geotechnical Considerations

It should be noted that the following comments and recommendations are based on the findings of this desk study. Generally, it is considered:

- The ground conditions are likely to comprise limited thicknesses of Made Ground overlying predominately granular superficial soils passing into the Earnley Sand Formation;
- Traditional foundations may be appropriate should shallow and competent natural strata be encountered. However, if poor bearing capacity soils or deep Made Ground is encountered then an alternative foundation solution may be required;
- Given the underlying high permeability nature of the natural strata, soakaway drainage could be considered feasible for this site, however, due to the size of the site it is unlikely that any soakaways would be a minimum of 5.0m from any proposed or existing building.

5.0 Conclusions

Further works will be necessary to establish a ground model and confirm the underlying ground conditions to confirm the recommendations detailed in Section 4 and should generally comprise:

- A window sampling borehole investigation to establish the sub-surface conditions and collect samples for analysis;
- Chemical analysis of soils followed by risk assessment so that the risk to human health and controlled waters can be determined;
- Geotechnical and geochemical soils testing of the founding strata to assess strength and suitable grade(s) of buried concrete.

This document should be submitted to the Planning Department of the Local Authority for comment and approval.

Appendix A

Figures



Appendix B

Historical Maps

Site Details:

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1868

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1868
 Revised 1868
 Edition N/A
 Copyright N/A
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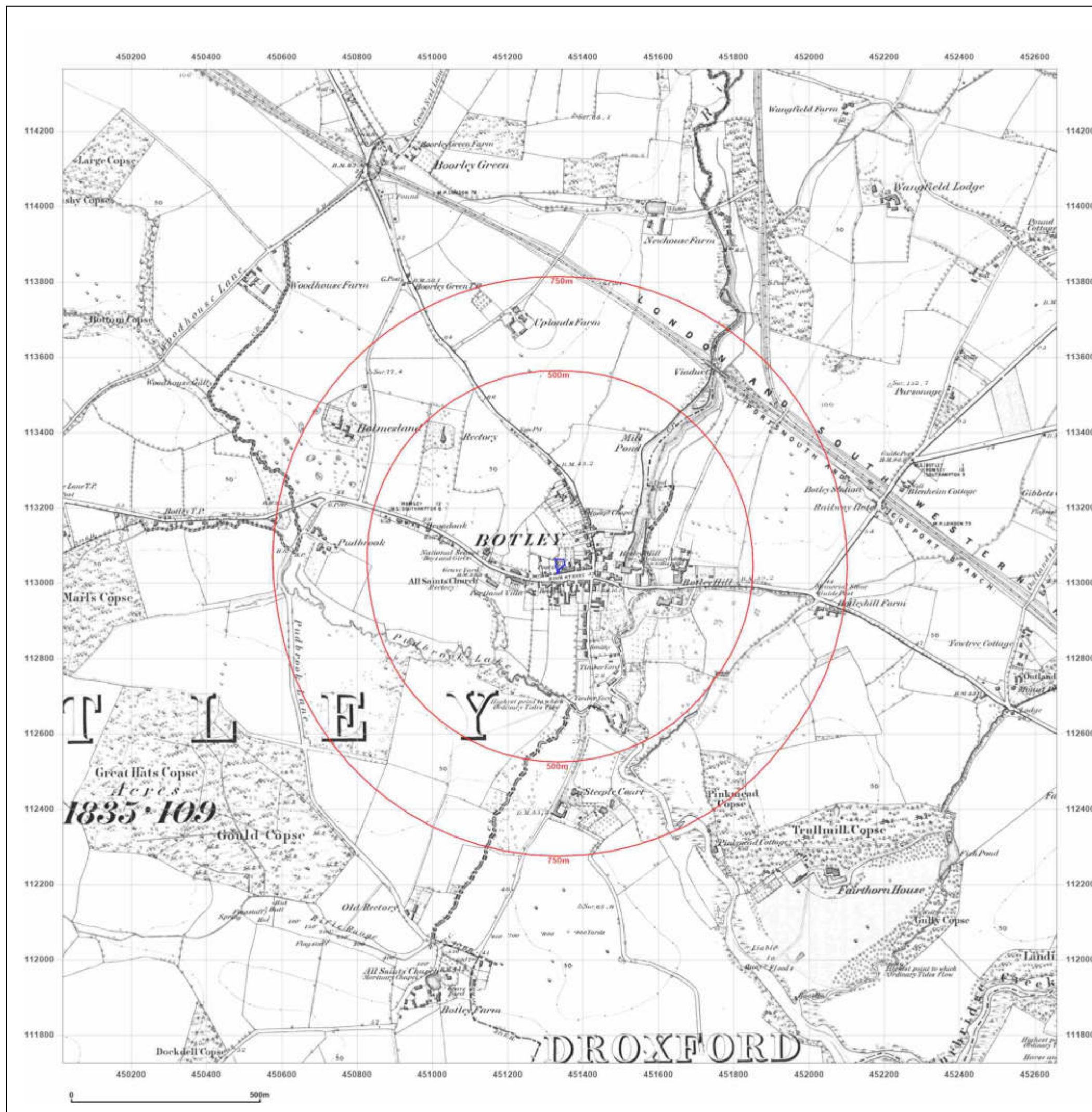


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Site Details:

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1895-1897

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1866
Revised N/A
Edition 1897
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1895
Edition N/A
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Levelled N/A

Surveyed 1868
Revised 1895
Edition N/A
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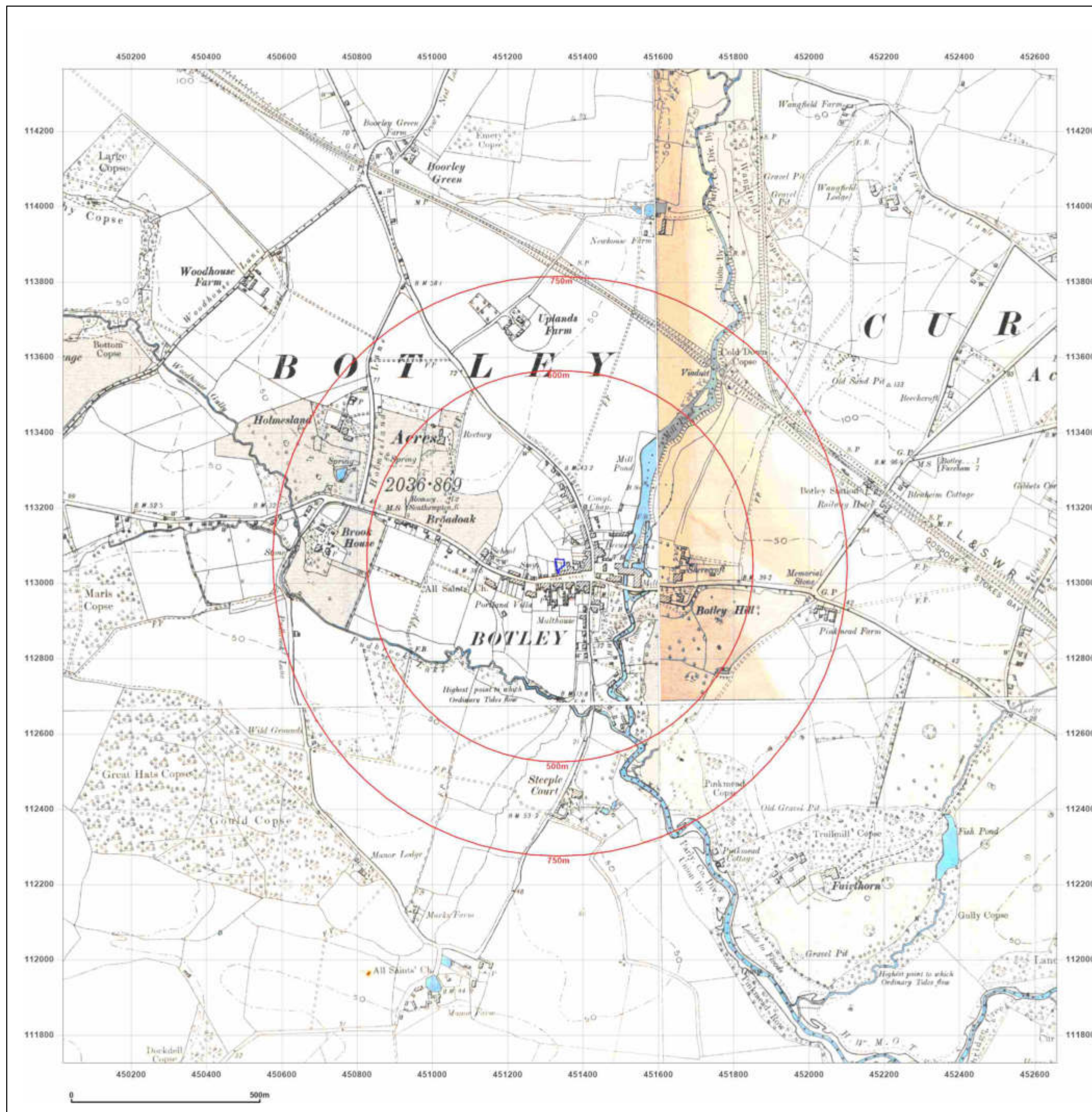


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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1895-1898

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1866
Revised 1895
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised N/A
Edition N/A
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Revised N/A
Edition 1897
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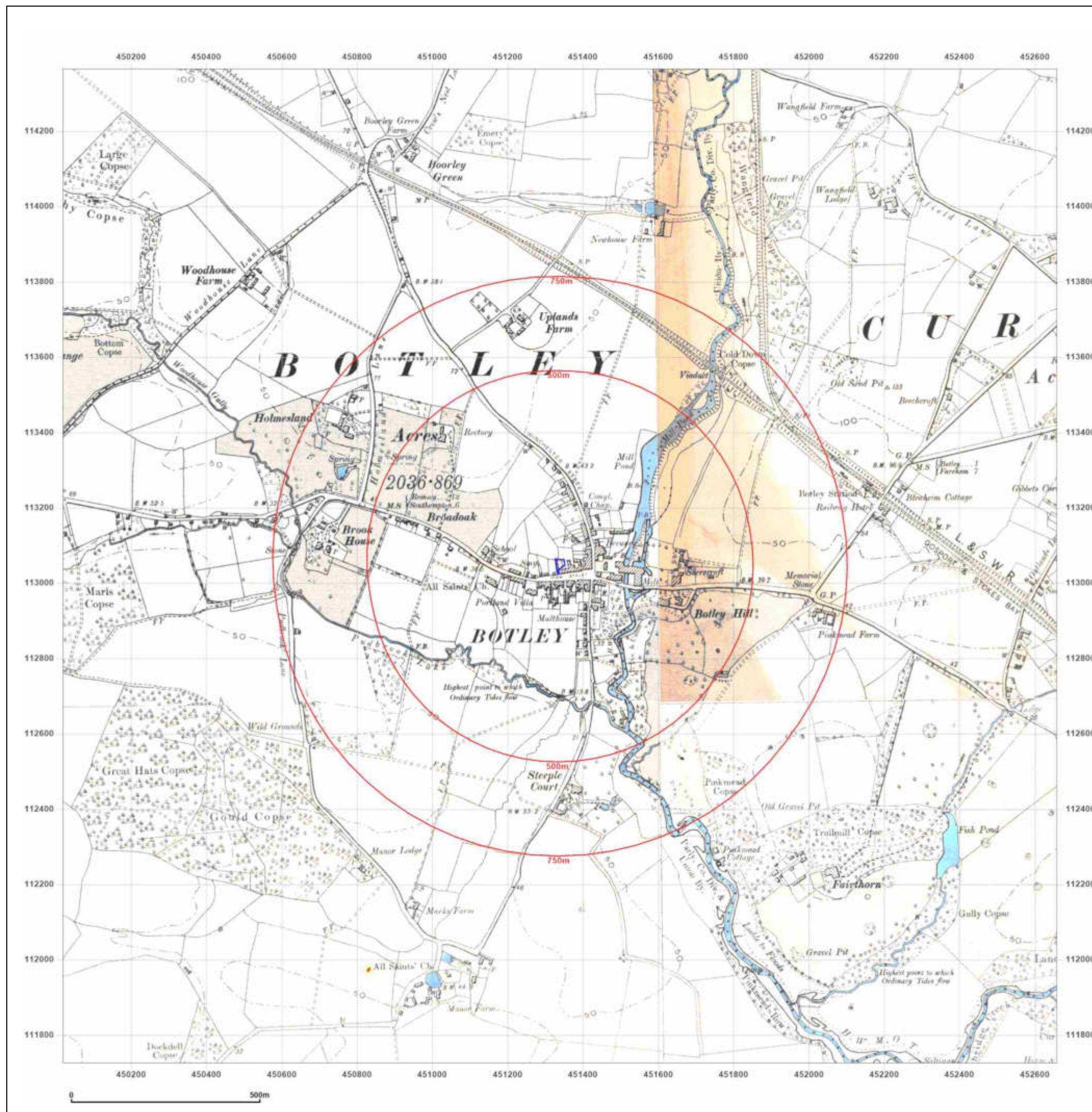


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Site Details:

20A High Street, Botley, High
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SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1908

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1908
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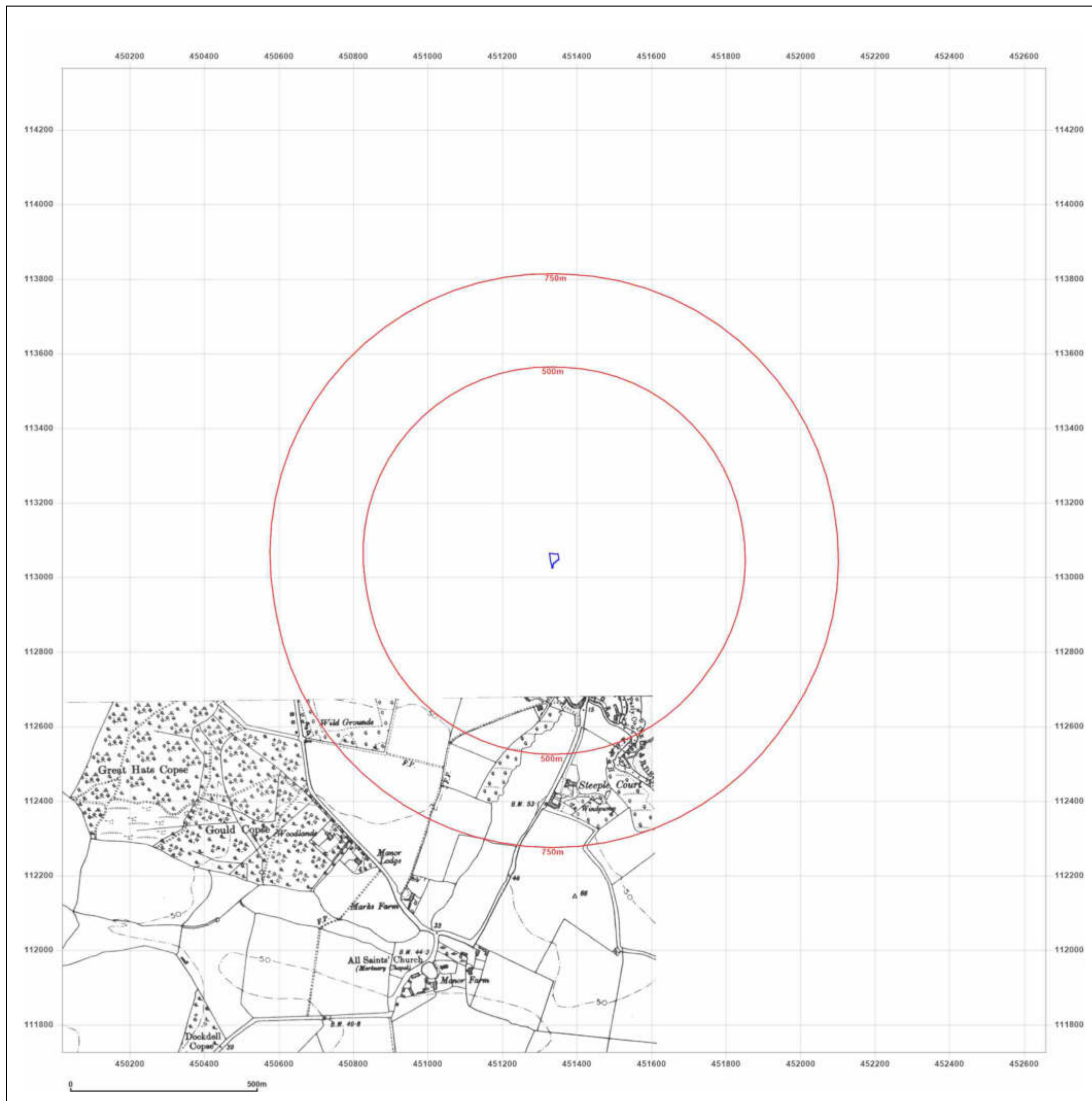


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20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1908-1910

Scale: 1:10,560

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Revised 1910
Edition N/A
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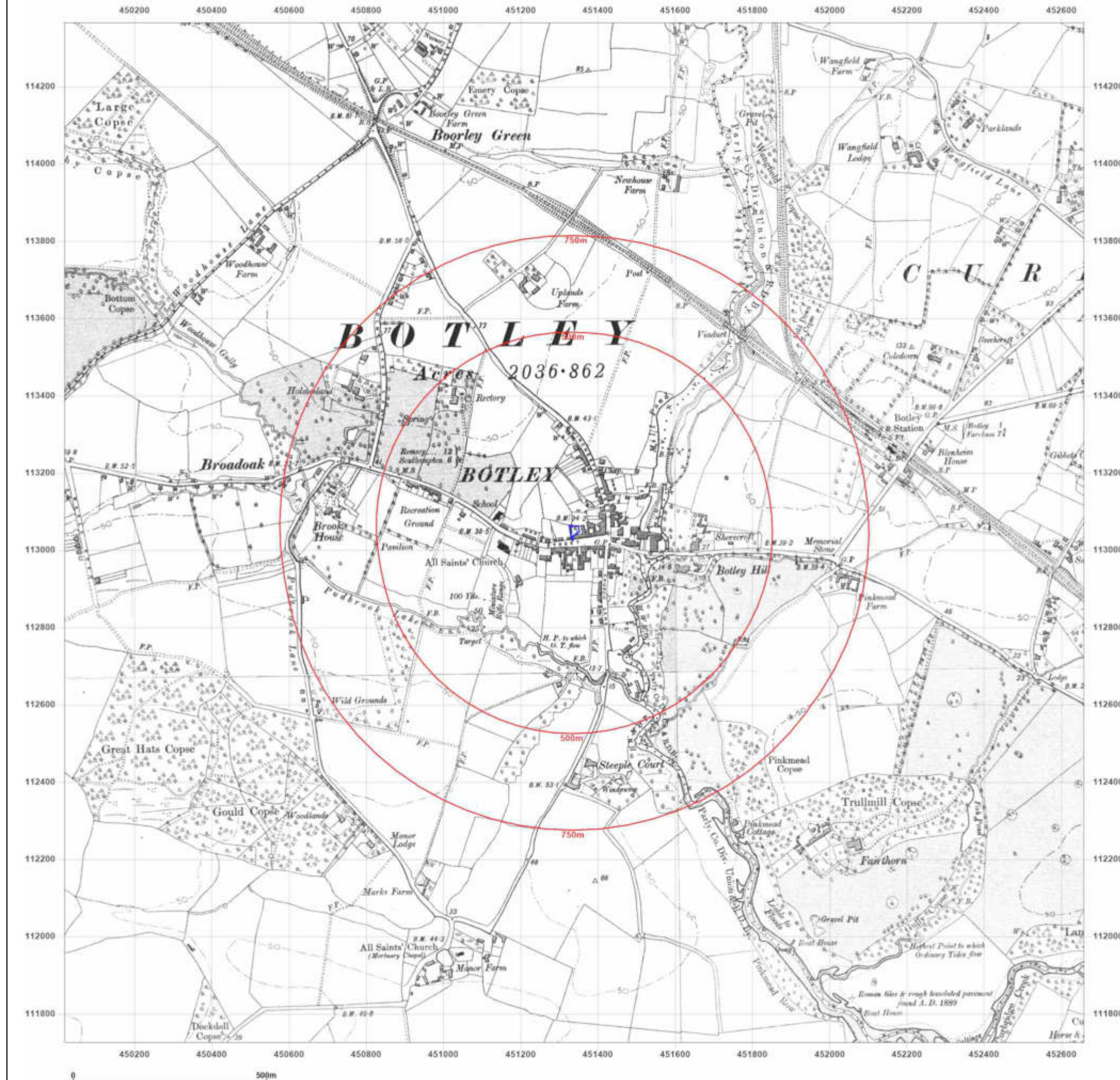


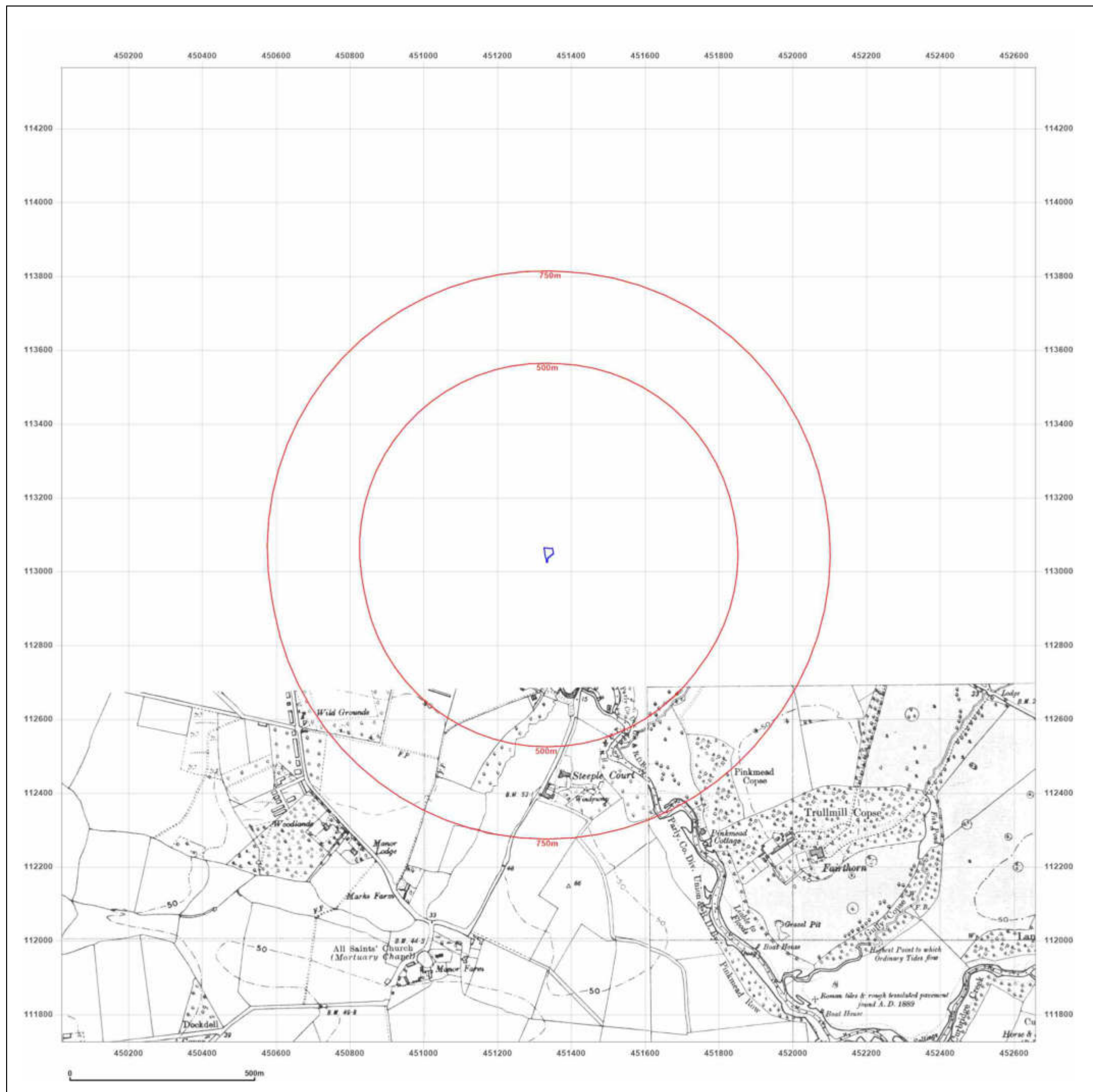
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Site Details:

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Report Ref: EMS-846017_1085621
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Map Name: County Series

Map date: 1938-1942

Scale: 1:10,560

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Grid Ref: 451338, 113045

Map Name: Provisional

Map date: 1957

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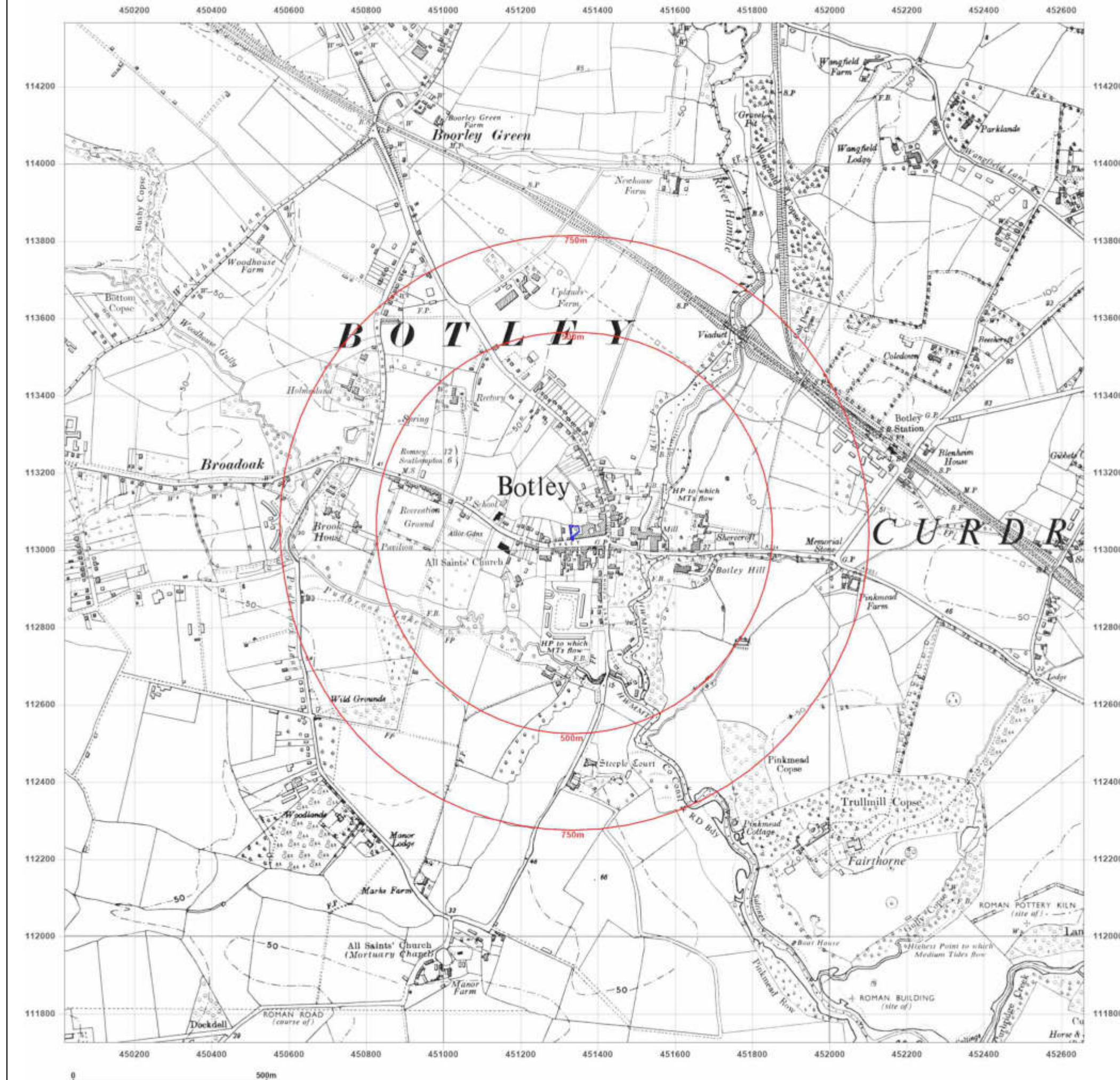


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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: Provisional

Map date: 1968

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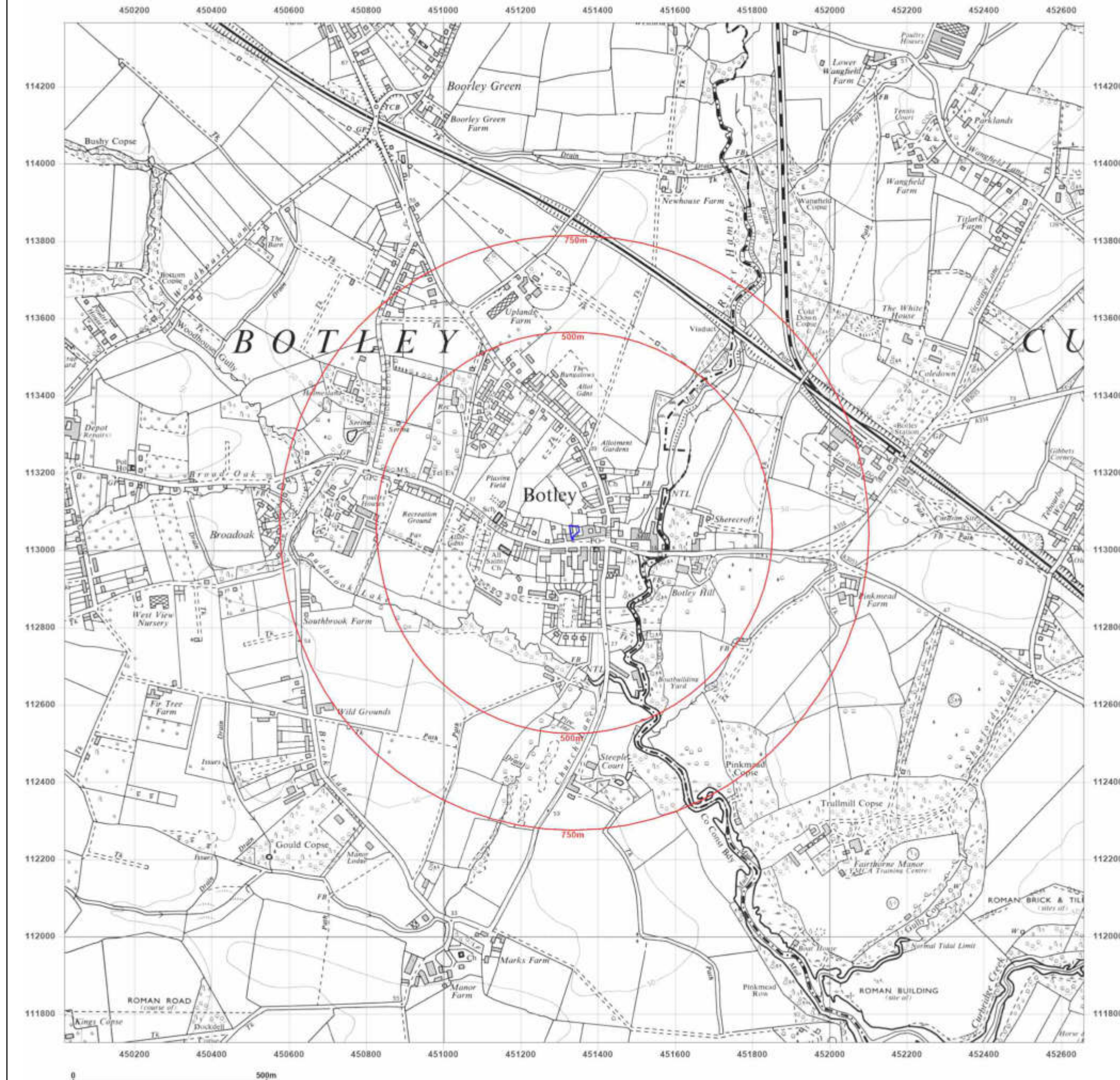


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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1987

Scale: 1:10,000

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Map Name: National Grid

Map date: 2001

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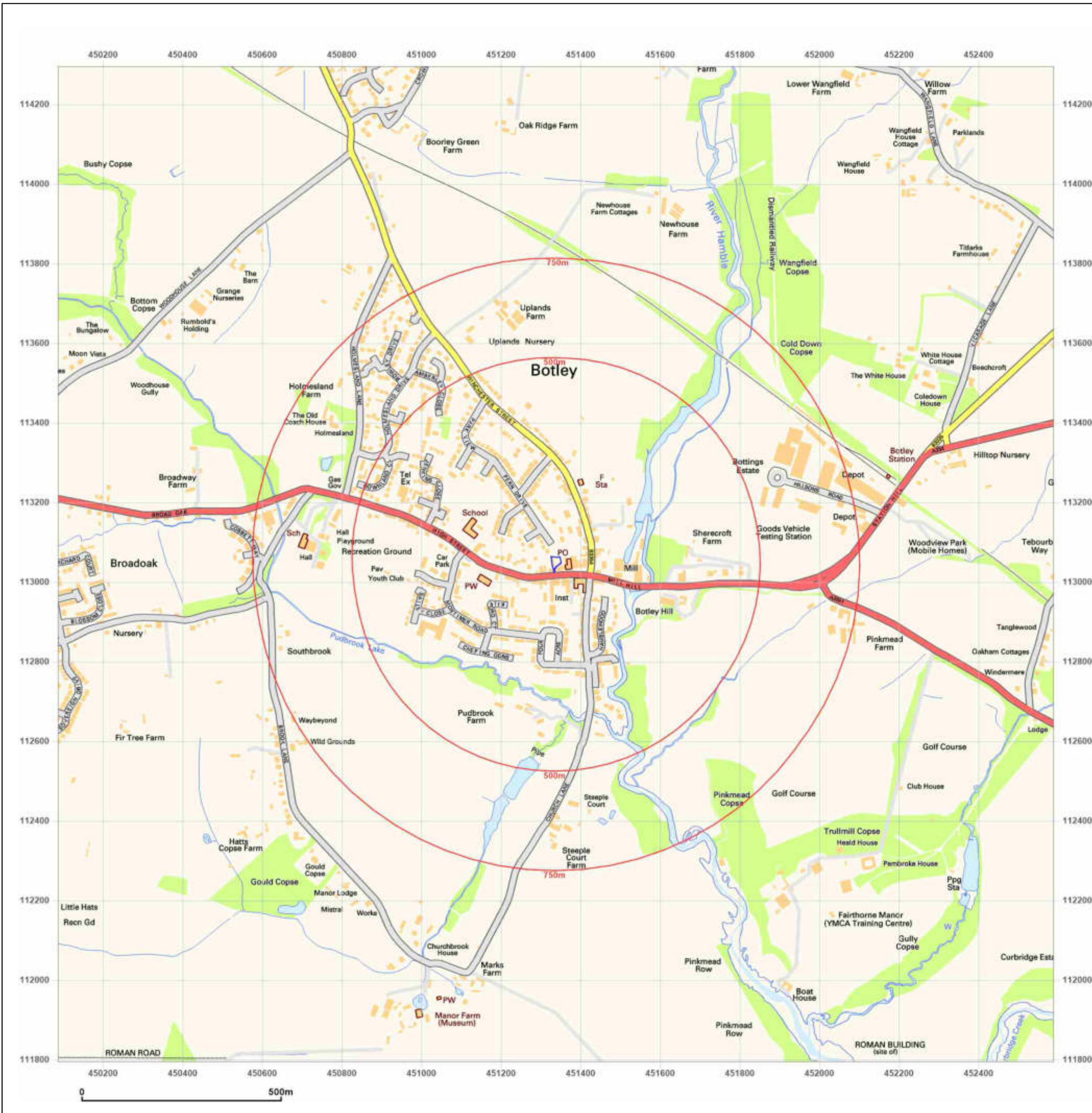


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Map Name: National Grid

Map date: 2010

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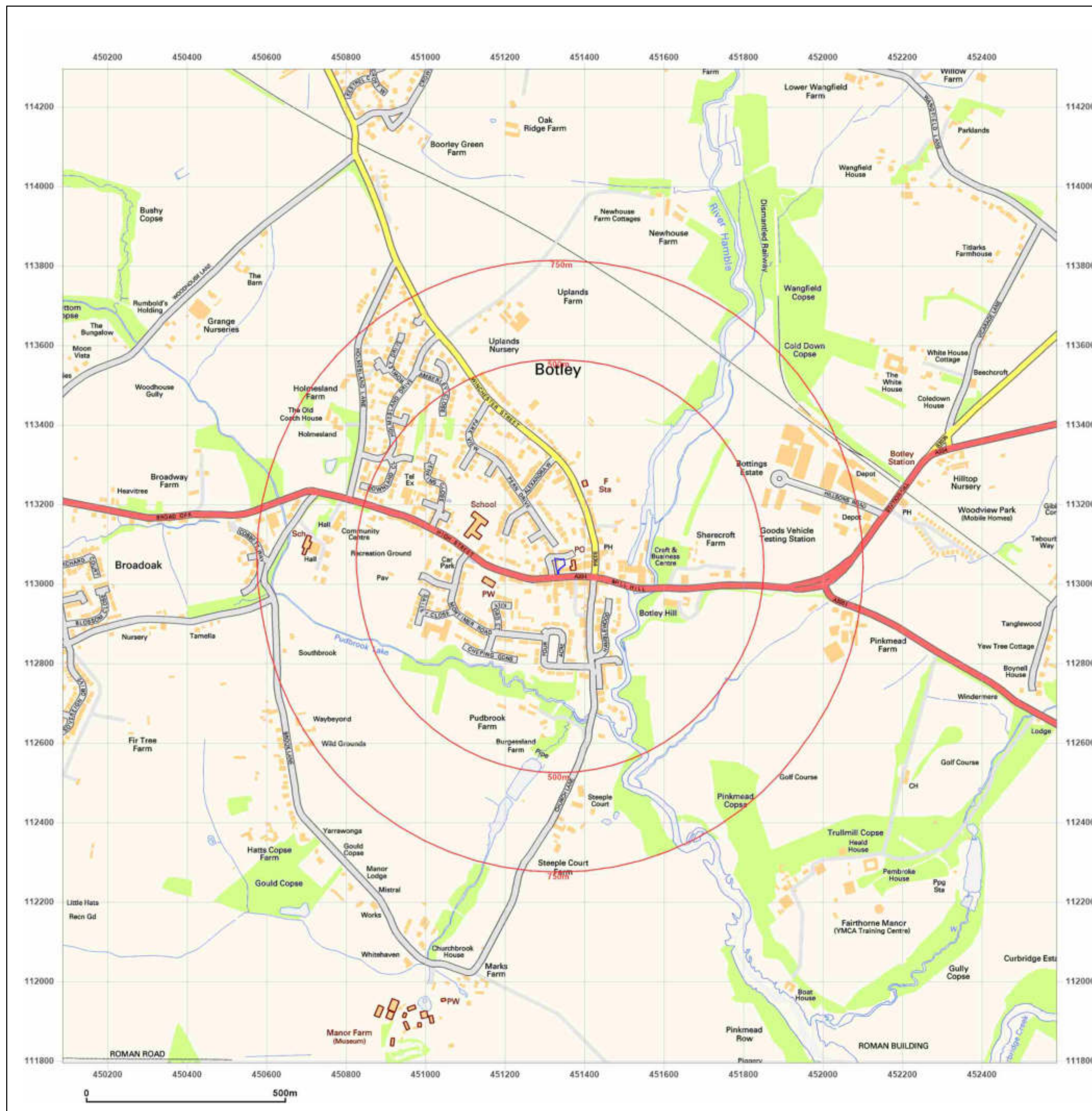


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Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 2023

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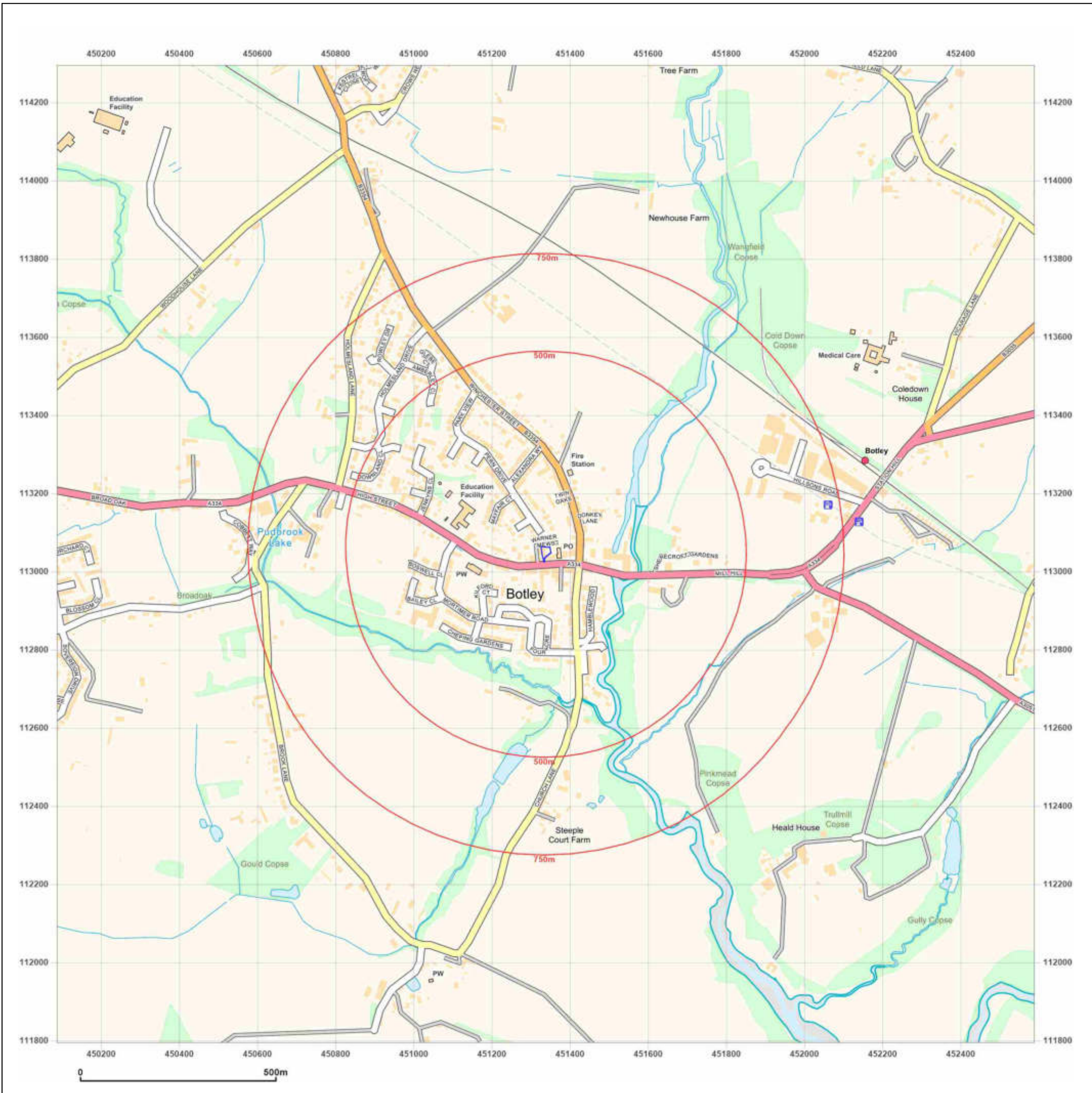


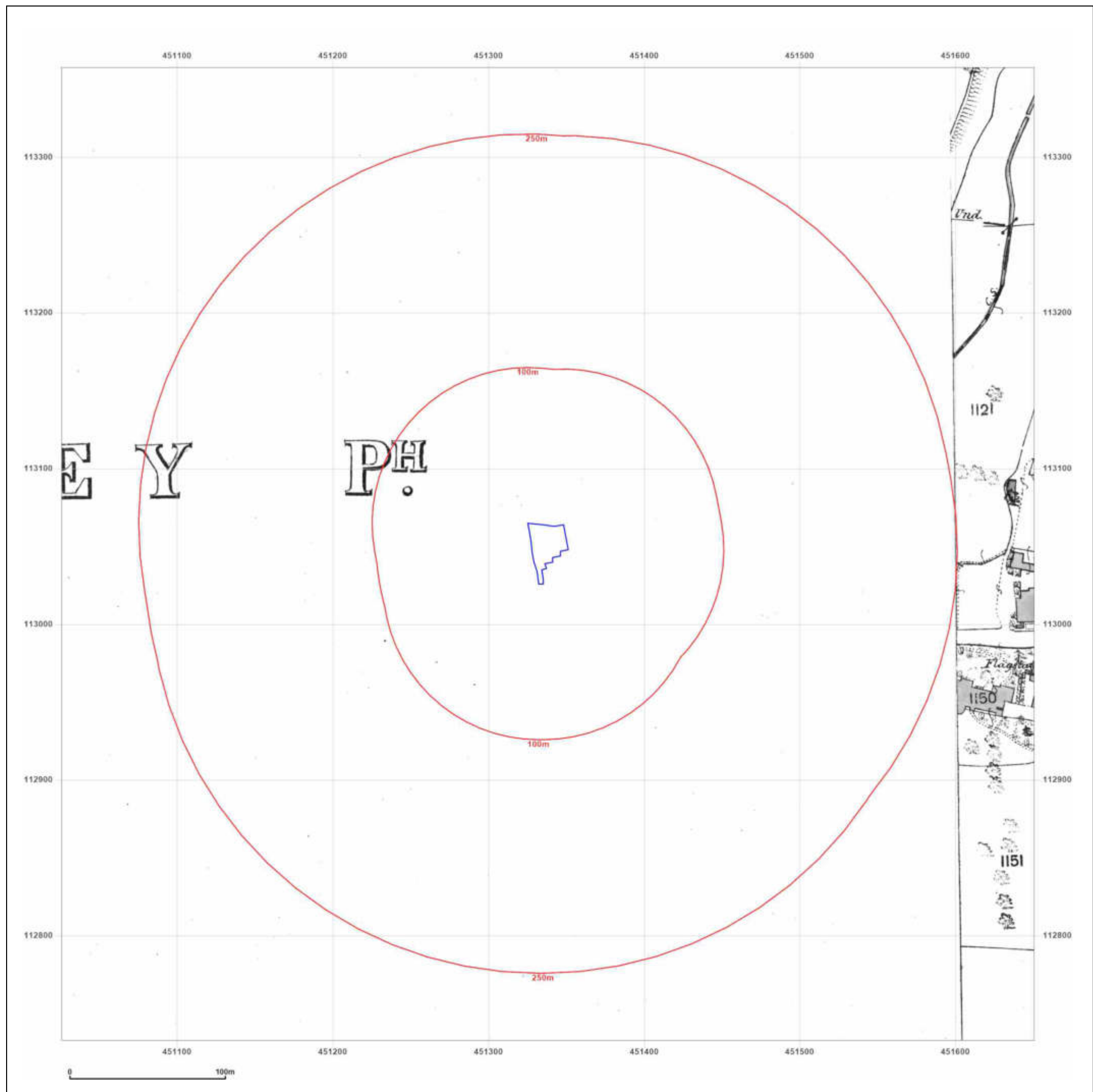
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Grid Ref: 451338, 113045

Map Name: County Series
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Printed at: 1:2,500

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Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1868-1869

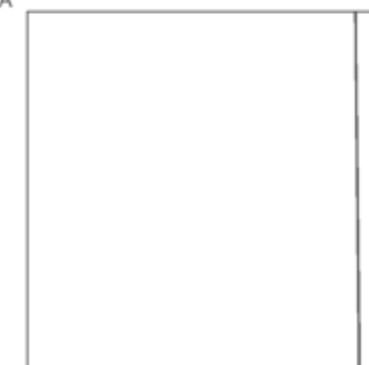
Scale: 1:2,500

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Edition N/A
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Levelled N/A

Surveyed 1869
Revised 1869
Edition N/A
Copyright N/A
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Production date: 20 February 2023

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Site Details:

20A High Street, Botley, High
Street, Botley, Southampton,
SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1896

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1896
Edition N/A
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Surveyed 1896
Revised 1896
Edition N/A
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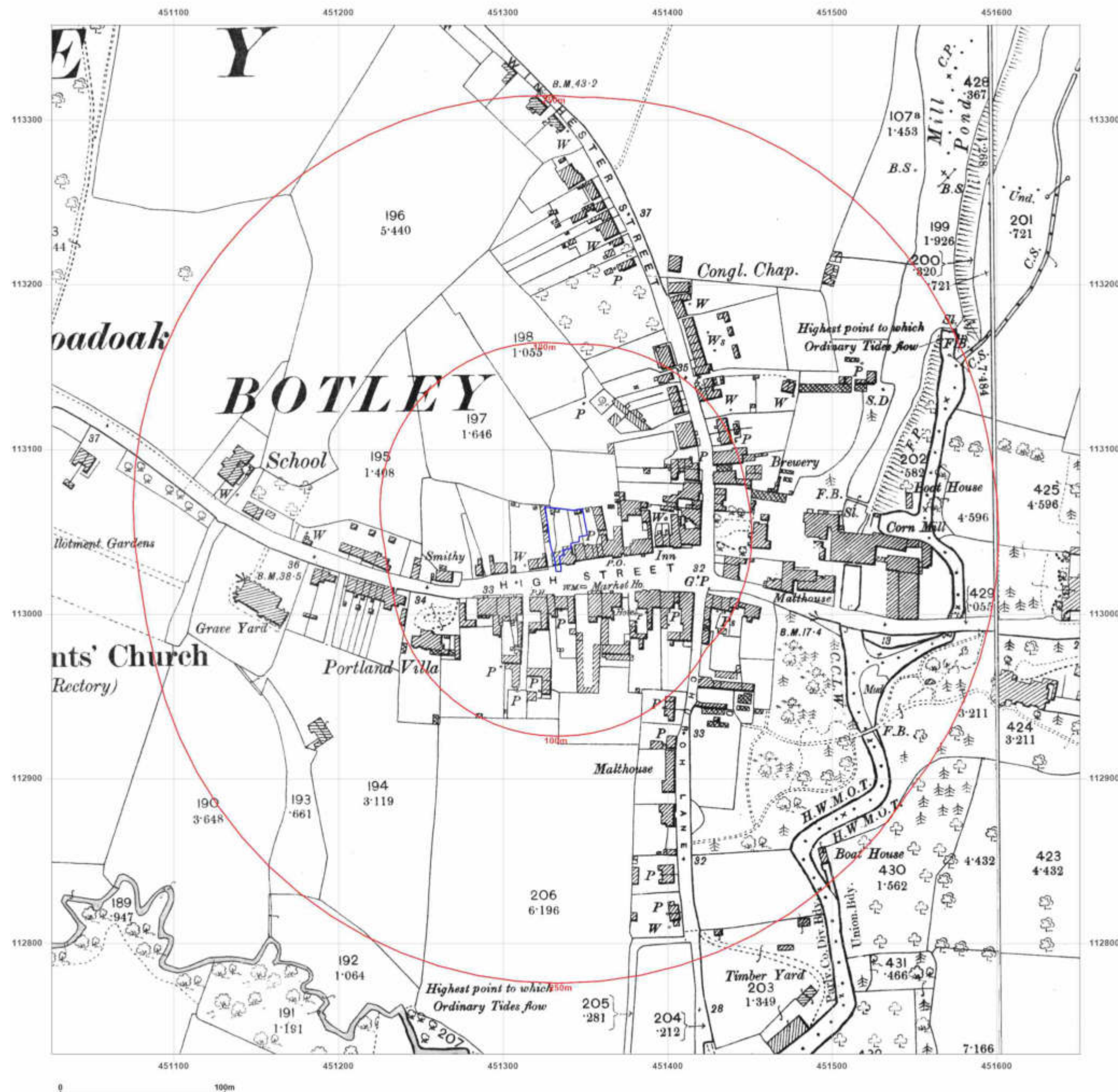


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Site Details:

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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

Map date: 1909

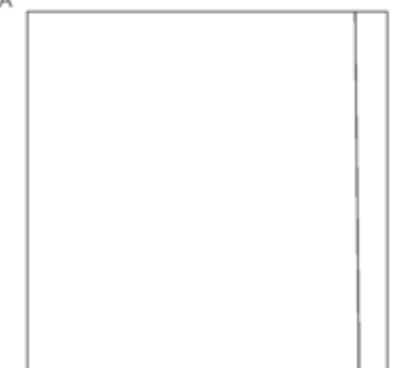
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Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1909
Revised 1909
Edition N/A
Copyright N/A
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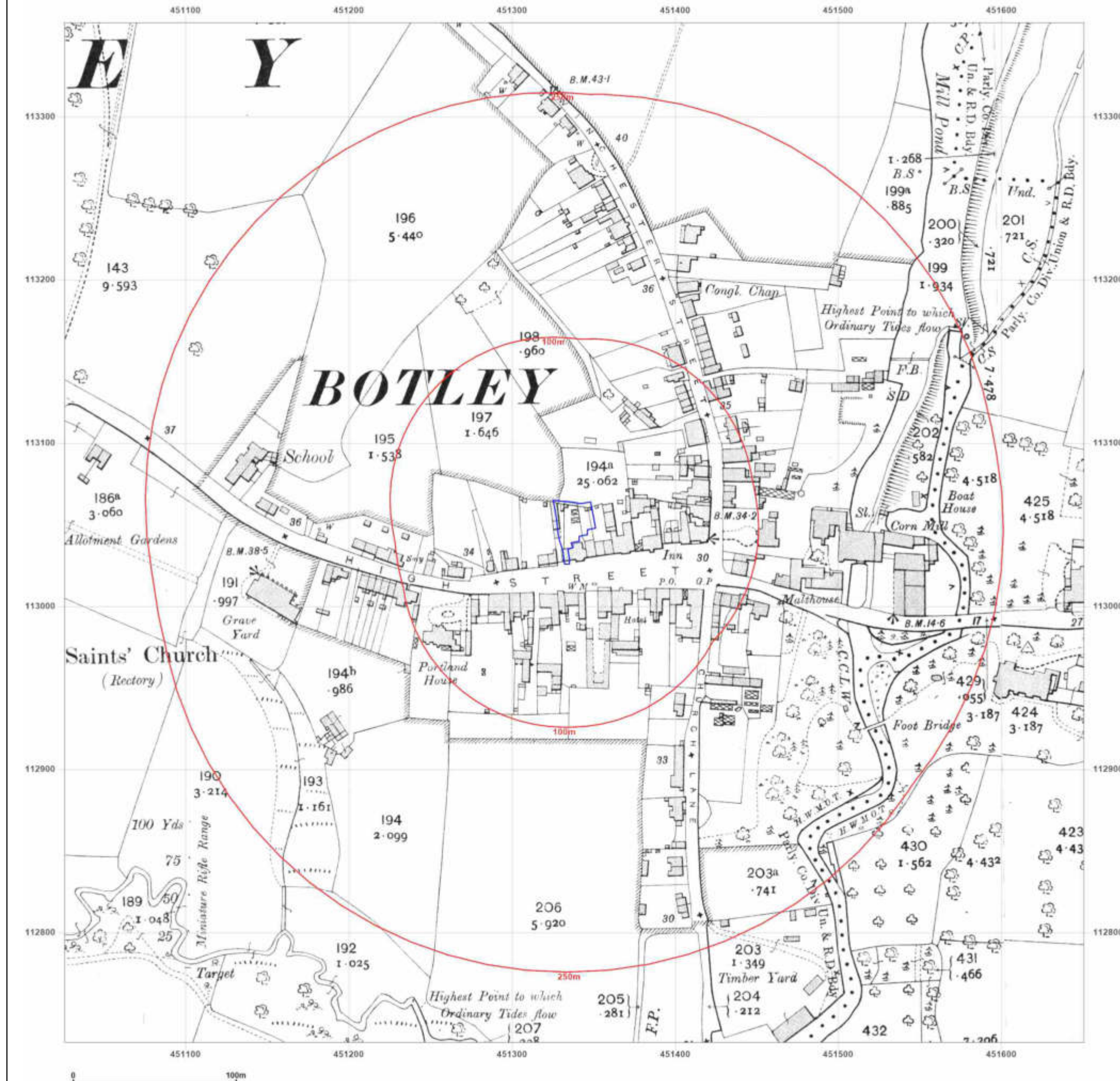


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Site Details:

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: County Series

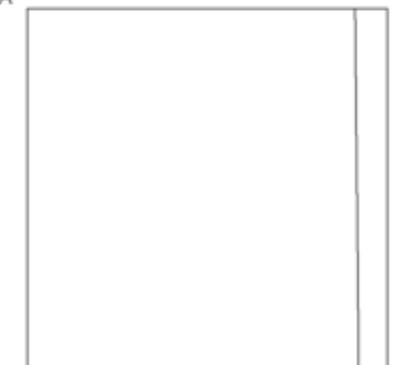
Map date: 1940

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1940
Revised 1940
Edition N/A
Copyright N/A
Levelled N/A



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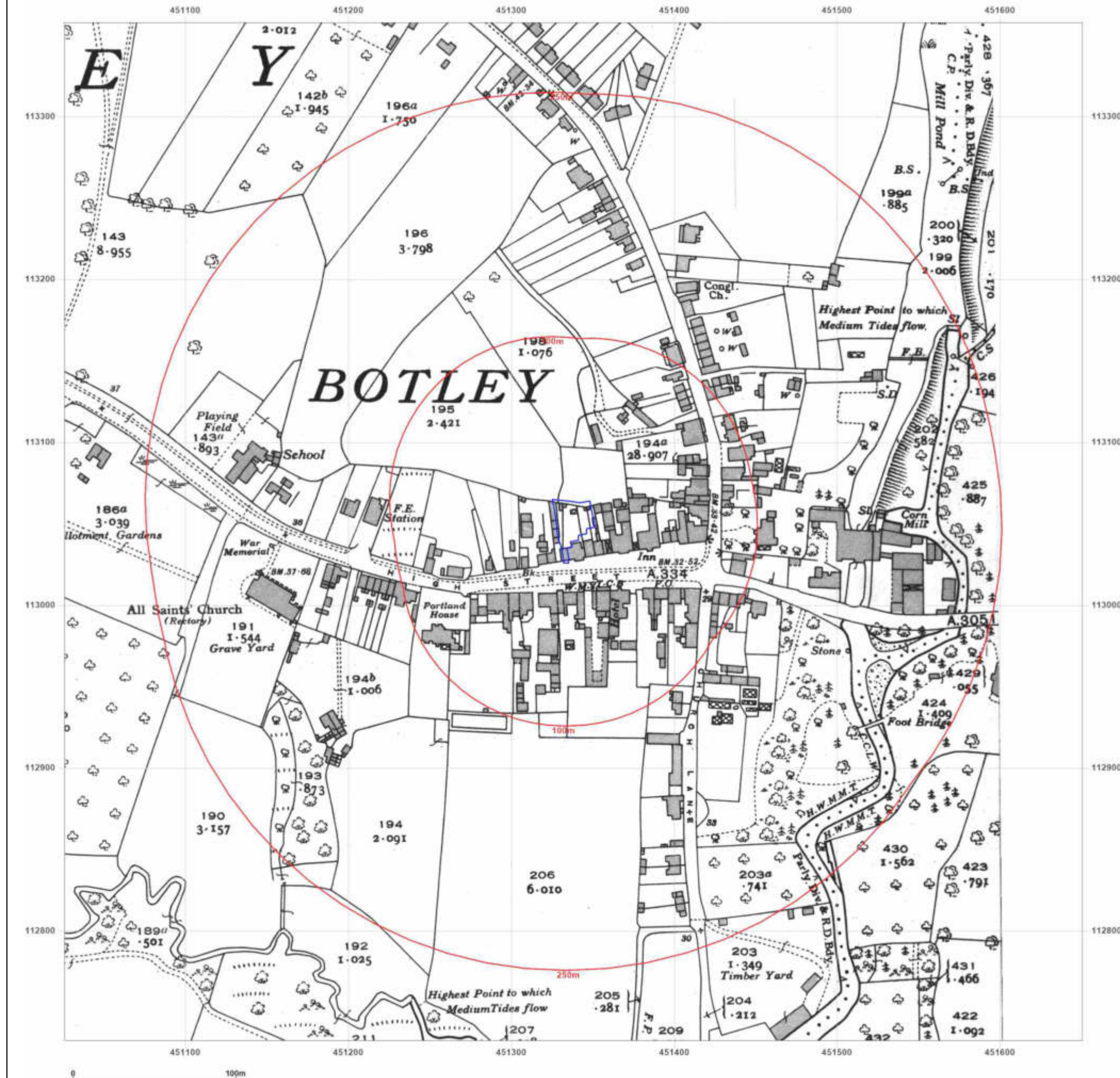


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Site Details:

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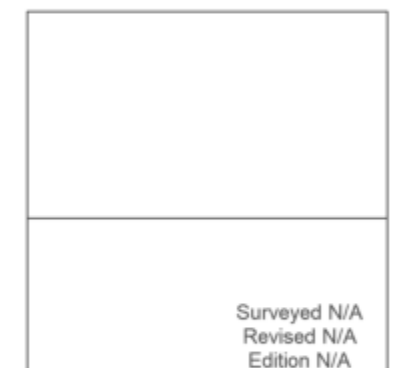
Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1959

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Site Details:

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1964
 Revised 1964
 Edition N/A
 Copyright 1965
 Levelled 1959

Surveyed 1964
 Revised 1964
 Edition N/A
 Copyright 1965
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Site Details:

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1965

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
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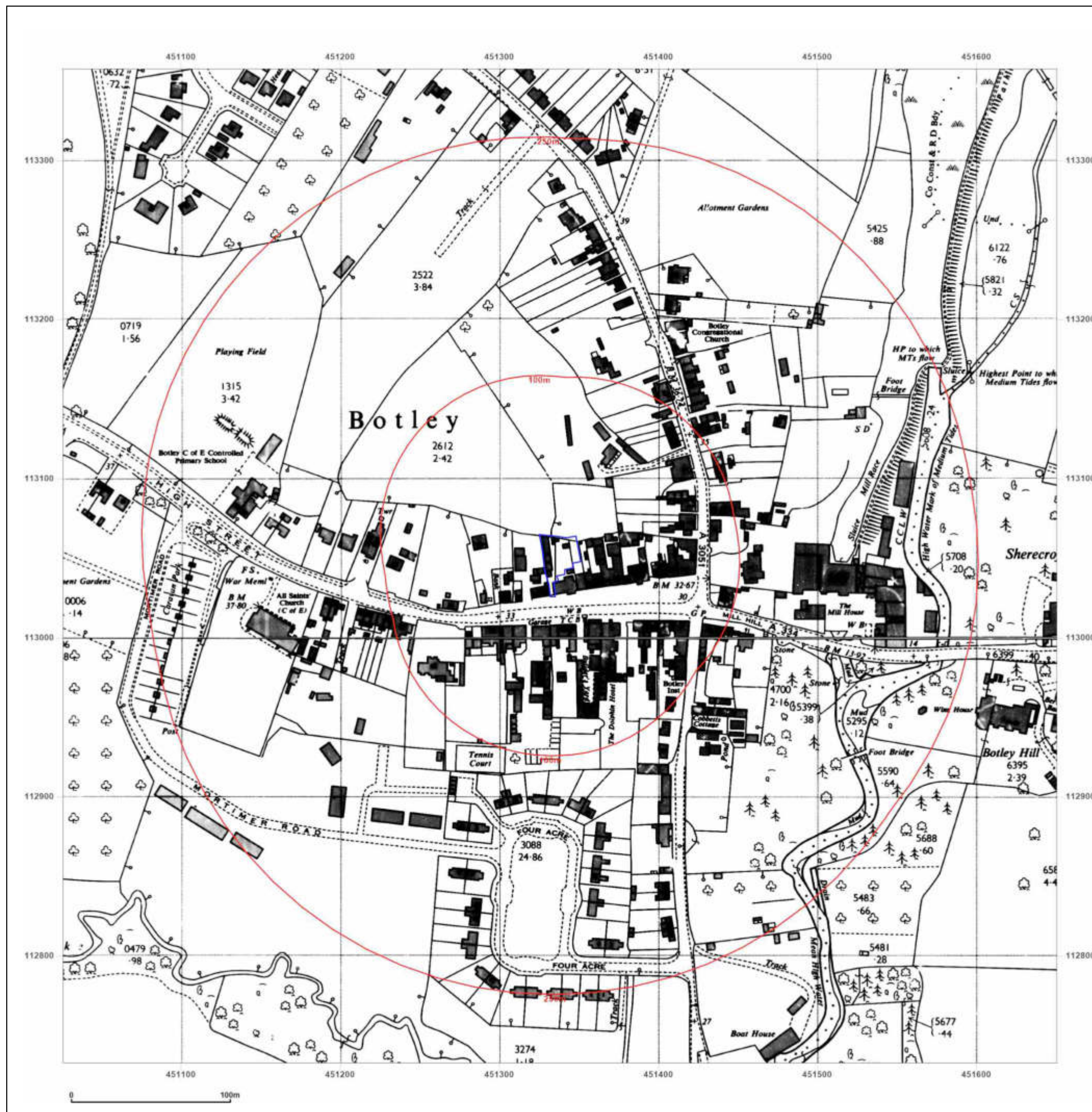


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Site Details:

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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Revised N/A
Edition N/A
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Site Details:

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SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1976

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised N/A
Edition N/A
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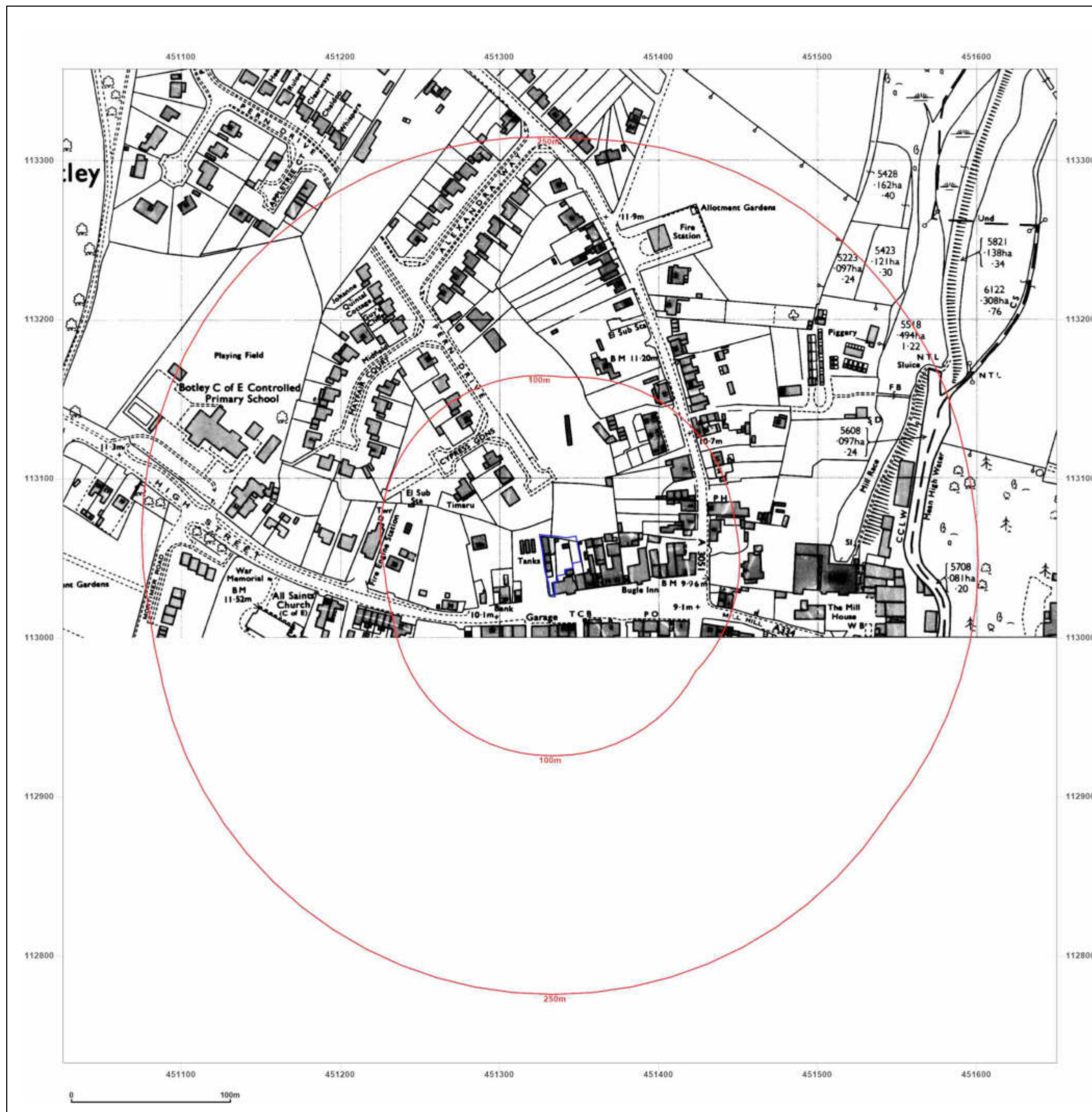


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Site Details:

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Street, Botley, Southampton,
SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1977

Scale: 1:2,500

Printed at: 1:2,500



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Revised N/A
Edition N/A
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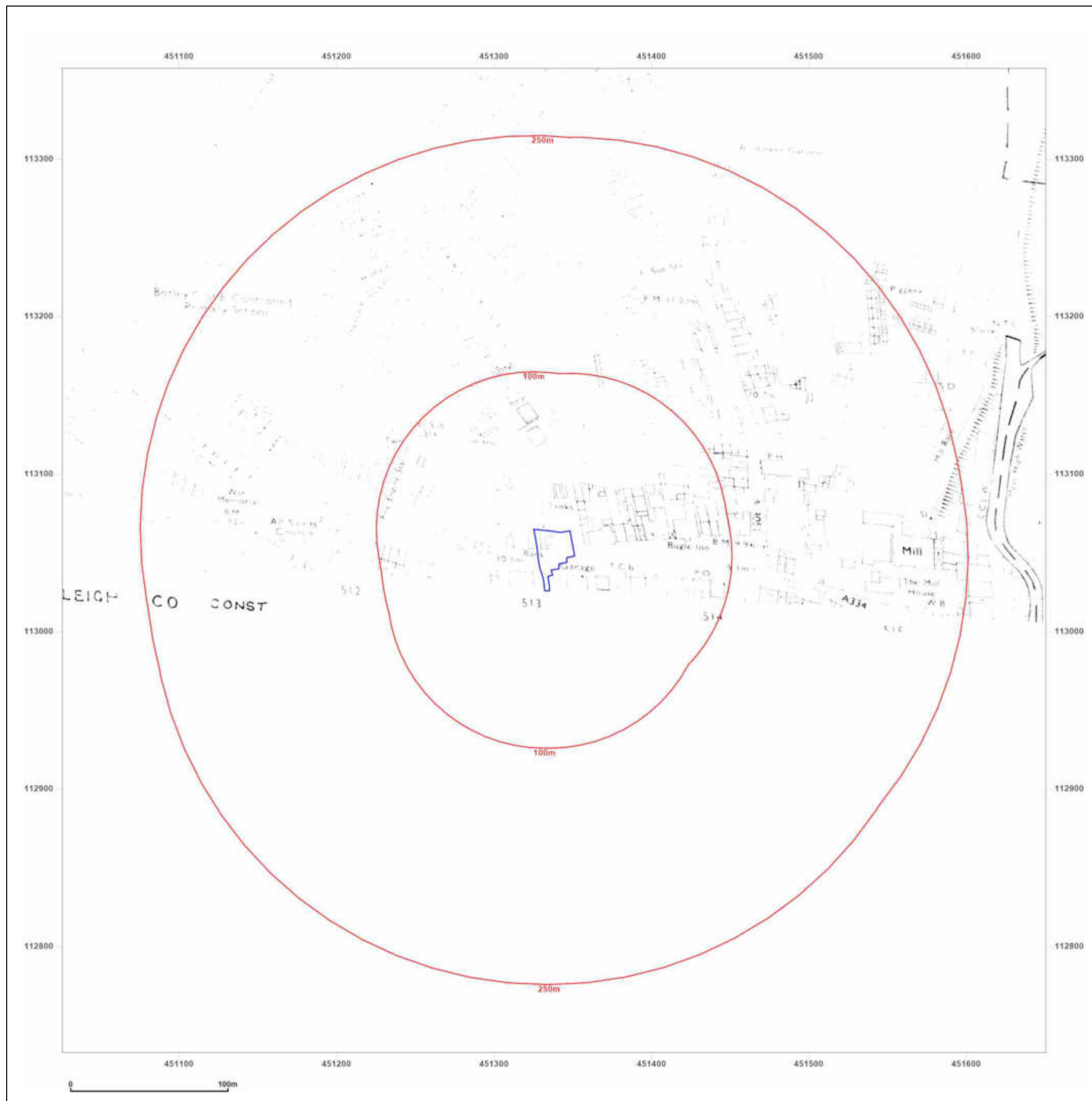


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Site Details:

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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

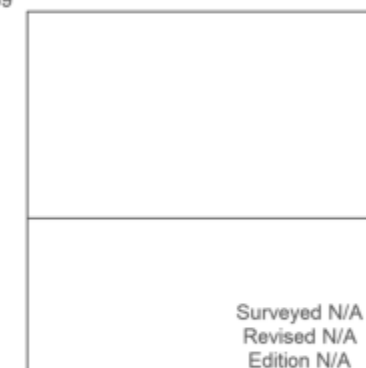
Map date: 1976-1979

Scale: 1:2,500

Printed at: 1:2,500



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 Revised 1975
 Edition N/A
 Copyright 1976
 Levelled 1959



Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A



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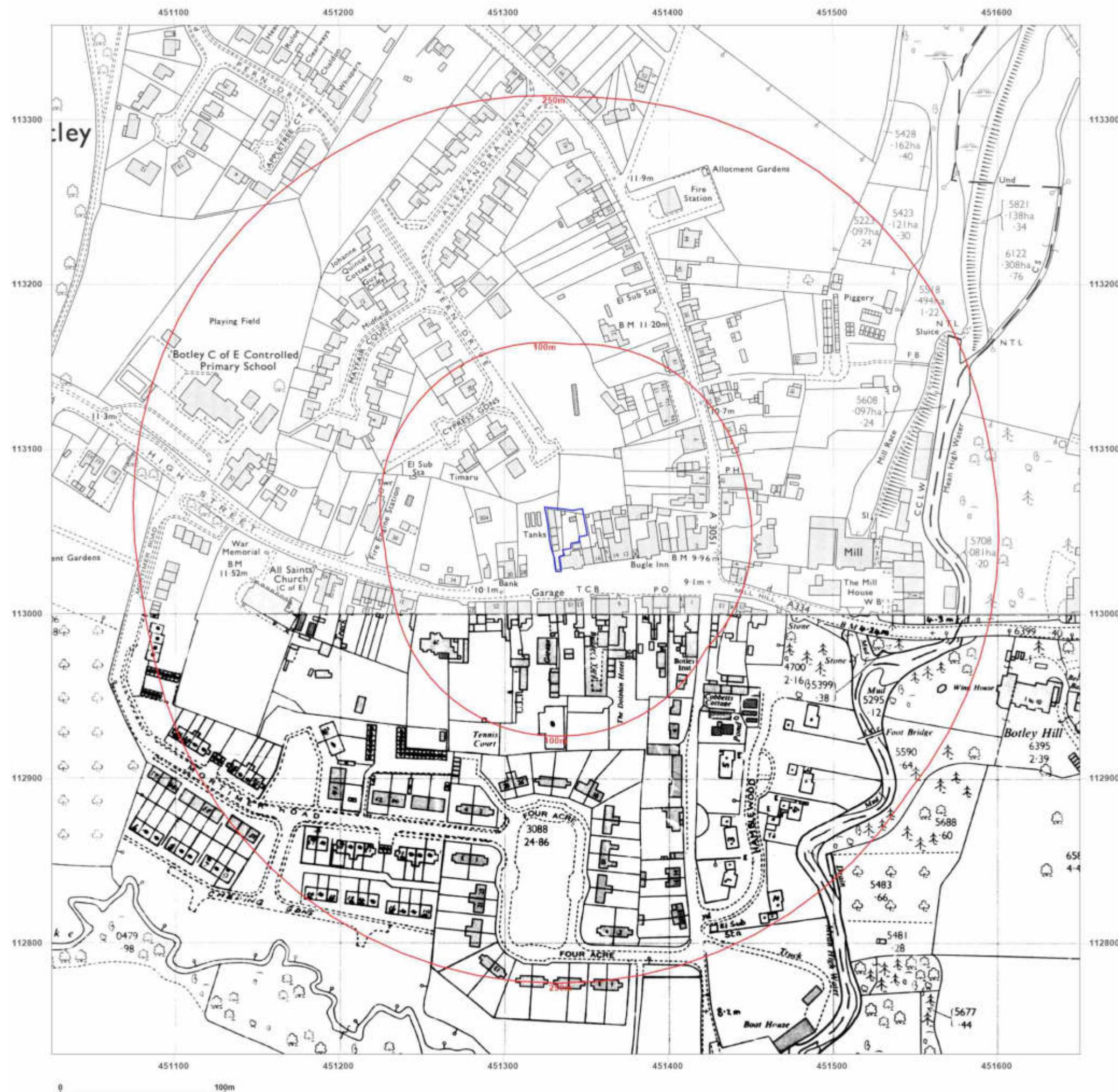


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Site Details:

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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1987

Scale: 1:2,500

Printed at: 1:2,500



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Revised N/A
Edition N/A
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Surveyed 1959
Revised 1986
Edition N/A
Copyright 1987
Levelled 1959



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Site Details:

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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
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 Edition N/A
 Copyright 1993
 Levelled N/A

Surveyed N/A
 Revised N/A
 Edition N/A
 Copyright 1993
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Site Details:

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SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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Site Details:

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Street, Botley, Southampton,
SO30 2EA

Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: National Grid

Map date: 1993

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1993
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A



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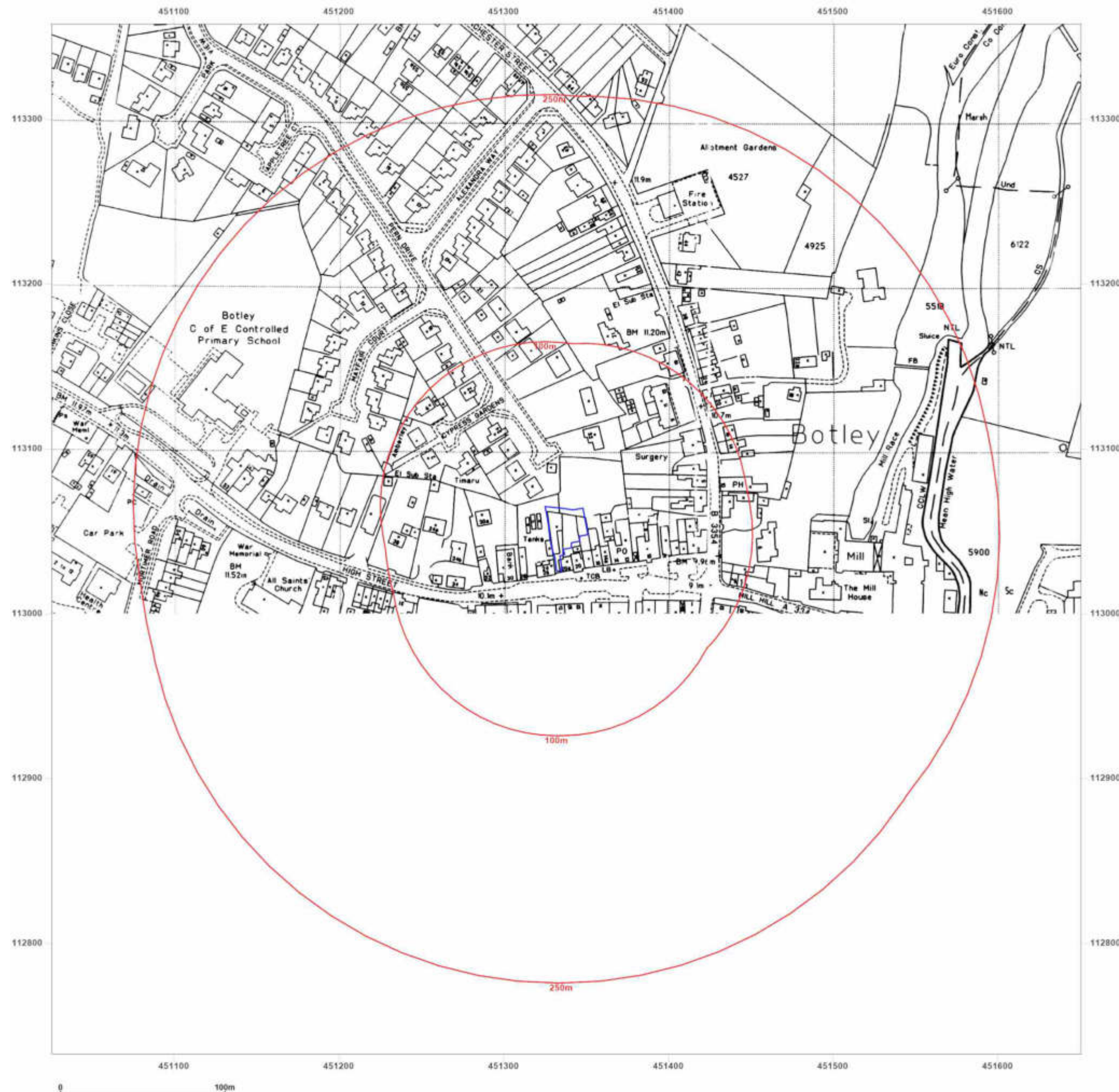


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Site Details:

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Client Ref: EMS_846017_1045614
Report Ref: EMS-846017_1085621
Grid Ref: 451338, 113045

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Production date: 20 February 2023

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Appendix C

Environmental Data Reports

20A High Street, Botley, High Street, Botley, Southampton, SO30 2EA

Order Details

Date: 20/02/2023
Your ref: EMS_846017_1045614
Our Ref: EMS-846017_1085622

Site Details

Location: 451337 113050
Area: 0.05 ha
Authority: [Eastleigh Borough Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.13 groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	0	1	16	8	-
16	1.2	<u>Historical tanks</u>	0	2	1	4	-
16	1.3	<u>Historical energy features</u>	0	0	5	1	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	<u>Historical garages</u>	0	4	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	<u>Historical industrial land uses</u>	0	1	18	11	-
21	2.2	<u>Historical tanks</u>	0	3	1	5	-
21	2.3	<u>Historical energy features</u>	0	0	13	2	-
22	2.4	Historical petrol stations	0	0	0	0	-
22	2.5	<u>Historical garages</u>	0	4	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
24	3.1	Active or recent landfill	0	0	0	0	-
24	3.2	Historical landfill (BGS records)	0	0	0	0	-
25	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
25	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
25	3.5	Historical waste sites	0	0	0	0	-
25	3.6	Licensed waste sites	0	0	0	0	-
25	3.7	<u>Waste exemptions</u>	0	0	1	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
27	4.1	<u>Recent industrial land uses</u>	0	2	14	-	-
29	4.2	Current or recent petrol stations	0	0	0	0	-
29	4.3	Electricity cables	0	0	0	0	-
29	4.4	Gas pipelines	0	0	0	0	-
29	4.5	Sites determined as Contaminated Land	0	0	0	0	-



29	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
30	4.7	Regulated explosive sites	0	0	0	0	-
30	4.8	Hazardous substance storage/usage	0	0	0	0	-
30	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
30	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
30	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
31	4.12	Radioactive Substance Authorisations	0	0	0	0	-
31	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	9	6	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
33	4.15	Pollutant release to public sewer	0	0	0	0	-
33	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	2	3	-
35	4.19	Pollution inventory substances	0	0	0	0	-
35	4.20	Pollution inventory waste transfers	0	0	0	0	-
35	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
36	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
38	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
39	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
40	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
40	5.5	Groundwater vulnerability- local information	None (within 0m)				
41	5.6	Groundwater abstractions	0	0	0	0	0
42	5.7	<u>Surface water abstractions</u>	0	0	0	0	8
44	5.8	Potable abstractions	0	0	0	0	0
44	5.9	Source Protection Zones	0	0	0	0	-
44	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
45	6.1	<u>Water Network (OS MasterMap)</u>	0	0	9	-	-



46	6.2	Surface water features	0	0	2	-	-
47	6.3	WFD Surface water body catchments	1	-	-	-	-
47	6.4	WFD Surface water bodies	0	0	1	-	-
47	6.5	WFD Groundwater bodies	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
49	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
49	7.2	Historical Flood Events	0	0	0	-	-
49	7.3	Flood Defences	0	0	0	-	-
50	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
50	7.5	Flood Storage Areas	0	0	0	-	-
51	7.6	Flood Zone 2	None (within 50m)				
51	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
52	8.1	Surface water flooding	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding					
54	9.1	Groundwater flooding	High (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
55	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	4
56	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	1
57	10.3	Special Areas of Conservation (SAC)	0	0	0	0	1
57	10.4	Special Protection Areas (SPA)	0	0	0	0	1
58	10.5	National Nature Reserves (NNR)	0	0	0	0	0
58	10.6	Local Nature Reserves (LNR)	0	0	0	0	1
58	10.7	Designated Ancient Woodland	0	0	0	0	18
59	10.8	Biosphere Reserves	0	0	0	0	0
59	10.9	Forest Parks	0	0	0	0	0
60	10.10	Marine Conservation Zones	0	0	0	0	0
60	10.11	Green Belt	0	0	0	0	0
60	10.12	Proposed Ramsar sites	0	0	0	0	0



60	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
60	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
61	10.15	Nitrate Sensitive Areas	0	0	0	0	0
61	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	0
62	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
63	10.18	<u>SSSI Units</u>	0	0	0	0	13
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
70	11.1	World Heritage Sites	0	0	0	-	-
71	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
71	11.3	National Parks	0	0	0	-	-
71	11.4	<u>Listed Buildings</u>	0	7	22	-	-
73	11.5	<u>Conservation Areas</u>	1	0	1	-	-
73	11.6	Scheduled Ancient Monuments	0	0	0	-	-
73	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
74	12.1	<u>Agricultural Land Classification</u>	Grade 1 (within 250m)				
75	12.2	Open Access Land	0	0	0	-	-
75	12.3	Tree Felling Licences	0	0	0	-	-
75	12.4	<u>Environmental Stewardship Schemes</u>	0	0	1	-	-
76	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
77	13.1	<u>Priority Habitat Inventory</u>	0	0	10	-	-
78	13.2	Habitat Networks	0	0	0	-	-
78	13.3	Open Mosaic Habitat	0	0	0	-	-
78	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
80	14.1	<u>10k Availability</u>	Identified (within 500m)				
81	14.2	Artificial and made ground (10k)	0	0	0	0	-
82	14.3	<u>Superficial geology (10k)</u>	1	0	1	1	-

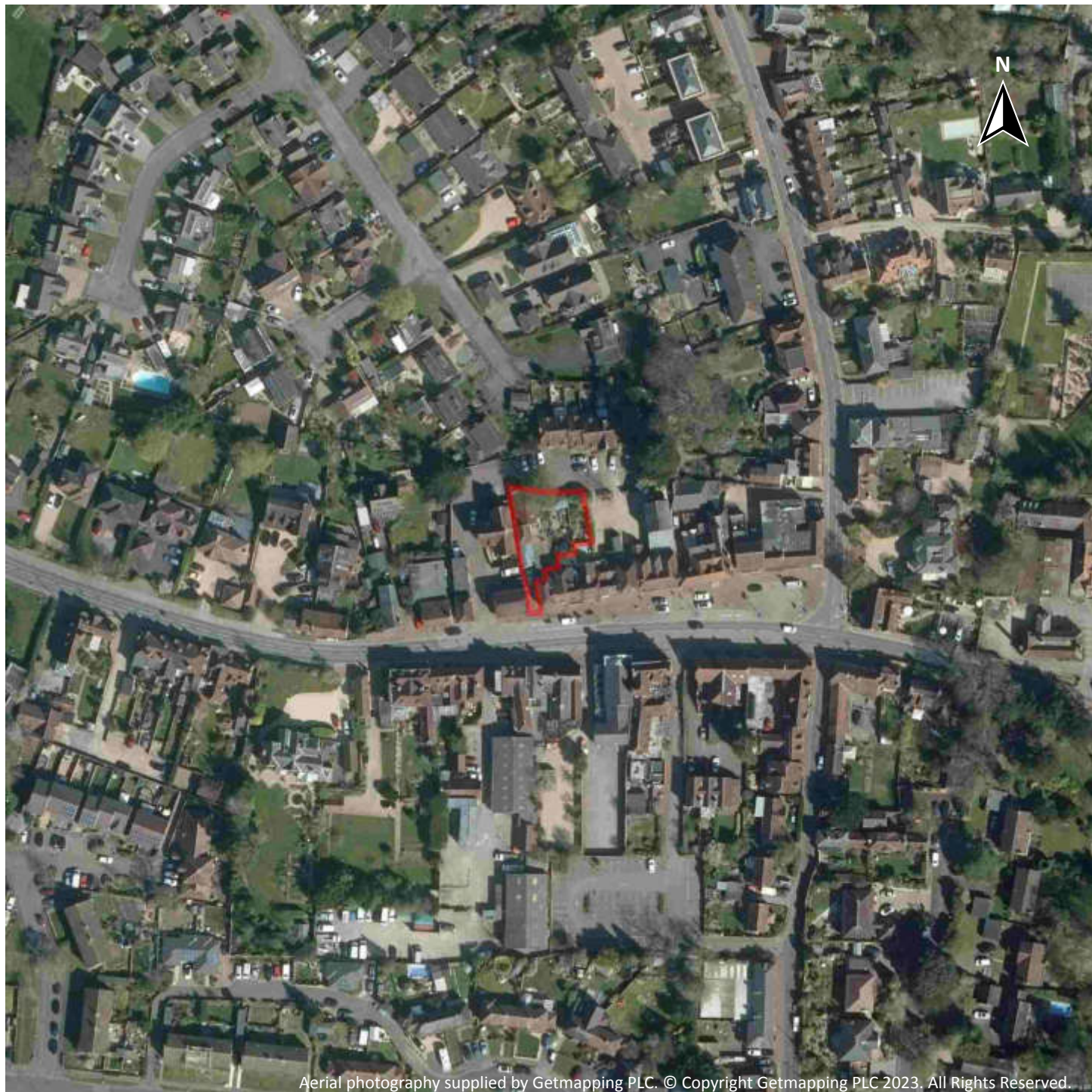
83	14.4	Landslip (10k)	0	0	0	0	-
84	14.5	<u>Bedrock geology (10k)</u>	1	0	1	0	-
85	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
86	15.1	<u>50k Availability</u>	Identified (within 500m)				
87	15.2	Artificial and made ground (50k)	0	0	0	0	-
87	15.3	Artificial ground permeability (50k)	0	0	-	-	-
88	15.4	<u>Superficial geology (50k)</u>	1	0	1	1	-
89	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
89	15.6	Landslip (50k)	0	0	0	0	-
89	15.7	Landslip permeability (50k)	None (within 50m)				
90	15.8	<u>Bedrock geology (50k)</u>	1	0	1	0	-
91	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
91	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
92	16.1	<u>BGS Boreholes</u>	0	1	7	-	-
Page	Section	Natural ground subsidence					
94	17.1	<u>Shrink swell clays</u>	Low (within 50m)				
95	17.2	<u>Running sands</u>	Very low (within 50m)				
96	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
97	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
98	17.5	<u>Landslides</u>	Very low (within 50m)				
99	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
100	18.1	Natural cavities	0	0	0	0	-
101	18.2	BritPits	0	0	0	0	-
101	18.3	<u>Surface ground workings</u>	0	0	8	-	-
101	18.4	Underground workings	0	0	0	0	0
102	18.5	Historical Mineral Planning Areas	0	0	0	0	-



102	18.6	Non-coal mining	0	0	0	0	0
102	18.7	Mining cavities	0	0	0	0	0
102	18.8	JPB mining areas	None (within 0m)				
102	18.9	Coal mining	None (within 0m)				
103	18.10	Brine areas	None (within 0m)				
103	18.11	Gypsum areas	None (within 0m)				
103	18.12	Tin mining	None (within 0m)				
103	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>104</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>106</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	1	2	-	-	-
106	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
106	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
107	21.1	Underground railways (London)	0	0	0	-	-
107	21.2	Underground railways (Non-London)	0	0	0	-	-
107	21.3	Railway tunnels	0	0	0	-	-
107	21.4	Historical railway and tunnel features	0	0	0	-	-
107	21.5	Royal Mail tunnels	0	0	0	-	-
108	21.6	Historical railways	0	0	0	-	-
108	21.7	Railways	0	0	0	-	-
108	21.8	Crossrail 1	0	0	0	0	-
108	21.9	Crossrail 2	0	0	0	0	-
108	21.10	HS2	0	0	0	0	-



Recent aerial photograph



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Capture Date: 05/04/2020

Site Area: 0.05ha



Recent site history - 2017 aerial photograph



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Capture Date: 21/06/2017

Site Area: 0.05ha



Recent site history - 2013 aerial photograph



Capture Date: 04/06/2013

Site Area: 0.05ha



Recent site history - 2005 aerial photograph



Capture Date: 23/06/2005

Site Area: 0.05ha



Recent site history - 1999 aerial photograph

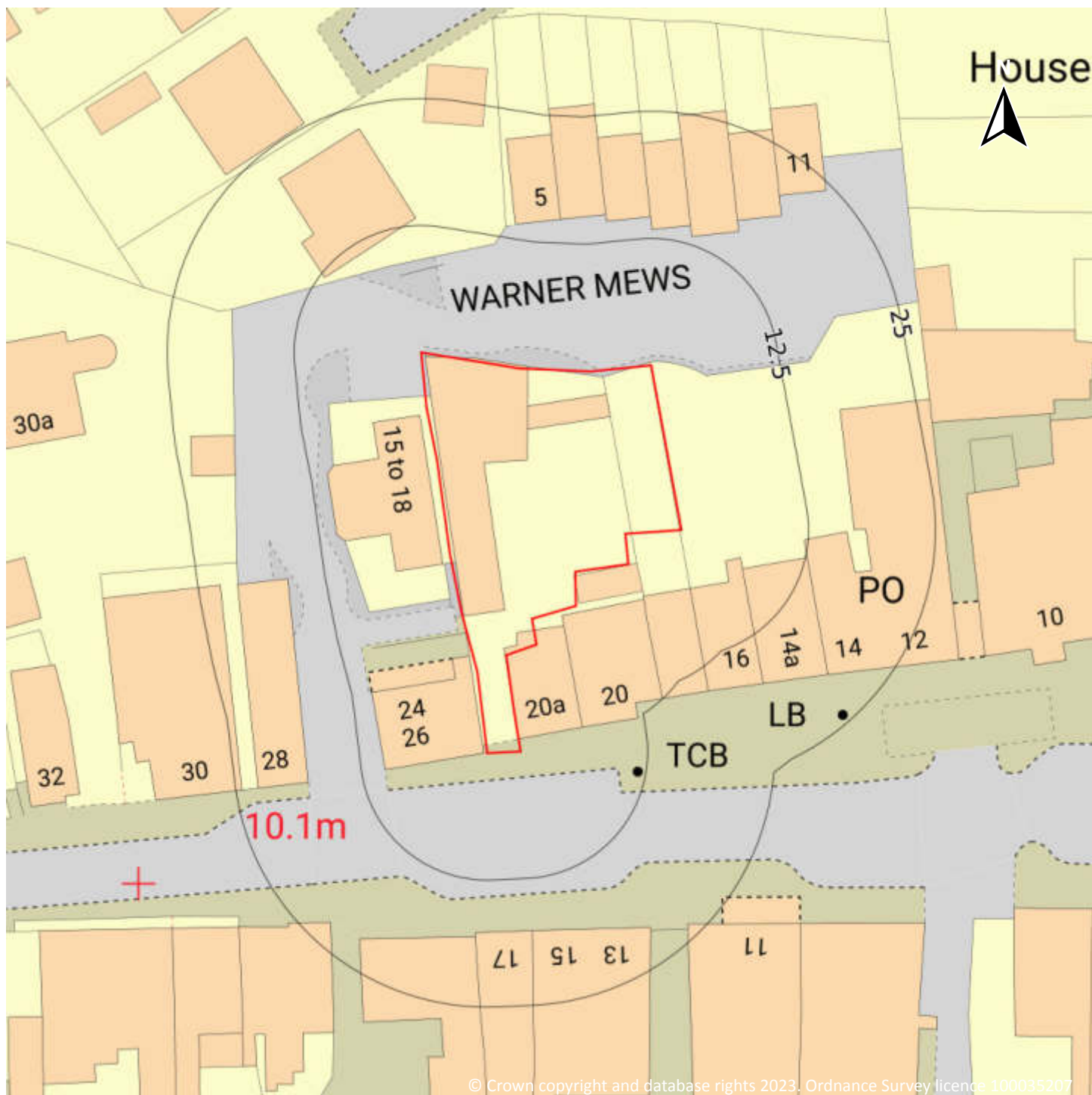


Capture Date: 29/07/1999

Site Area: 0.05ha



OS MasterMap site plan



Site Area: 0.05ha



1 Past land use



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m

25

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	42m SW	Smithy	1897	1875500



ID	Location	Land use	Dates present	Group ID
A	76m W	Smithy	1895	1875499
B	79m E	Corn Mill	1868	1861872
B	80m E	Brewery	1897	1868583
1	119m SE	Malthouse	1897	1868626
B	128m E	Unspecified Mill	1957	1941292
B	131m E	Unspecified Mill	1895	1952868
B	133m E	Unspecified Mill	1968 - 1987	1959323
B	133m E	Unspecified Mill	1897	1952402
4	147m W	Grave Yard	1868	1866051
D	156m E	Mill Pond	1868	1943580
5	156m E	Mill Pond	1897 - 1910	1967900
D	161m E	Mill Pond	1895 - 1897	1920097
6	173m N	Fire Station	1987	1874219
7	188m W	Unspecified Heaps	1968	1864406
E	208m S	Smithy	1868	1875492
F	238m S	Timber Yard	1868	1932816
8	268m SW	Miniature Rifle Range	1910	1883281
F	291m SE	Boat House	1987	1867232
G	305m S	Unspecified Works	1987	1860099
G	305m S	Boat Building Yard	1968	1883767
9	324m N	Saw Pit	1868	1862601
H	339m E	Cuttings	1868	1881872
10	391m W	Telephone Exchange	1987	1870351
12	497m SE	Unspecified Ground Workings	1895	1851469

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

7

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	4m NW	Tanks	1975	316398
A	4m NW	Tanks	1993 - 1996	316320
B	126m E	Unspecified Tank	1909	302893
H	340m E	Unspecified Tank	1909	302892
H	347m E	Unspecified Tank	1896	302891
H	352m E	Unspecified Tank	1909	302890
H	356m E	Unspecified Tank	1964 - 1975	326480

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

6

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
C	89m W	Electricity Substation	1975	188282
C	95m W	Electricity Substation	1993 - 1996	209335
2	131m N	Electricity Substation	1975 - 1996	197175
3	137m SW	Electricity Substation	1987 - 1993	204276



ID	Location	Land use	Dates present	Group ID
E	233m S	Electricity Substation	1959 - 1993	209417
11	413m NW	Electricity Substation	1993 - 1996	202406

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

4

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 14**

ID	Location	Land use	Dates present	Group ID
A	18m S	Garage	1964	61465
A	18m S	Garage	1975	63166
A	26m S	Garage	1959	63286
A	41m S	Garage	1964	62671

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



- Site Outline
- Search buffers in metres (m)
- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

2.1 Historical industrial land uses

Records within 500m

30

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
A	42m SW	Smithy	1897	1875500
A	76m W	Smithy	1895	1875499
B	79m E	Corn Mill	1868	1861872

ID	Location	Land Use	Date	Group ID
B	80m E	Brewery	1897	1868583
1	119m SE	Malthouse	1897	1868626
B	128m E	Unspecified Mill	1957	1941292
B	131m E	Unspecified Mill	1895	1952868
B	133m E	Unspecified Mill	1987	1959323
B	133m E	Unspecified Mill	1968	1959323
B	133m E	Unspecified Mill	1897	1952402
2	147m W	Grave Yard	1868	1866051
3	156m E	Mill Pond	1868	1943580
F	156m E	Mill Pond	1910	1967900
F	161m E	Mill Pond	1895	1920097
4	173m N	Fire Station	1987	1874219
5	188m W	Unspecified Heaps	1968	1864406
F	198m NE	Mill Pond	1897	1967900
G	208m S	Smithy	1868	1875492
G	238m S	Timber Yard	1868	1932816
6	268m SW	Miniature Rifle Range	1910	1883281
G	291m SE	Boat House	1987	1867232
H	305m S	Unspecified Works	1987	1860099
H	305m S	Boat Building Yard	1968	1883767
H	307m S	Timber Yard	1868	1932816
7	324m N	Saw Pit	1868	1862601
I	339m E	Cuttings	1868	1881872
J	351m NE	Mill Pond	1895	1920097
J	357m NE	Mill Pond	1897	1920097
8	391m W	Telephone Exchange	1987	1870351
9	497m SE	Unspecified Ground Workings	1895	1851469

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

9

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
A	4m NW	Tanks	1975	316398
A	4m NW	Tanks	1993	316320
A	4m NW	Tanks	1996	316320
B	126m E	Unspecified Tank	1909	302893
I	340m E	Unspecified Tank	1909	302892
I	347m E	Unspecified Tank	1896	302891
I	352m E	Unspecified Tank	1909	302890
I	356m E	Unspecified Tank	1964	326480
I	356m E	Unspecified Tank	1975	326480

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

15

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
C	89m W	Electricity Substation	1975	188282
C	95m W	Electricity Substation	1993	209335
C	95m W	Electricity Substation	1996	209335
D	131m N	Electricity Substation	1975	197175
D	131m N	Electricity Substation	1993	197175



ID	Location	Land Use	Date	Group ID
D	131m N	Electricity Substation	1996	197175
E	137m SW	Electricity Substation	1987	204276
E	139m SW	Electricity Substation	1993	204276
E	139m SW	Electricity Substation	1988	204276
G	233m S	Electricity Substation	1959	209417
G	233m S	Electricity Substation	1987	209417
G	233m S	Electricity Substation	1988	209417
G	233m S	Electricity Substation	1993	209417
K	413m NW	Electricity Substation	1993	202406
K	413m NW	Electricity Substation	1996	202406

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	4
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
A	18m S	Garage	1964	61465
A	18m S	Garage	1975	63166
A	26m S	Garage	1959	63286

ID	Location	Land Use	Date	Group ID
A	41m S	Garage	1964	62671

This data is sourced from Ordnance Survey / Groundsure.



3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m**0**

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m**0**

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m**1**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 24**

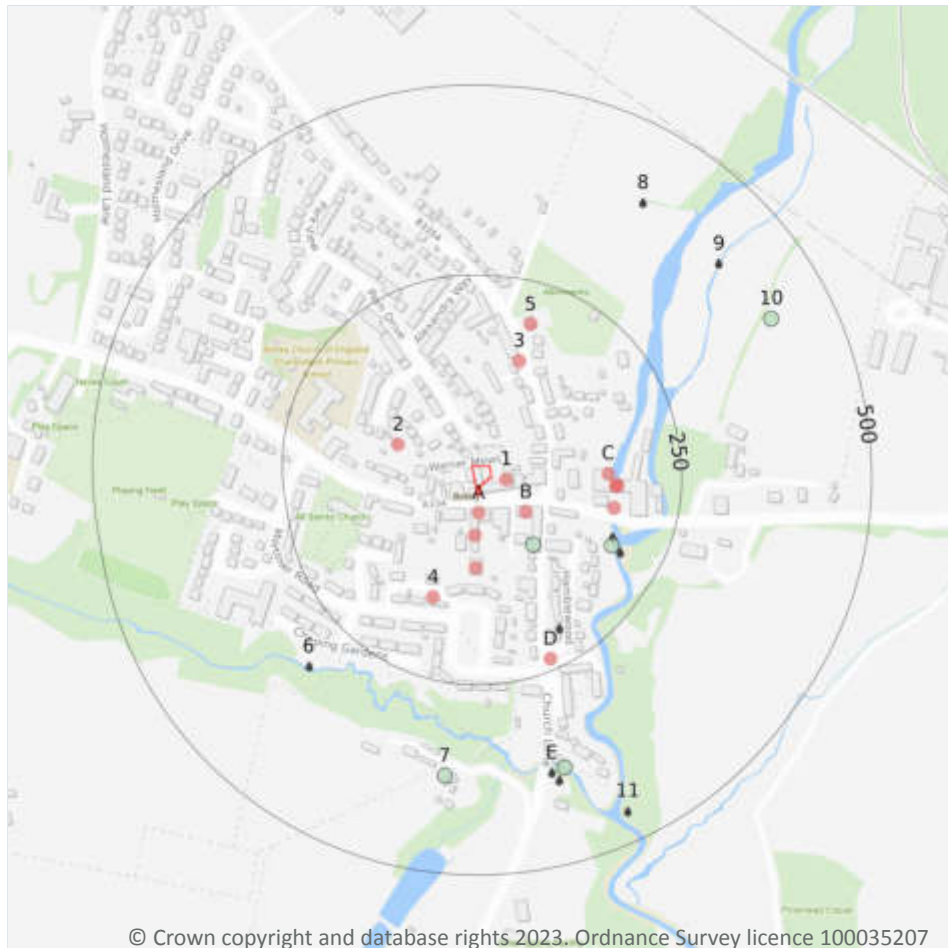
ID	Location	Site	Reference	Category	Sub-Category	Description
1	91m E	140, WINCHESTER STREET, BOTLEY, SO30 2AA	WEX248017	Using waste exemption	Not on a farm	Use of waste in construction



This data is sourced from the Environment Agency and Natural Resources Wales.



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

16

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Company	Address	Activity	Category
1	19m E	Adaptiverf Ltd	12a, High Street, Botley, Hampshire, SO30 2EA	Electrical and Electronic Engineers	Engineering Services
A	24m S	Birak I T Ltd	17, High Street, Botley, Hampshire, SO30 2EA	Electrical Equipment Repair and Servicing	Repair and Servicing

ID	Location	Company	Address	Activity	Category
A	54m S	Blenheim Oak Auto Repairs	19a, High Street, Botley, Hampshire, SO30 2EA	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	63m SE	Hannah Elizabeth Bridal Boutique	5, High Street, Botley, Hampshire, SO30 2EA	Clothing, Components and Accessories	Consumer Products
A	96m S	Hutfields of Botley	19c, High Street, Botley, Hampshire, SO30 2EA	Vehicle Repair, Testing and Servicing	Repair and Servicing
2	101m W	Electricity Sub Station	Hampshire, SO30	Electrical Features	Infrastructure and Facilities
3	144m N	Electricity Sub Station	Hampshire, SO30	Electrical Features	Infrastructure and Facilities
4	147m S	Electricity Sub Station	Hampshire, SO30	Electrical Features	Infrastructure and Facilities
C	153m E	Inside Time	Botley Mills, Mill Hill, Botley, Hampshire, SO30 2GB	Published Goods	Industrial Products
C	164m E	Botley Mills	Botley, Southampton, Hampshire, SO30 2GB	Animal Feeds, Pet Foods, Hay and Straw	Foodstuffs
C	165m E	Wedeman Consulting	Craft Unit 4, Botley Mills, Mill Hill, Botley, Hampshire, SO30 2GB	Civil Engineers	Engineering Services
C	165m E	The Gun Shop	Botley Mills, Mill Hill, Botley, Hampshire, SO30 2GB	Arms and Ammunition	Industrial Products
C	165m E	Manta Maritime Ltd	Botley Mills, Mill Hill, Botley, Hampshire, SO30 2GB	Marine Engineers and Services	Engineering Services
C	166m E	Botley Mills Craft and Business Centre	Hampshire, SO30	Business Parks and Industrial Estates	Industrial Features
5	194m N	Botley Fire Station	Winchester Street, Botley, Hampshire, SO30 2EB	Fire Brigade Stations	Central and Local Government
D	235m S	Electricity Sub Station	Hampshire, SO30	Electrical Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m**0**

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m**0**

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m**0**

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m**0**

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m**0**

Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

Records of the storage, use, accumulation and disposal of radioactive substances regulated under the Radioactive Substances Act 1993.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.13 Licensed Discharges to controlled waters

Records within 500m

15

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Address	Details	
C	176m SE	CHURCH LANE, BOTLEY HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: W00295 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/11/1978 Effective Date: 07/11/1978 Revocation Date: -
C	176m SE	CHURCH LANE PUMPING STATION, CHURCH LANE P.S, BOTLEY HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: W00296 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 07/11/1978 Effective Date: 07/11/1978 Revocation Date: -
C	176m SE	CHURCH LANE, BOTLEY, CHURCH LANE, BOTLEY, HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00317 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/09/1989 Effective Date: 13/09/1989 Revocation Date: 26/09/1993
C	176m SE	CHURCH LANE, BOTLEY, CHURCH LANE, BOTLEY, HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00317 Permit Version: 2 Receiving Water: SALINE ESTUARY	Status: CONSENT EXPIRED - TIME LIMIT Issue date: 27/09/1993 Effective Date: 27/09/1993 Revocation Date: 31/03/1994
C	176m SE	HAMBLEWOOD BOTLEY CSO, HAMBLEWOOD, BOTLEY, SOUTHAMPTON, HAMPSHIRE, SO30 2GX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A01364 Permit Version: 1 Receiving Water: RIVER HAMBLE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 04/05/2007 Effective Date: 04/05/2007 Revocation Date: 30/03/2018



ID	Location	Address	Details	
C	176m SE	HAMBLEWOOD BOTLEY CSO, HAMBLEWOOD, BOTLEY, SOUTHAMPTON, HAMPSHIRE, SO30 2GX	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A01364 Permit Version: 2 Receiving Water: RIVER HAMBLE	Status: VARIED UNDER EPR 2010 Issue date: 08/03/2018 Effective Date: 31/03/2018 Revocation Date: -
C	195m SE	WINCHESTER STREET, BOTLEY, WINCHESTER STREET, BOTLEY, HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00318 Permit Version: 1 Receiving Water: SALINE ESTUARY	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/09/1989 Effective Date: 13/09/1989 Revocation Date: 26/09/1993
C	195m SE	WINCHESTER STREET, BOTLEY, WINCHESTER STREET, BOTLEY, HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A00318 Permit Version: 2 Receiving Water: SALINE ESTUARY	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/09/1993 Effective Date: 27/09/1993 Revocation Date: 31/03/1994
D	204m SE	IVY COTTAGE, CHURCH LANE, BOTLEY HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: H01371 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 14/10/1965 Effective Date: 14/10/1965 Revocation Date: 31/03/1997
6	316m SW	MORTIMER ROAD, BOTLEY HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P00386 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: 12/02/1986 Effective Date: 12/02/1986 Revocation Date: 31/03/1997
E	377m S	CHURCH LANE BOTLEY CEO, CHURCH LANE, HAMPSHIRE, SO30 2UG	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: A01423 Permit Version: 1 Receiving Water: RIVER HAMBLE	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/04/2007 Effective Date: 27/04/2007 Revocation Date: 30/03/2018
E	390m S	CHURCH LANE BOTLEY CEO, CHURCH LANE, HAMPSHIRE, SO30 2UG	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: A01423 Permit Version: 2 Receiving Water: RIVER HAMBLE	Status: VARIED UNDER EPR 2010 Issue date: 31/03/2018 Effective Date: 31/03/2018 Revocation Date: -



ID	Location	Address	Details	
8	400m NE	UPLANDS FARM, BOTLEY HAMPSHIRE	Effluent Type: AGRICULTURE - SITE DRAINAGE Permit Number: H01804 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/01/1964 Effective Date: 17/01/1964 Revocation Date: -
9	402m NE	HILL & SONS TRANSPORT DEPOT, BOTLEY, BOTTINGS, HAMPSHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: N01031 Permit Version: 1 Receiving Water: FRESHWATER RIVER	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 27/08/1979 Effective Date: 27/08/1979 Revocation Date: 04/11/1992
11	459m SE	HAMBLEWOOD, CHURCH LANE, BOTLEY, HAMPSHIRE	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: P01624 Permit Version: 1 Receiving Water: RIVER HAMBLE (TIDAL)	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/05/1988 Effective Date: 09/05/1988 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.



4.17 List 2 Dangerous Substances

Records within 500m

0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m

5

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 27**

ID	Location	Details	
B	95m SE	Incident Date: 01/01/2003 Incident Identification: 128621 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	181m SE	Incident Date: 09/02/2003 Incident Identification: 135756 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
7	372m S	Incident Date: 06/07/2002 Incident Identification: 89690 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	375m S	Incident Date: 02/04/2002 Incident Identification: 68333 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
10	418m NE	Incident Date: 07/08/2001 Incident Identification: 22488 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.



4.19 Pollution inventory substances

Records within 500m**0**

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m**0**

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

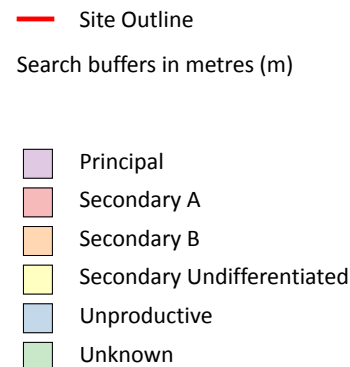
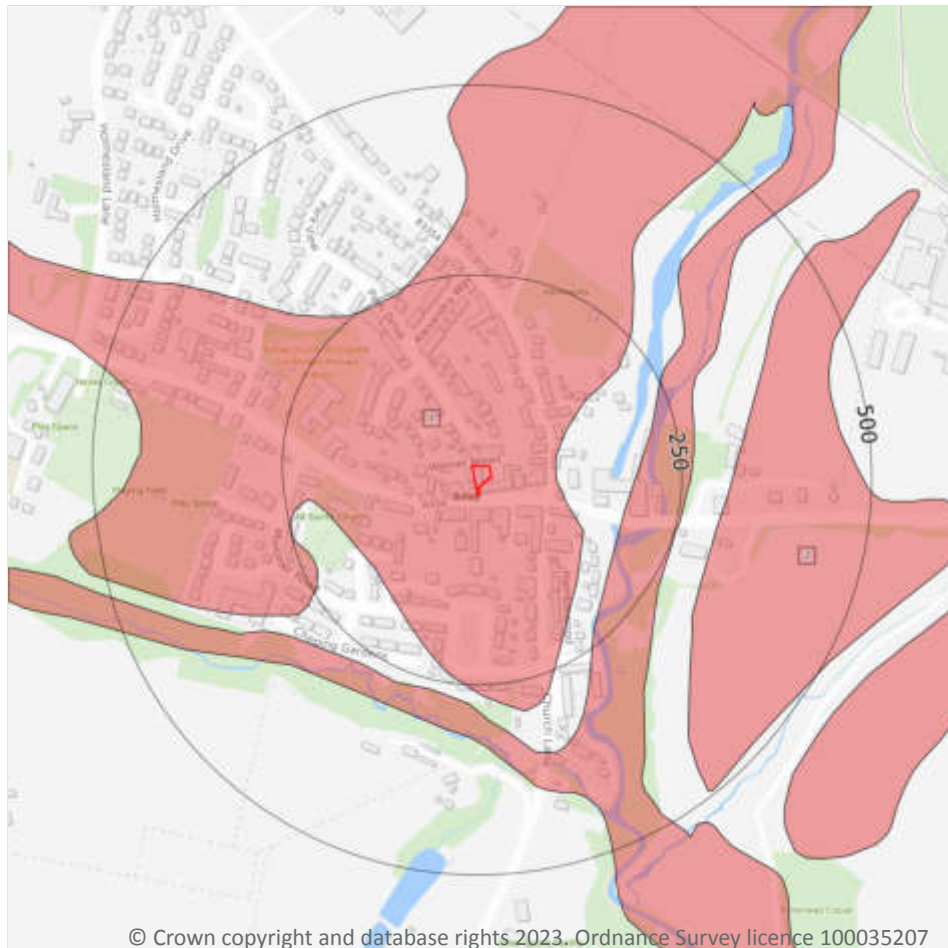
4.21 Pollution inventory radioactive waste

Records within 500m**0**

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

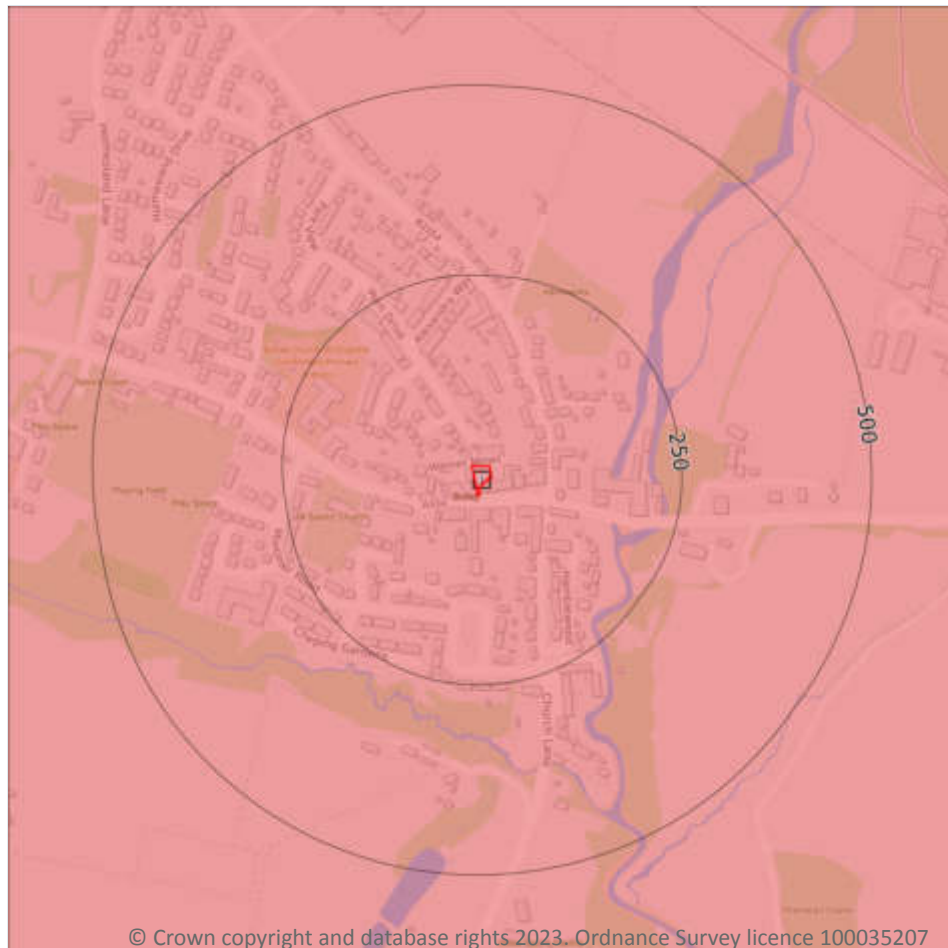
Features are displayed on the Hydrogeology map on **page 36**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	303m E	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Bedrock aquifer



- Site Outline
- Search buffers in metres (m)
- Principal
 - Secondary A
 - Secondary B
 - Secondary Undifferentiated
 - Unproductive

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

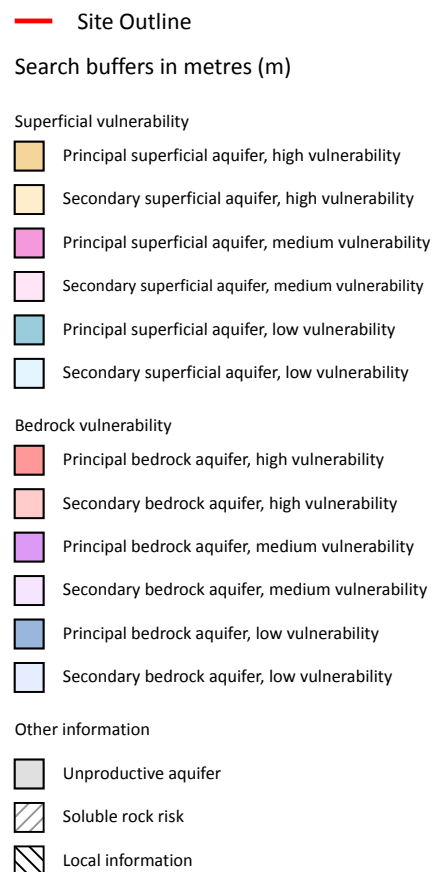
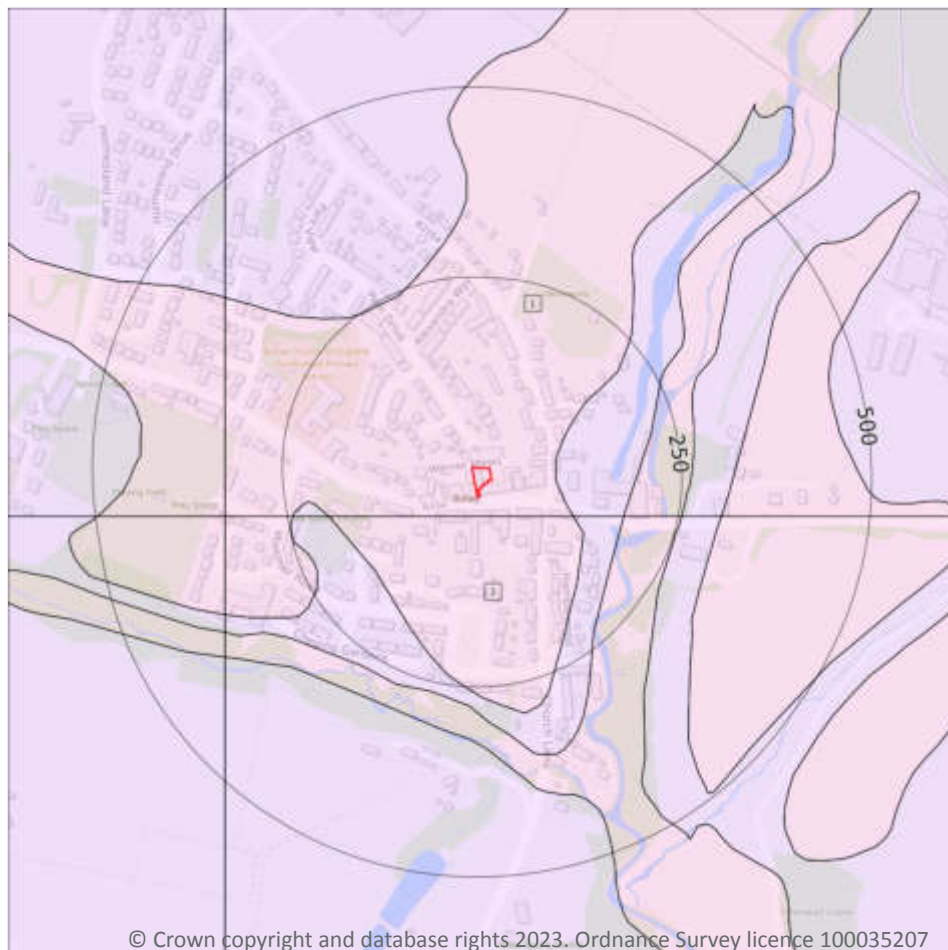
Features are displayed on the Bedrock aquifer map on **page 38**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 39**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Intergranular
2	25m S	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: 40-70% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Mixed

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

5.5 Groundwater vulnerability- local information

Records on site

0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk.

This data is sourced from the British Geological Survey and the Environment Agency.



Abstractions and Source Protection Zones



- Site Outline
- Search buffers in metres (m)
- Source Protection Zone 1
Inner catchment
- Source Protection Zone 2
Outer catchment
- Source Protection Zone 3
Total catchment
- Source Protection Zone 4
Zone of Special Interest
- Source Protection Zone 1c
Inner catchment - confined aquifer
- Source Protection Zone 2c
Outer catchment - confined aquifer
- Source Protection Zone 3c
Total catchment - confined aquifer
- Drinking water abstraction licences
Polygon features
- Drinking water abstraction licences
Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m

0

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m

8

Licensed surface water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 41**

ID	Location	Details	
A	617m NE	Status: Historical Licence No: 30/052 Details: Fish Pass/Canoe Pass Direct Source: Southern Region Surface Waters Point: POINT A ON MILL STREAM, BOTLEY MILL Data Type: Point Name: The Environment Agency Easting: 451750 Northing: 113533	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/2007 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 12/06/2009 Version End Date: -
A	617m NE	Status: Active Licence No: 30/052/R01 Details: Fish Pass/Canoe Pass Direct Source: Southern Region Surface Waters Point: POINT A ON MILL STREAM, BOTLEY MILL Data Type: Point Name: Environment Agency Easting: 451750 Northing: 113533	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/WR/018998 Original Start Date: 01/04/2016 Expiry Date: 31/03/2028 Issue No: 1 Version Start Date: 01/04/2016 Version End Date: -
A	623m NE	Status: Historical Licence No: 30/052 Details: Fish Pass/Canoe Pass Direct Source: Southern Region Surface Waters Point: POINT A ON MILL STREAM, BOTLEY MILL Data Type: Point Name: The Environment Agency Easting: 451750 Northing: 113540	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/2007 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 12/06/2009 Version End Date: -
-	639m S	Status: Active Licence No: 30/045 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: STEEPLE COURT FARM, FAREHAM Data Type: Point Name: King Easting: 451200 Northing: 112400	Annual Volume (m ³): 17,974 Max Daily Volume (m ³): 1,080 Original Application No: 169/1332 Original Start Date: 25/06/1993 Expiry Date: - Issue No: 100 Version Start Date: 12/06/2009 Version End Date: -



ID	Location	Details	
-	819m NE	Status: Historical Licence No: 11/42/25.3/27A Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: NEWHOUSE FARM, BOTLEY Data Type: Point Name: Draper Easting: 451780 Northing: 113760	Annual Volume (m ³): 7,910 Max Daily Volume (m ³): 159.11 Original Application No: - Original Start Date: 21/04/1972 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2016 Version End Date: -
-	1163m N	Status: Historical Licence No: 11/42/25.3/51 Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: HOLLY TREE FARM Data Type: Line Name: Cozens Esq Easting: 451790 Northing: 114280	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: - Issue No: 100 Version Start Date: 15/01/1971 Version End Date: -
-	1831m N	Status: Historical Licence No: 11/42/25.1/65CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BOTLEY HOTEL & COUNTRY CLUB AT MADDOXFORD (POINT A) Data Type: Point Name: Macdonald Hotels Ltd Easting: 450800 Northing: 114820	Annual Volume (m ³): 8500 Max Daily Volume (m ³): 85 Original Application No: - Original Start Date: 31/10/1989 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2016 Version End Date: -
-	1906m N	Status: Historical Licence No: 11/42/25.1/65CA Details: Spray Irrigation - Direct Direct Source: Southern Region Surface Waters Point: BOTLEY HOTEL & COUNTRY CLUB AT MADDOXFORD (POINT B) Data Type: Point Name: Macdonald Hotels Ltd Easting: 451120 Northing: 114960	Annual Volume (m ³): 8500 Max Daily Volume (m ³): 85 Original Application No: - Original Start Date: 31/10/1989 Expiry Date: - Issue No: 101 Version Start Date: 01/04/2016 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.



5.8 Potable abstractions

Records within 2000m

0

Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m

0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m

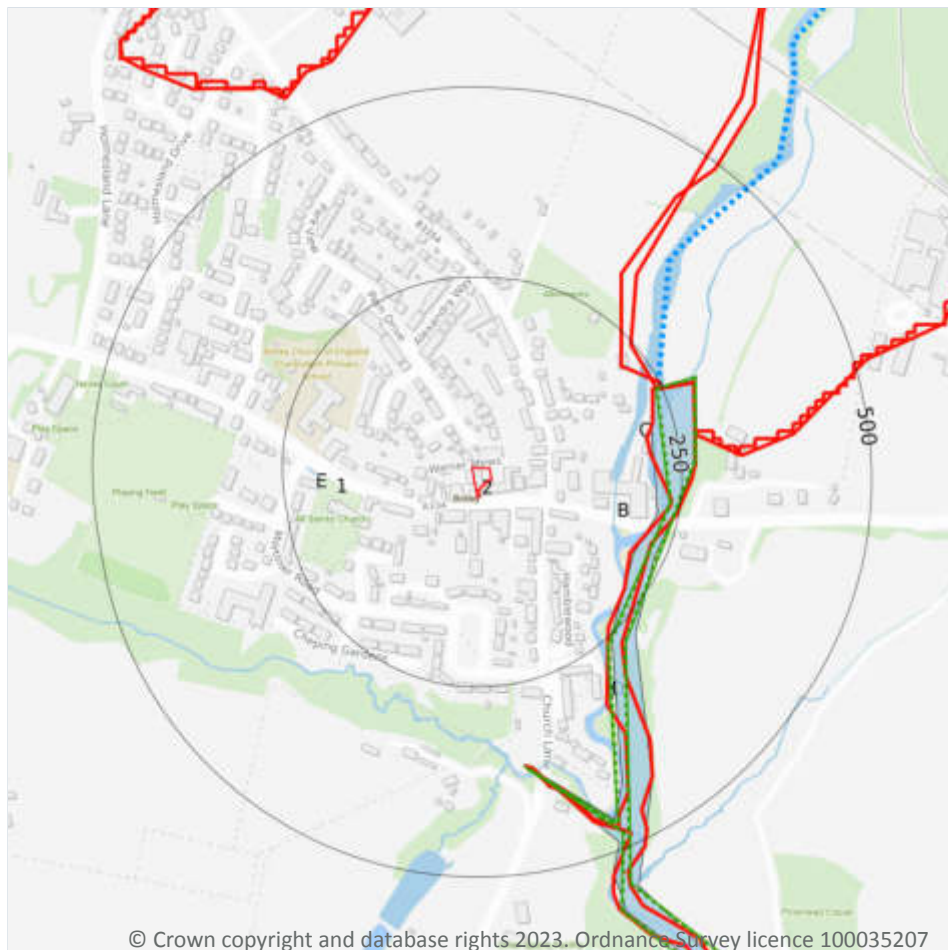
0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

9

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	163m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble



ID	Location	Type of water feature	Ground level	Permanence	Name
C	163m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble
B	170m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble
3	183m SE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble
D	183m SE	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble
E	201m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	237m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	237m E	Tidal river or stream.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble
C	248m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Hamble

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

2

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 45**

This data is sourced from the Ordnance Survey.



6.3 WFD Surface water body catchments

Records on site

1

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	Coastal Catchment	Not part of a river WB catchment	56	East Hampshire Rivers	East Hampshire

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified

1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 45**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
D	210m SE	Transi	SOUTHAMPTON WATER	GB520704202800	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site

1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 45**



ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	South East Hants Bracklesham Group	<u>GB40702G503000</u>	Poor	Poor	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m within the Risk of Flooding from Rivers and Sea (RoFRaS)/Flood Risk Assessment Wales (FRAW) models. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition. The risk categories for RoFRaS for rivers and the sea and FRAW for rivers are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance). The risk categories for FRAW for the sea are; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 200 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 200 chance) or High (greater than or equal to 1 in 30 chance).

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m

0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m

0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m

0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0
--------------------	---

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

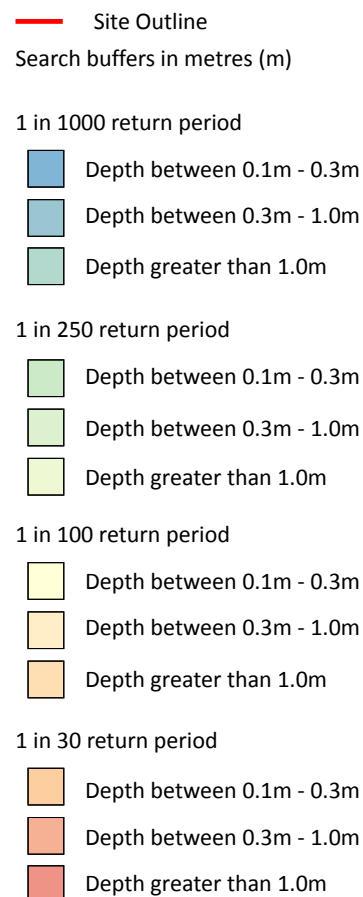
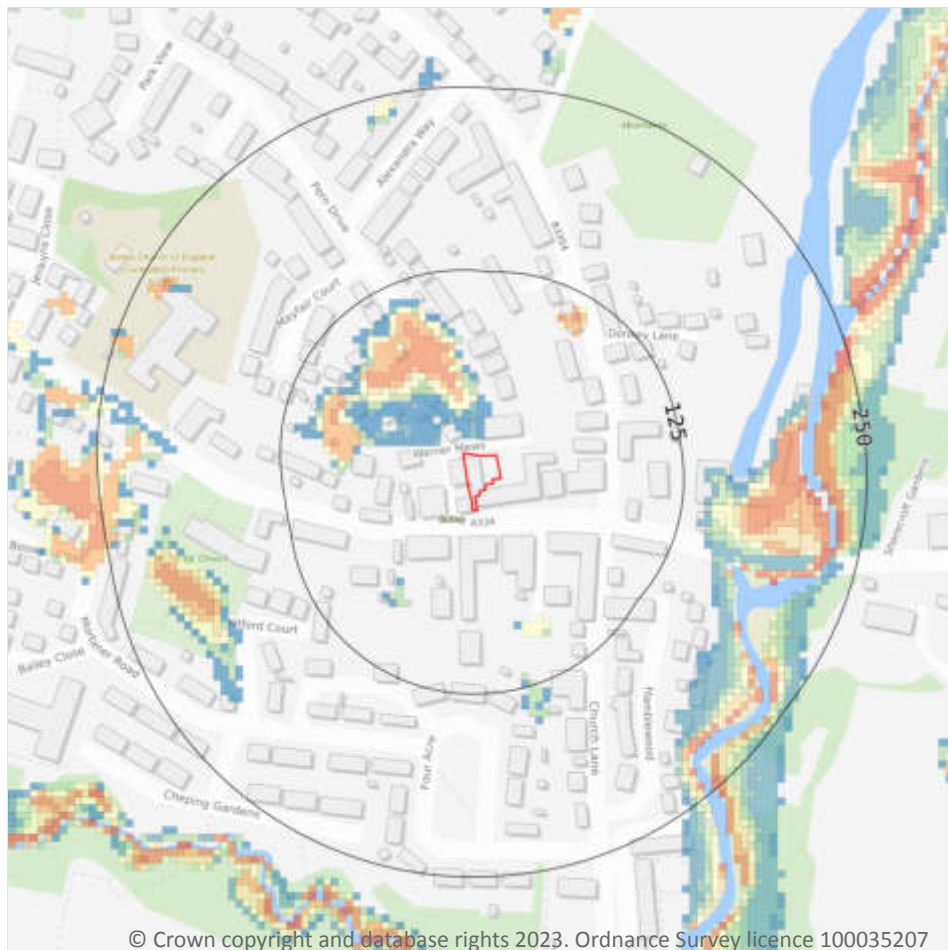
Records within 50m	0
--------------------	---

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 52**

The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

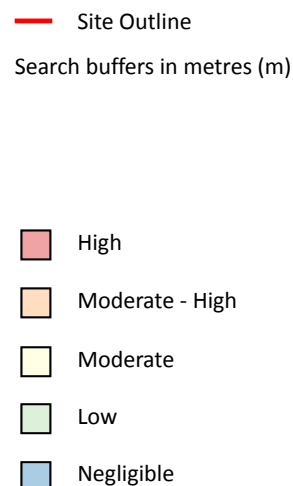
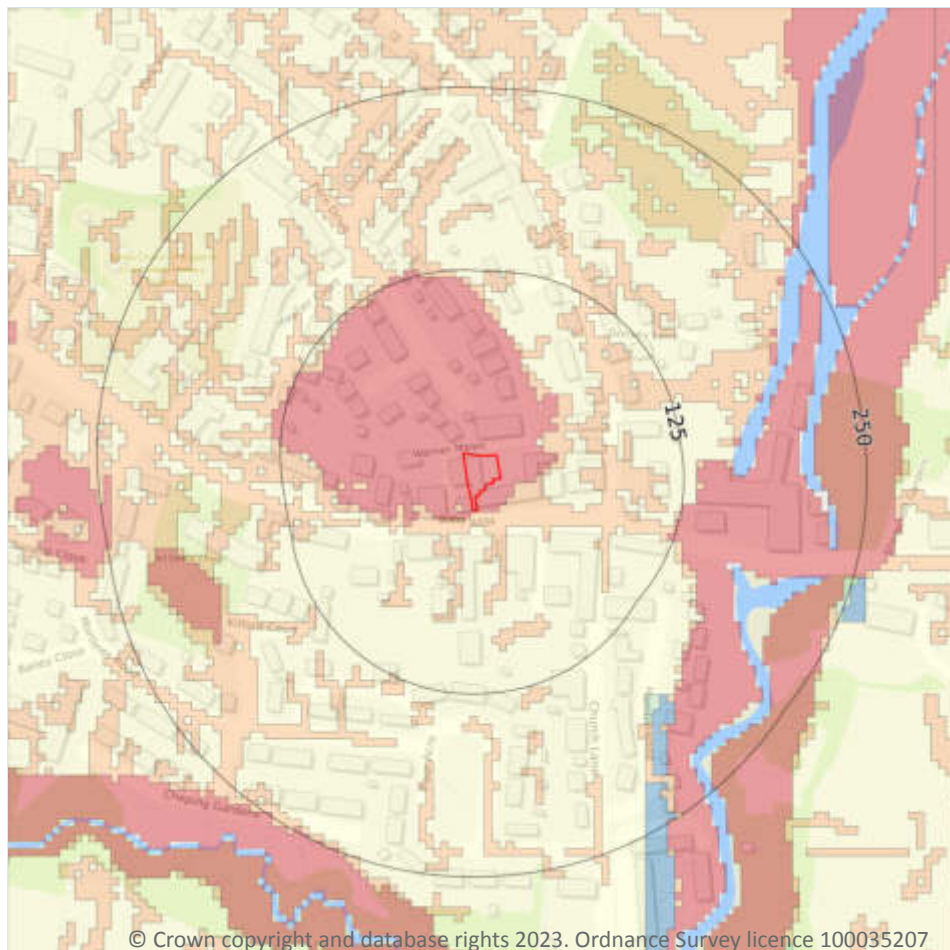
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

High

Highest risk within 50m

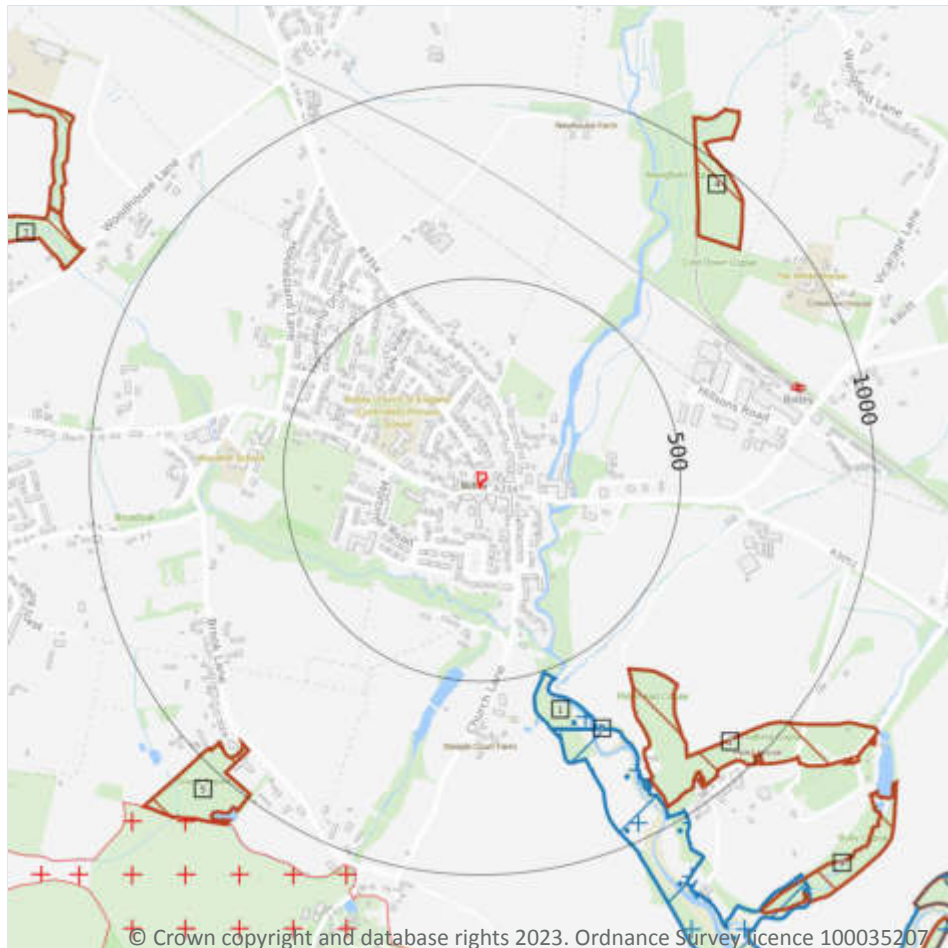
High

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 54**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- Conserved wetland sites (Ramsar sites)
- Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Local Nature Reserves (LNR)
- Designated Ancient Woodland

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

4

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Data source
1	505m S	Upper Hamble Estuary and Woods	Natural England

ID	Location	Name	Data source
3	650m S	Upper Hamble Estuary and Woods	Natural England
B	689m SE	Upper Hamble Estuary and Woods	Natural England
B	705m SE	Upper Hamble Estuary and Woods	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

1

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Site	Details
A	504m S	Name: Solent & Southampton Water Site status: Listed Data source: Natural England	Overview: The area covered extends from Hurst Spit to Gilkicker Point along the south coast of Hampshire and along the north coast of the Isle of Wight. The site comprises of estuaries and adjacent coastal habitats including intertidal flats, saline lagoons, shingle beaches, saltmarsh, reedbeds, damp woodland, and grazing marsh. The diversity of habitats support internationally important numbers of wintering waterfowl, important breeding gull and tern populations and an important assemblage of rare invertebrates and plants. Ramsar criteria: Ramsar criterion 1 The site is one of the few major sheltered channels between a substantial island and mainland in European waters, exhibiting an unusual strong double tidal flow and has long periods of slack water at high and low tide. It includes many wetland habitats characteristic of the biogeographic region: saline lagoons, saltmarshes, estuaries, intertidal flats, shallow coastal waters, grazing marshes, reedbeds, coastal woodland and rocky boulder reefs. Ramsar criterion 2 The site supports an important assemblage of rare plants and invertebrates. At least 33 British Red Data Book invertebrates and at least eight British Red Data Book plants are represented on site.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Features of interest	Habitat description	Data source
A	505m S	Solent Maritime	Subtidal sandbanks; Estuaries; Intertidal mudflats and sandflats; Lagoons; Annual vegetation of drift lines; Coastal shingle vegetation outside the reach of waves; Glasswort and other annuals colonising mud and sand; Cord-grass swards; Atlantic salt meadows; Shifting dunes with marram; Dune grassland; Desmoulin's whorl snail; Otter; Common seal.	Broad-leaved deciduous woodland; Shingle, Sea cliffs, Islets; Coastal sand dunes, Sand beaches, Machair; Salt marshes, Salt pastures, Salt steppes; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Marine areas, Sea inlets	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m

1

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Species of interest	Habitat description	Data source
A	505m S	Solent & Southampton Water	Eurasian teal; Ringed plover; Mediterranean gull; Sandwich tern; Roseate tern; Common tern; Little tern; Black-tailed godwit; Dark-bellied brent goose	Salt marshes, Salt pastures, Salt steppes; Coastal sand dunes, Sand beaches, Machair; Shingle, Sea cliffs, Islets; Broad-leaved deciduous woodland; Tidal rivers, Estuaries, Mud flats, Sand flats, Lagoons (including saltwork basins); Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.



10.5 National Nature Reserves (NNR)

Records within 2000m**0**

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Data source
6	1034m S	Manor Farm	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m**18**

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Woodland Type
2	604m SE	Trullmill/pinkmead Copses	Ancient & Semi-Natural Woodland
4	822m NE	Wangfield Lodge Copse	Ancient & Semi-Natural Woodland
5	901m SW	Gould Copse	Ancient & Semi-Natural Woodland
7	1167m NW	Unknown	Ancient & Semi-Natural Woodland
8	1262m NW	Unknown	Ancient & Semi-Natural Woodland
9	1281m SE	Unknown	Ancient & Semi-Natural Woodland



ID	Location	Name	Woodland Type
-	1547m S	Unknown	Ancient & Semi-Natural Woodland
11	1548m SE	Unknown	Ancient & Semi-Natural Woodland
-	1574m E	Hall Court Wood	Ancient & Semi-Natural Woodland
13	1630m SE	Unknown	Ancient & Semi-Natural Woodland
-	1655m SW	Catland/fosters/bottom Copses	Ancient & Semi-Natural Woodland
-	1735m SE	Unknown	Ancient & Semi-Natural Woodland
-	1749m SE	Unknown	Ancient & Semi-Natural Woodland
-	1840m S	Unknown	Ancient & Semi-Natural Woodland
-	1884m E	Hall Court Wood	Ancient Replanted Woodland
-	1988m S	Swanwick Wood	Ancient & Semi-Natural Woodland
-	1992m NE	Mount Folly Copse	Ancient & Semi-Natural Woodland
-	1995m NE	Mount Folly Copse	Ancient Replanted Woodland

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m

0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m

0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m**0**

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m**0**

Areas designated to prevent urban sprawl by keeping land permanently open.

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m**0**

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

1

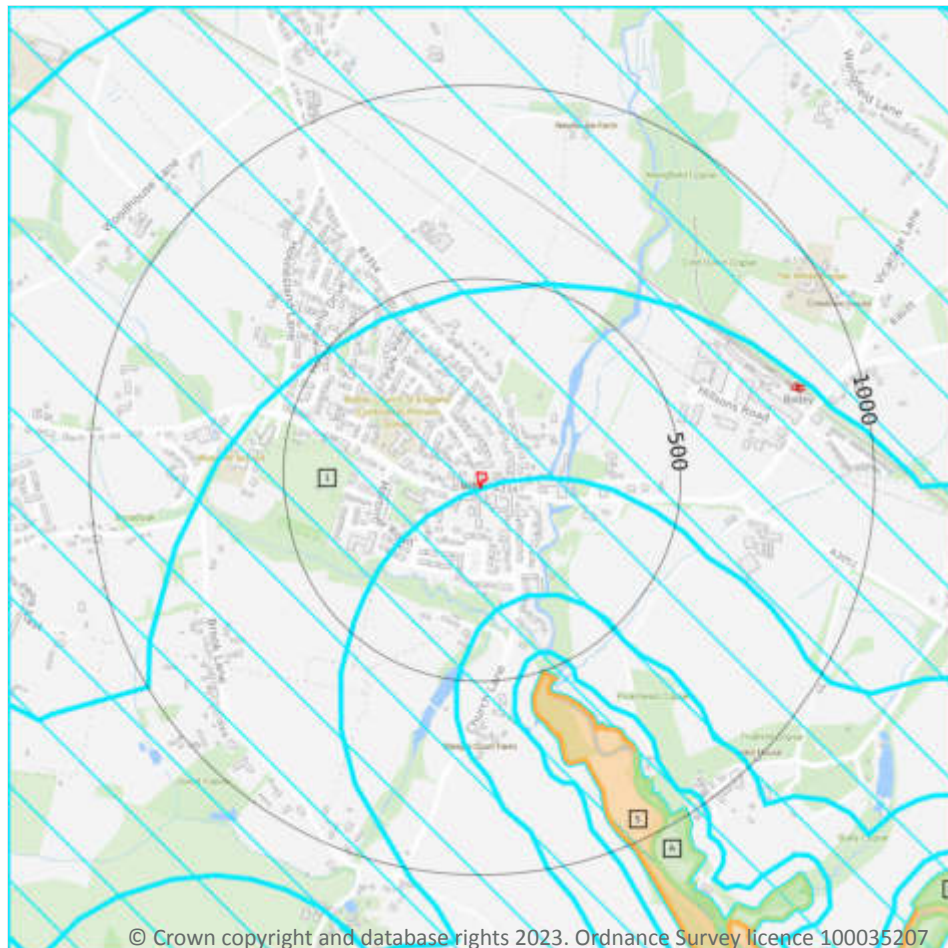
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	Hamble Estuary Eutrophic NVZ (TraC)	Eutrophic Water	3	Existing

This data is sourced from Natural England and Natural Resources Wales.



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

1

Developed to allow rapid initial assessment of the potential risks to SSSIs posed by development proposals. They define zones around each SSSI which reflect the particular sensitivities of the features for which it is notified and indicate the types of development proposal which could potentially have adverse impacts.

Features are displayed on the SSSI Impact Zones and Units map on **page 62**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. Wind and Solar - Wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply . Notes: Strategic solutions for recreational impacts are in place. please contact your local planning authority as they have the information to advise on specific requirements. Nutrient impact area. for new development with overnight accommodation reg 63 of the conservation of habitats and species regulations 2017 must be applied and additional measures required. lpa to refer to natural england's nutrient neutrality advice.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

13

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on **page 62**

ID: 5
 Location: 505m S
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Pinkmead Farm
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Declining
 Reportable features:



Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021
Lowland neutral grassland (MG5)	Unfavourable - Declining	08/03/2021
Lowland wetland including basin fen, valley fen, floodplain fen, waterfringe fen, spring/flush fen and raised bog lagg	Unfavourable - Declining	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: A
 Location: 796m SE
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Ymca
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021
Lowland wetland including basin fen, valley fen, floodplain fen, waterfringe fen, spring/flush fen and raised bog lagg	Favourable	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: 6
 Location: 1294m SE
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Nt Curbridge (Upper)
 Broad habitat: Littoral Sediment
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021
Lowland neutral grassland (MG5)	Unfavourable - Declining	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: -
 Location: 1400m SE
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Marks Farm
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021

Feature name	Feature condition	Date of assessment
Lowland wetland including basin fen, valley fen, floodplain fen, waterfringe fen, spring/flush fen and raised bog lagg	Favourable	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: 10
 Location: 1506m SE
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Nt Curbridge Reserve
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021
Lowland wetland including basin fen, valley fen, floodplain fen, waterfringe fen, spring/flush fen and raised bog lagg	Favourable	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: 11
 Location: 1548m SE
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Nt Curbridge Woodland
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	08/03/2021

ID: -
 Location: 1655m SW
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Manor Farm Woodland
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	08/03/2021

ID: -
 Location: 1719m S
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Burr ridge Foreshore (Upper)
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: -
 Location: 1844m S
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Foxburrow Copse East
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	-	-

ID: -
 Location: 1895m S
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Foxburrow Copse
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	-	-

ID: -
 Location: 1944m S
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Burr ridge Foreshore (Lower)
 Broad habitat: Littoral Sediment
 Condition: Favourable
 Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Favourable	08/03/2021
H1140 Mudflats and sandflats not covered by seawater at low tide	Favourable	08/03/2021
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
Lowland mixed deciduous woodland	Favourable	08/03/2021
SM4-28 - Saltmarsh	Favourable	08/03/2021

ID: -
 Location: 1988m S
 SSSI name: Upper Hamble Estuary and Woods
 Unit name: Bloomfield Copse
 Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
 Condition: Favourable

Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	08/03/2021

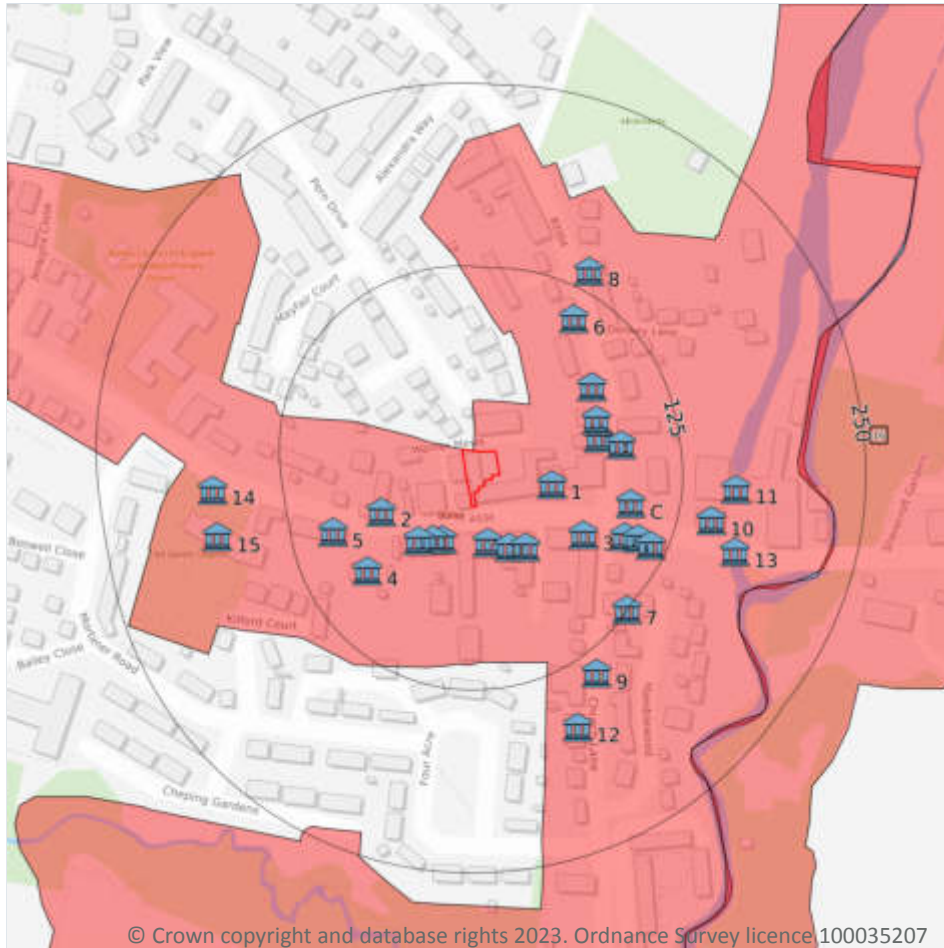
ID: -
Location: 1997m S
SSSI name: Upper Hamble Estuary and Woods
Unit name: Manor Farm Foreshore
Broad habitat: Littoral Sediment
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
H1130 Estuaries	Not Recorded	01/01/1900
H1140 Mudflats and sandflats not covered by seawater at low tide	Not Recorded	01/01/1900
H1310 Salicornia and other annuals colonising mud and sand	Favourable	08/03/2021
H1320 Spartina swards (Spartinion maritimae)	Favourable	08/03/2021
H1330 Atlantic salt meadows (Glauco-Puccinellietalia maritimae)	Favourable	08/03/2021
Littoral sediment	Not Recorded	01/01/1900
SM4-28 - Saltmarsh	Favourable	08/03/2021

This data is sourced from Natural England and Natural Resources Wales.



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m

0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m

29

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 70**

ID	Location	Name	Grade	Reference Number	Listed date
A	26m S	13 and 15, High Street, Botley, Eastleigh, Hampshire, SO30	II	1112070	14/02/1983
A	30m SW	21, High Street, Botley, Eastleigh, Hampshire, SO30	II	1203548	14/02/1983
A	35m SW	23, High Street, Botley, Eastleigh, Hampshire, SO30	II	1322643	14/02/1983
A	35m S	Market Hall, Botley, Eastleigh, Hampshire, SO30	II	1203543	14/02/1983
1	36m E	Bugle inn, Botley, Eastleigh, Hampshire, SO30	II	1111958	14/02/1983

ID	Location	Name	Grade	Reference Number	Listed date
A	43m SE	The Dolphin Hotel The Dolphin Public House, Botley, Eastleigh, Hampshire, SO30	II	1322642	05/12/1955
A	43m SW	Botley House, Botley, Eastleigh, Hampshire, SO30	II	1112071	05/12/1955
2	62m SW	34, High Street, Botley, Eastleigh, Hampshire, SO30	II	1111957	11/12/1973
3	70m SE	1 and 3, High Street, Botley, Eastleigh, Hampshire, SO30	II	1203501	14/02/1983
B	71m E	3, Winchester Street, Botley, Eastleigh, Hampshire, SO30	II	1336937	14/02/1983
B	72m NE	5, Winchester Street, Botley, Eastleigh, Hampshire, SO30	II	1203623	14/02/1983
B	79m NE	Winchester House, Botley, Eastleigh, Hampshire, SO30	II	1111963	14/02/1983
4	84m SW	Portland House, Botley, Eastleigh, Hampshire, SO30	II	1203558	14/02/1983
B	85m E	8, Winchester Street, Botley, Eastleigh, Hampshire, SO30	II	1111959	14/02/1983
C	92m E	2 and 4, Winchester Street, Botley, Eastleigh, Hampshire, SO30	II	1322708	14/02/1983
C	96m SE	13 and 14, Mill Hill (See Details For Further Address information), Botley, Eastleigh, Hampshire, SO30	II	1112068	14/02/1983
5	96m SW	31, High Street, Botley, Eastleigh, Hampshire, SO30	II	1112072	14/02/1983
C	104m SE	15, Fareham Road (See Details For Further Address information), Botley, Eastleigh, Hampshire, SO30	II	1203494	14/02/1983
6	105m NE	19, Winchester Street, Botley, Eastleigh, Hampshire, SO30	II	1203631	14/02/1983
C	114m SE	16, Mill Hill (See Details For Further Address information), Botley, Eastleigh, Hampshire, SO30	II	1112069	05/12/1955
7	124m SE	Cobbett's Cottage, Botley, Eastleigh, Hampshire, SO30	II	1337024	14/02/1983
8	139m NE	Hope House, Botley, Eastleigh, Hampshire, SO30	II	1322709	14/02/1983
9	140m SE	Wall On The East Side of Church Lane, Running South From Cobbett's Cottage, To Its Termination Opposite, and A Little To The South of No 12 , Botley, Eastleigh, Hampshire, SO30	II	1337025	14/02/1983
10	148m E	The Mill House, Botley, Eastleigh, Hampshire, SO30	II	1281683	05/12/1955
11	162m E	Botley (Flour) Mills, Botley, Eastleigh, Hampshire, SO30	II	1322641	05/12/1955
12	166m S	Ivy Cottage, Botley, Eastleigh, Hampshire, SO30	II	1111736	14/02/1983
13	169m E	Bridge South of The Mill, Botley, Eastleigh, Hampshire, SO30	II	1203489	14/02/1983
14	173m W	Botley War Memorial, Botley, Eastleigh, Hampshire, SO30	II	1450876	26/10/2017
15	174m W	Church of All Saints, Botley, Eastleigh, Hampshire, SO30	II	1322707	14/02/1983



This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m

2

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

Features are displayed on the Visual and cultural designations map on **page 70**

ID	Location	Name	District	Date of designation
A	On site	Botley/Winchester Road	Eastleigh	1975
16	184m SE	Botley	Winchester	1975

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.7 Registered Parks and Gardens

Records within 250m

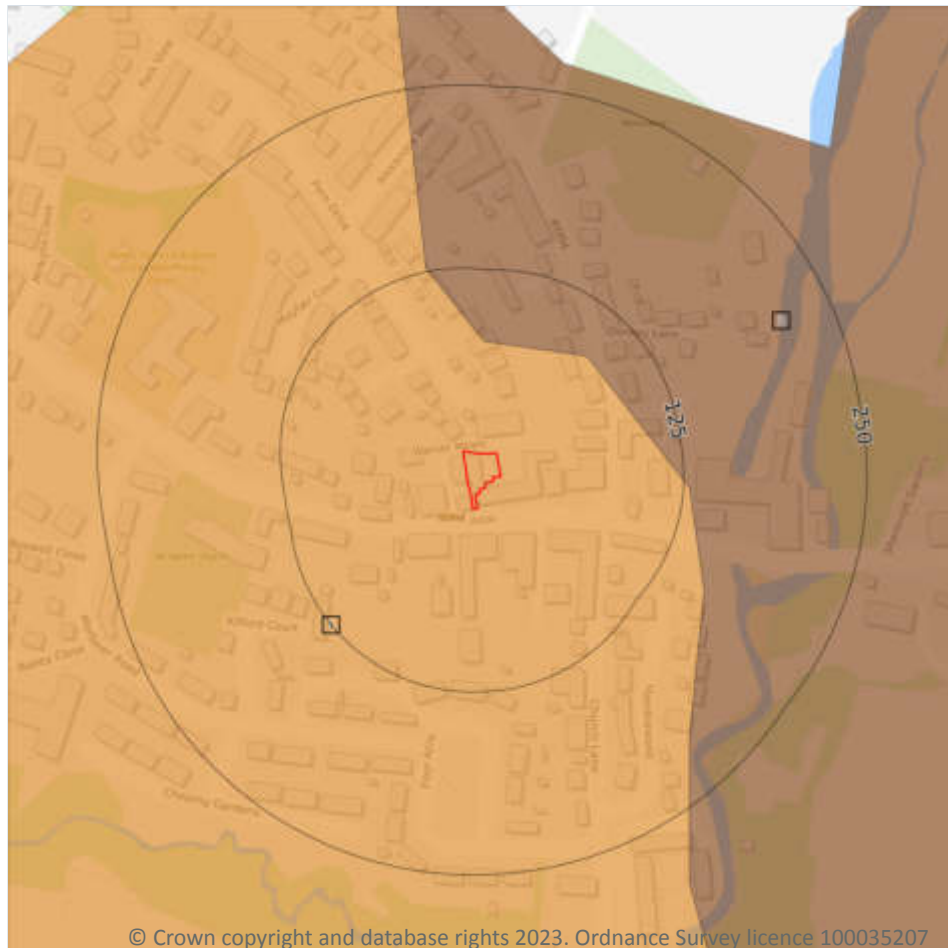
0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.



12 Agricultural designations



- Site Outline
- Search buffers in metres (m)
- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m

2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 74**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

ID	Location	Classification	Description
2	74m N	Grade 1	Excellent quality agricultural land. Land with no or very minor limitations to agricultural use. A very wide range of agricultural and horticultural crops can be grown and commonly includes top fruit, soft fruit, salad crops and winter harvested vegetables. Yields are high and less variable than on land of lower quality.

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

The Countryside and Rights of Way Act 2000 (CROW Act) gives a public right of access to land without having to use paths. Access land includes mountains, moors, heaths and downs that are privately owned. It also includes common land registered with the local council and some land around the England Coast Path. Generally permitted activities on access land are walking, running, watching wildlife and climbing.

This data is sourced from Natural England and Natural Resources Wales.

12.3 Tree Felling Licences

Records within 250m

0

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

1

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

Location	Reference	Scheme	Start Date	End date
237m E	AG00355007	Entry Level plus Higher Level Stewardship	01/04/2011	31/03/2021

This data is sourced from Natural England.



12.5 Countryside Stewardship Schemes

Records within 250m

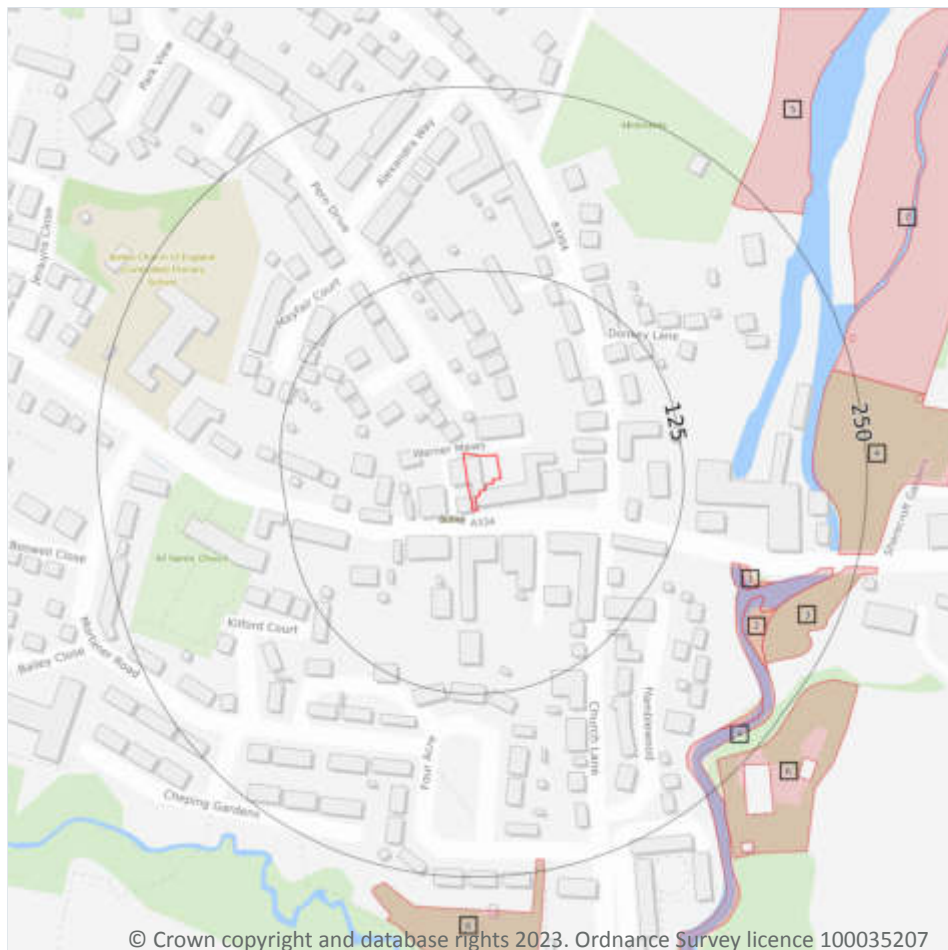
0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.



13 Habitat designations



- Site Outline**
- Search buffers in metres (m)**
- Priority Habitat Inventory
 - Open Mosaic Habitat
 - Limestone Pavement Orders
- Habitat Networks**
- Primary Habitat
 - Restorable Habitat
 - Associated Habitats
 - Habitat Restoration-Creation
 - Network Enhancement Zone 1
 - Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m

10

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map on **page 77**

ID	Location	Main Habitat	Other habitats
A	168m E	No main habitat but additional habitats present	Additional: LFENS (ENSIS L2); DWOOD (ENSIS L2); MUDFL (ENSIS L2); SALT (ENSIS L2)
1	173m E	Mudflats	Main habitat: MUDFL (INV > 50%)
2	189m SE	Mudflats	Main habitat: MUDFL (INV > 50%)

ID	Location	Main Habitat	Other habitats
3	207m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	213m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	222m SE	Mudflats	Main habitat: DWOOD (INV > 50%); MUDFL (INV > 50%)
5	235m NE	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%)
6	236m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	237m E	Coastal and floodplain grazing marsh	Main habitat: CFPGM (INV > 50%, FEP + HLS); Additional: LMEAD (FEP 50%)
8	242m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.



This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 80**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SU51SW

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Artificial and made ground

14.2 Artificial and made ground (10k)

Records within 500m

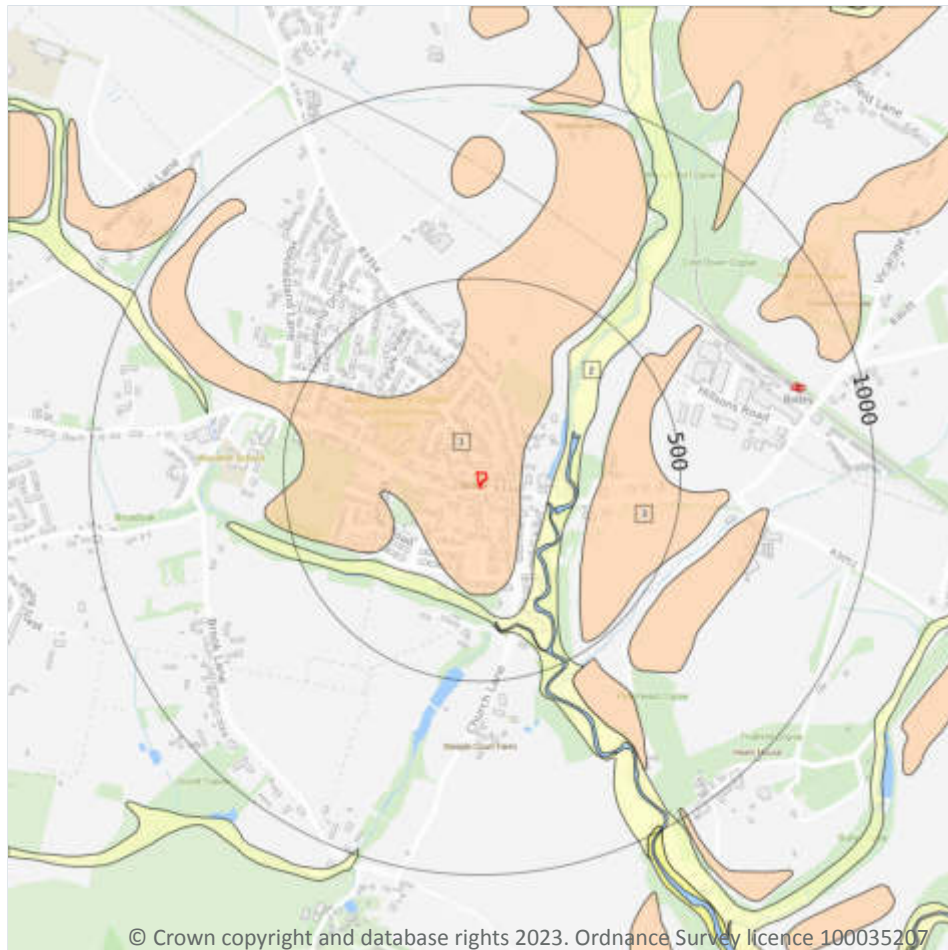
0

Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

3

Superficial geological deposits at 1:10,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 82**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel
2	166m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	277m E	RTD2-XSV	River Terrace Deposits, 2 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

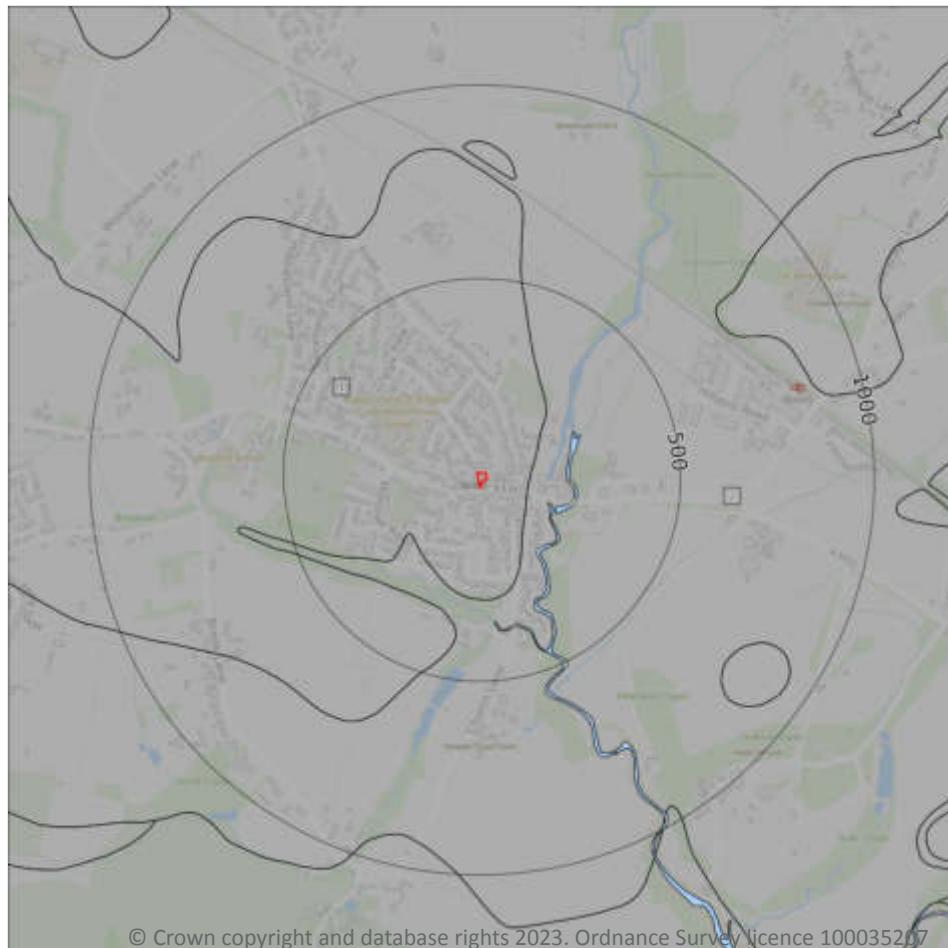
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

2

Bedrock geology at 1:10,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 84**

ID	Location	LEX Code	Description	Rock age
1	On site	EA-SSCL	Earnley Sand Formation - Sand, Silt And Clay	Lutetian Age
2	107m E	WTT-CLSISA	Wittering Formation - Clay, Silt And Sand	Lutetian Age - Ypresian Age

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

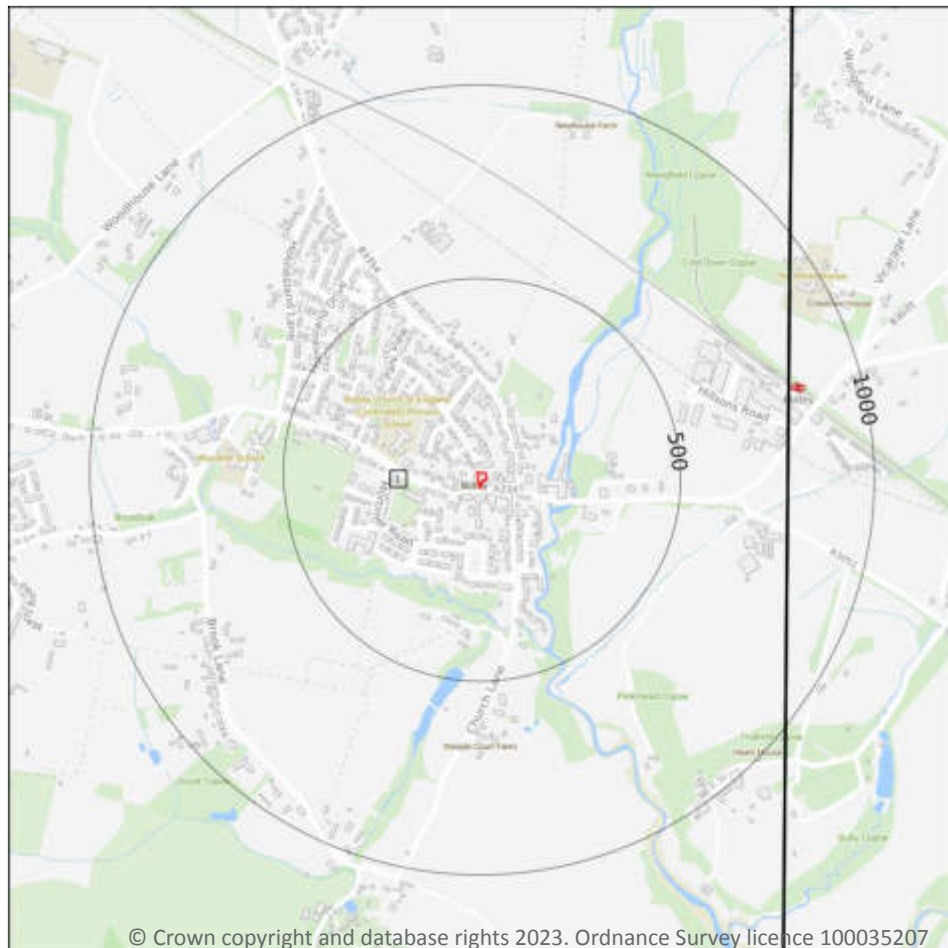
0

Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 86**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW315_southampton_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground

15.2 Artificial and made ground (50k)

Records within 500m

0

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

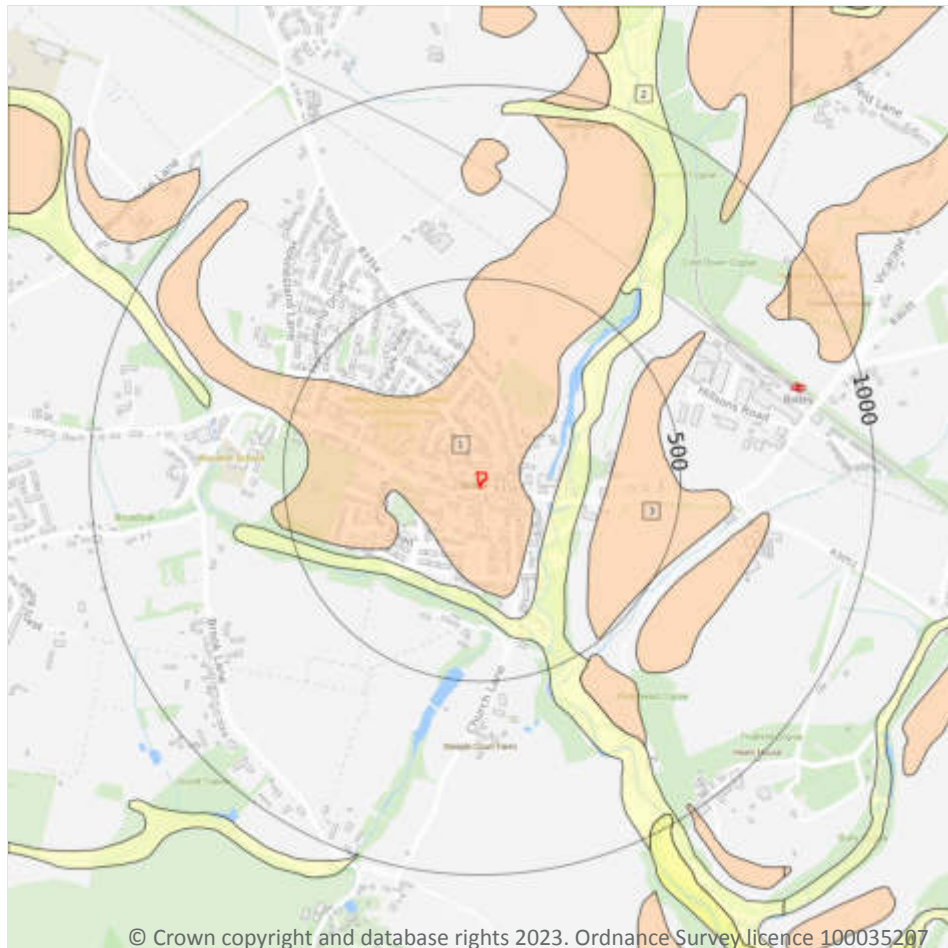
0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m

3

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 88**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD2-XSV	RIVER TERRACE DEPOSITS, 2	SAND AND GRAVEL
2	180m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	303m E	RTD2-XSV	RIVER TERRACE DEPOSITS, 2	SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

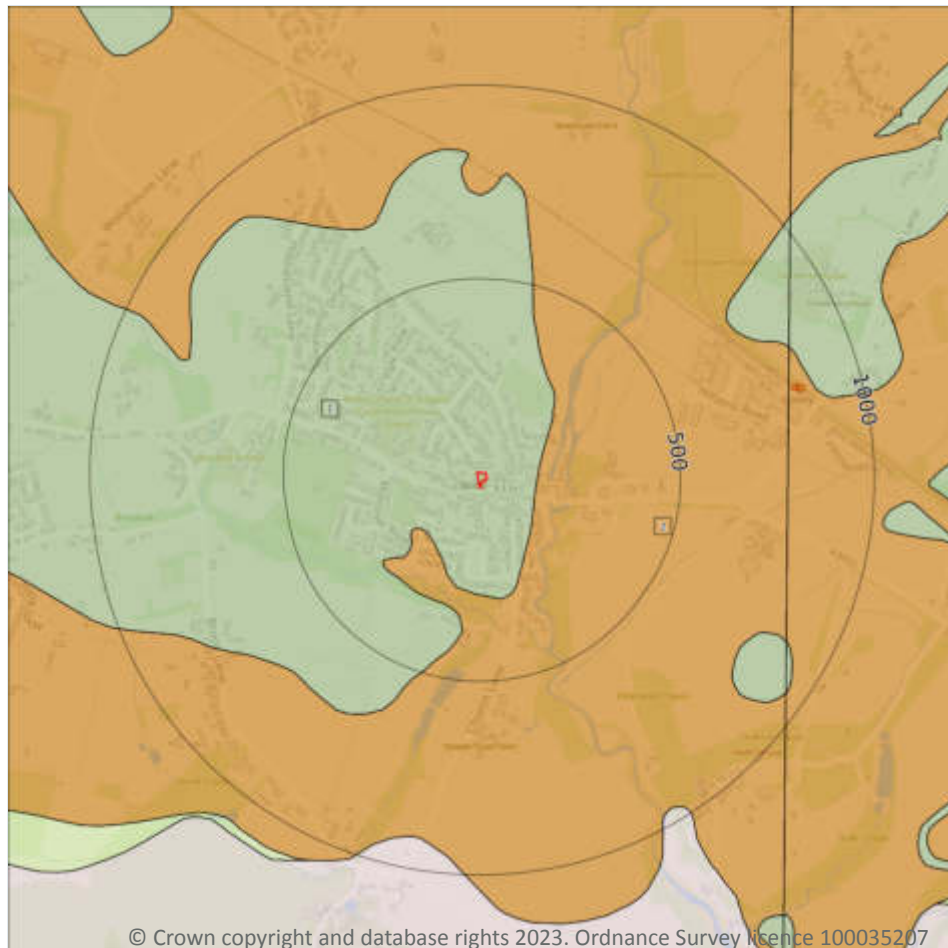
Records within 50m**0**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

.... Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 90**

ID	Location	LEX Code	Description	Rock age
1	On site	EA-XSZC	EARNLEY SAND FORMATION - SAND, SILT AND CLAY	LUTETIAN
2	128m E	WTT-XSZC	WITTERING FORMATION - SAND, SILT AND CLAY	YPRESIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m**1**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

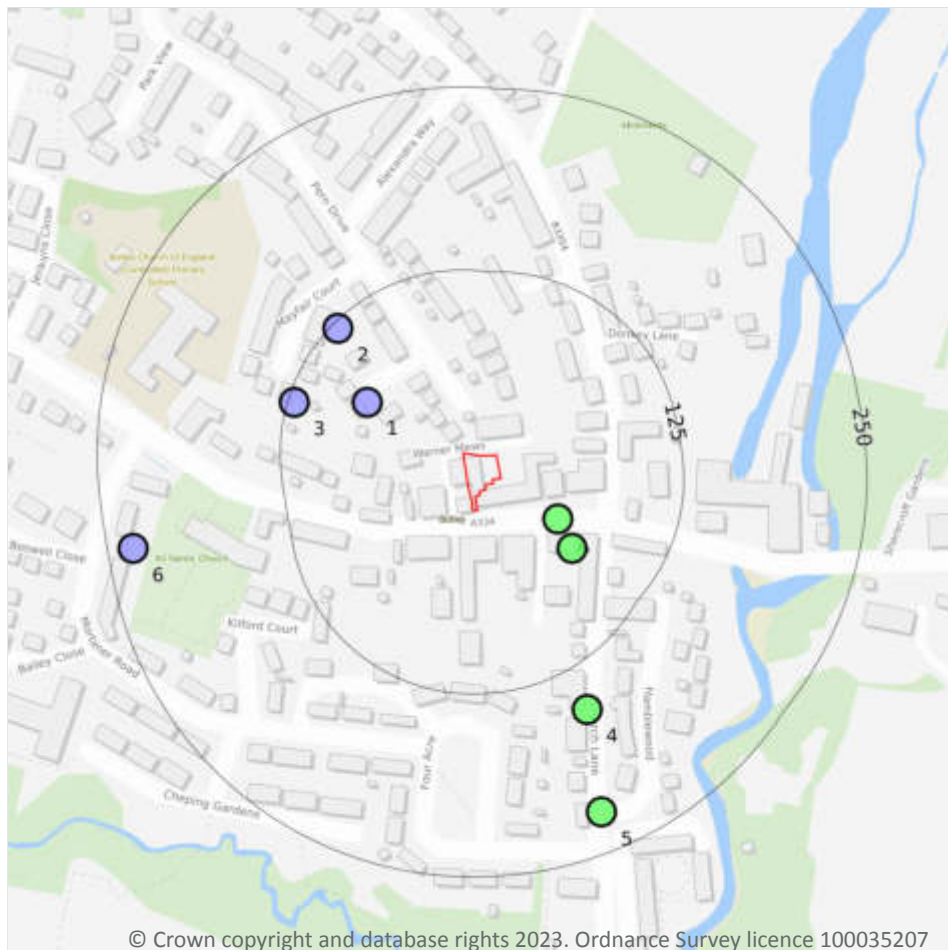
Records within 500m**0**

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

This data is sourced from the British Geological Survey.



16 Boreholes



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Site Outline
Search buffers in metres (m)

- Confidential
- 0 - 10m
- 10 - 30m
- 30m+
- Unknown

16.1 BGS Boreholes

Records within 250m

8

The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on **page 92**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	48m SE	451390 113020	BOTLEY NEW SEWER 1	15.0	N	17166362
A	68m SE	451400 113000	LOSTIFORD, BOTLEY	26.21	N	12397689
1	74m NW	451260 113100	ALEXANDRA WAY BOTLEY 3	7.62	N	17588011

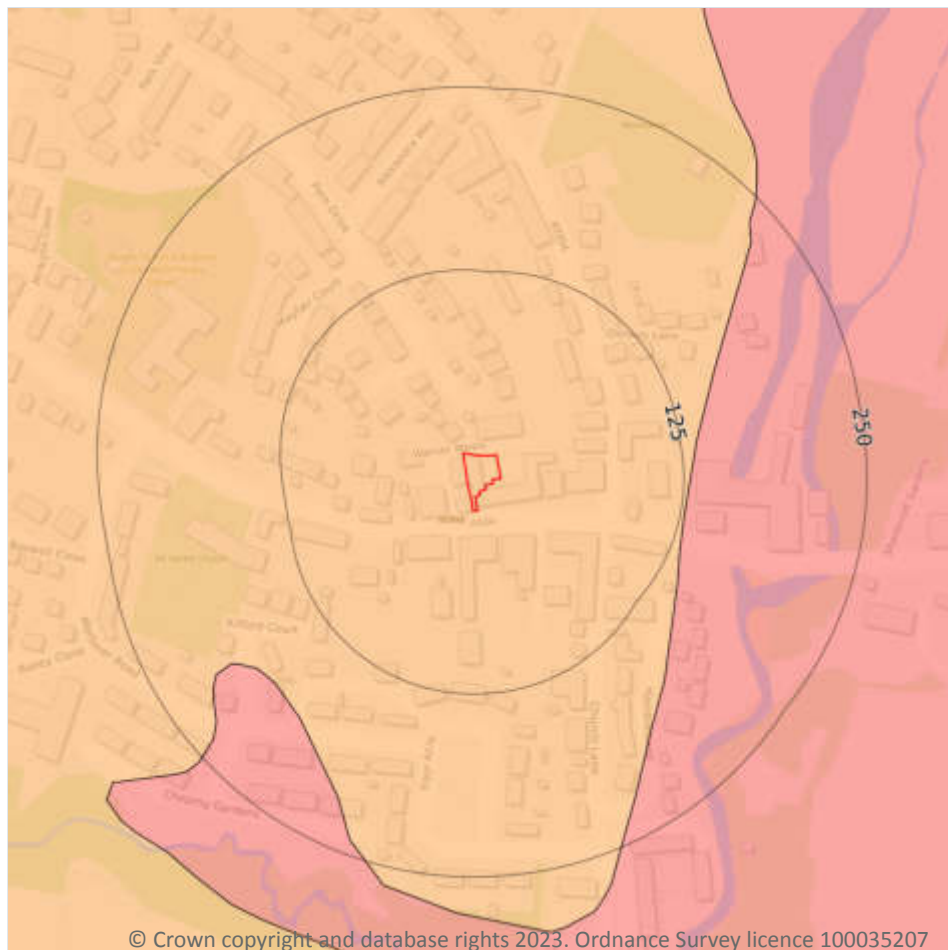


ID	Location	Grid reference	Name	Length	Confidential	Web link
2	121m NW	451240 113150	ALEXANDRA WAY BOTLEY 1	7.62	N	17588008
3	121m W	451210 113100	ALEXANDRA WAY BOTLEY 2	7.16	N	17588010
4	155m SE	451410 112890	BOTLEY NEW SEWER 2	15.0	N	17166363
5	223m S	451420 112820	BOTLEY NEW SEWER 3	15.0	N	17166364
6	233m W	451100 113000	NEAR THE CHURCH, BOTLEY	4.57	N	12397690

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

1

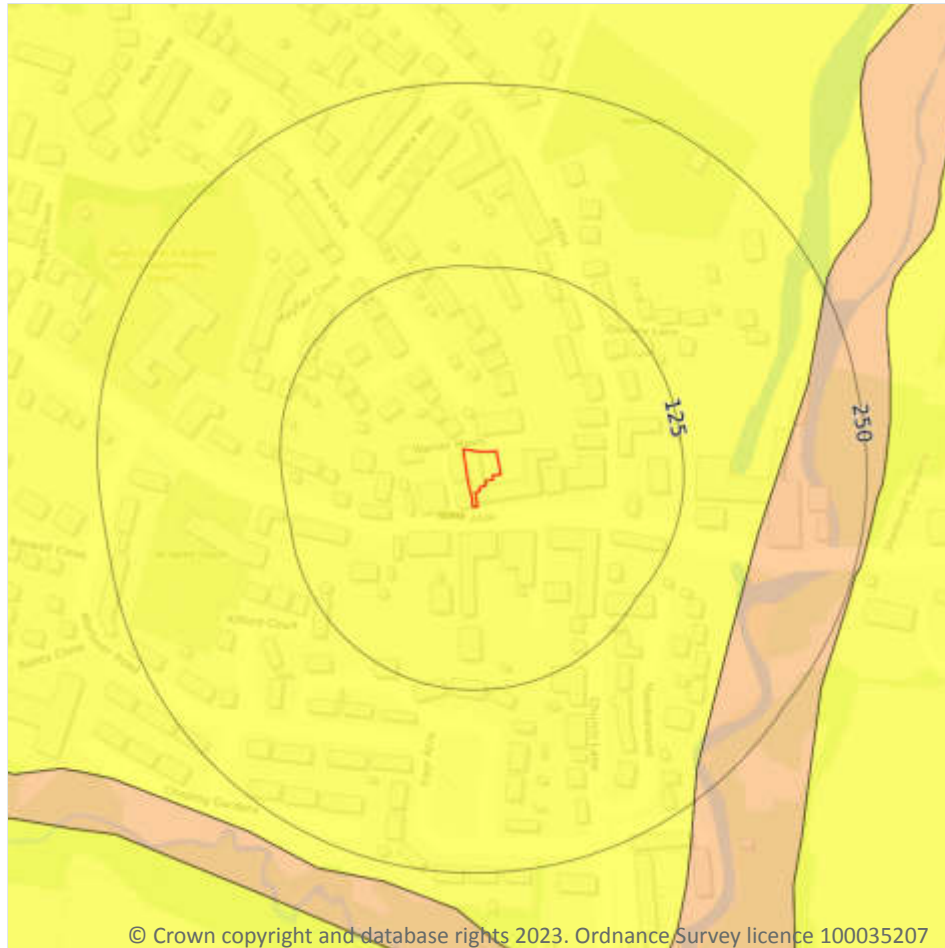
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 94**

Location	Hazard rating	Details
On site	Low	Ground conditions predominantly medium plasticity.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.2 Running sands

Records within 50m

1

The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

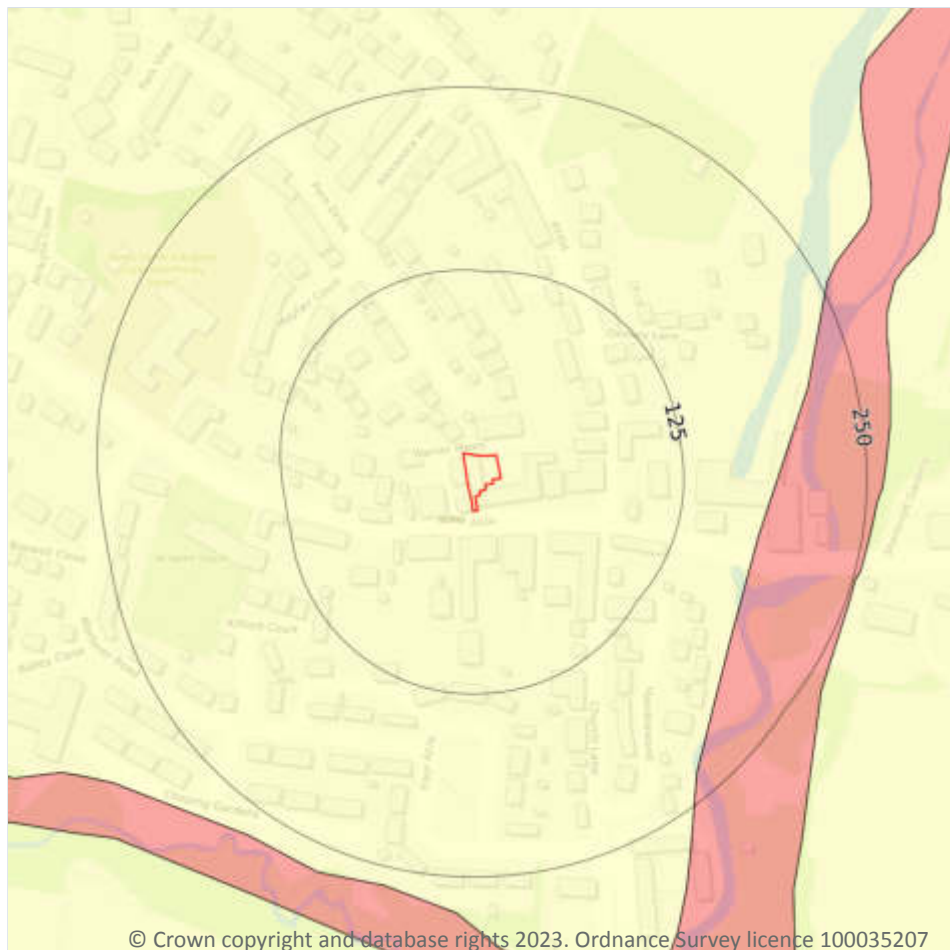
Features are displayed on the Natural ground subsidence - Running sands map on **page 95**

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.3 Compressible deposits

Records within 50m

1

The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

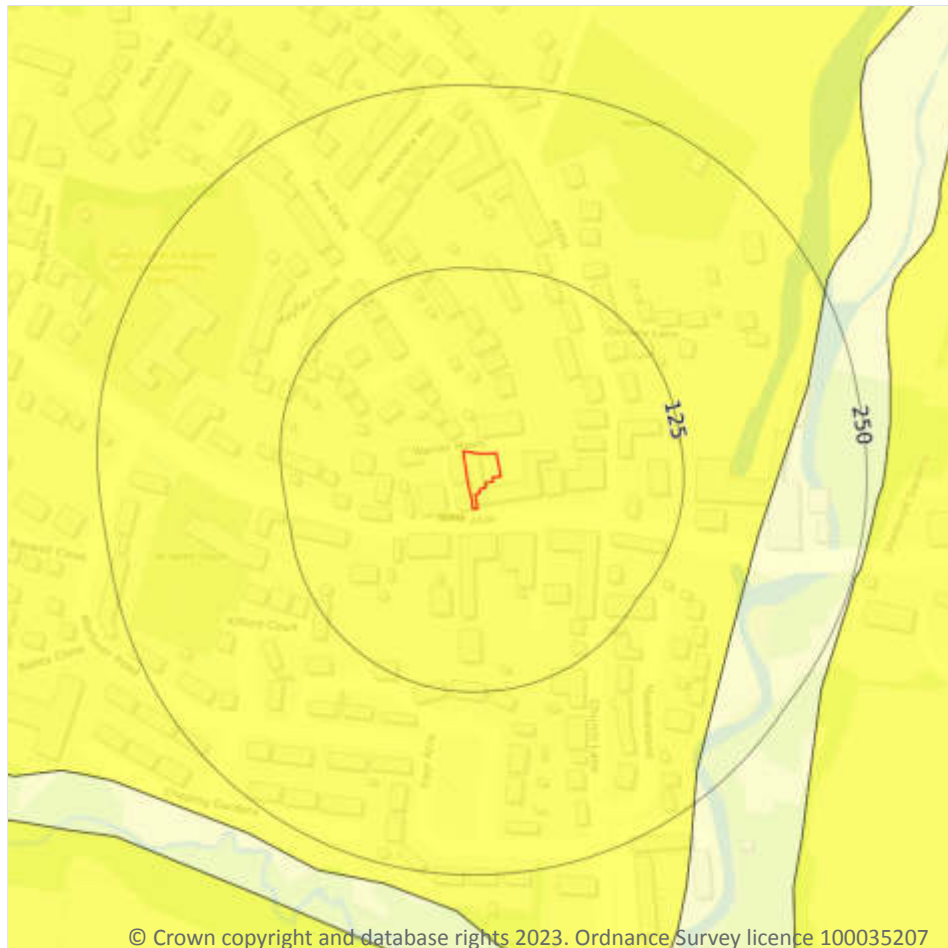
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 96**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

1

The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

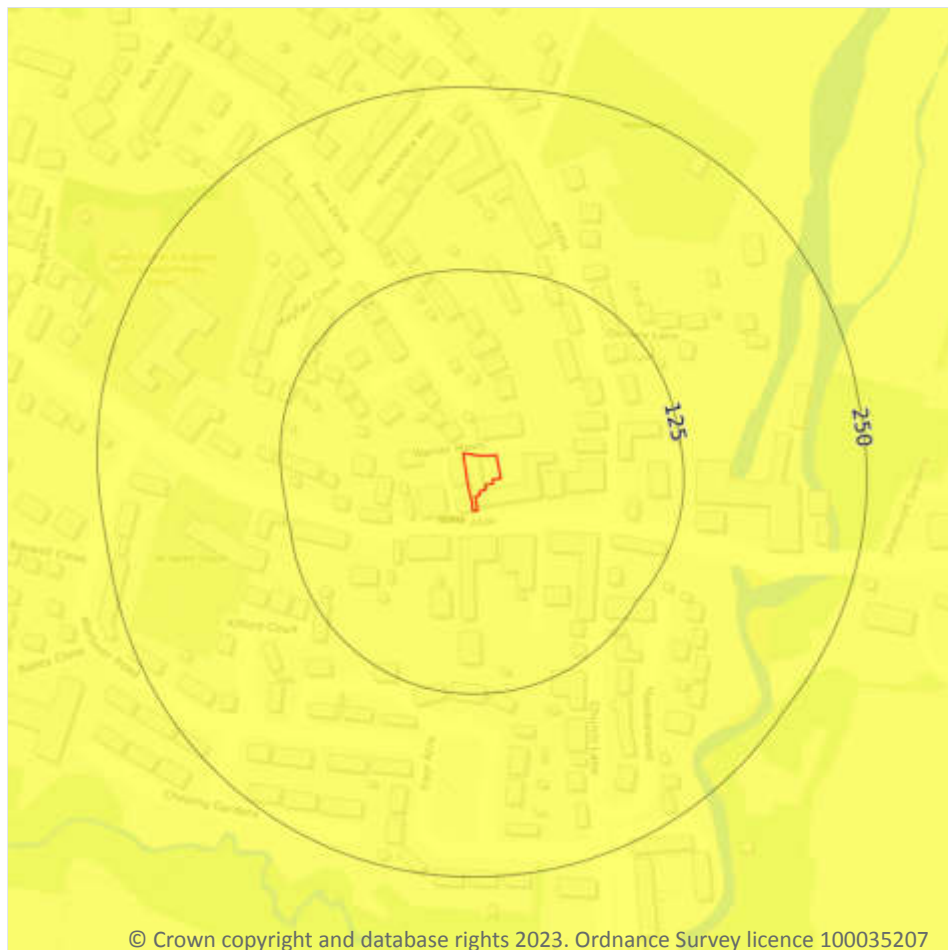
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 97**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☒ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.5 Landslides

Records within 50m

1

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

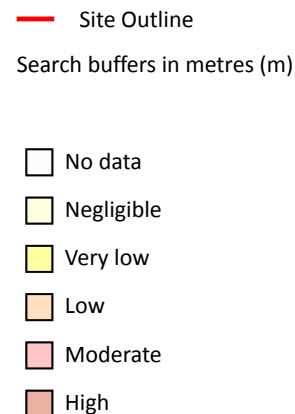
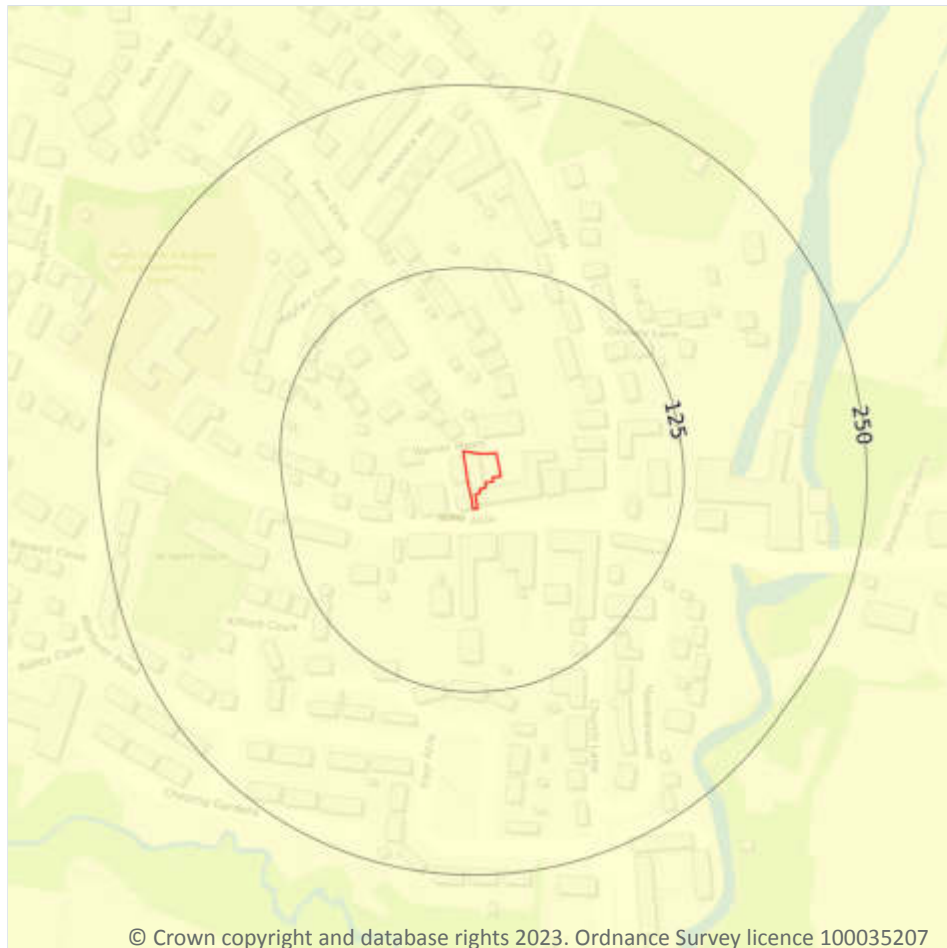
Features are displayed on the Natural ground subsidence - Landslides map on **page 98**

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

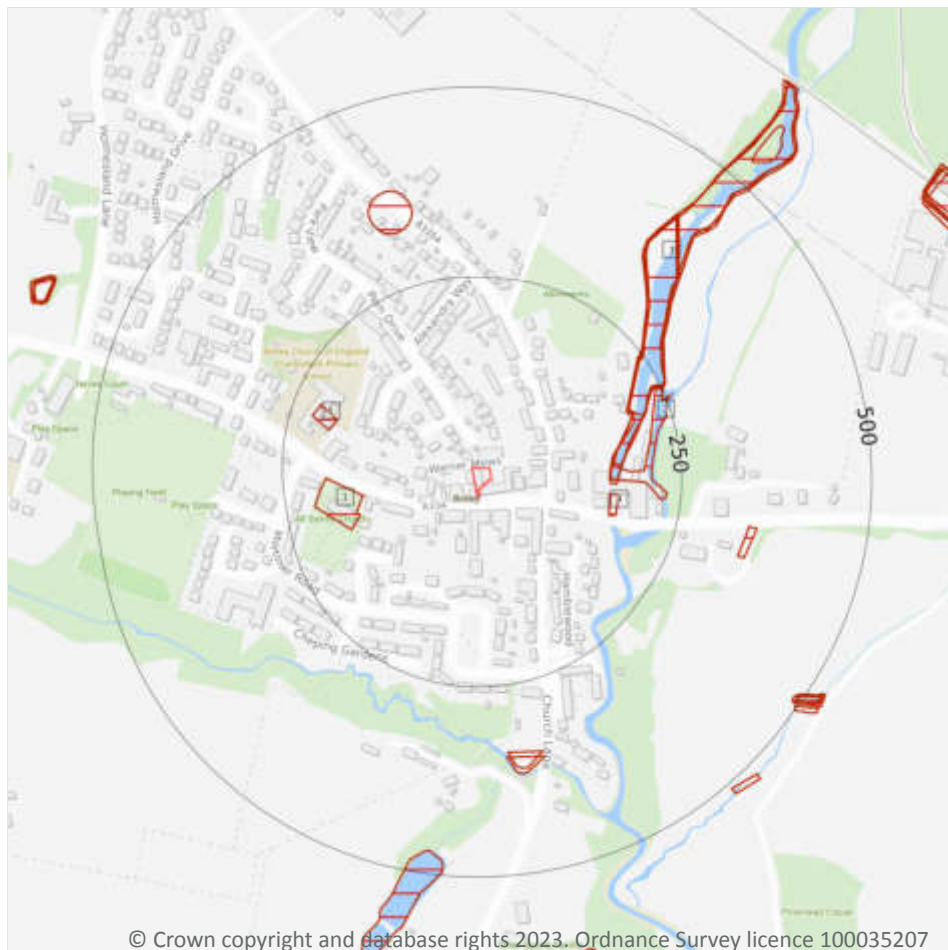
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 99**

Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m**0**

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m**8**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining, ground workings and natural cavities map on **page 100**

ID	Location	Land Use	Year of mapping	Mapping scale
1	147m W	Grave Yard	1868	1:10560
2	155m E	Ponds	1895	1:10560
3	156m E	Mill Pond	1868	1:10560
4	156m E	Pond	1895	1:10560
A	156m E	Mill Pond	1910	1:10560
A	161m E	Mill Pond	1895	1:10560
5	188m W	Unspecified Heaps	1968	1:10560
A	198m NE	Mill Pond	1897	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m**0**

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This data is sourced from Ordnance Survey/Groundsure.



18.5 Historical Mineral Planning Areas

Records within 500m

0

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

0

Areas which could be affected by past, current or future coal mining.

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.11 Gypsum areas

Records on site	0
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

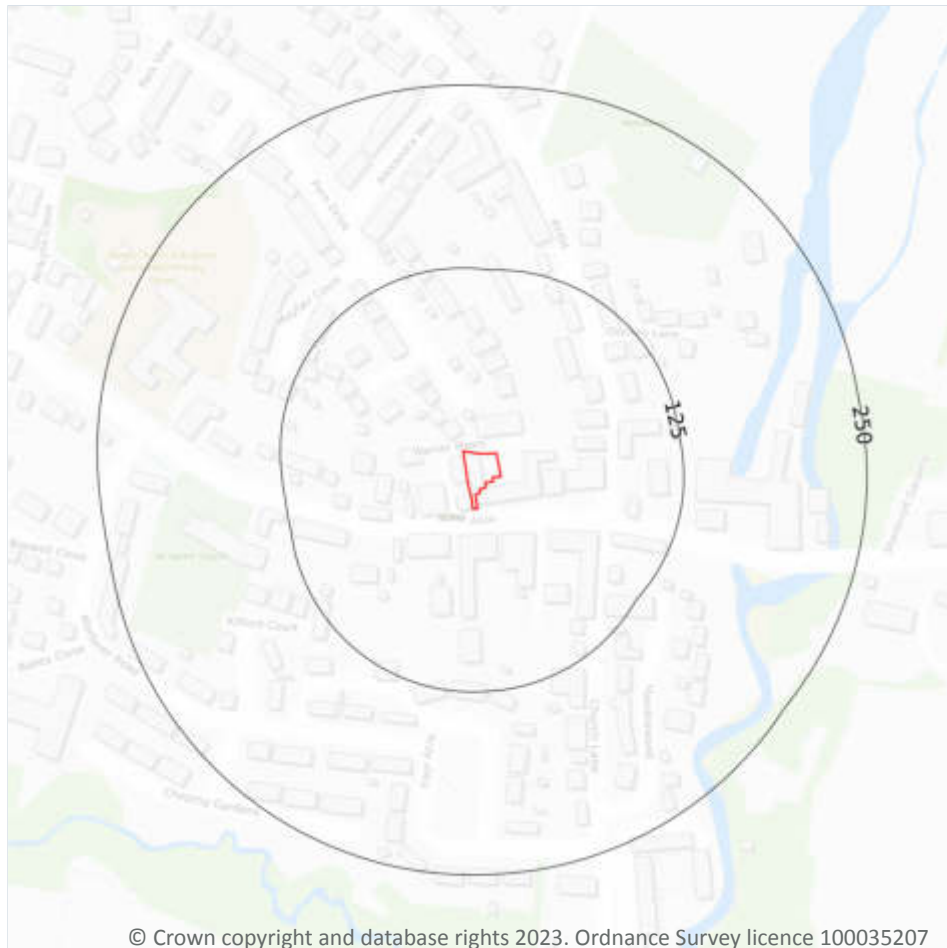
18.13 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 104**

Location	Estimated properties affected	Radon Protection Measures required
On site	Less than 1%	None



This data is sourced from the British Geological Survey and UK Health Security Agency.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
26m S	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects

21.1 Underground railways (London)

Records within 250m

0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

0

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.



This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	0
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Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m	0
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Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m	0
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The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0
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Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0
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HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 Ltd.



Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see <https://www.groundsure.com/sources-reference>.

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UK Locations

Ash Vale
Birmingham
London
Wakefield

