



GEO-ENVIRONMENTAL CONSULTING ENGINEERS

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LAND AT 45 AJAX DRIVE, UNSOWRTH, BURY

Phase 1 - Preliminary Risk Assessment



Prepared for:

Deborah Wilcox

Report Ref: BEK-23119-1

September 2023

Project Quality Assurance Information Sheet

Site	Land at 45 Ajax Drive, Unsworth, Bury
Report Title	Phase 1 - Preliminary Risk Assessment
Report Status	Final
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Date	September 2023
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LAND AT 45 AJAX DRIVE, UNSWORTH, BURY

Phase 1 - Preliminary Risk Assessment

PROJECT NO: 23119
REPORT REF: BEK-23119-1
DATE: September 2023

REVISION STATUS / HISTORY

Rev	Date	Issue / Comment	Prepared	Checked

GENERAL REPORT LIMITATIONS

BEK Enviro Limited (BEK) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and BEK. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by BEK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

No part of this report may be copied or duplicated without the express permission of BEK and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Unless explicitly agreed otherwise, in writing, this report has been prepared under BEK's limited standard Terms and Conditions as included within our proposal to the Client.

The report needs to be considered in the light of the BEK proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

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1. INTRODUCTION

1.1 Appointment

1.1.1 BEK Enviro (BEK) has been commissioned by Deborah Wilcox to prepare a Phase 1 Preliminary Risk Assessment (PRA) for a parcel of land located at 45 Ajax Drive, Bury (hereafter referred to as 'the site'). The PRA will assess the potential risks associated with contamination considering a change of use to residential (with homegrown produce).

1.1.2 The site location and layout are presented on BEK Drawing No 23119-1 and BEK Drawing No 23119-2, respectively. Copies of these drawings are presented in Appendix E.

1.2 Proposed Development

1.2.1 This report has been prepared to support a planning application for the construction of a single storey residential dwelling with associated access and landscaped areas. The proposed development layout is presented in Figure 1.



Figure 1: Proposed Development Layout

1.3 Objective & Scope of Work

1.3.1 The objective of this report is to provide a qualitative assessment of the potential risks from contamination and ground with consideration to the proposed end use residential (with homegrown produce).

1.3.2 To achieve the objective BEK will undertake the following:

- Carry out a site inspection and collect photographs
- Review the available relevant background information for the site, including:
 - Recent Ordnance Survey Maps
 - Site Specific GroundSure Reports
 - Site Specific Historical Maps
 - Coal Authority Website
 - Drawings provided by Aldrock Developments Limited
 - Zetica UXO Information
- Develop a preliminary conceptual site model in accordance with guidance to identify potentially significant pollutant linkages specific to the proposed development
- Establish areas of potential concern based on identified risks and/or potential risks
- Identify any actions required to assess or reduce the risks identified

1.4 Limitations

- 1.4.1 The conclusions and recommendations presented in this report are the result of our professional interpretation of the information currently available. BEK reserves the right to amend the conclusions and recommendations if further information becomes available.
- 1.4.2 However, it should be noted that much of the information has been derived from reports written by others and BEK takes no responsibility for the accuracy of that information. Notwithstanding the above, the reports reviewed have all been written by professional environmental consultants with a duty of care to provide relevant and accurate information.
- 1.4.3 This report does not include an invasive plant species assessment.

2. SITE DESCRIPTION

2.1 Site Location

- 2.1.1 The site occupies an irregularly shaped parcel of land located to the west of Ajax Road, Bury, BL9 8EF. The site is approximately 3.5 km south of Bury town centre and some 3.2 km north of the centre of Prestwich.
- 2.1.2 The National Grid Reference for the centre of the site is 380974, 407498. The site location is shown on BEK Drawing No 23119-1, a copy of which is presented in Appendix E.

2.2 Site Layout & Description

- 2.2.1 A site walkover/inspection was conducted by an engineer from BEK in September 2023. A series of photographs taken during the site inspection are provided in Appendix D. The general site layout is shown on BEK Drawing No 23119-2, a copy of which is presented in Appendix E.
- 2.2.2 The site occupies an irregular shaped plot of land of approximately 1,200 m² which is largely open and generally comprises overgrown grasses, shrubs and trees. The site can be accessed off Ajax Drive. The north-eastern and southern peripheries of the site border existing properties/gardens. The northern site periphery borders a forested area and is lined with a security fence.
- 2.2.3 45 Ajax Drive is included within the site periphery and is present in an elongated rectangular section of the site in the south-east (photograph 1). A small grassed garden lined with hedgerows is present to the front of 45 Ajax Drive (photograph 2), as well as a hardstanding driveway which runs along the gable-end of the property (photograph 3).
- 2.2.4 To the rear of 45 Ajax Drive lies a storage shed present upon a concrete slab (photograph 5), with a grassed area present to the north and north-west of the shed (photograph 6). The site then transitions into open, overgrown grassland to the north-west. Suspected asbestos cement roofing sheets were present to the north-east of the storage shed on the north-eastern site periphery (photograph 13)
- 2.2.5 Piled wood and branches were present in the northern corner of the site, as well as suspected Himalayan balsam which appeared to be growing on the pile (photograph 9). The site narrows to the south-west, terminating at a forested area. An area of scorched ground is present near the centre of the site (photograph 14).

2.3 Surrounding Land Use

- 2.3.1 The site is located in a predominantly residential area of Bury and is bordered by residential properties to the south with forested areas to the north, east and west. A watercourse known as Parr Brook is located some 50 m north of the site with Bury Golf Club located some 100 m north.

3. SITE HISTORY

- 3.1 The history of the site has been established using historical OS maps supplied by Groundsure. A selection of historical OS maps reviewed is presented in Appendix A.

1848-1851

- 3.2 The earliest available maps dating from 1848-1851 show the site to be vacant and occupied by open fields. The area is labelled as Blackford Brow. A watercourse is located some 50 m west of the site with a reservoir, culvert and watercourse are located some 75 m to 230 m north of the site. Residential dwellings are located some 90 m west of the site. Residential dwellings are located some 100 m west of the site.



Figure 2: Extract from the 1848-1851 map.

1893

- 3.3 The 1893 map shows that the site remains vacant. A footpath runs adjacent to the eastern boundary of the site some 5 m with a 'well' labelled some 75 m north of the site. A second reservoir is located some 230 m north-west with 'Unsworth Lodge' located some 125 m north of the site. Three reservoirs are located some 240 m north-west of the site associated with 'Blackford Bridge Print Works' which is located some 270 m north-west of the site. Tramlines have been constructed within the road located some 110 m west of the site. A pond is located some 220 m south-west.

1909

- 3.4 The 1909 map shows that the site remains vacant with an area of marshland located some 20 m north-east of the site. Additional residential dwellings have been developed some 150 m west of the site. The areas to the east and south remain largely undeveloped.

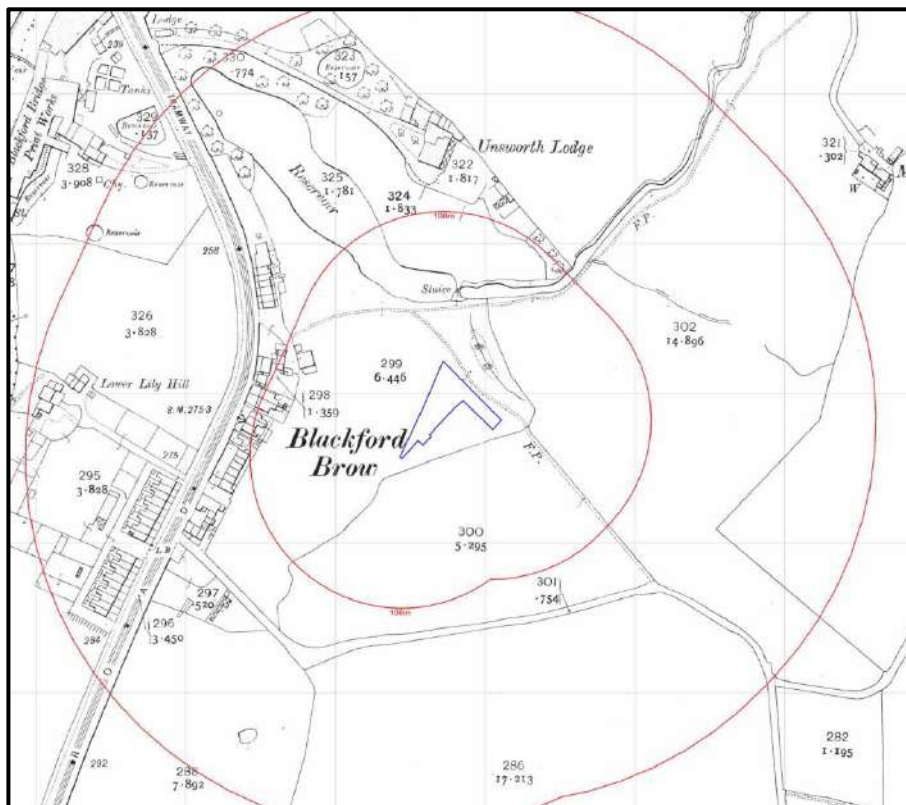


Figure 3: Extract from the 1909 map.

1922

- 3.5 The 1922 map shows that the site remains undeveloped and there are no significant changes to the surrounding areas.

1932

- 3.6 The 1932 map shows that the site remains unchanged. A spoil heap is located some 80 m south-west of the site.

1956

- 3.7 The 1956 map shows that the site remains largely vacant however the footpath located some 5 m east of the site is now shown in the east of the site. New residential development associated with Ajax Drive has been constructed adjacent to the south of the site. The spoil heap located some 80 m south-west has changed in configuration and another spoil heap is shown some 80 m north-west of the site.

- 3.8 The large reservoir located some 50 m north of the site is now labelled as Lamb Lodge Reservoir. The tramline within the A56 Manchester Road is no longer visible.

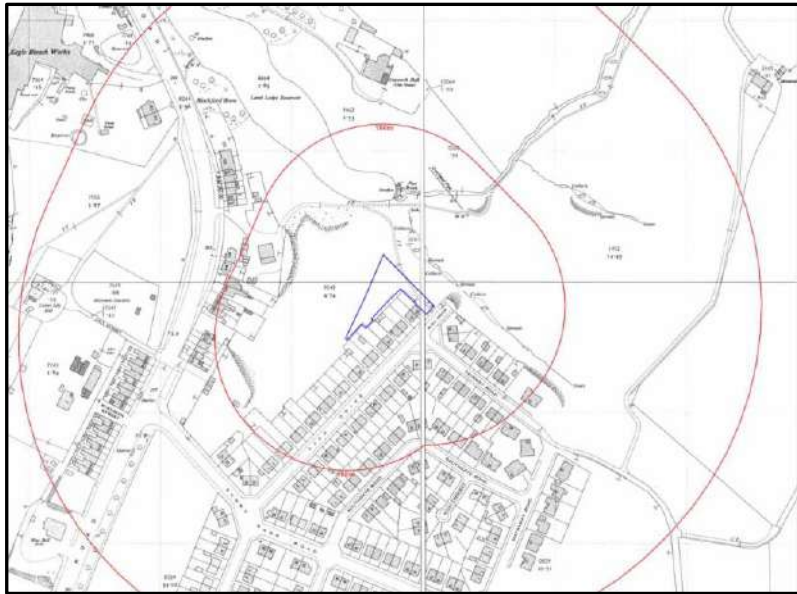


Figure 4: Extract from the 1956 map

1968

- 3.9 The 1968 map shows that two buildings have been developed in the south-east of the site (45 Ajax Drive and associated garage). The spoil heap located some 80 m south-west is labelled as a Refuse Tip. Additional residential development has been constructed to the north-east of the site with a primary school located some 230 m east of the site. An electrical substation is shown some 150 m south-east of the site.



Figure 5: Extract from the 1968 map

1983

- 3.10 The 1983 maps are incomplete, however the site remains unchanged and a garage has been constructed some 70 m west of the site. The spoil heap located some 80 m north-west of the site is no longer visible.

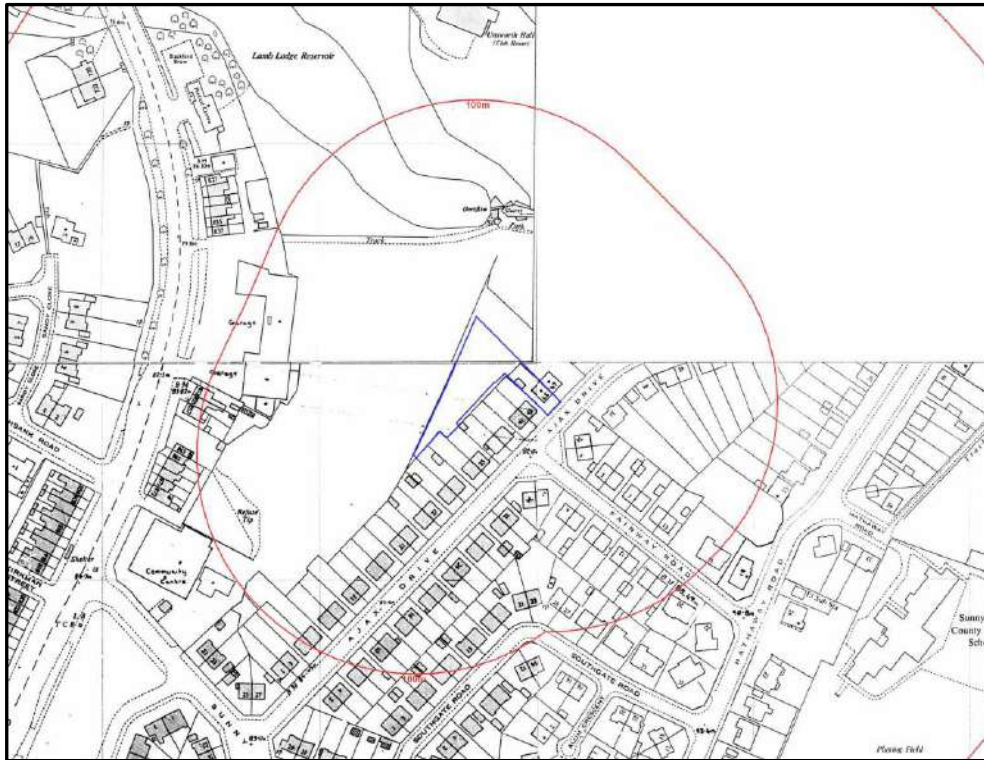


Figure 6: Extract from the 1983 map

1992-2003

- 3.11 These maps show no changes to the development site. The Refuse Tip located some 80 m south-west is no longer visible.

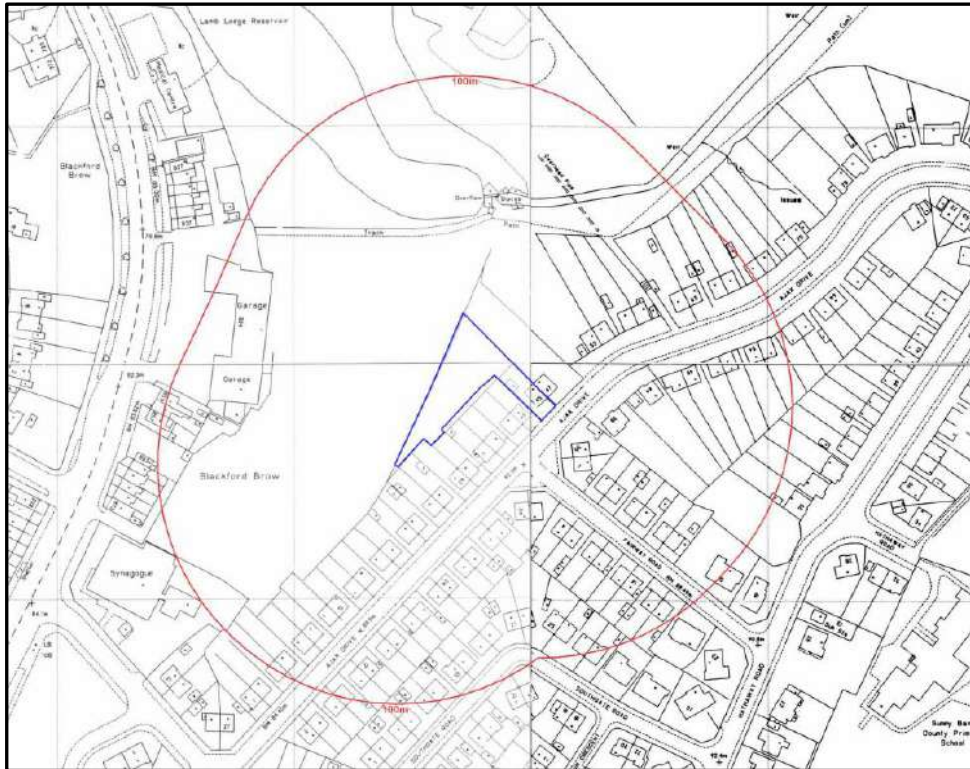


Figure 7: Extract from the 1992 map

4. ENVIRONMENTAL SETTING

4.0.1 An Enviro+GeolInsight Report has been obtained from Groundsure and information provided in these reports has been used within this section. A copy of the report is presented in Appendix B.

4.1 **Geology**

4.1.1 The site geology is illustrated in the Enviro+GeolInsight Report which has sourced data from several sources including British Geological Society (BGS), BRITPITS database and the Coal Authority.

4.1.2 In addition, BEK has sought site investigation information from the BGS website. There is one BGS Borehole located on site dating from June 1997 (BGS Ref: SD80NW366), a copy of which is included in Appendix C of this report. The borehole identified the following strata:

Grid Reference	Location	Depth (m)	Strata
373510 427560	South-east of site	0 – 0.2	Grass over clayey TOPSOIL
		0.2 – 3.2	Very stiff brown sandy CLAY (Stiff below 1.70 m)
		3.2 – 3.4	Grey fine to medium SAND
		3.4 - 10	Stiff brown sandy CLAY with occasional shale and fine to medium gravel (partially laminated between 6.2 m and 8.6 m)

Table 1: BGS Borehole on site (SD80NW366)

Made Ground

4.1.3 According to the Enviro+GeolInsight Report there are no records of made ground (artificial deposits) located on or within 250 m of the site.

Superficial Geology

4.1.4 The Enviro+GeolInsight Report indicates that the underlying superficial geology comprises Till, Devensian (Boulder Clay). This strata generally has a low permeability. Head deposits comprising of clay, silt, sand and gravel are shown to be located some 2 m north of the site.



Figure 8: Superficial Deposits

Bedrock

- 4.1.5 The Enviro+GeoInsight Report indicates that the solid geology underlying the site comprises the 'Pennine Middle Coal Measures Formation'. This strata generally has a low to moderate permeability.

Faults/Linear Features

- 4.1.6 There are no fault/linear features located within 250 m of the site.

4.2 Mining & Ground Stability

- 4.2.1 Information in the Enviro+GeoInsight Report indicates that the site is located in an area that may have been affected by coal mining. However, the site is not located within a Coal Authority designated 'Development High Risk Area' and in accordance with the Coal Authority 'Risk Based Approach to Development Management' the risks from coal mining are not considered further.
- 4.2.2 The Enviro+GeoInsight Report indicates that there are 28 surface ground workings within 250 m of the site (however a number of these are duplicates) as shown in Table 2.

Location	Land Use	Year of Mapping
26 m north-west	Refuse Heap	1965
34 m north	Reservoir	1955, 1965, 1974, 1981
38 m north	Reservoir	1907, 1915, 1923, 1932
40 m north	Reservoir	1891, 1938
46 m north	Pond	1851
78 m south-west	Unspecified Ground Workings	1932, 1938
189 m north	Pond	1851
193 m north	Reservoir	1907, 1915, 1923
239 m north-west	Pond	1965, 1974, 1981
239 m north-west	Reservoir	1955
241 m north-west	Reservoir	1907, 1915, 1923, 1932
243 m north-west	Reservoir	1938
247 m north-west	Reservoir	1938

Table 2: Summary of Surface Ground Workings

- 4.2.3 The Enviro+GeoInsight Report provides hazard ratings associated with ground subsidence at the site, as summarised below:

Shrink-Swell Clay:	Very Low
Landslides:	Very Low
Dissolution of Soluble Rocks:	Negligible
Compressible Deposits:	Negligible
Collapsible Deposits:	Very Low
Running Sands:	Very Low

- 4.2.4 It can be seen from the above that the site is unlikely to be affected by natural ground instability issues.

4.3 Hydrogeology

- 4.3.1 The underlying superficial deposits underlying the site are classified as a 'Secondary Undifferentiated' aquifer which is 'assigned where it is not possible to attribute either category A or B to a rock type.' These aquifers were formerly referred to as 'unproductive'.
- 4.3.2 The underlying bedrock is classified by the EA as a 'Secondary A Aquifer' which are described as 'permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.'
- 4.3.3 The Enviro+GeoInsight Report indicates the site is not located within a groundwater source protection zone.
- 4.3.4 There are a total of five groundwater abstractions located within 250 m of the site with one shown to be active as shown in the table below:

Location	Details
148 m north	Status: Historical Details: Spray Irrigation - Direct Name: Borehole at Bury Golf Club Original Start Date: 17/04/1997 Expiry Date: 16/04/2007
148 m north	Status: Historical Details: Spray Irrigation - Direct Name: Borehole at Bury Golf Club Original Start Date: 17/04/1997 Expiry Date: 16/04/2007
148 m north	Status: Historical Details: Spray Irrigation - Direct Name: Borehole at Bury Golf Club Original Start Date: 01/06/2007 Expiry Date: 31/03/2015
151 m north	Status: Active Details: Spray Irrigation - Direct Name: Borehole at Bury Golf Club Original Start Date: 01/04/2015 Expiry Date: 31/03/2027
151 m north	Status: Historical Details: Spray Irrigation - Direct Name: Borehole at Bury Golf Club Original Start Date: 01/06/2007 Expiry Date: 31/03/2015

Table 3: Summary of Groundwater Abstractions

4.4 Hydrology

4.4.1 There are surface water features located 49 m north and 122 m north-east (Parr Brook and Lamb Lodge Reservoir). Parr Brook is described as an inland river noted to contain water all year round and Lamb Lodge Reservoir is a lake, loch or reservoir which contains water year round.

4.4.2 There are six registered licensed discharge consent located within 250 m of the site as shown within the table below:

Location	Details
48 m north	Address: Sunny Bank Road CSO Effluent Type: Sewage Discharges – Sewer Storm Overflow Receiving Water: Parr Brook Status: Varied under EPR 2010 Effective Date: 20/09/2019
59 m north-east	Address: Linksvie Estate CSO Effluent Type: Sewage Discharges – Sewer Storm Overflow

	Receiving Water: Parr Brook Status: Varied under EPR 2010 Effective Date: 29/05/2018
62 m north-east	Address: Linksvie Estate CSO Effluent Type: Sewage Discharges – Sewer Storm Overflow Receiving Water: - Status: Revoked – Unspecified Revocation Date: 31/12/1994
140 m south-west	Address: Sunny Bank Road CSO Effluent Type: Sewage Discharges – Sewer Storm Overflow Receiving Water: - Status: Revoked – Unspecified Revocation Date: 31/12/1994
140 m south-west	Address: Sunny Bank Road CSO Effluent Type: Sewage Discharges – Sewer Storm Overflow Receiving Water: - Status: Post NRA Legislation Revocation Date: 19/09/2019

Table 4: *Licensed Discharges to Controlled Waters*

4.5 Contaminated Land & Landfill Activities

4.5.1 Information provided in the Enviro+GeoInsight Report indicates that there are no current landfill sites or waste sites located within 250 m of the site, with the exception of two historical landfills (EA/NRW records) as shown below:

Location	Details
27 m south-west	Address: Rear of 837-855 Manchester Road, Bury Waste Licence: Yes Waste Type: Inert, Industrial Environmental Permitting Regulations Licence Holder: Manchester and Bury Car Show Limited First Recorded: 31/12/1984 Last Recorded: 31/12/1985
152 m south-west	Address: Land at Glendale Avenue, Sunny Bank, Radcliffe Waste Type: Household Operator: Bury Metropolitan Borough Council End Dept First Recorded: - Last Recorded: -

Table 5: *Historical Landfill (EA/NRW Records)*

4.5.2 In addition, there was refuse tip located some 75 m south-west of the site dated 1968.

4.5.3 There are no registered waste exemptions, historical waste sites and licensed waste sites located within 250 m of the site.

- 4.5.4 There has been one EA recorded pollution incident located within 250 m of the site. This is located some 48 m north of the site and refers to Sewage materials from storm sewage released in August 2003. The incident was classified as Category 3 (minor impact) to water and a Category 4 (no impact) to land and air.
- 4.5.5 There are no NIHHS or COMAH sites, recorded Part A(1), Part A(2), or IPPC Authorised Activities located within 250 m of the site. However, there are two Part B licensed pollutant release located 73 m west and 245 m south-east of the site which refer to a Waste Oil Burner at Walker Farrimond Volvo Ltd and a current permit for Dry Cleaning at Soap Opera respectively. No enforcements have been notified.
- 4.5.6 There are no historical petrol stations located within 250 m of the site. However, there are four historical garages however they appear to relate to the same garage between 61 m and 70 m west dating from 1983 to 1992.
- 4.5.7 There are five 'unspecified tanks' located 163 m north to 245 m north-west of the site which was present circa 1922-1956.
- 4.5.8 There are seven potentially contaminative recent industrial sites located within 250 m of the site, the closest of which refers to 'Giftware – Consumer products' located some 74 m south-east of the site. These industries are unlikely to impact on the site.
- 4.5.9 The Enviro+GeoInsight Report states that there are ten historical potentially contaminative uses for the site located within 250 m of the site as shown within the table below:

Location	Land Use	Year of Mapping
26 m north-west	Refuse Heap	1965
78 m south-west	Unspecified Ground Workings	1932 - 1938
188 m north-west	Print Works	1851 – 1891
191 m north-west	Dye Works	1915 – 1932
191 m north-west	Unspecified Works	1965 – 1974
191 m north-west	Dye Works	1965 – 1974
218 m north-west	Unspecified Works	1938 – 1955
232 m north-west	Unspecified Tank	1907 – 1923
242 m north-west	Unspecified Tank	1965 – 1981
244 m north-west	Unspecified Tank	1907 – 1932

Table 6: Summary of Historical Land Uses

4.6 Sensitive Land Uses

- 4.6.1 The site is not affected by any of the ecological systems identified as a statutory receptor in the DETR Circular 01/2006.
- 4.6.2 The site is not located within a designated nitrate vulnerable zone.

4.7 Radon

- 4.7.1 The Enviro+GeoInsight Report states that the north of the site located within a Radon Affected Area with between 10% and 30% properties affected. Therefore full radon protection measure are required.

4.8 Unexploded Ordnance

- 4.8.1 The regional unexploded bomb risk map from Zetica indicates that the site located within an area of Lancashire at LOW risk from Unexploded Ordnance (UXO) resulting from the Second World War.
- 4.8.2 BEK do not consider any further assessment to be required with respect to UXO.

5. POTENTIAL POLLUTANT LINKAGES

5.1 General

5.1.1 This section identifies the potential sources of contamination along with specific contaminants of concern, pathways and receptors that may be associated with the site based on its known history and the current condition and with respect to the re-development of the site for residential use (with homegrown produce).

5.1.2 This information is used to develop a preliminary conceptual model which is a qualitative description of potential sources of environmental pollutants, the pathways by which they are transported and the receptors:

- i) Potential sources of contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the site
- ii) Potential pathways for contamination migration: these comprise the routes or mechanisms by which contaminants may migrate from the source to the receptor including environmental migration pathways and human health exposure pathways
- iii) Potential receptors of contamination: these include future land users, ecological systems, water resources and property.

5.2 Potential Sources of Contamination

5.2.1 Based on the earliest available maps dating from 1848 the site was vacant undeveloped land which largely remained this way until circa 1956 when a footpath was noted in the east of the site. Buildings which appear to be in the same configuration of the existing 45 Ajax Drive building and associated garage/shed were located on site circa 1968 however the majority of the site has remained undeveloped and no significant risks from contamination have been identified.

5.2.2 Based on the available background information on-site sources of ground gas at the site are considered to be negligible. However, off site sources of ground gas include an inert landfill some 27 m to the south-west and a municipal landfill site located some 152 m to the south-west. There was also a spoil heap some 75 m to the south-west.

5.2.3 However, considering the age and distance of these features, the anticipated risk level is considered to be low. BGS data has also confirmed the presence of laterally continuous Boulder Clay over the site and the wider area. This is also confirmed by on-site BGS Borehole. The Boulder Clay is relatively impermeable and will significantly inhibit any gas migration to the site. As such, risks from ground gas are considered to be very low/negligible.

6. CONCLUSIONS & RECOMMENDATIONS

- 6.1 Based on the findings of the Preliminary Risk Assessment herein, no significant risks from contamination and/or ground gas have been identified.
- 6.2 However, site investigation works are recommended to confirm that ground conditions are as anticipated and to support a geotechnical assessment to determine foundation design for the new build. Soakaway testing may also be required to support surface water drainage design.

APPENDIX A

Historical OS Maps

Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: County Series Town Plan

Map date: 1891

Scale: 1:500

Printed at: 1:1,000



Surveyed 1891
 Revised N/A
 Edition N/A
 Copyright N/A
 Levelled N/A

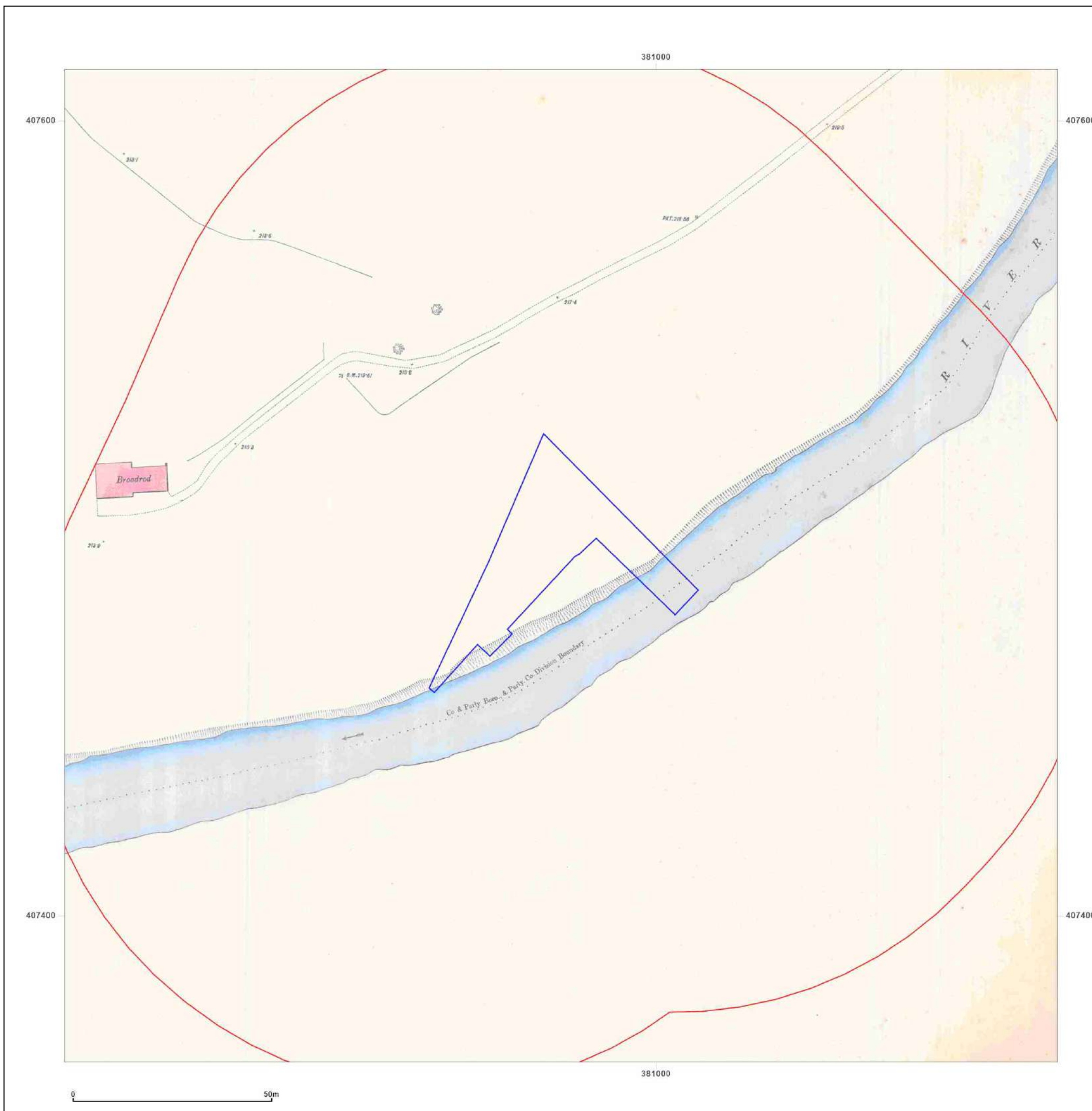


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Production date: 06 September 2023

Map legend available at:
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Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
 Revised 1893
 Edition N/A
 Copyright N/A
 Levelled N/A

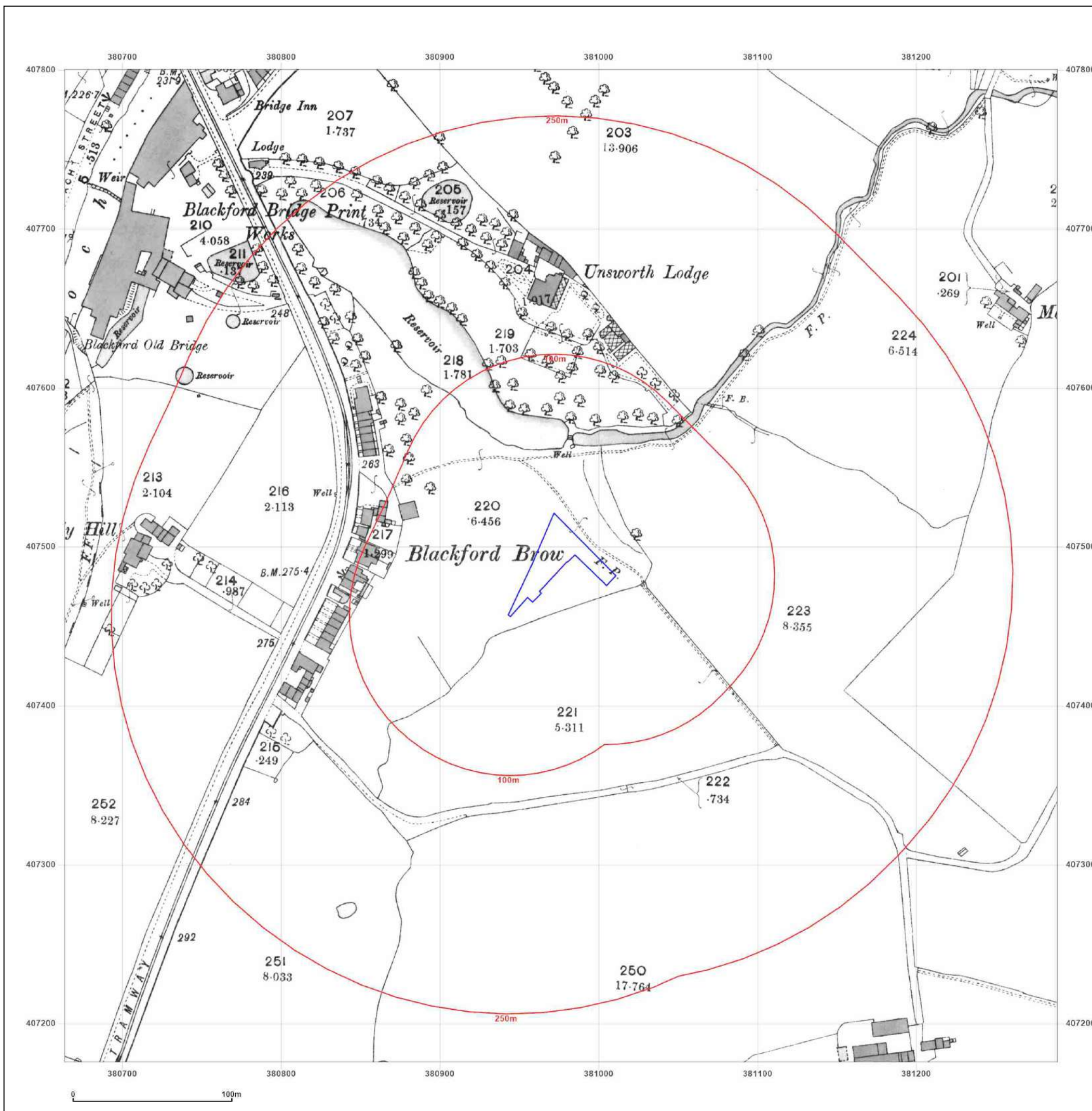


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Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



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



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Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

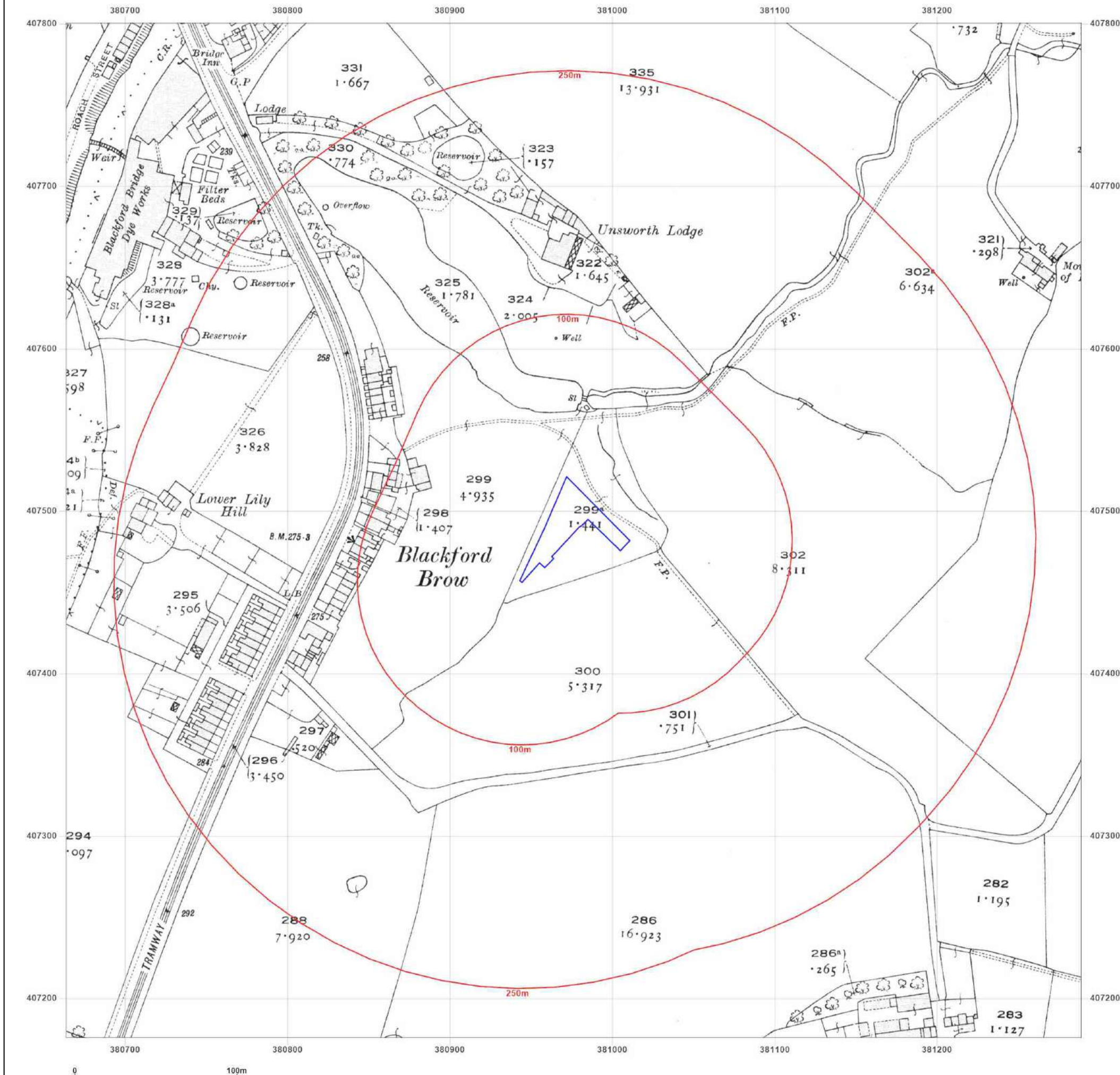


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Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-90X-TUP
Grid Ref: 380976, 407488

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1932
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

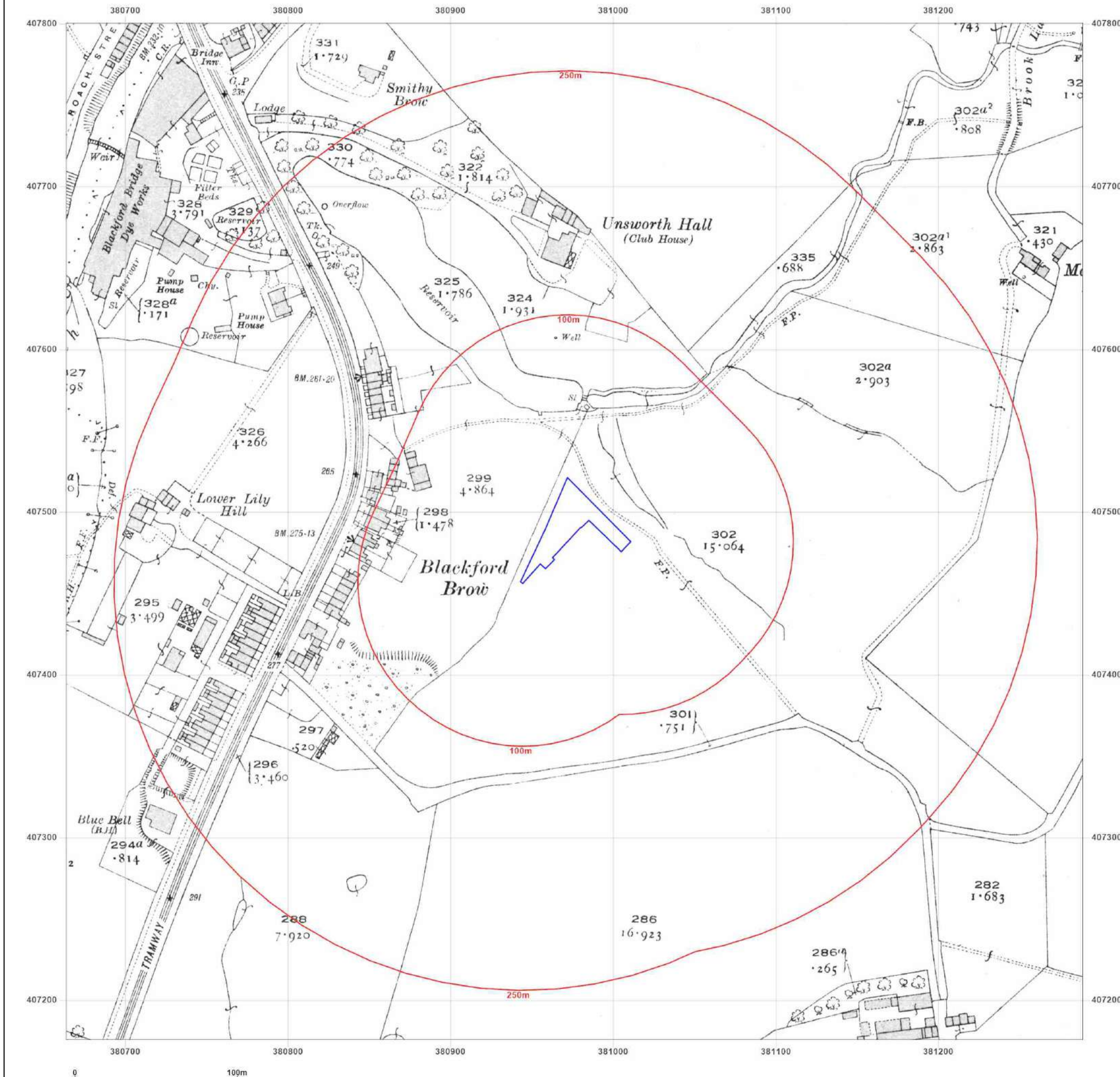


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Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1956
 Revised 1956
 Edition N/A
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Surveyed 1956
 Revised 1956
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 Levelled 1927

Surveyed 1956
 Revised 1956
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 Revised 1956
 Edition N/A
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 Levelled 1927

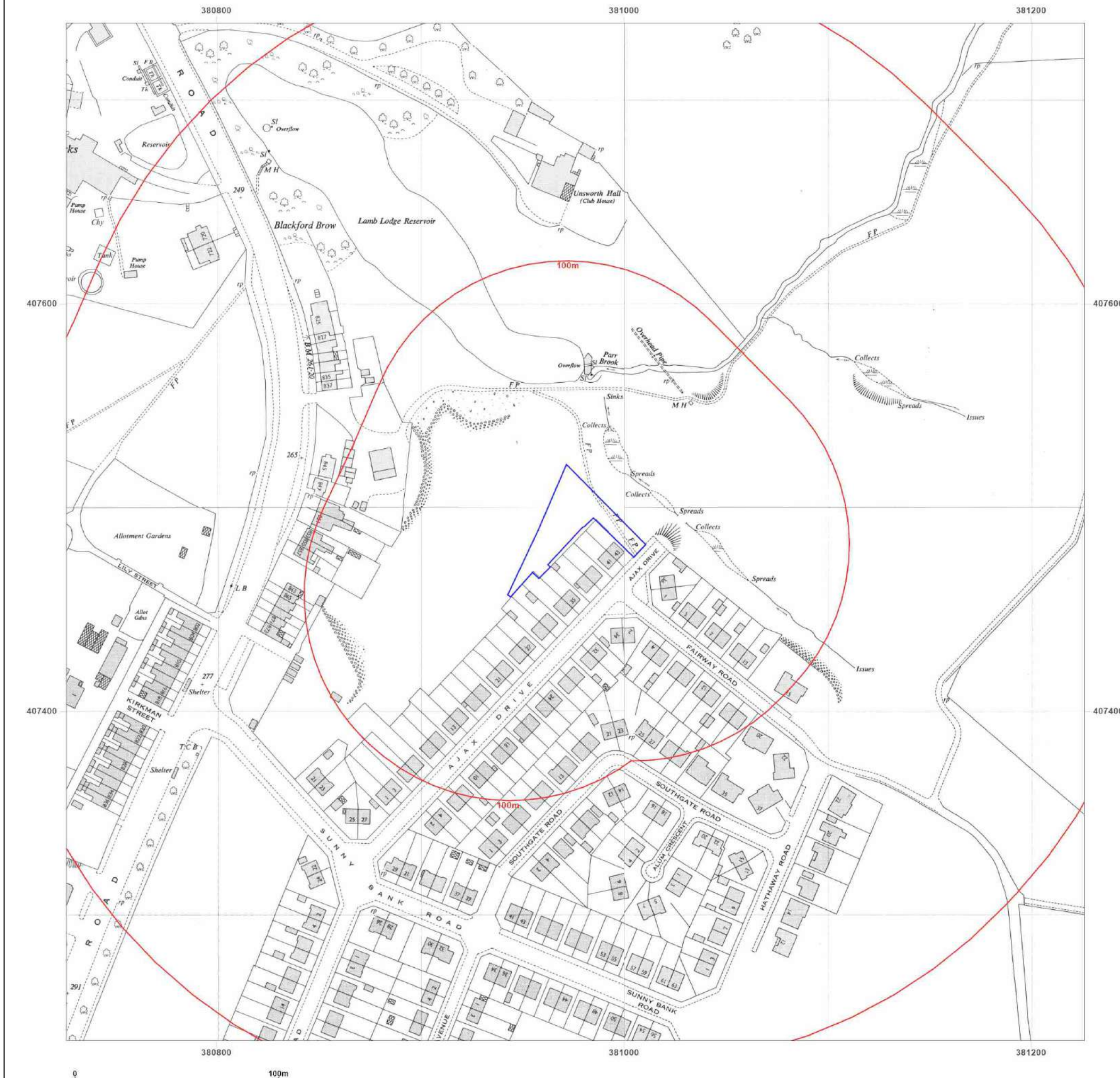


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Site Details:

45, AJAX DRIVE, BURY, BL9 8EF

Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1956

Scale: 1:2,500

Printed at: 1:2,500



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Site Details:

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Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



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 Edition N/A
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Surveyed 1956
 Revised N/A
 Edition N/A
 Copyright 1957
 Levelled 1927

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

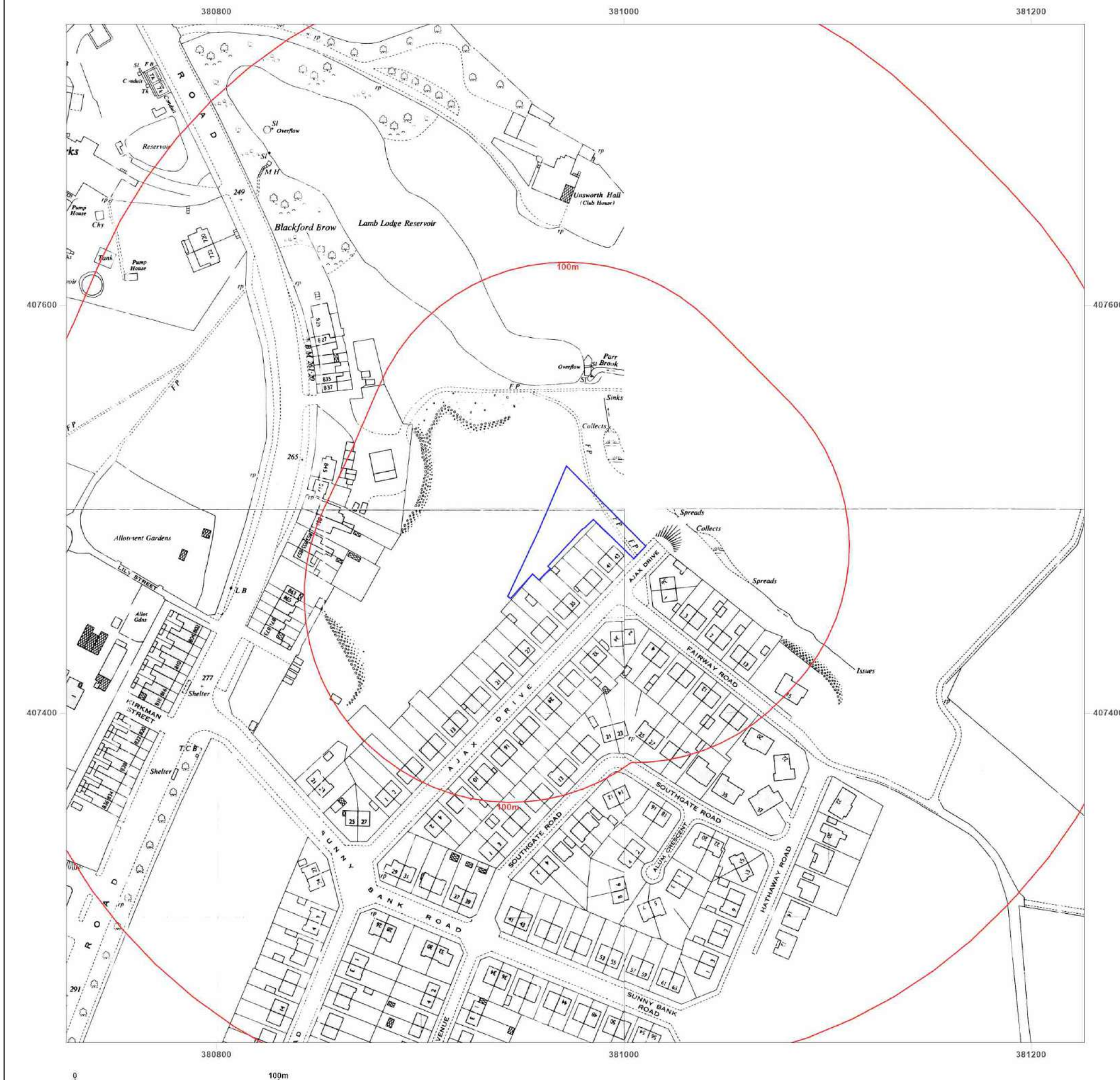


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Site Details:

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Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1963-1964

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1963
 Revised 1963
 Edition N/A
 Copyright 1964
 Levelled 1962

Surveyed 1956
 Revised 1963
 Edition N/A
 Copyright 1963
 Levelled 1962

Surveyed 1963
 Revised 1963
 Edition N/A
 Copyright 1964
 Levelled 1963

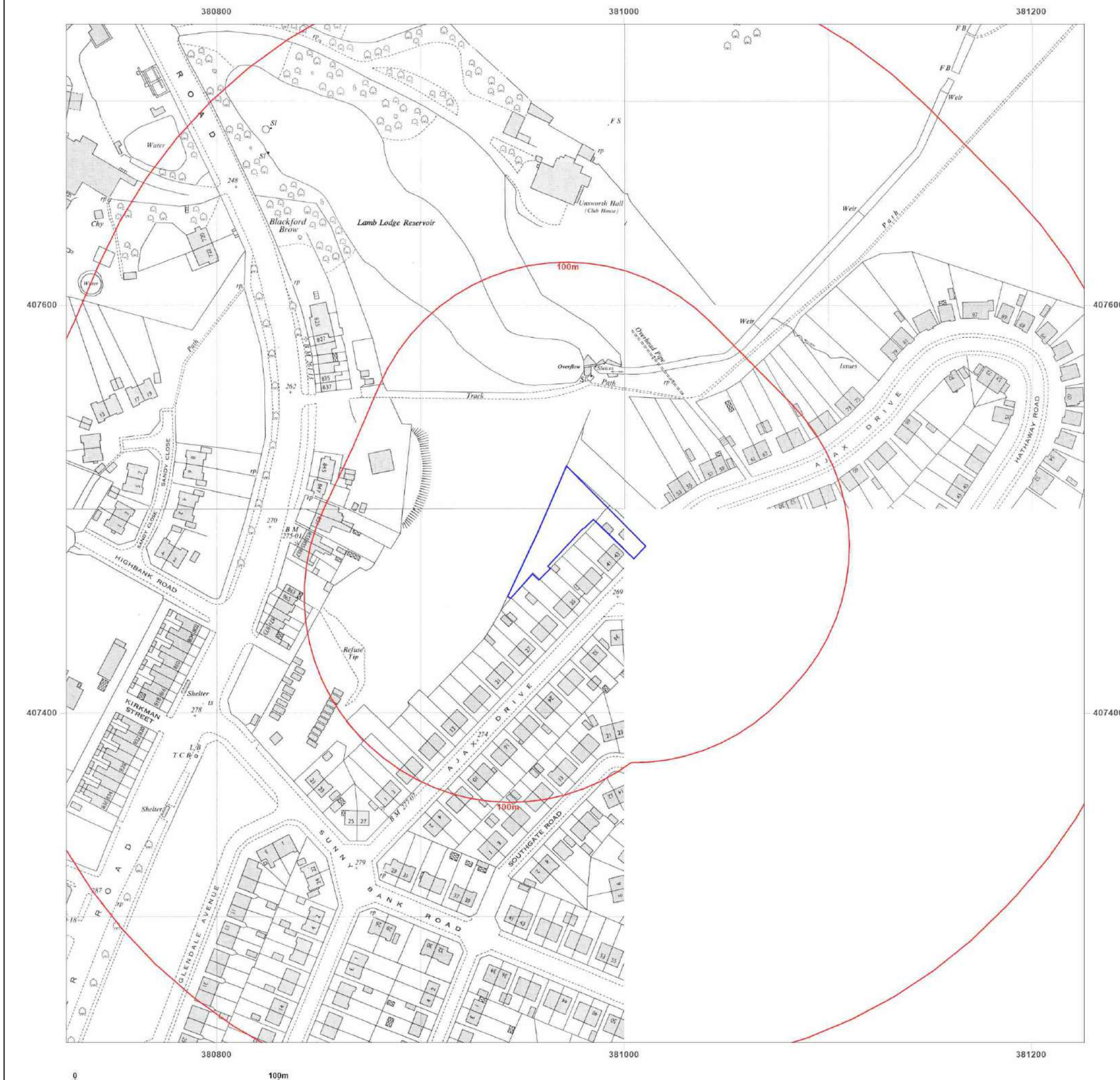


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Site Details:

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Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1968

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1970
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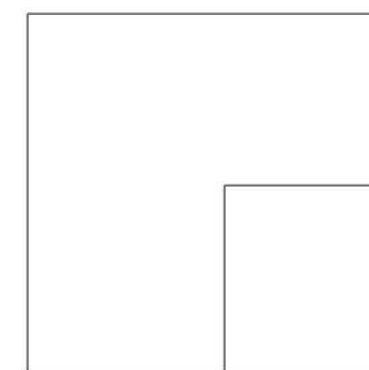
Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1969

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1968
 Revised 1968
 Edition N/A
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Site Details:

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Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1983

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
 Revised 1983
 Edition N/A
 Copyright 1983
 Levelled 1962

Surveyed 1962
 Revised 1983
 Edition N/A
 Copyright 1983
 Levelled 1962

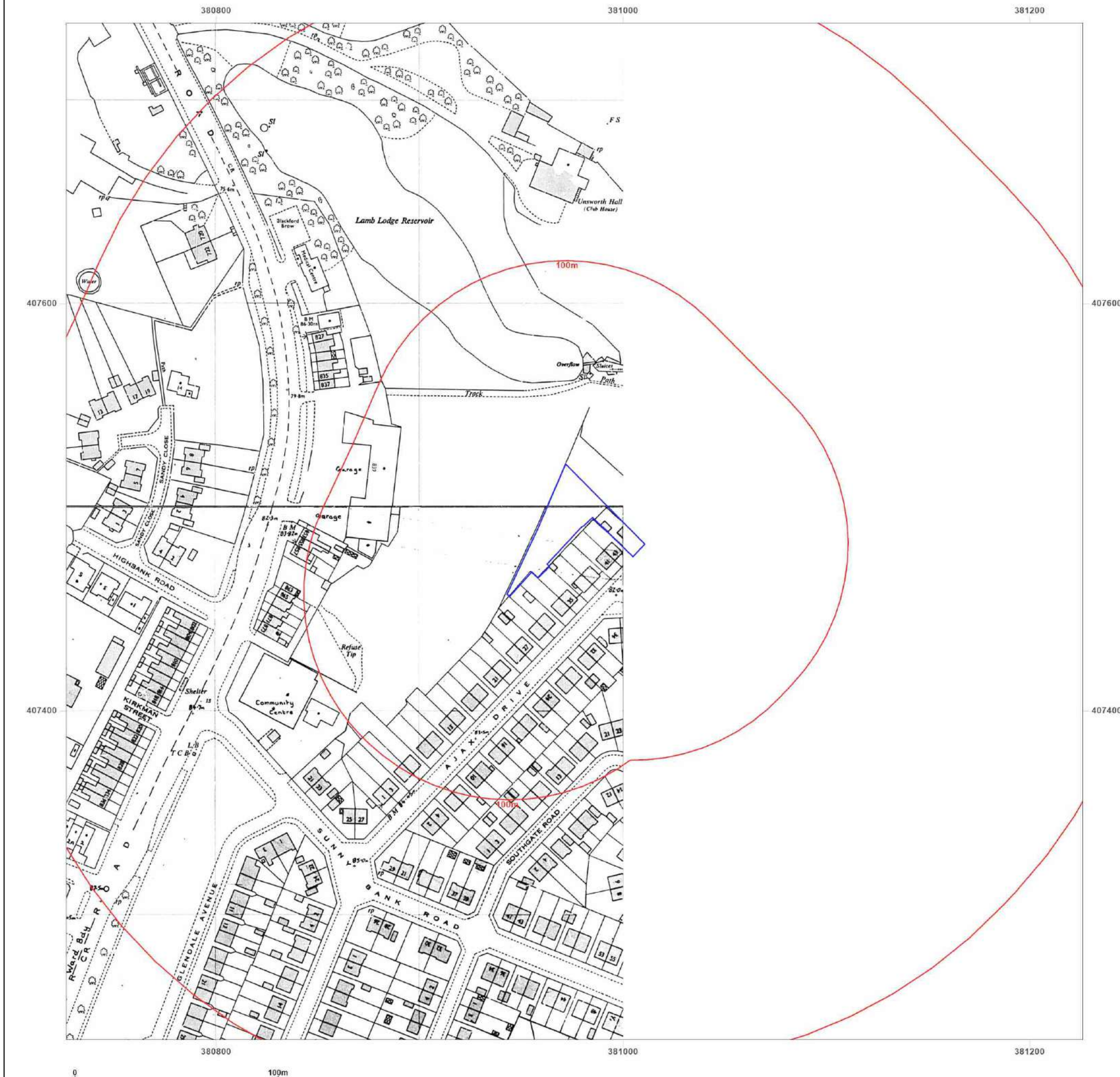


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Site Details:

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Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1983-1985

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
 Revised 1983
 Edition N/A
 Copyright 1983
 Levelled 1962

Surveyed 1962
 Revised 1983
 Edition N/A
 Copyright 1983
 Levelled 1962

Surveyed 1963
 Revised 1985
 Edition N/A
 Copyright 1985
 Levelled 1963

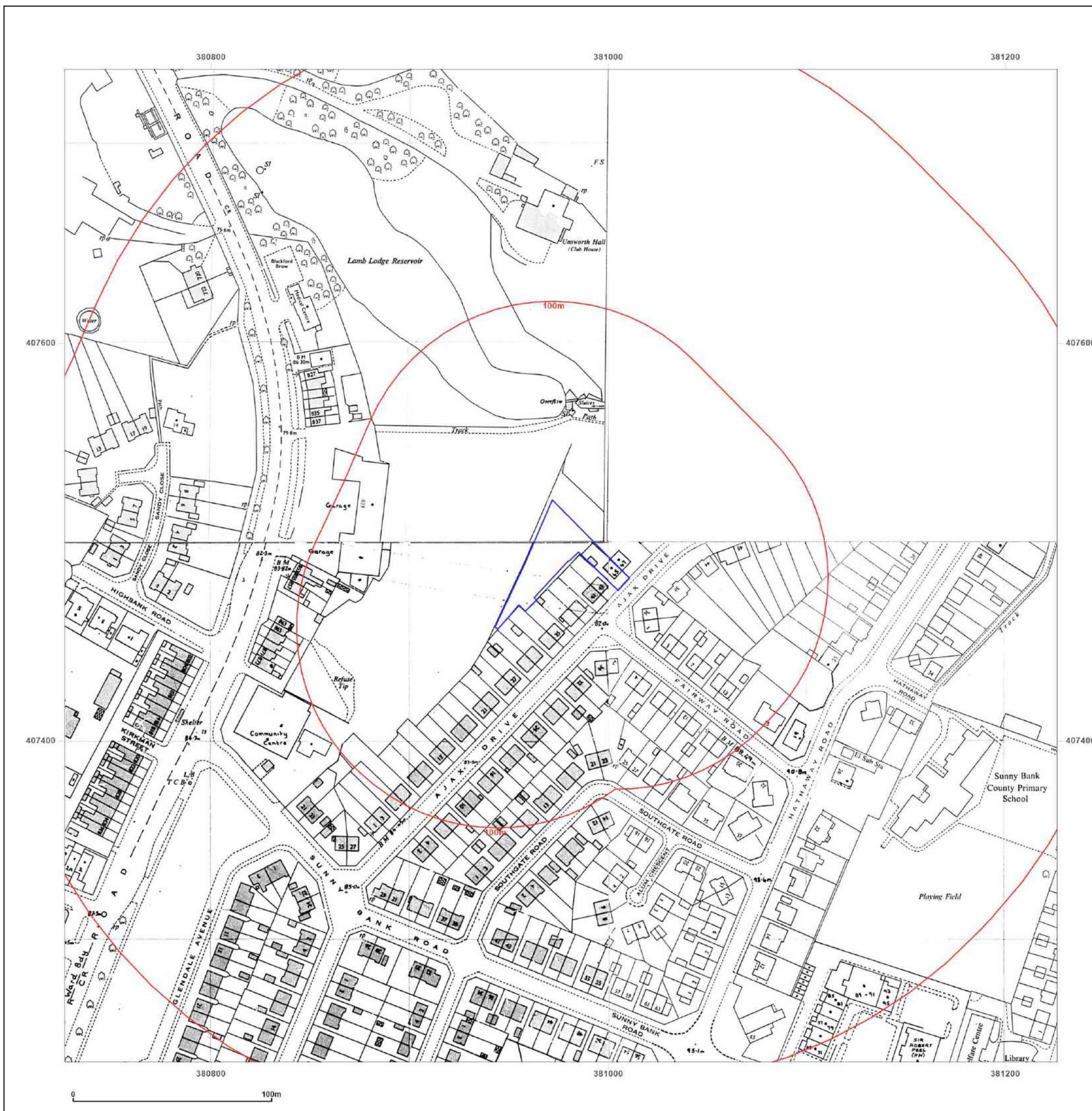


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Site Details:

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Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1992
 Revised 1992
 Edition N/A
 Copyright N/A
 Levelled N/A

Surveyed 1992
 Revised N/A
 Edition N/A
 Copyright 1992
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Site Details:

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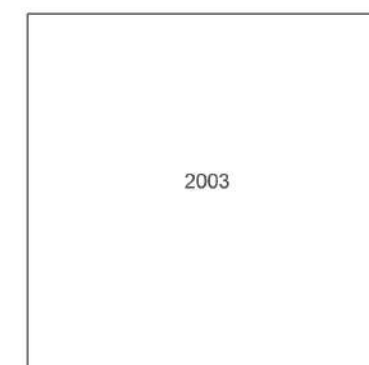
Client Ref: 7921-23119-AH
Report Ref: GS-SAT-BJH-9OX-TUP
Grid Ref: 380976, 407488

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

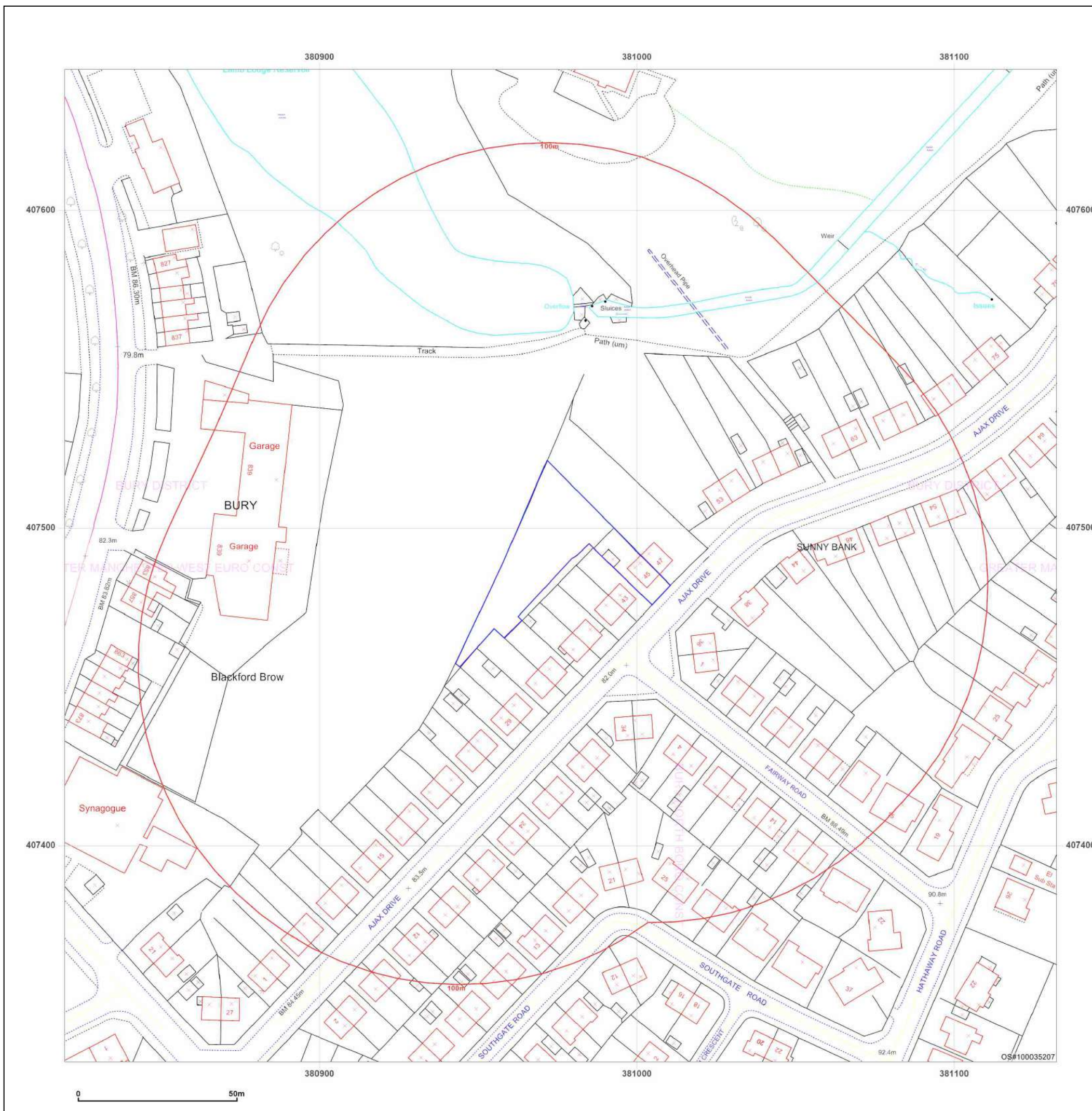


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Production date: 06 September 2023

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APPENDIX B

Enviro+GeoInsight Report

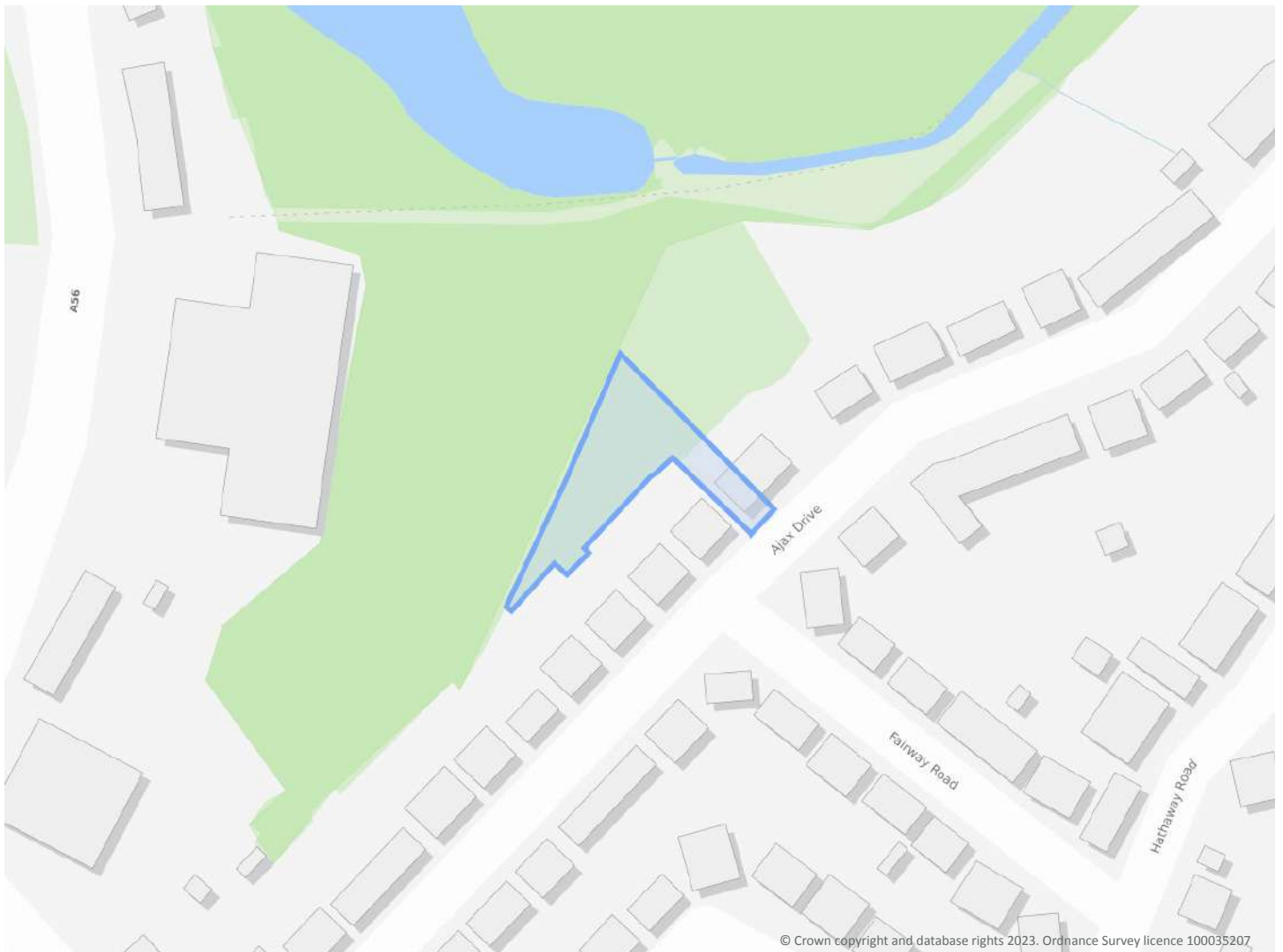
45, AJAX DRIVE, BURY, BL9 8EF

Order Details

Date: 06/09/2023
Your ref: 7921-23119-AH
Our Ref: GS-NVN-GEL-RKN-UT6

Site Details

Location: 380974 407498
Area: 0.12 ha
Authority: [Bury Metropolitan Borough Council](#) ↗



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Summary of findings

[p. 2 >](#) **Aerial image**

[p. 9 >](#)

OS MasterMap site plan

[p.13 >](#) groundsure.com/insightuserguide ↗

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01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	0	1	9	20	-
16 >	1.2 >	Historical tanks >	0	0	3	20	-
17 >	1.3 >	Historical energy features >	0	0	1	9	-
18	1.4	Historical petrol stations	0	0	0	0	-
18 >	1.5 >	Historical garages >	0	0	4	2	-
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 >	Historical industrial land uses >	0	1	22	30	-
21 >	2.2 >	Historical tanks >	0	0	5	25	-
23 >	2.3 >	Historical energy features >	0	0	3	15	-
24	2.4	Historical petrol stations	0	0	0	0	-
24 >	2.5 >	Historical garages >	0	0	6	2	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	2	2	-
26 >	3.4 >	Historical landfill (EA/NRW records) >	0	1	1	2	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
28 >	4.1 >	Recent industrial land uses >	0	0	7	-	-
29 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
29	4.3	Electricity cables	0	0	0	0	-
30	4.4	Gas pipelines	0	0	0	0	-
30	4.5	Sites determined as Contaminated Land	0	0	0	0	-



30	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	-
31	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
31	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
31 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	3	1	-
32	4.12	Radioactive Substance Authorisations	0	0	0	0	-
32 >	4.13 >	Licensed Discharges to controlled waters >	0	1	5	2	-
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	-
34	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34 >	4.18 >	Pollution Incidents (EA/NRW) >	0	1	0	1	-
34	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 >	Superficial aquifer >	Identified (within 500m)				
38 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
39 >	5.3 >	Groundwater vulnerability >	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	5	0	26
49 >	5.7 >	Surface water abstractions >	0	0	0	0	14
53 >	5.8 >	Potable abstractions >	0	0	0	0	5
55	5.9	Source Protection Zones	0	0	0	0	-
55	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
56 >	6.1 >	Water Network (OS MasterMap) >	0	2	2	-	-



57 >	6.2 >	Surface water features >	0	2	1	-	-
57 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
58 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
58 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
59 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
60	7.2	Historical Flood Events	0	0	0	-	-
60	7.3	Flood Defences	0	0	0	-	-
60	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
60	7.5	Flood Storage Areas	0	0	0	-	-
61 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
62 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
63 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
65 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
66	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
67	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
67	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
67	10.4	Special Protection Areas (SPA)	0	0	0	0	0
67	10.5	National Nature Reserves (NNR)	0	0	0	0	0
68 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
68	10.7	Designated Ancient Woodland	0	0	0	0	0
68	10.8	Biosphere Reserves	0	0	0	0	0
68	10.9	Forest Parks	0	0	0	0	0
69	10.10	Marine Conservation Zones	0	0	0	0	0
69 >	10.11 >	Green Belt >	1	0	1	0	2
69	10.12	Proposed Ramsar sites	0	0	0	0	0



69	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
70	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
70	10.15	Nitrate Sensitive Areas	0	0	0	0	0
70	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
71 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
72	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
73	11.1	World Heritage Sites	0	0	0	-	-
73	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
73	11.3	National Parks	0	0	0	-	-
73	11.4	Listed Buildings	0	0	0	-	-
74	11.5	Conservation Areas	0	0	0	-	-
74	11.6	Scheduled Ancient Monuments	0	0	0	-	-
74	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
75 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
76	12.2	Open Access Land	0	0	0	-	-
76	12.3	Tree Felling Licences	0	0	0	-	-
76	12.4	Environmental Stewardship Schemes	0	0	0	-	-
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 >	Priority Habitat Inventory >	2	3	7	-	-
78 >	13.2 >	Habitat Networks >	0	0	6	-	-
79	13.3	Open Mosaic Habitat	0	0	0	-	-
79	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 >	10k Availability >	Identified (within 500m)				
81 >	14.2 >	Artificial and made ground (10k) >	0	1	4	7	-
83 >	14.3 >	Superficial geology (10k) >	1	2	2	3	-

84 >	14.4 >	Landslip (10k) >	0	0	0	5	-
85 >	14.5 >	Bedrock geology (10k) >	1	0	1	2	-
86 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	2	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
87 >	15.1 >	50k Availability >	Identified (within 500m)				
88 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
89	15.3	Artificial ground permeability (50k)	0	0	-	-	-
90 >	15.4 >	Superficial geology (50k) >	1	1	2	3	-
91 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
91 >	15.6 >	Landslip (50k) >	0	0	0	1	-
92	15.7	Landslip permeability (50k)	None (within 50m)				
93 >	15.8 >	Bedrock geology (50k) >	1	0	0	2	-
94 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
94 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	1	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	16.1 >	BGS Boreholes >	1	1	2	-	-
Page	Section	Natural ground subsidence >					
97 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
98 >	17.2 >	Running sands >	Very low (within 50m)				
99 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
100 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
101 >	17.5 >	Landslides >	Low (within 50m)				
103 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
105	18.1	BritPits	0	0	0	0	-
106 >	18.2 >	Surface ground workings >	0	12	16	-	-
107	18.3	Underground workings	0	0	0	0	0
107	18.4	Underground mining extents	0	0	0	0	-
107 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-



108	18.6	Non-coal mining	0	0	0	0	0
108	18.7	JPB mining areas	None (within 0m)				
108	18.8	The Coal Authority non-coal mining	0	0	0	0	-
108	18.9	Researched mining	0	0	0	0	-
109	18.10	Mining record office plans	0	0	0	0	-
109	18.11	BGS mine plans	0	0	0	0	-
109 >	18.12 >	Coal mining >	Identified (within 0m)				
109	18.13	Brine areas	None (within 0m)				
110	18.14	Gypsum areas	None (within 0m)				
110	18.15	Tin mining	None (within 0m)				
110	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
111	19.1	Natural cavities	0	0	0	0	-
111	19.2	Mining cavities	0	0	0	0	0
111	19.3	Reported recent incidents	0	0	0	0	-
111	19.4	Historical incidents	0	0	0	0	-
112	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
113 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	21.1 >	BGS Estimated Background Soil Chemistry >	4	2	-	-	-
115	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
116	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
117	22.1	Underground railways (London)	0	0	0	-	-
117	22.2	Underground railways (Non-London)	0	0	0	-	-
117	22.3	Railway tunnels	0	0	0	-	-
117	22.4	Historical railway and tunnel features	0	0	0	-	-
117	22.5	Royal Mail tunnels	0	0	0	-	-



118	22.6	Historical railways	0	0	0	-	-
118	22.7	Railways	0	0	0	-	-
118	22.8	Crossrail 1	0	0	0	0	-
118	22.9	Crossrail 2	0	0	0	0	-
118	22.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.12ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 6 September 2023

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.12ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 6 September 2023

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 0.12ha



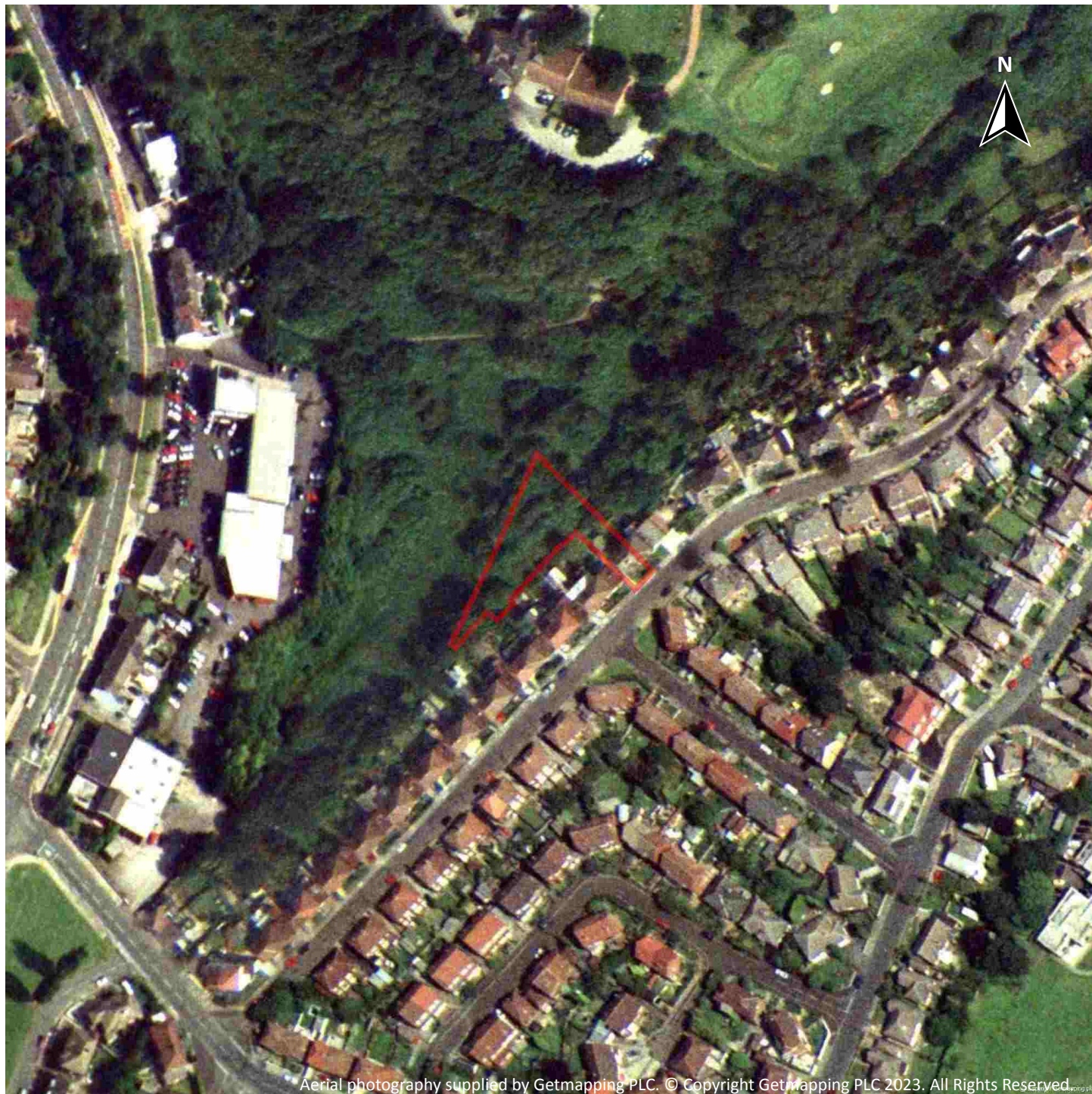
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 6 September 2023

Recent site history - 2000 aerial photograph



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Capture Date: 27/06/2000

Site Area: 0.12ha



Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 6 September 2023

OS MasterMap site plan



Site Area: 0.12ha



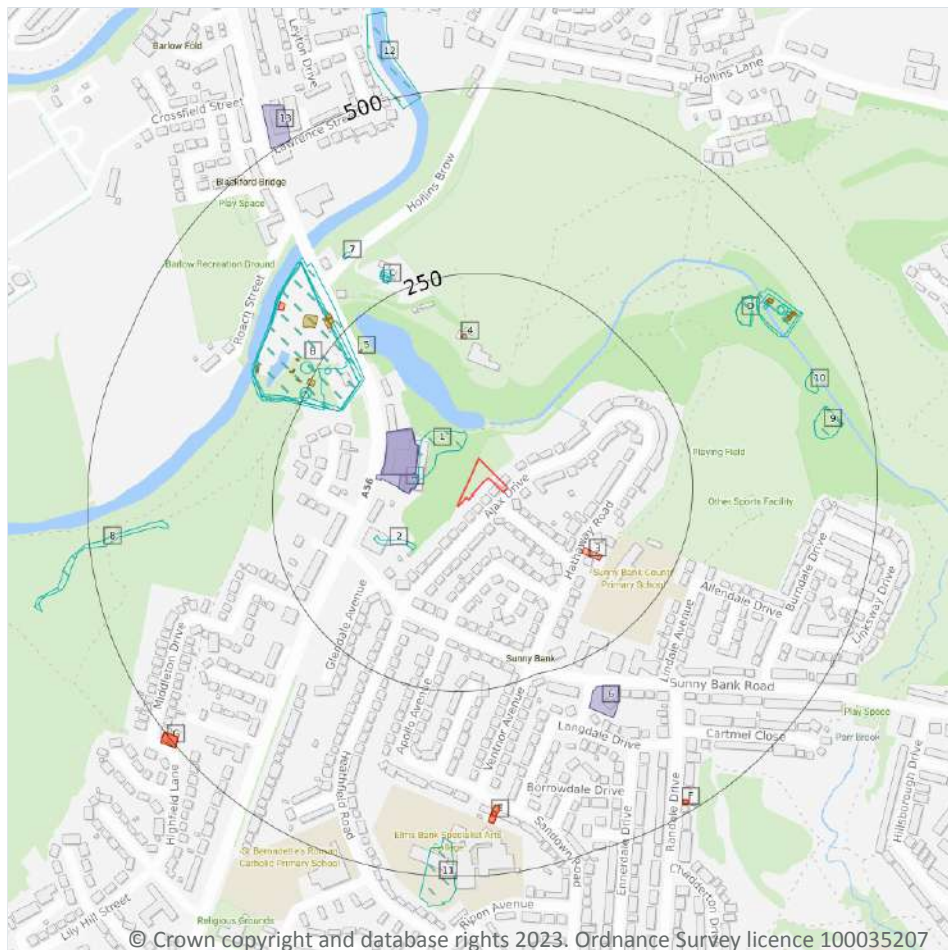
Contact us with any questions at:

info@groundsure.com

01273 257 755

Date: 6 September 2023

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

30

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
1	26m NW	Refuse Heap	1965	677978



ID	Location	Land use	Dates present	Group ID
2	78m SW	Unspecified Ground Workings	1932 - 1938	710830
B	188m NW	Print Works	1851 - 1891	752642
B	191m NW	Unspecified Commercial/Industrial	1907	643333
B	191m NW	Dye Works	1915 - 1932	753920
B	191m NW	Unspecified Works	1965 - 1974	733058
B	218m NW	Dye Works	1938 - 1955	763004
B	232m NW	Unspecified Tank	1907 - 1923	781816
B	242m NW	Unspecified Tank	1965 - 1981	734717
B	244m NW	Unspecified Tank	1907 - 1932	729691
B	255m NW	Unspecified Tank	1974 - 1981	721678
C	266m NW	Smithy	1955	721144
C	271m NW	Smithy	1938	710446
C	271m NW	Smithy	1974	734273
7	325m NW	Smithy	1851	692994
D	385m NE	Unspecified Pit	1965	713829
D	385m NE	Unspecified Pit	1974 - 1981	767357
8	392m W	Unspecified Ground Workings	1965	648187
D	412m NE	Unspecified Works	1965	679045
D	414m NE	Sewage Works	1932 - 1938	709131
9	422m E	Unspecified Pit	1965 - 1981	717267
D	422m NE	Unspecified Tank	1955	733403
10	425m E	Unspecified Pit	1974 - 1981	740331
D	427m NE	Unspecified Tank	1932 - 1938	710712
D	434m NE	Unspecified Tank	1932 - 1938	698135
D	435m NE	Unspecified Tank	1955	674823
D	436m NE	Unspecified Tank	1965	719723
D	444m NE	Unspecified Tank	1932 - 1938	761051
11	448m S	Unspecified Pit	1974 - 1981	705982



ID	Location	Land use	Dates present	Group ID
12	483m N	Cuttings	1965	642591

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	23
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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
4	163m N	Unspecified Tank	1992	85030
5	214m NW	Unspecified Tank	1922 - 1932	92956
B	244m NW	Unspecified Tank	1956	97174
B	263m NW	Tanks	1956	96468
B	266m NW	Tanks	1922 - 1932	92471
B	269m NW	Unspecified Tank	1956	99782
B	275m NW	Unspecified Tank	1956	94279
B	276m NW	Tanks	1956	101428
B	276m NW	Tanks	1956	92536
B	276m NW	Tanks	1956	99497
B	277m NW	Unspecified Tank	1956	103640
B	277m NW	Tanks	1956	91358
B	277m NW	Unspecified Tank	1956	95336
B	278m NW	Tanks	1956	91977
B	283m NW	Tanks	1909	87875
B	320m NW	Unspecified Tank	1956	85029
B	321m NW	Unspecified Tank	1956	85028



ID	Location	Land use	Dates present	Group ID
D	430m NE	Unspecified Tank	1932	84662
D	433m NE	Settling Tanks	1956	78175
D	433m NE	Settling Tank	1956	78449
D	438m NE	Unspecified Tank	1932	84661
D	442m NE	Settling Tank	1956	78448
D	444m NE	Settling Tanks	1956	78176

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

10

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
3	132m SE	Electricity Substation	1968 - 1985	50442
B	331m NW	Electricity Substation	1956	51684
E	406m S	Electricity Substation	1983	55689
E	407m S	Electricity Substation	1992	58976
E	414m S	Electricity Substation	1956	46998
F	482m SE	Electricity Substation	1985	50798
F	482m SE	Electricity Substation	1968 - 1969	50653
G	490m SW	Electricity Substation	1956	49920
G	490m SW	Electricity Substation	1956	48879
G	491m SW	Electricity Substation	1983 - 1992	58919

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**6**

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	61m W	Garage	1992	16410
A	62m W	Garage	1983	18476
A	68m W	Garage	1992	17163
A	70m W	Garage	1983	17364
6	291m SE	Garage	1985	14611
13	500m NW	Garage	1992	15165

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

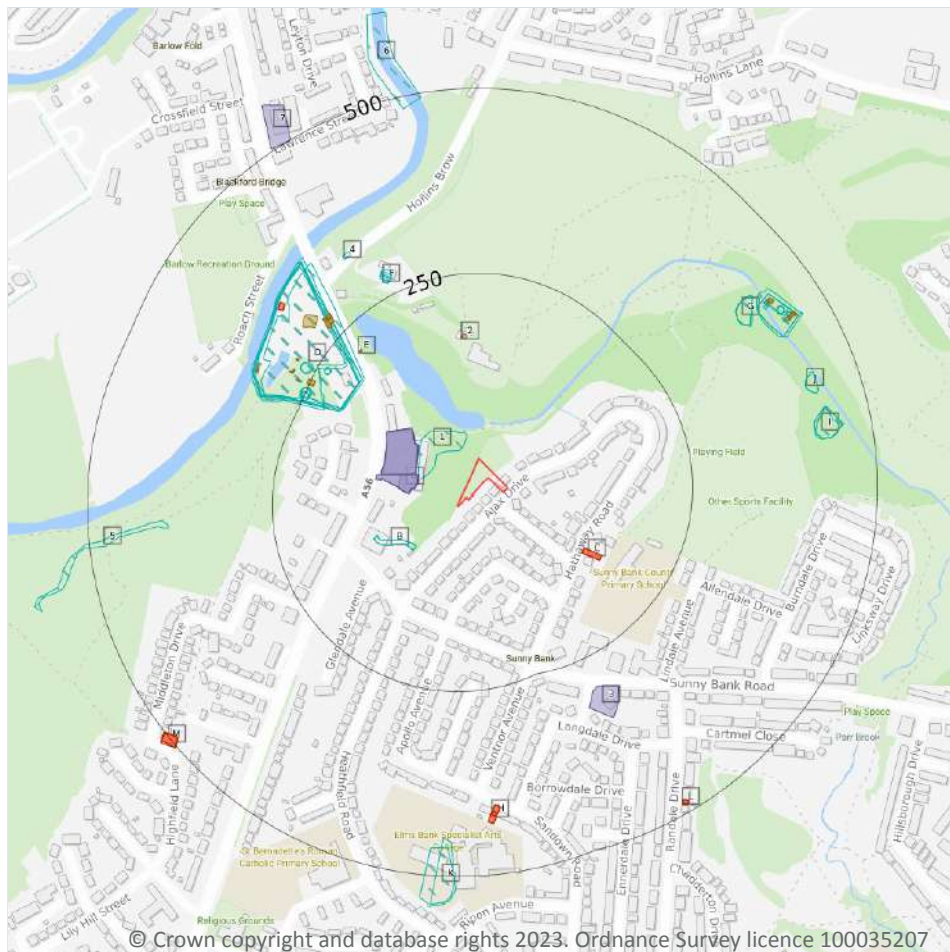
Records within 500m**0**

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

53

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
1	26m NW	Refuse Heap	1965	677978
B	78m SW	Unspecified Ground Workings	1932	710830
B	78m SW	Unspecified Ground Workings	1938	710830



ID	Location	Land Use	Date	Group ID
D	188m NW	Print Works	1851	752642
D	191m NW	Dye Works	1915	753920
D	191m NW	Unspecified Commercial/Industrial	1907	643333
D	191m NW	Dye Works	1932	753920
D	191m NW	Dye Works	1923	753920
D	191m NW	Unspecified Works	1974	733058
D	191m NW	Unspecified Works	1965	733058
D	192m NW	Print Works	1891	752642
D	218m NW	Dye Works	1955	763004
D	221m NW	Dye Works	1938	763004
D	232m NW	Unspecified Tank	1915	781816
D	232m NW	Unspecified Tank	1907	781816
D	232m NW	Unspecified Tank	1923	781816
D	242m NW	Unspecified Tank	1981	734717
D	244m NW	Unspecified Tank	1915	729691
D	244m NW	Unspecified Tank	1907	729691
D	244m NW	Unspecified Tank	1932	729691
D	244m NW	Unspecified Tank	1923	729691
D	244m NW	Unspecified Tank	1974	734717
D	244m NW	Unspecified Tank	1965	734717
D	255m NW	Unspecified Tank	1981	721678
D	257m NW	Unspecified Tank	1974	721678
F	266m NW	Smithy	1955	721144
F	271m NW	Smithy	1938	710446
F	271m NW	Smithy	1974	734273
4	325m NW	Smithy	1851	692994
G	385m NE	Unspecified Pit	1965	713829
G	385m NE	Unspecified Pit	1981	767357



ID	Location	Land Use	Date	Group ID
G	385m NE	Unspecified Pit	1974	767357
5	392m W	Unspecified Ground Workings	1965	648187
G	412m NE	Unspecified Works	1965	679045
G	414m NE	Sewage Works	1932	709131
G	414m NE	Sewage Works	1938	709131
G	422m NE	Unspecified Tank	1955	733403
I	422m E	Unspecified Pit	1965	717267
I	424m E	Unspecified Pit	1981	717267
I	424m E	Unspecified Pit	1974	717267
J	425m E	Unspecified Pit	1981	740331
J	425m E	Unspecified Pit	1974	740331
G	427m NE	Unspecified Tank	1932	710712
G	427m NE	Unspecified Tank	1938	710712
G	434m NE	Unspecified Tank	1938	698135
G	435m NE	Unspecified Tank	1932	698135
G	435m NE	Unspecified Tank	1955	674823
G	436m NE	Unspecified Tank	1965	719723
G	444m NE	Unspecified Tank	1932	761051
G	444m NE	Unspecified Tank	1938	761051
K	448m S	Unspecified Pit	1981	705982
K	461m S	Unspecified Pit	1974	705982
6	483m N	Cuttings	1965	642591

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

30

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
2	163m N	Unspecified Tank	1992	85030
E	214m NW	Unspecified Tank	1922	92956
E	214m NW	Unspecified Tank	1932	92956
D	244m NW	Unspecified Tank	1956	97174
D	245m NW	Unspecified Tank	1956	97174
D	263m NW	Tanks	1956	96468
D	264m NW	Tanks	1956	96468
D	266m NW	Tanks	1922	92471
D	266m NW	Tanks	1932	92471
D	269m NW	Unspecified Tank	1956	99782
D	269m NW	Unspecified Tank	1956	99782
D	275m NW	Unspecified Tank	1956	94279
D	276m NW	Tanks	1956	101428
D	276m NW	Unspecified Tank	1956	94279
D	276m NW	Tanks	1956	92536
D	276m NW	Tanks	1956	99497
D	277m NW	Tanks	1956	99497
D	277m NW	Unspecified Tank	1956	103640
D	277m NW	Tanks	1956	91358
D	277m NW	Unspecified Tank	1956	95336
D	278m NW	Tanks	1956	91977
D	283m NW	Tanks	1909	87875
D	320m NW	Unspecified Tank	1956	85029
D	321m NW	Unspecified Tank	1956	85028
G	430m NE	Unspecified Tank	1932	84662
G	433m NE	Settling Tanks	1956	78175
G	433m NE	Settling Tank	1956	78449



ID	Location	Land Use	Date	Group ID
G	438m NE	Unspecified Tank	1932	84661
G	442m NE	Settling Tank	1956	78448
G	444m NE	Settling Tanks	1956	78176

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

18

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	132m SE	Electricity Substation	1985	50442
C	133m SE	Electricity Substation	1968	50442
C	133m SE	Electricity Substation	1969	50442
D	331m NW	Electricity Substation	1956	51684
D	332m NW	Electricity Substation	1956	51684
H	406m S	Electricity Substation	1983	55689
H	406m S	Electricity Substation	1983	55689
H	407m S	Electricity Substation	1992	58976
H	414m S	Electricity Substation	1956	46998
H	415m S	Electricity Substation	1956	46998
L	482m SE	Electricity Substation	1985	50798
L	482m SE	Electricity Substation	1968	50653
L	482m SE	Electricity Substation	1969	50653
M	490m SW	Electricity Substation	1956	49920
M	490m SW	Electricity Substation	1956	48879
M	491m SW	Electricity Substation	1983	58919
M	491m SW	Electricity Substation	1983	58919



ID	Location	Land Use	Date	Group ID
M	491m SW	Electricity Substation	1992	58919

This data is sourced from Ordnance Survey / Groundsure.

2.4 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. 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	8
----------------------------	----------

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'.

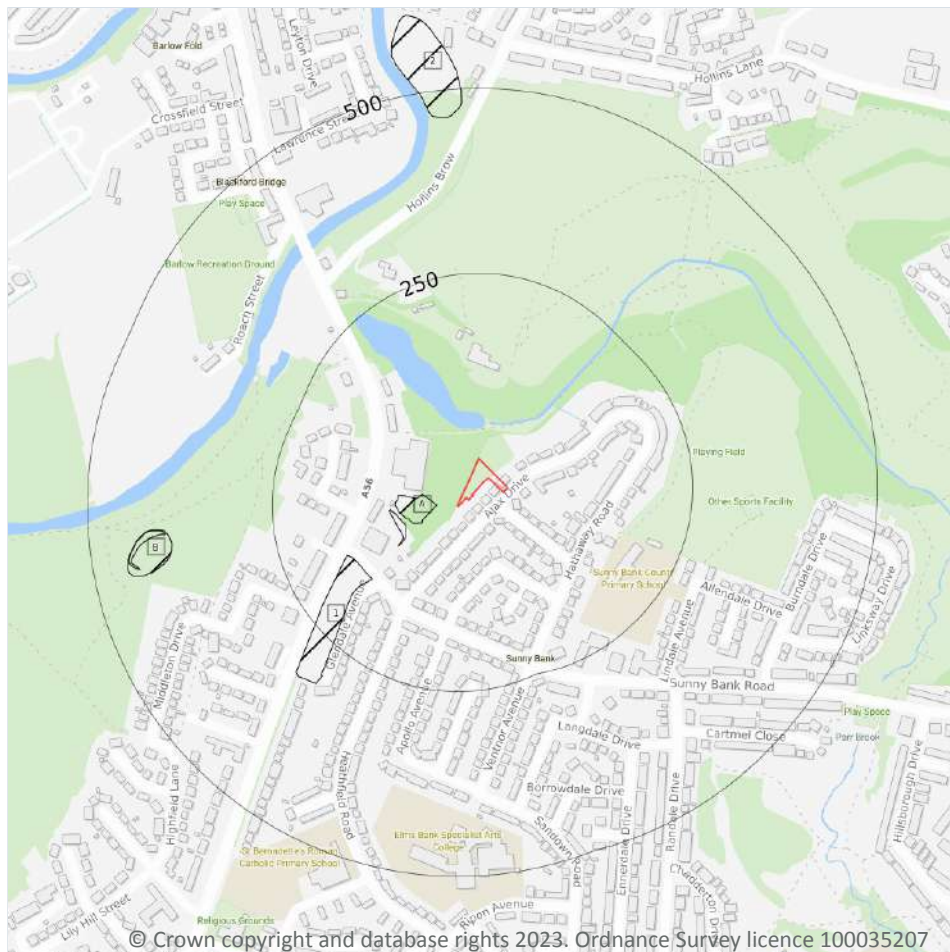
Features are displayed on the Past land use - un-grouped map on [page 19](#) >

ID	Location	Land Use	Date	Group ID
A	61m W	Garage	1992	16410
A	62m W	Garage	1983	18476
A	62m W	Garage	1983	18476
A	68m W	Garage	1992	17163
A	70m W	Garage	1983	17364
A	70m W	Garage	1983	17364
3	291m SE	Garage	1985	14611
7	500m NW	Garage	1992	15165

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

4

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

Features are displayed on the Waste and landfill map on [page 25 >](#)

ID	Location	Site address	Source	Data type
A	74m SW	Refuse Tip	1968 mapping	Polygon
A	75m SW	Refuse Tip	1963 mapping	Polygon
B	397m W	Refuse Tip	1968 mapping	Polygon
B	397m W	Refuse Tip	1963 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

4

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.

Features are displayed on the Waste and landfill map on [page 25 >](#)

ID	Location	Details		
A	27m SW	Site Address: Rear of Manchester Road, Rear of 837-855 Manchester Road, Bury, Greater Manchester Licence Holder Address: Manchester Road, Bury	Waste Licence: Yes Site Reference: RD/LIC/322/83, C014 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 03/05/1984 Licence Surrender: -	Operator: - Licence Holder: Manchester and Bury Car Show Limited First Recorded 31/12/1984 Last Recorded: 31/12/1985
1	152m SW	Site Address: Land at Glendale Avenue, Sunny Bank, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C084 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Bury Metropolitan Borough Council End Dept Licence Holder: - First Recorded - Last Recorded: -



ID	Location	Details		
B	389m W	Site Address: Whitefield Tip, Highfield Lane, Radcliffe, Bury, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C114 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Whitefield Urban District Council Licence Holder: - First Recorded 31/12/1932 Last Recorded: -
2	462m N	Site Address: Land at White Brow, Holliins Brow, Hollins, Radcliffe, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: C018 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

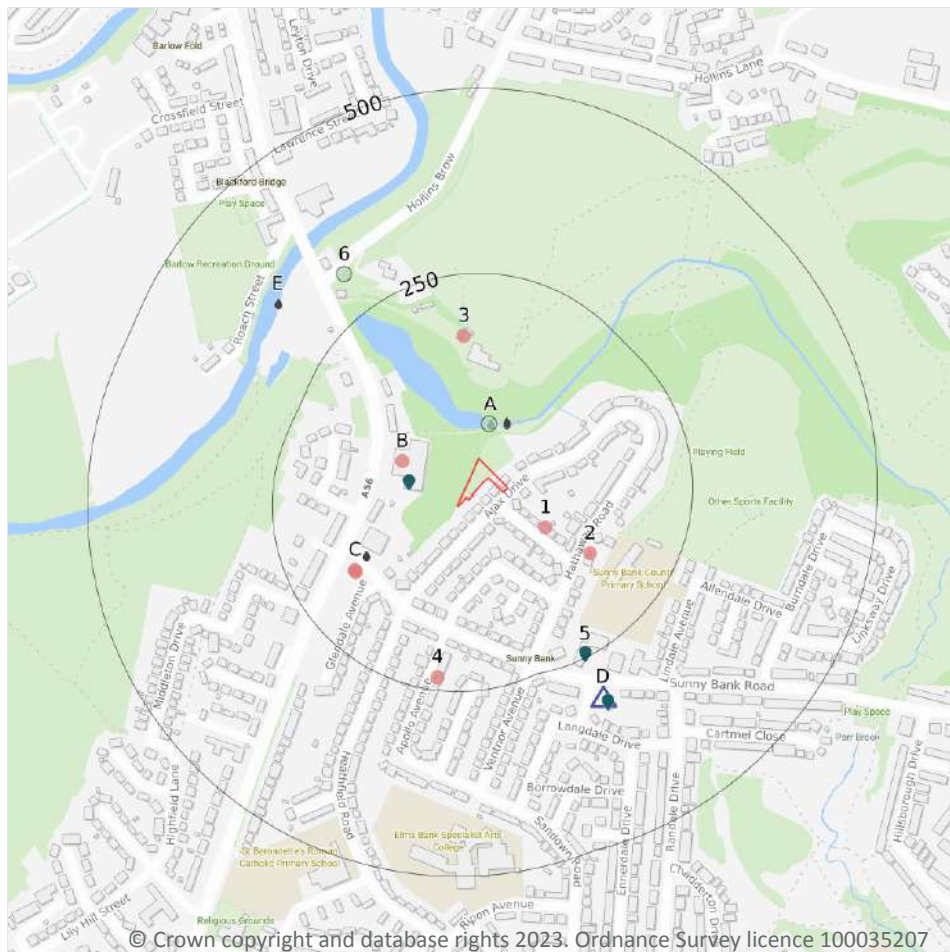
Records within 500m	0
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

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
- △ Current or recent petrol stations
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

7

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 28 >](#)

ID	Location	Company	Address	Activity	Category
1	74m SE	Party Piece	13, Fairway Road, Bury, Greater Manchester, BL9 8DY	Giftware	Consumer Products
B	93m W	Mercedes-benz of Whitefield	845, Manchester Road, Bury, Greater Manchester, BL9 9TP	New Vehicles	Motoring



ID	Location	Company	Address	Activity	Category
2	143m SE	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities
C	163m SW	Sewage Pumping Station	Greater Manchester, BL9	Waste Storage, Processing and Disposal	Infrastructure and Facilities
C	164m SW	Pumping Station	Greater Manchester, BL9	Water Pumping Stations	Industrial Features
3	167m N	Tank	Greater Manchester, BL9	Tanks (Generic)	Industrial Features
4	232m S	New Fit Fascias Soffits & Gutters	9, Apollo Avenue, Bury, Greater Manchester, BL9 8HG	Construction Completion Services	Construction Services

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1
----------------------------	----------

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 28 >](#)

ID	Location	Company	Address	LPG	Status
D	308m SE	UNBRANDED	74, Sunny Bank Road, Sunny Bank, Bury, Greater Manchester, BL9 8HJ	No	Closed

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	4
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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.

Features are displayed on the Current industrial land use map on [page 28 >](#)

ID	Location	Address	Details	
B	73m W	Walker Farrimond Volvo Ltd, Manchester Road, Bury, BL9 9TT	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
B	73m W	Walker Farrimond Volvo Ltd, Manchester Road, Bury, BL9 9TT	Process: Waste Oil Burner 0.4 MW Status: New Legislation Applies Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
5	245m SE	Soap Opera, 93 Sunnybank Road, Unsworth, BL9 8ES	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
D	317m SE	Peter Brent Garages, Sunnybank Road, BL9 8HJ	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

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

8

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 28 >](#)

ID	Location	Address	Details	
A	48m N	SUNNY BANK ROAD CSO, JNT SUNNY BANK RD /MANCHESTER RD, BURY, GREATER MANCHESTER, BL9 8HE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993479 Permit Version: 1 Receiving Water: PARR BROOK VIA SWS	Status: VARIED UNDER EPR 2010 Issue date: 20/09/2019 Effective Date: 20/09/2019 Revocation Date: -
A	59m NE	LINKSVIEW ESTATE CSO 091BC, 38- 50 AJAX DRIVE, BURY, LANCASHIRE, BL9 8EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0064 Permit Version: 3 Receiving Water: PARR BROOK	Status: VARIED UNDER EPR 2010 Issue date: 29/05/2018 Effective Date: 29/05/2018 Revocation Date: -
A	62m NE	LINKSVIEW ESTATE CSO 091BC, 38- 50 AJAX DRIVE, BURY, LANCASHIRE, BL9 8EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0064 Permit Version: 2 Receiving Water: PARR BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 28/05/2018
A	62m NE	LINKSVIEW ESTATE CSO 091BC, 38- 50 AJAX DRIVE, BURY, LANCASHIRE, BL9 8EF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0064 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994



ID	Location	Address	Details	
C	140m SW	SUNNY BANK ROAD CSO, JNT SUNNY BANK RD /MANCHESTER RD, BURY, GREATER MANCHESTER, BL9 8HE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0067 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
C	140m SW	SUNNY BANK ROAD CSO, JNT SUNNY BANK RD /MANCHESTER RD, BURY, GREATER MANCHESTER, BL9 8HE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0067 Permit Version: 2 Receiving Water: UNKNOWN	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 19/09/2019
E	342m NW	MANCHESTER ROAD CSO, 722 MANCHESTER ROAD, BURY, GREATER MANCHESTER, BL9 9TR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982936 Permit Version: 1 Receiving Water: PARR BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 14/06/1995 Revocation Date: 16/11/1995
E	342m NW	MANCHESTER ROAD CSO, 722 MANCHESTER ROAD, BURY, GREATER MANCHESTER, BL9 9TR	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982936 Permit Version: 2 Receiving Water: PARR BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 17/11/1995 Revocation Date: 22/11/2018

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

2

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 28 >](#)

ID	Location	Details	
A	48m N	Incident Date: 20/08/2003 Incident Identification: 183785 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	308m NW	Incident Date: 04/04/2001 Incident Identification: 1584 Pollutant: Other Pollutant Pollutant Description: Other	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

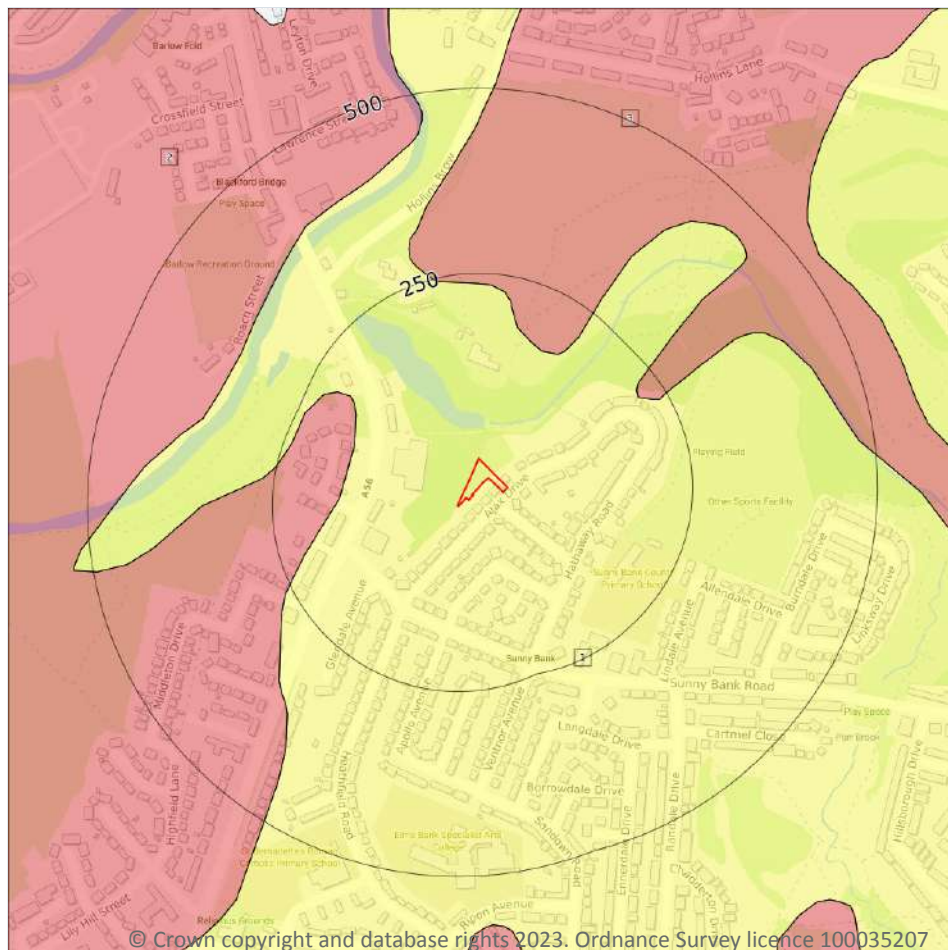
0

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



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

5.1 Superficial aquifer

Records within 500m

3

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 Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	156m W	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

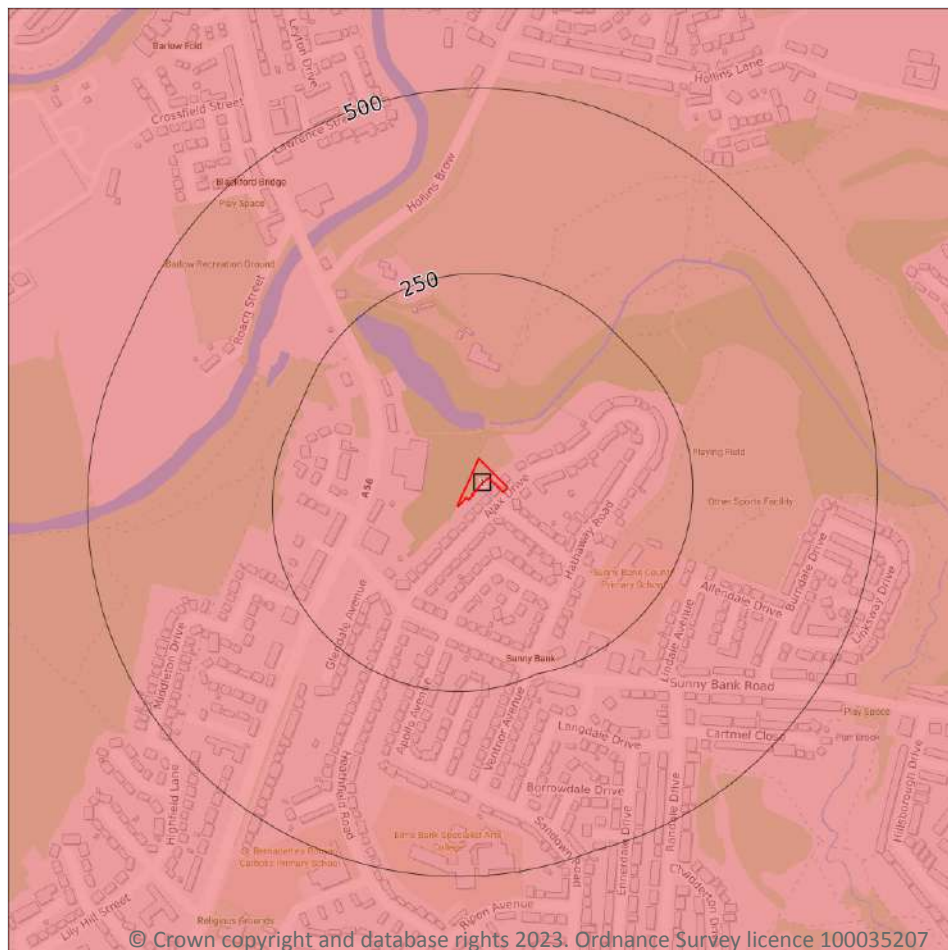


ID	Location	Designation	Description
3	168m NE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

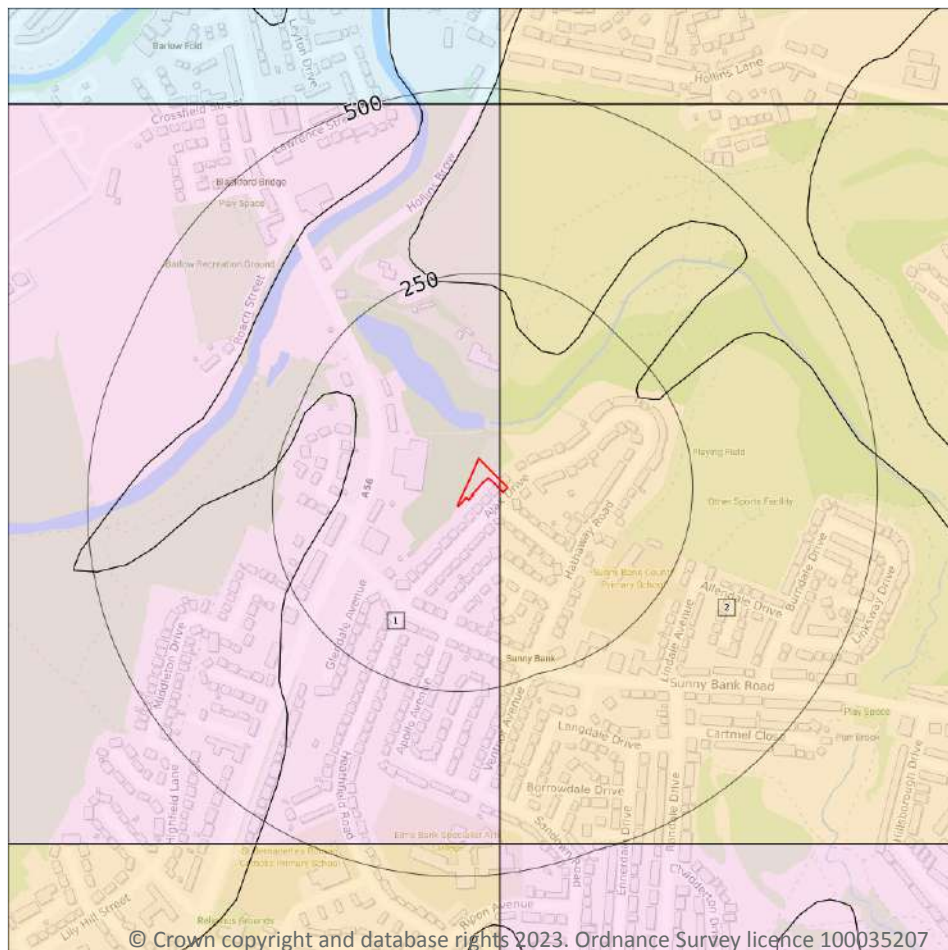
Features are displayed on the Bedrock aquifer map on [page 38](#) >

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



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

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: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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
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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

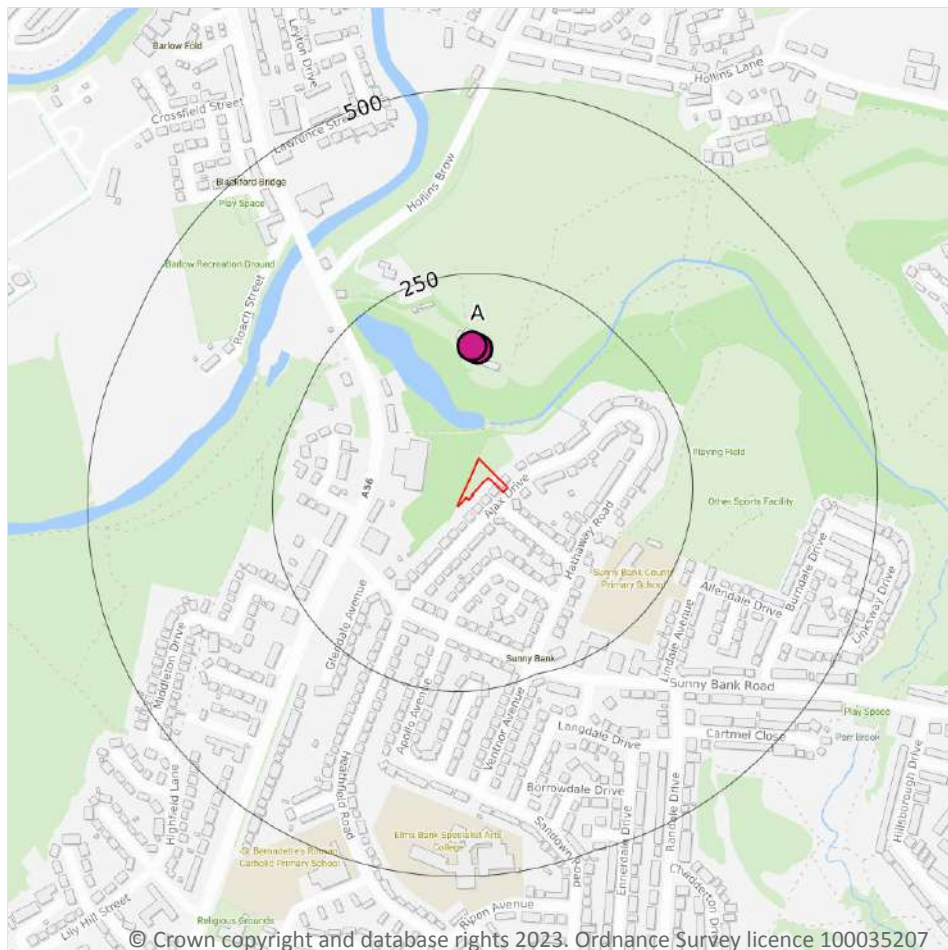
Records on site	0
------------------------	----------

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
Point features
- 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

31

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 41](#) >



ID	Location	Details	
A	148m N	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY" Data Type: Point Name: BURY GOLF CLUB Easting: 380970 Northing: 407670	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16-Apr-07 Issue No: 100 Version Start Date: 17/04/1997 Version End Date: -
A	148m N	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16/04/2007 Issue No: 101 Version Start Date: 27/01/2004 Version End Date: 16/04/2007
A	148m N	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
A	151m N	Status: Active Licence No: 2569002264R02 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: Bury Golf Club Limited Easting: 380963 Northing: 407673	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: NPS/WR/016967 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -



ID	Location	Details	
A	151m N	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380963 Northing: 407673	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1157m S	Status: Active Licence No: 2569004042 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD Data Type: Point Name: DANISH CROWN UK LIMITED Easting: 380900 Northing: 406300	Annual Volume (m ³): 7000 Max Daily Volume (m ³): 21 Original Application No: 2396B Original Start Date: 18/07/1973 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -
-	1157m S	Status: Historical Licence No: 2569004042 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD" Data Type: Point Name: DANISH BACON INDEPENDENT DBI LTD Easting: 380900 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1986 Version End Date: -
-	1183m SW	Status: Historical Licence No: NW/069/0004/004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD, MANCHESTER Data Type: Point Name: Total Fitness Health Clubs Limited Easting: 380450 Northing: 406381	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 29/01/2014 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 29/01/2014 Version End Date: -



ID	Location	Details	
-	1184m SW	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS, BURY NEW ROAD, WHITEFIELD, BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
-	1184m SW	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS BURY NEW ROAD WHITEFIELD BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 17/02/2005 Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
-	1375m NE	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1375m NE	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -



ID	Location	Details	
-	1427m N	Status: Historical Licence No: 2569001258 Details: Pollution Remediation Direct Source: Ground Water - North West Region Point: "WELL POINT SYSTEM AT MANCHESTER ROAD, BURY" Data Type: Point Name: TOTALFINAELF UK LTD Easting: 380450 Northing: 408850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/06/2002 Expiry Date: - Issue No: 1 Version Start Date: 12/06/2002 Version End Date: -
-	1427m N	Status: Historical Licence No: 2569001258 Details: Pollution Remediation Direct Source: Ground Water - North West Region Point: WELL POINT SYSTEM AT MANCHESTER ROAD, BURY Data Type: Point Name: TOTALFINAELF UK LTD Easting: 380450 Northing: 408850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/06/2002 Expiry Date: - Issue No: 1 Version Start Date: 12/06/2002 Version End Date: -
-	1666m E	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1666m E	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -



ID	Location	Details	
-	1713m E	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1713m E	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1713m E	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1713m E	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -



ID	Location	Details	
-	1713m E	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1713m E	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m ³): 8000 Max Daily Volume (m ³): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1772m SW	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "WELLPOINT SYSTEM AT PREMISES, RADCLIFFE" Data Type: Point Name: JAMES HALSTEAD LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/01/1995 Version End Date: -
-	1772m SW	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: WELLPOINT SYSTEM AT PREMISES, RADCLIFFE Data Type: Point Name: POLYFLOR LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -



ID	Location	Details	
-	1772m SW	Status: Historical Licence No: 2569004030 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: WELL POINT SYSTEM AT PREMISES RADCLIFFE Data Type: Point Name: POLYFLOR LTD Easting: 379600 Northing: 406300	Annual Volume (m ³): 68200 Max Daily Volume (m ³): 382 Original Application No: - Original Start Date: 18/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1935m NE	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1943m NE	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1987m SW	Status: Historical Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT STAND GOLF CLUB, WHITEFIELD" Data Type: Point Name: STAND GOLF CLUB Easting: 379760 Northing: 405860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/05/1997 Expiry Date: - Issue No: 100 Version Start Date: 28/05/1997 Version End Date: -



ID	Location	Details	
-	1987m SW	Status: Historical Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT STAND GOLF CLUB, WHITEFIELD Data Type: Point Name: STAND GOLF CLUB Easting: 379760 Northing: 405860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/05/1997 Expiry Date: - Issue No: 100 Version Start Date: 28/05/1997 Version End Date: -
-	1987m SW	Status: Historical Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT STAND GOLF CLUB WHITEFIELD Data Type: Point Name: THE TRUSTEES OF STAND GOLF CLUB Easting: 379760 Northing: 405860	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: - Original Start Date: 28/05/1997 Expiry Date: - Issue No: 101 Version Start Date: 07/09/2005 Version End Date: -
-	1992m SW	Status: Active Licence No: 2569004053 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT STAND GOLF CLUB Data Type: Point Name: Stand Golf Club Limited Easting: 379754 Northing: 405858	Annual Volume (m ³): 9000 Max Daily Volume (m ³): 55 Original Application No: NPS/WR/018926 Original Start Date: 28/05/1997 Expiry Date: - Issue No: 102 Version Start Date: 12/05/2015 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

14

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	
-	1482m SE	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "C"ON WHITFIELD BROOK Data Type: Point Name: Onsite Central Limited Easting: 381610 Northing: 406123	Annual Volume (m ³): 0.001 Max Daily Volume (m ³): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -
-	1527m NW	Status: Historical Licence No: 2569001245 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1527m NW	Status: Historical Licence No: 2569001245 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1527m NW	Status: Historical Licence No: 2569001245 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT RADCLIFFE, MANCHESTER" Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -

ID	Location	Details	
-	1527m NW	Status: Historical Licence No: 2569001245 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1527m NW	Status: Historical Licence No: 2569001245 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1527m NW	Status: Historical Licence No: 2569001245 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT RADCLIFFE, MANCHESTER Data Type: Point Name: UNIFI DYED YARNS LTD Easting: 380000 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/11/1993 Expiry Date: - Issue No: 101 Version Start Date: 01/03/2000 Version End Date: -
-	1699m NE	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -



ID	Location	Details	
-	1699m NE	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1699m NE	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1699m NE	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1699m NE	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

ID	Location	Details	
-	1699m NE	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1857m SE	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "B" ON WHITEFIELD BROOKE WHITEFIELD, MANCHESTER Data Type: Point Name: Onsite Central Limited Easting: 381829 Northing: 405811	Annual Volume (m ³): 0.001 Max Daily Volume (m ³): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

5

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.

Features are displayed on the Abstractions and Source Protection Zones map on [page 41](#) >

ID	Location	Details	
-	1183m SW	Status: Historical Licence No: NW/069/0004/004 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITEFIELD, MANCHESTER Data Type: Point Name: Total Fitness Health Clubs Limited Easting: 380450 Northing: 406381	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 29/01/2014 Expiry Date: 31/03/2020 Issue No: 1 Version Start Date: 29/01/2014 Version End Date: -



ID	Location	Details	
-	1184m SW	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS, BURY NEW ROAD, WHITEFIELD, BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: - Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
-	1184m SW	Status: Historical Licence No: 2569004056 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: LAND AT TOTAL FITNESS BURY NEW ROAD WHITEFIELD BURY Data Type: Point Name: TOTAL FITNESS UK LTD Easting: 380450 Northing: 406380	Annual Volume (m ³): 24000 Max Daily Volume (m ³): 166 Original Application No: - Original Start Date: 17/02/2005 Expiry Date: 31/03/2011 Issue No: 1 Version Start Date: 17/02/2005 Version End Date: -
-	1375m NE	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1375m NE	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

4

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 56 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
2	49m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Parr Brook



ID	Location	Type of water feature	Ground level	Permanence	Name
B	49m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Lamb Lodge Reservoir
C	122m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	122m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Parr Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

3

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 56 >](#)

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 56 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Roch (Spodden to Irwell)	GB112069064600	Roch Irk Medlock	Irwell

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 56 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	333m W	River	Roch (Spodden to Irwell)	GB112069064600 ↗	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.

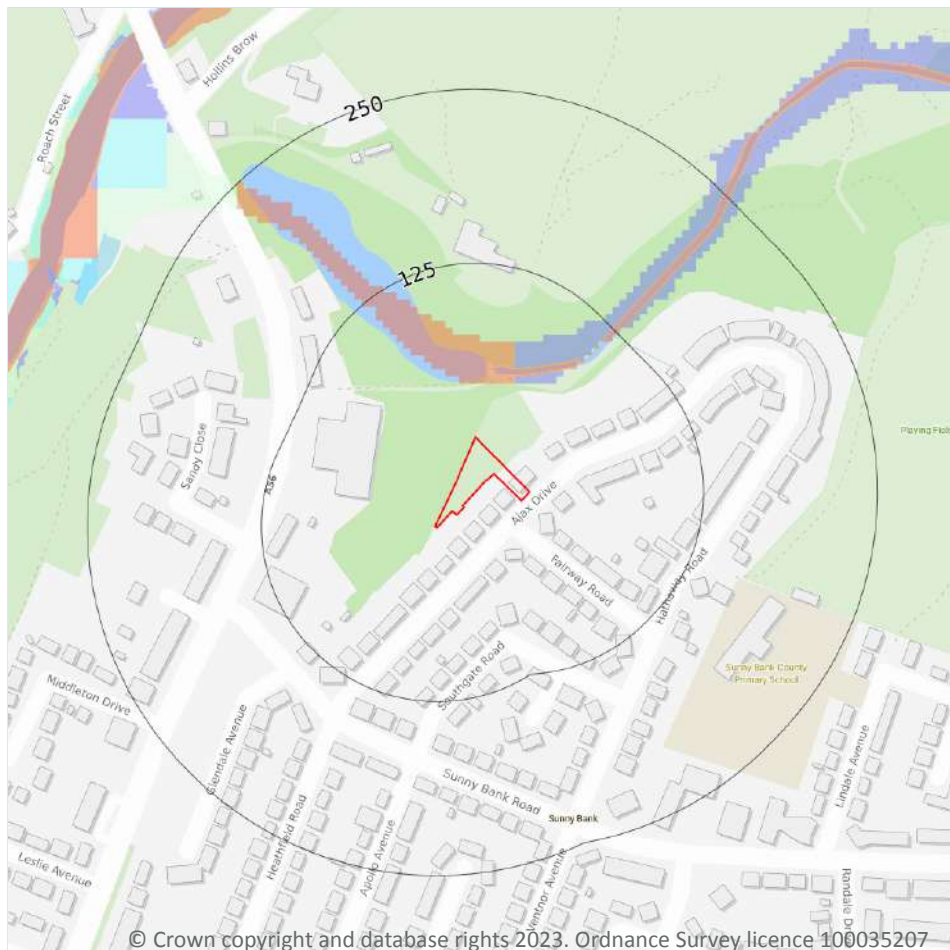
Features are displayed on the Hydrology map on [page 56 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 ↗	Poor	Poor	Good	2019

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

2

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).

Features are displayed on the River and coastal flooding map on [page 59 >](#)



Distance	Flood risk category
On site	N/A
0 - 50m	High

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



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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.

Features are displayed on the River and coastal flooding map on [page 59](#) >

Location	Type
39m N	Zone 2 - (Fluvial /Tidal Models)

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



7.7 Flood Zone 3

Records within 50m

1

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.

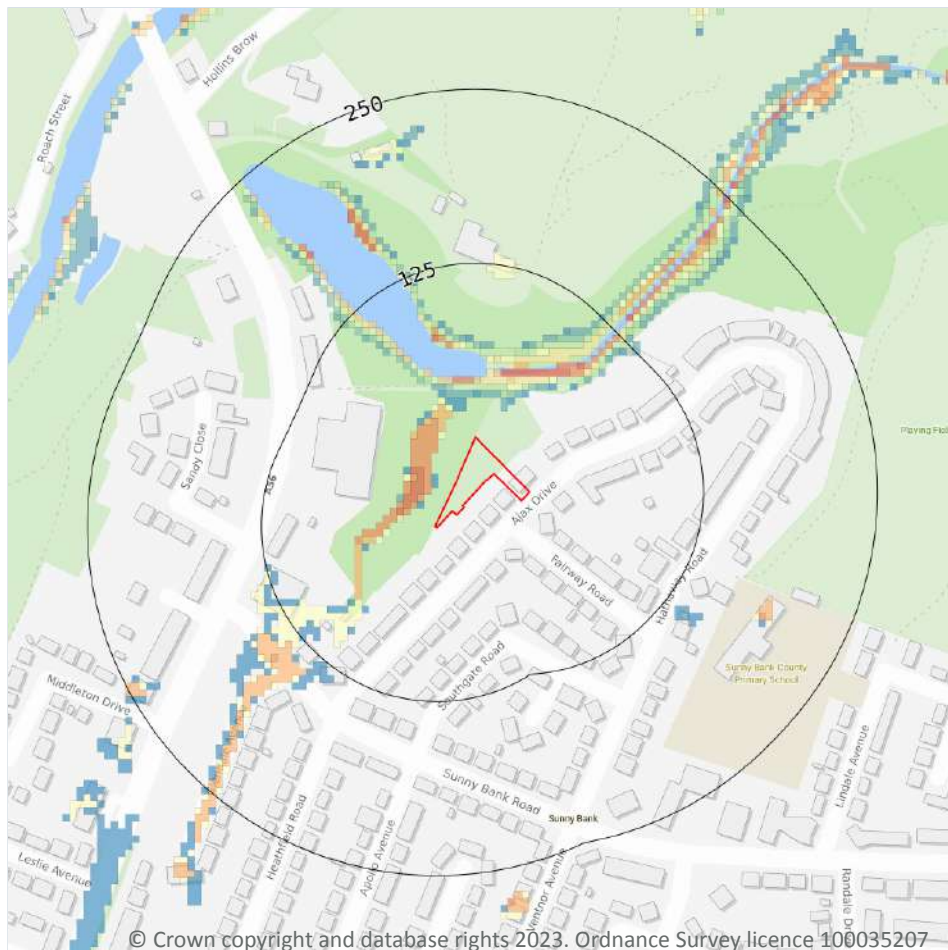
Features are displayed on the River and coastal flooding map on [page 59](#) >

Location	Type
39m N	Zone 3 - (Fluvial /Tidal Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, Greater than 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 63](#) >

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.

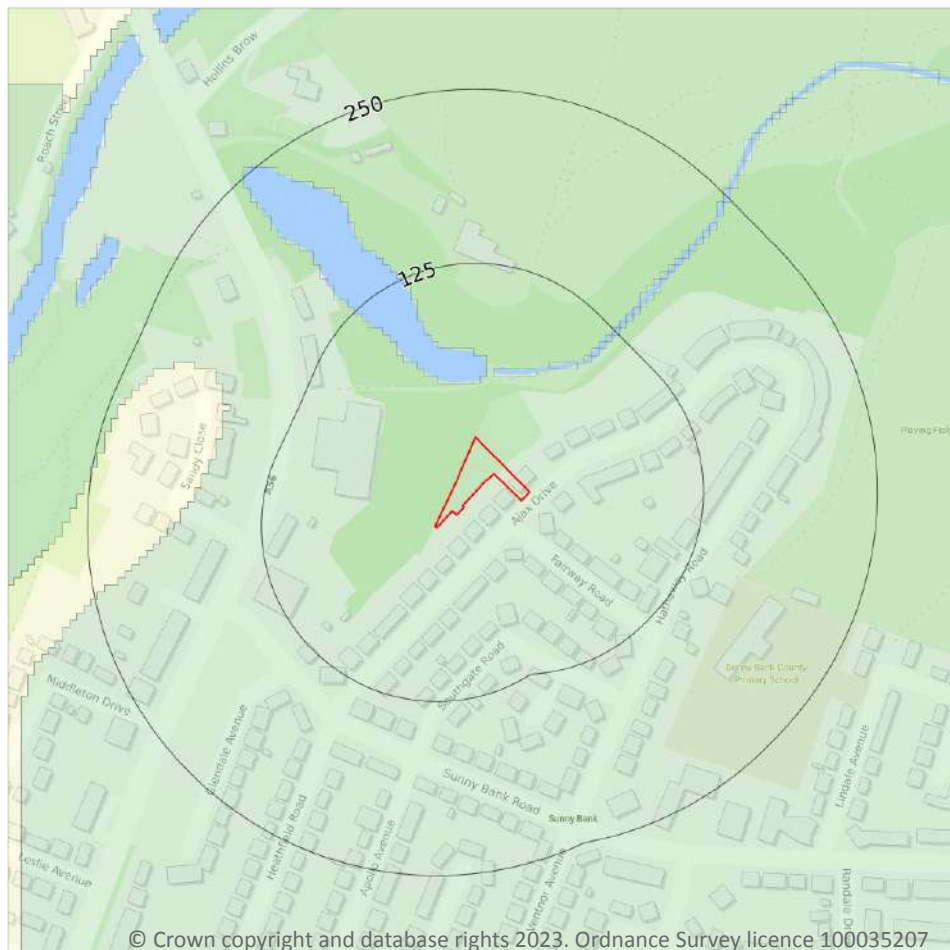
The table below shows the maximum flood depths for a range of return periods for the site.

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



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

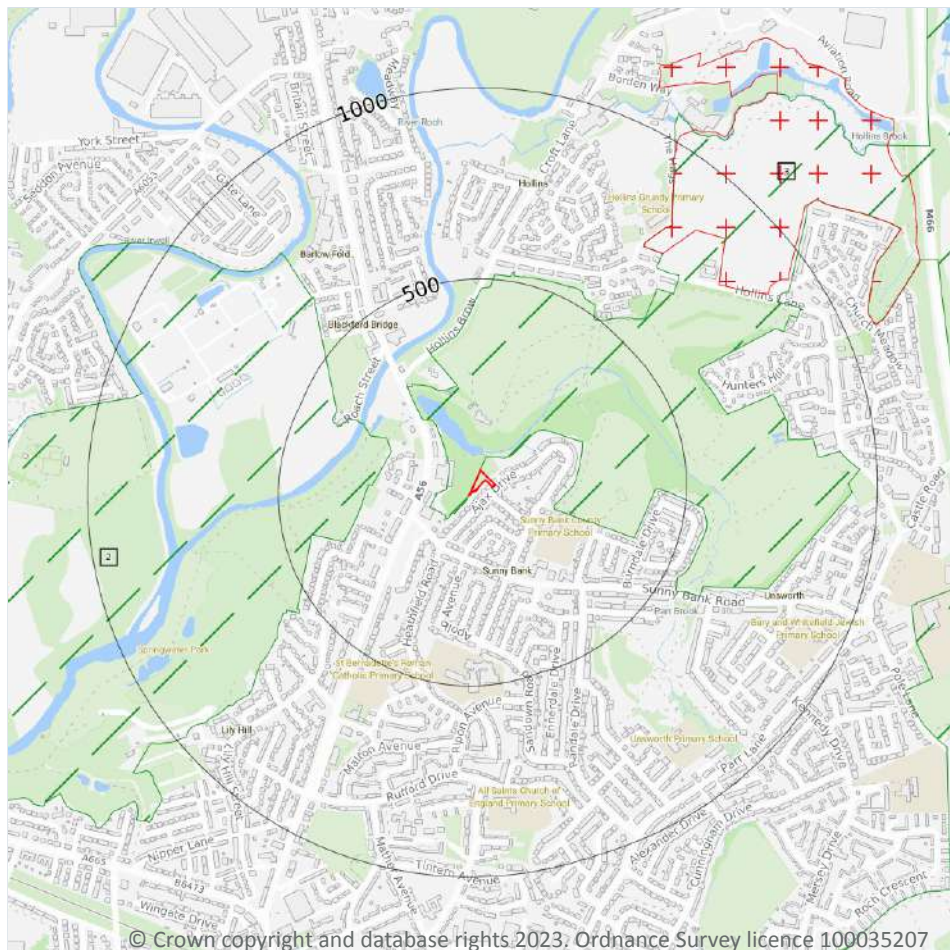
Low

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 65 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- ▨ Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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.

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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.

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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.

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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.

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 66](#) >

ID	Location	Name	Data source
3	724m NE	Hollins Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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.

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

4

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

Features are displayed on the Environmental designations map on [page 66 >](#)

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Bury
2	233m W	Merseyside and Greater Manchester	Bury
-	1623m SW	Merseyside and Greater Manchester	Bury
-	1937m NW	Merseyside and Greater Manchester	Bury

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

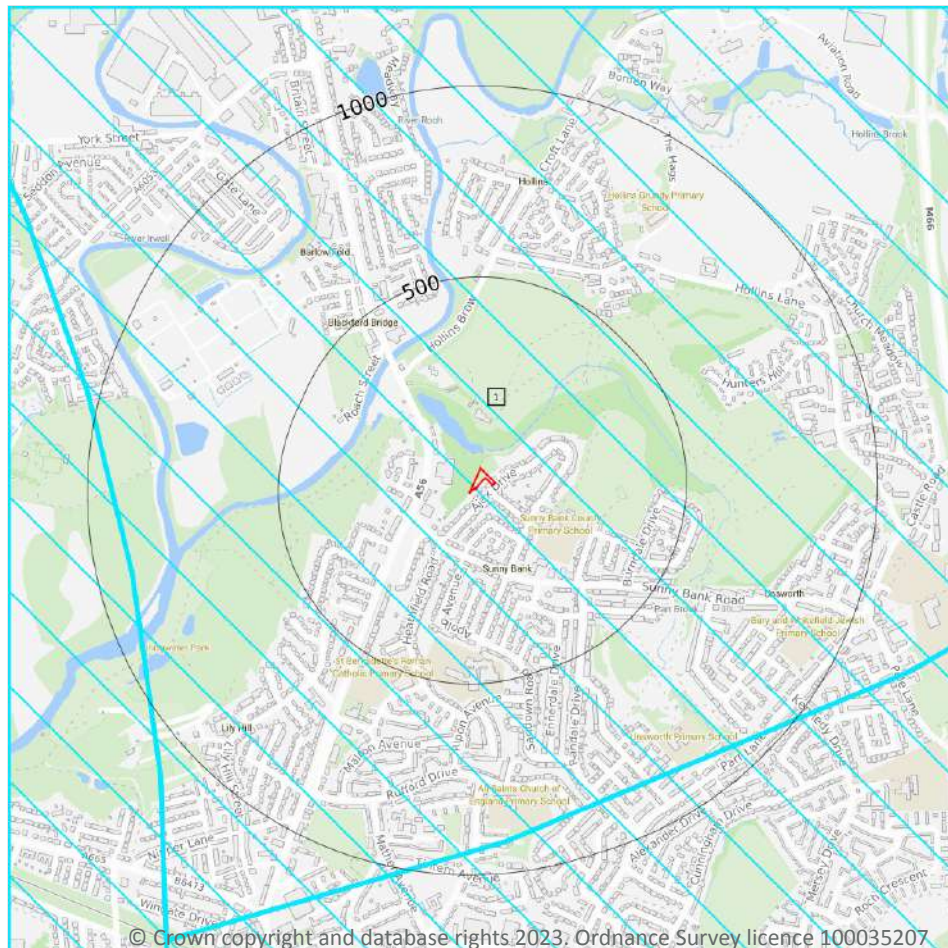
0

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.

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 71](#) >

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion



This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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.

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



11 Visual and cultural designations

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

0

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.



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

11.5 Conservation Areas

Records within 250m

0

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.

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

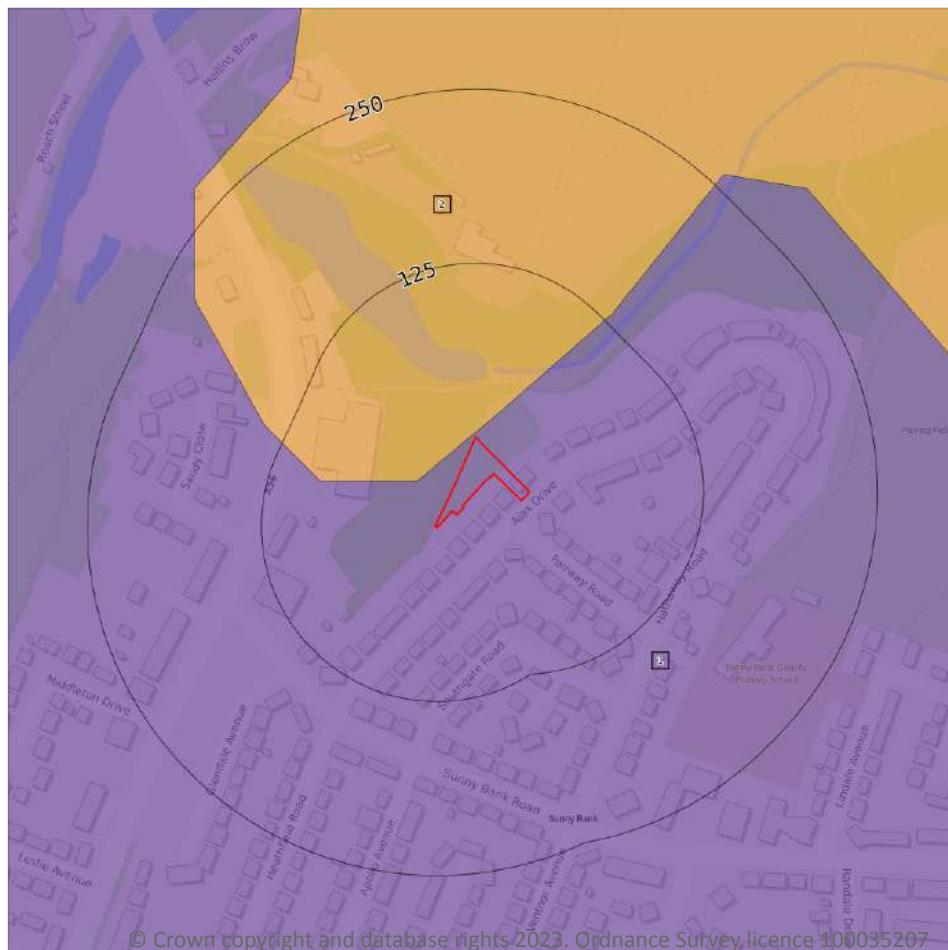
0

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 75](#) >

ID	Location	Classification	Description
1	On site	Urban	-
2	3m N	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.



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

0

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.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

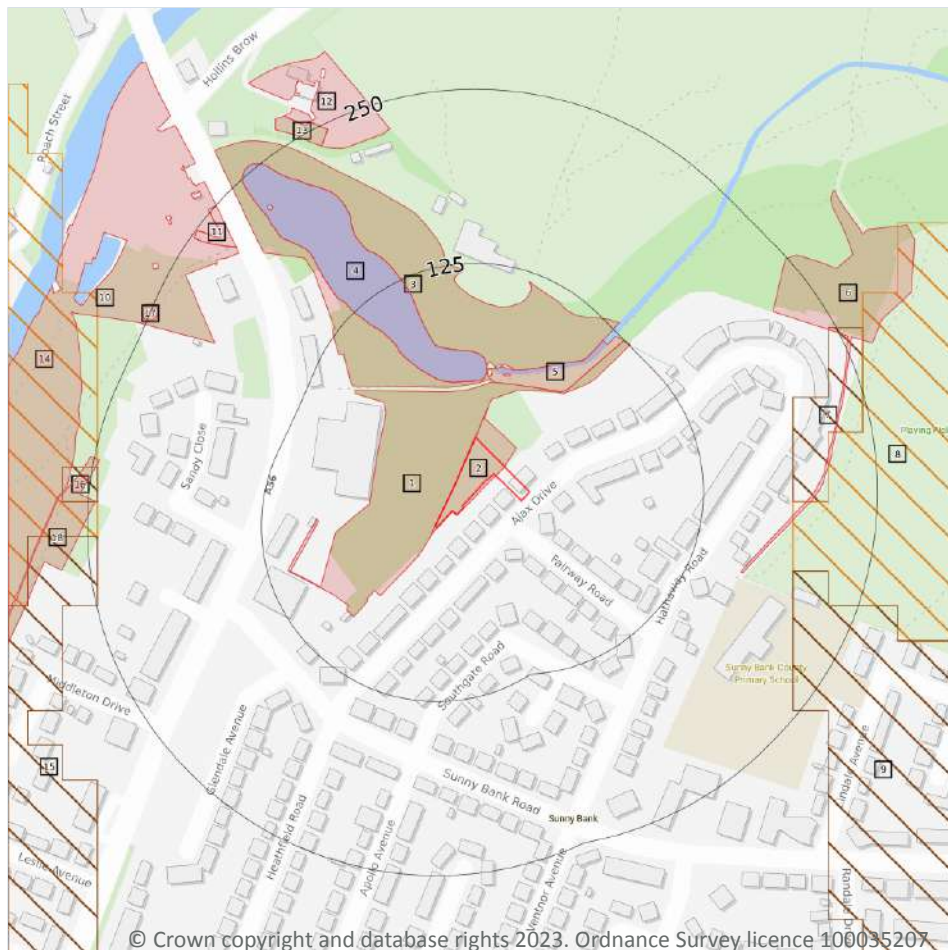
0

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

12

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
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	38m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); Additional: GQSIG (INV 50%)



ID	Location	Main Habitat	Other habitats
4	40m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%); GQSIG (INV > 50%)
5	42m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	162m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	199m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	220m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	227m N	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
13	237m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	245m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	245m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

6

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.

Features are displayed on the Habitat designations map on [page 77 >](#)

ID	Location	Type	Habitat
7	189m E	Network Enhancement Zone 2	Not specified
8	190m E	Network Enhancement Zone 1	Not specified
9	198m E	Network Enhancement Zone 2	Not specified
14	243m W	Network Enhancement Zone 1	Not specified
15	243m W	Network Enhancement Zone 2	Not specified
16	243m W	Network Enhancement Zone 2	Not specified

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

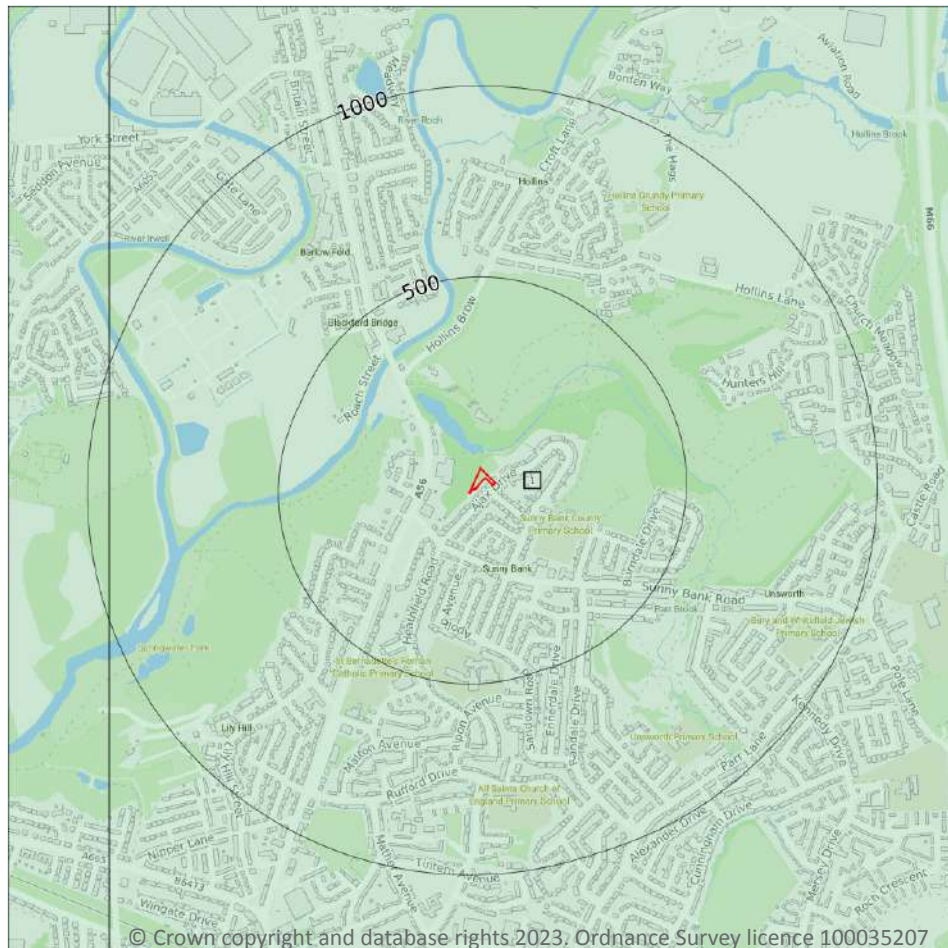
0

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.

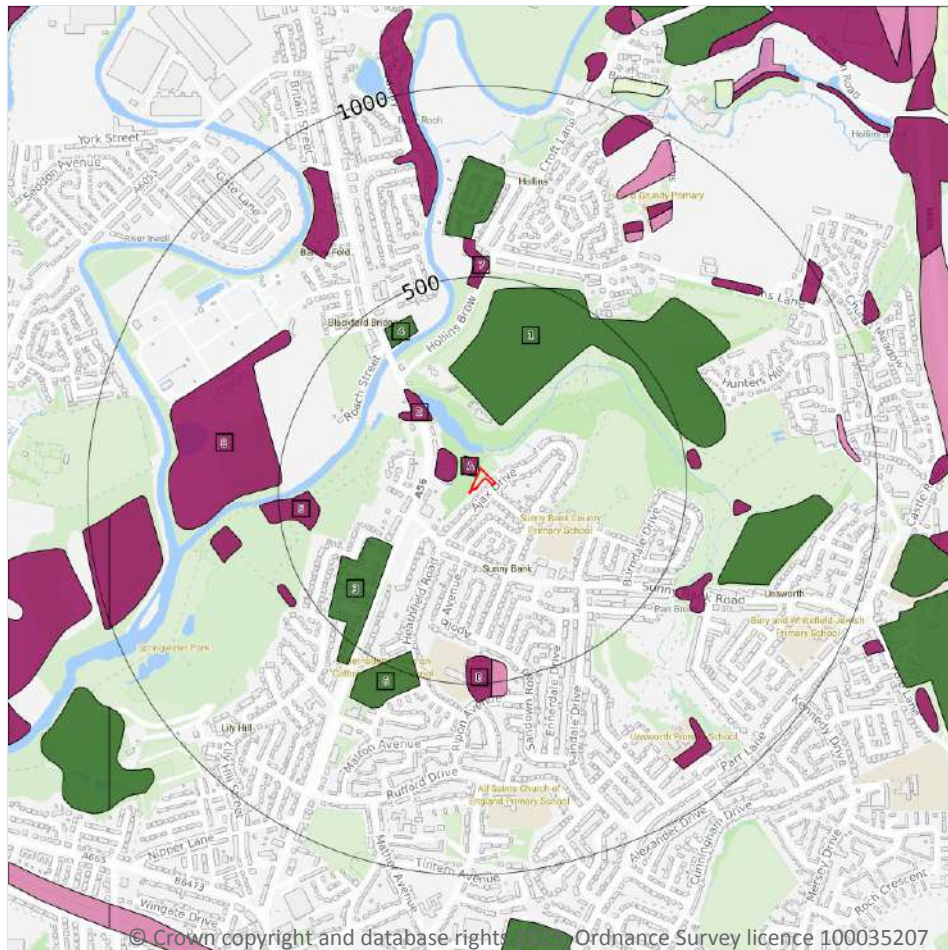
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 80](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD80NW

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m

12

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.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 81](#) >

ID	Location	LEX Code	Description	Rock description
A	4m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	52m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
1	124m N	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
2	179m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

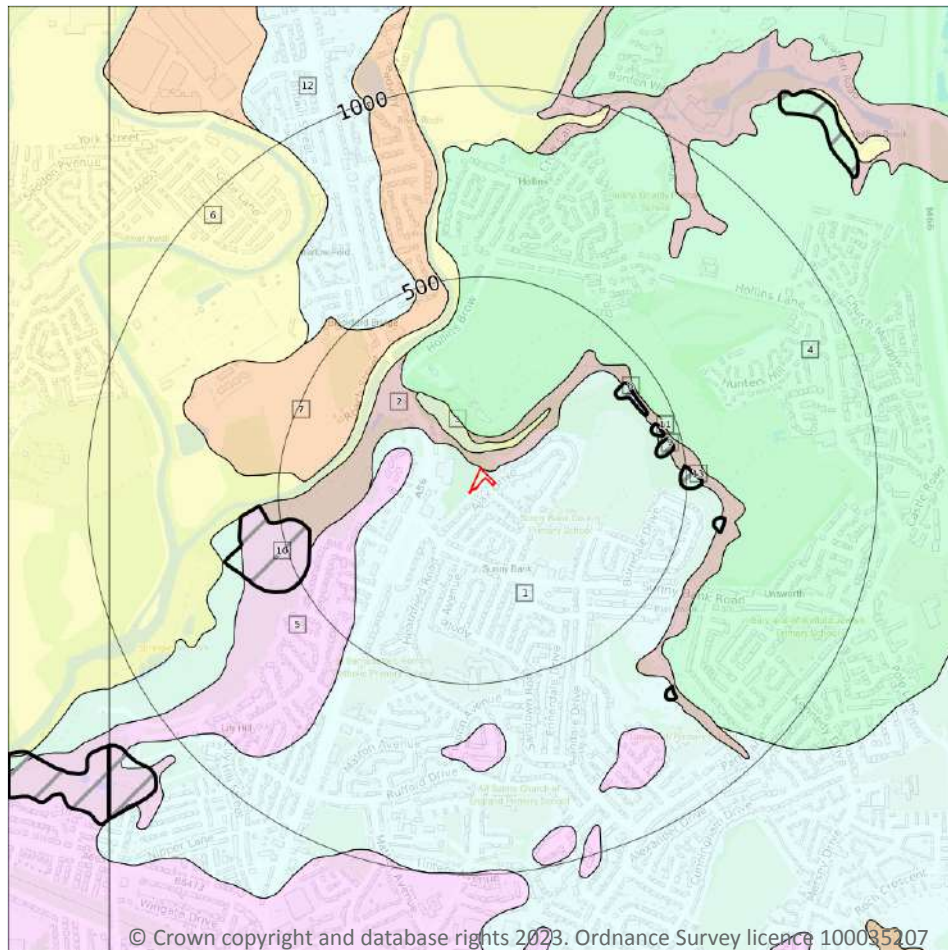


ID	Location	LEX Code	Description	Rock description
3	245m SW	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
4	389m NW	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
5	395m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	428m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	439m S	WGR-VOID	Worked Ground (Undivided)	Void
6	443m S	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
7	470m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	492m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

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

8

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 83](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	2m N	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	40m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	83m N	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
5	167m W	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	317m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	346m W	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
12	450m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

5

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 83](#) >

ID	Location	LEX Code	Description	Rock description
8	390m NE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
9	428m E	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
10	429m W	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
11	431m E	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
13	485m E	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



[illegible]

14.5 Bedrock geology (10k)

4

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 85 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
2	140m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
4	369m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
7	424m N	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

3

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.

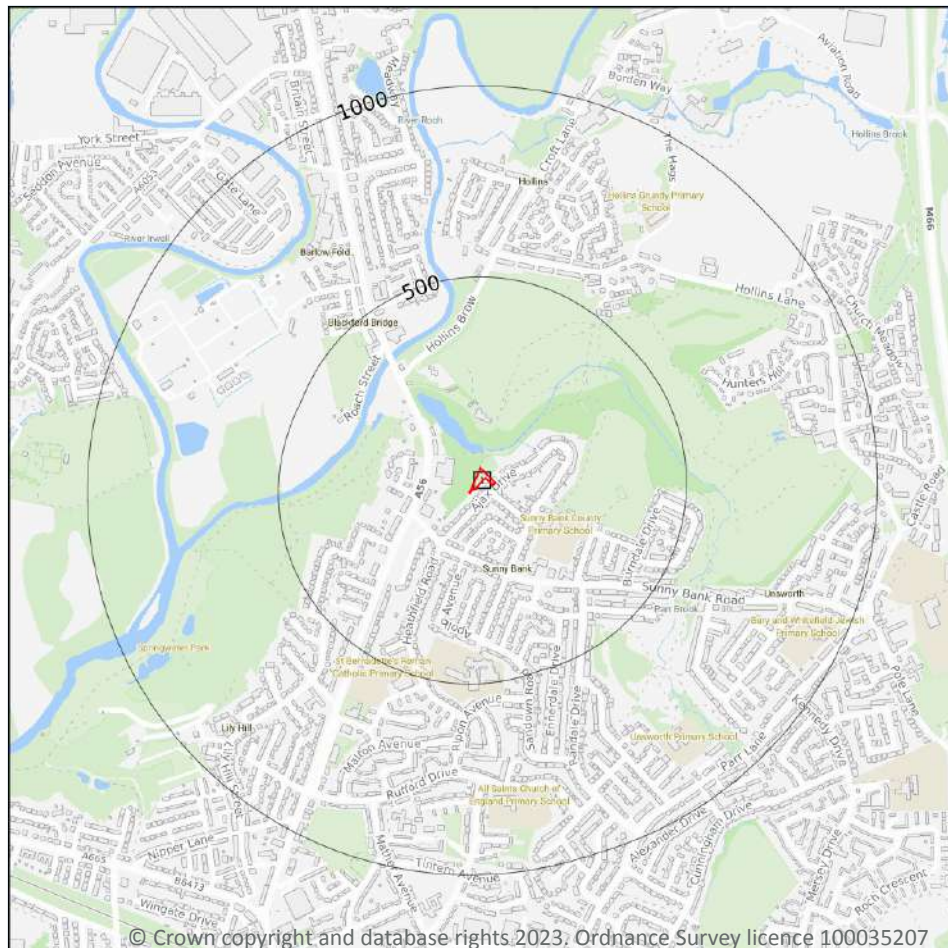
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 85 >](#)

ID	Location	Category	Description
3	140m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
5	369m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
6	408m N	ROCK	Coal seam, inferred

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.

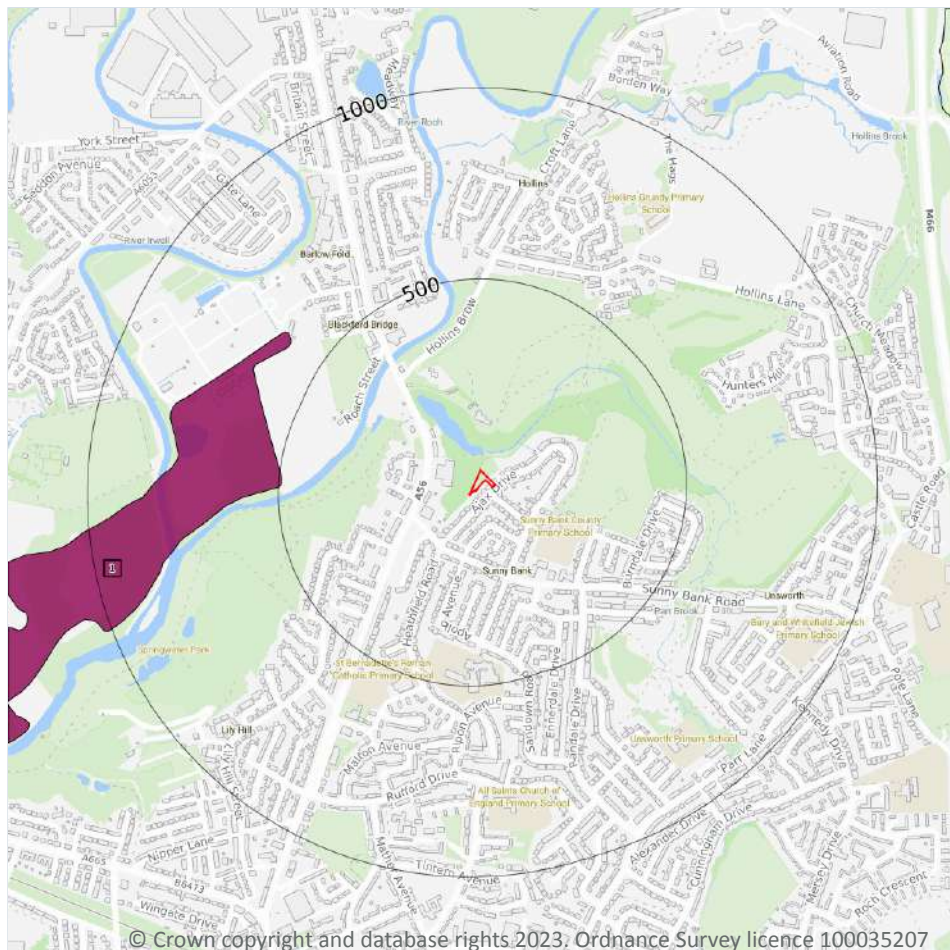
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 87](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

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.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 88](#) >

ID	Location	LEX Code	Description	Rock description
1	493m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

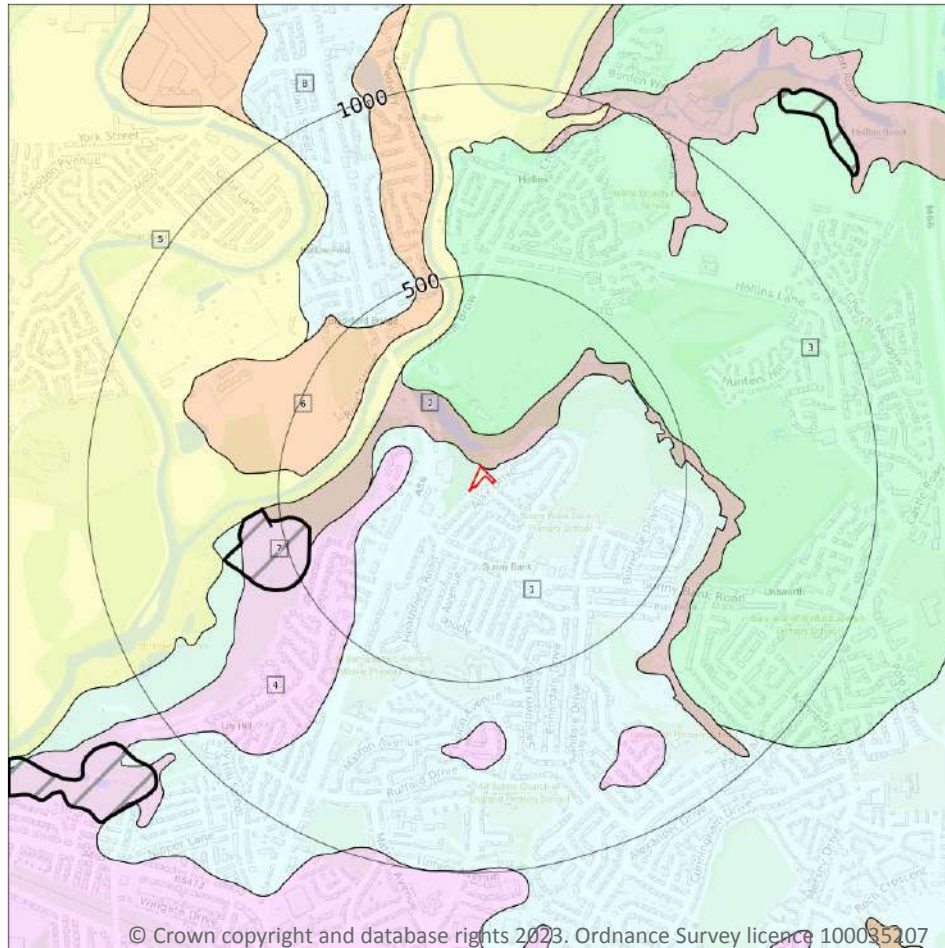
0

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

7

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 90](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	2m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
3	83m N	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
4	167m W	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
5	294m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
6	355m W	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
8	449m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

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	Mixed	High	Low
2m N	Mixed	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

1

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on [page 90](#) >

ID	Location	LEX Code	Description	Rock description
7	430m W	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

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

3

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 93](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	369m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	424m N	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN

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	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1
----------------------------	----------

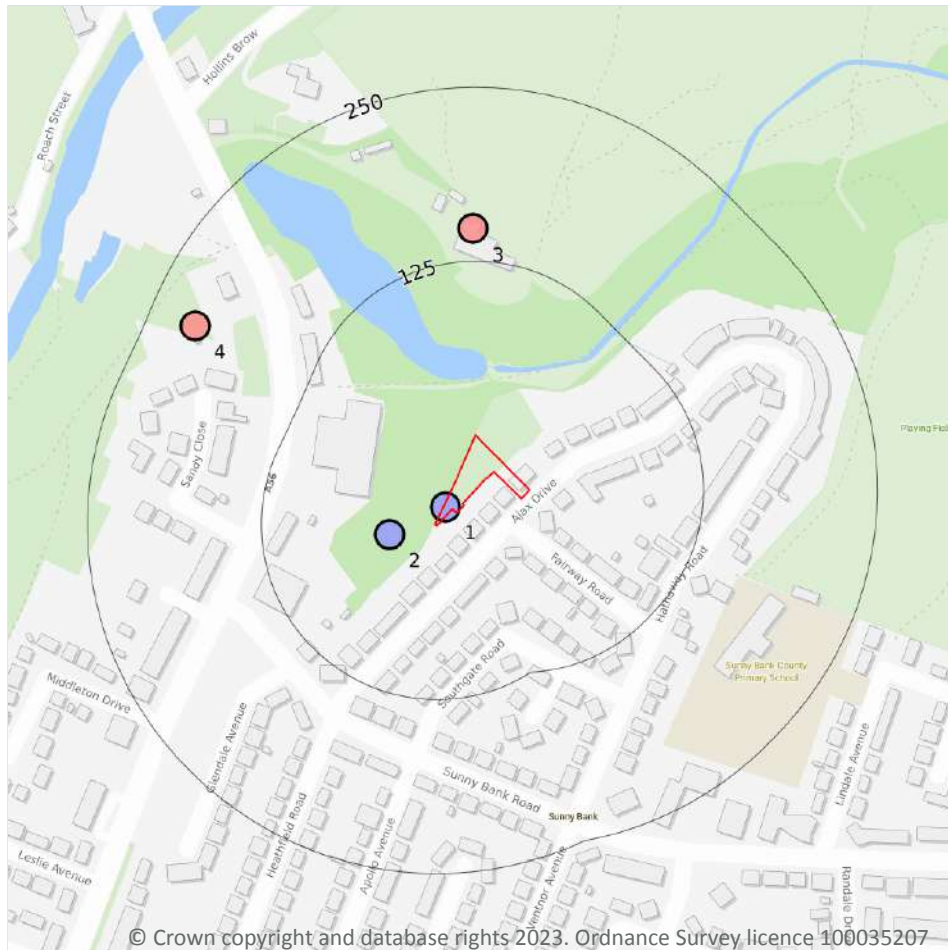
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 93](#) >

ID	Location	Category	Description
3	369m SW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

4

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 95](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	380950 407470	BURY UCSOS BH1	10.0	N	27564 ↗
2	34m SW	380910 407450	BURY UCSOS BH2	10.0	N	27565 ↗
3	149m N	380970 407670	BURY GOLF CLUB ABH	65.0	N	27440 ↗

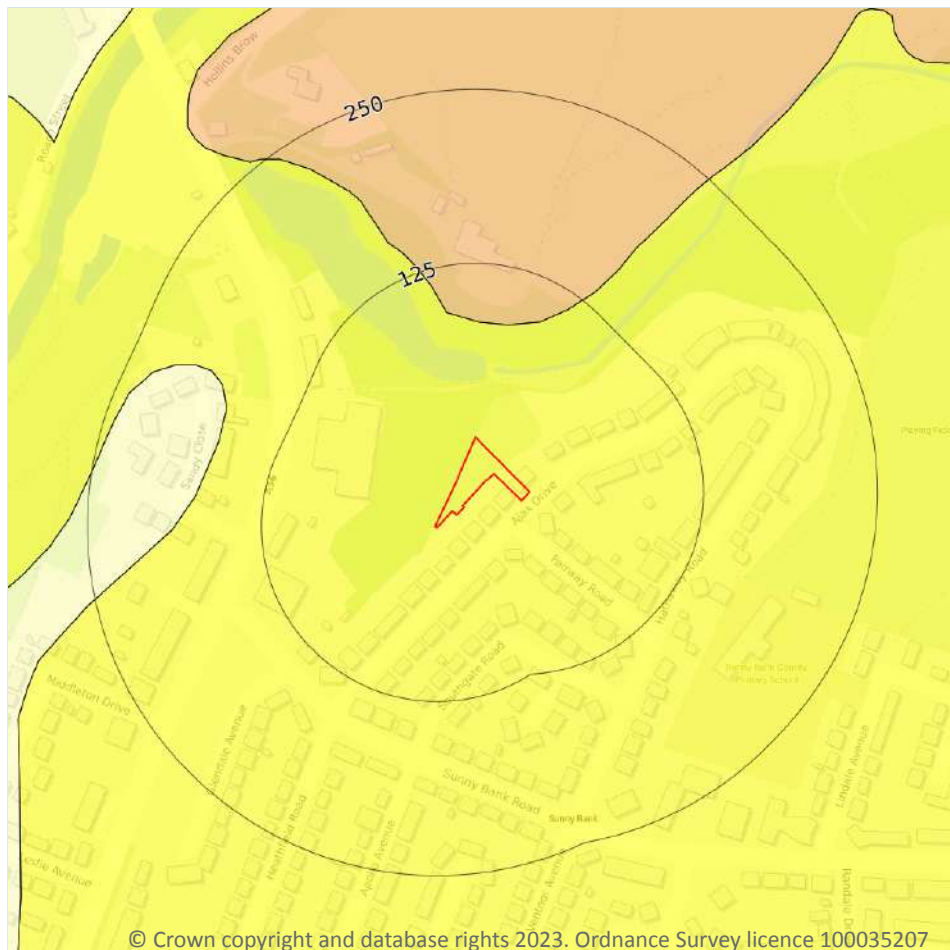


ID	Location	Grid reference	Name	Length	Confidential	Web link
4	216m NW	380770 407600	BLACKFORD BRIDGE WHITEHALL 1	131.9	N	27197 ↗

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).

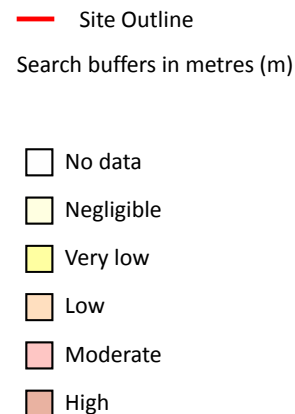
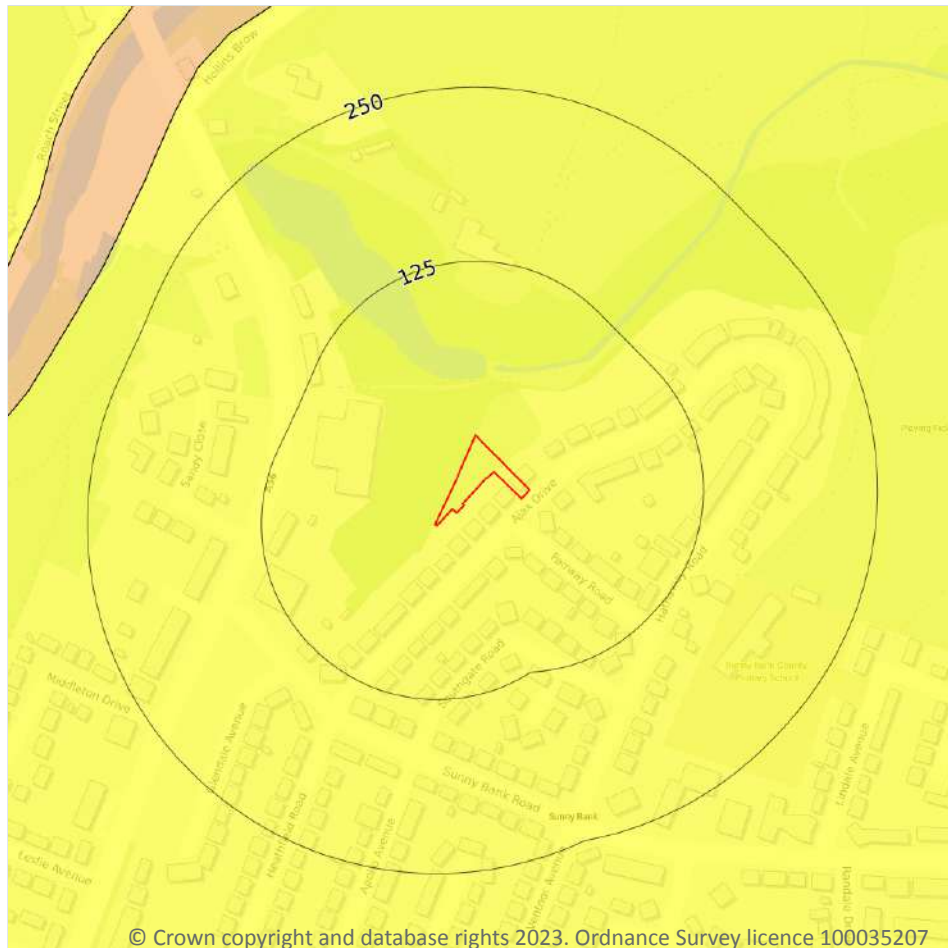
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 97 >](#)

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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 98](#) >

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.

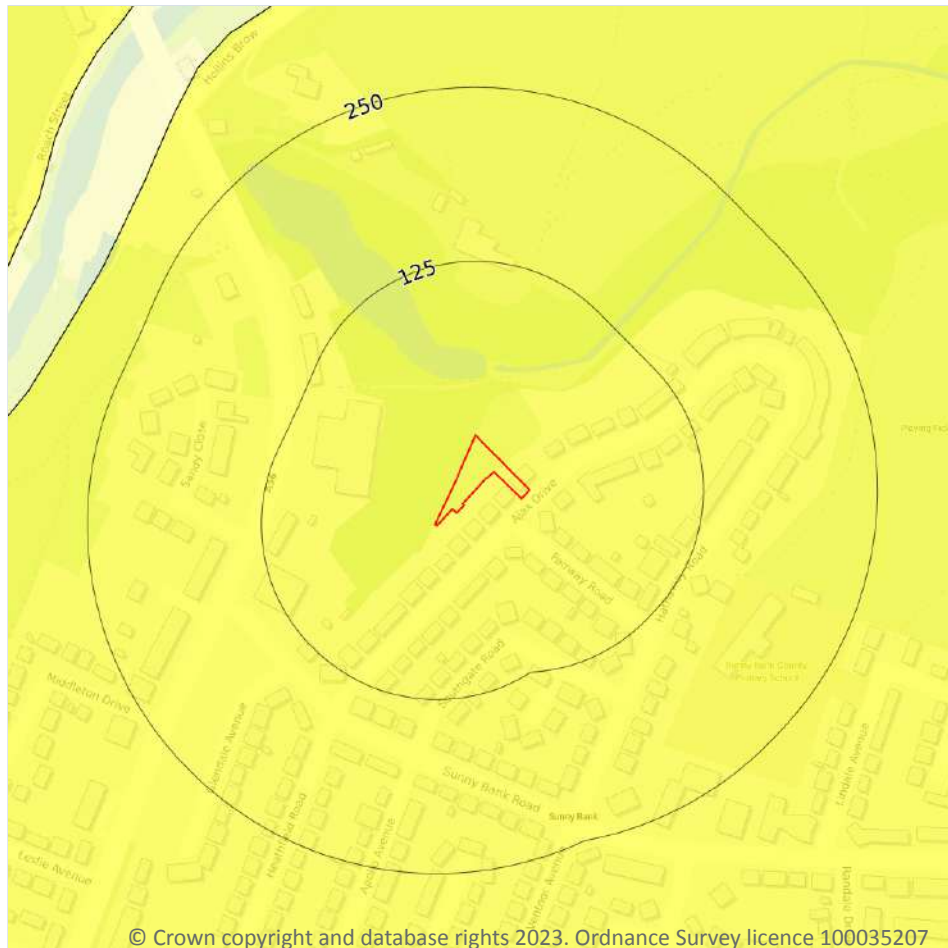
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 99](#) >

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

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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.

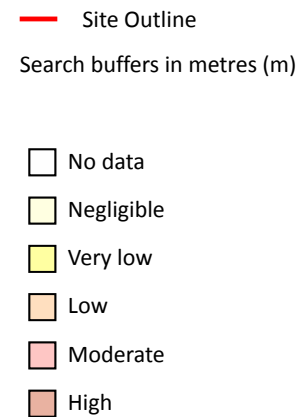
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 100](#) >

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



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17.5 Landslides

Records within 50m

2

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 101](#) >

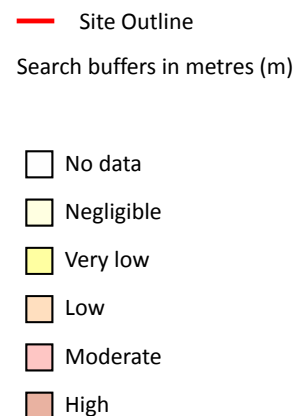
Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
3m N	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

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.

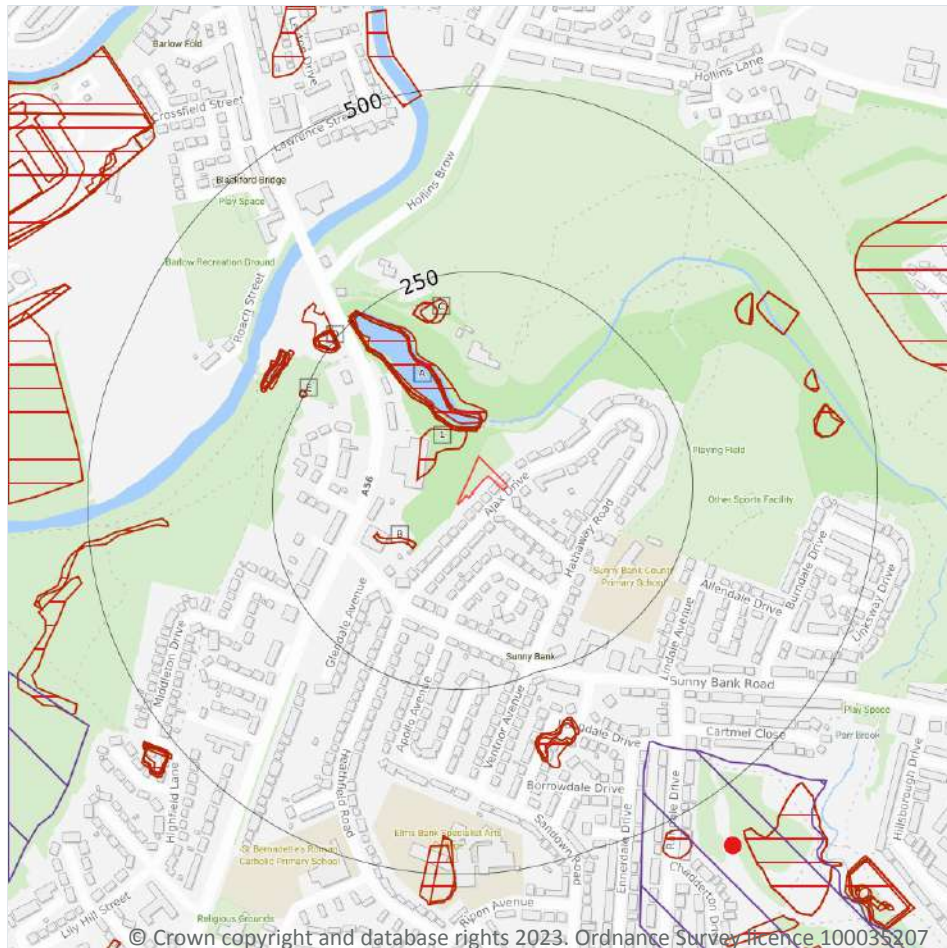
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 103](#) >

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 and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- 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 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.



18.2 Surface ground workings

Records within 250m

28

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 and ground workings map on [page 105 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
1	26m NW	Refuse Heap	1965	1:10560
A	34m N	Reservoir	1981	1:10000
A	34m N	Reservoir	1974	1:10000
A	34m N	Reservoir	1965	1:10560
A	34m N	Reservoir	1955	1:10560
A	38m N	Reservoir	1932	1:10560
A	38m N	Reservoir	1915	1:10560
A	38m N	Reservoir	1907	1:10560
A	38m N	Reservoir	1923	1:10560
A	40m N	Reservoir	1891	1:10560
A	40m N	Reservoir	1938	1:10560
A	46m N	Pond	1851	1:10560
B	78m SW	Unspecified Ground Workings	1938	1:10560
B	78m SW	Unspecified Ground Workings	1932	1:10560
C	189m N	Pond	1851	1:10560
C	193m N	Reservoir	1915	1:10560
C	193m N	Reservoir	1907	1:10560
C	193m N	Reservoir	1923	1:10560
D	239m NW	Pond	1981	1:10000
D	239m NW	Pond	1974	1:10000
D	239m NW	Pond	1965	1:10560
D	239m NW	Reservoirs	1955	1:10560
D	241m NW	Reservoirs	1932	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	241m NW	Reservoirs	1915	1:10560
D	241m NW	Reservoirs	1907	1:10560
D	241m NW	Reservoirs	1923	1:10560
D	243m NW	Reservoirs	1938	1:10560
E	247m NW	Reservoirs	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 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 is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m

0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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.

Features are displayed on the Mining and ground workings map on [page 105 >](#)

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
H	394m SE	Parr Lane Brickworks	Clay, bricks	Surface mineral working	Valid	11/6/48

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 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.

18.8 The Coal Authority non-coal mining

Records within 500m

0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

Location	Details
On site	The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

0

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.

18.14 Gypsum areas

Records on site	0
-----------------	---

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
-----------------	---

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 Ground cavities and sinkholes

19.1 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.

19.2 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.

19.3 Reported recent incidents

Records within 500m

0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

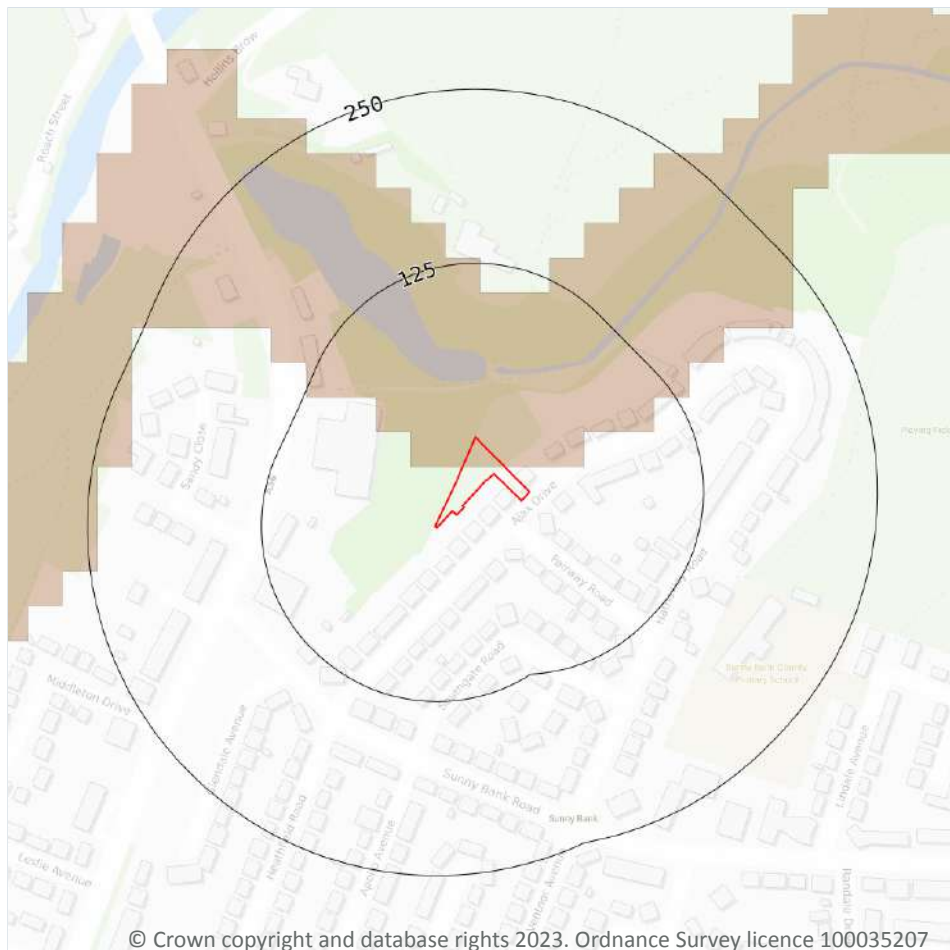
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.



20 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%

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20.1 Radon

Records on site

2

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 113 >](#)

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full



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.



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

6

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 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
5m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
5m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 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.



21.3 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.



22 Railway infrastructure and projects

22.1 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.

22.2 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.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 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.

22.5 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.

22.6 Historical railways

Records within 250m

0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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.

22.9 Crossrail 2

Records within 500m

0

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.

22.10 HS2

Records within 500m

0

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> ↗.

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-april-2023/> ↗.



APPENDIX C

BGS Borehole

BeWT



Location Bury UCS05

Job No. 8156-87BB

Project Ref:

Sheet 1 of 1

Equipment and methods Light cable percussion

Drilled by G.B

Casing Diameter (mm) 150

Ground level 83.96 m AOD

Casing Depth (m) 8.70

Co-ordinates E N

Date 12/06/97

CASING DEPTH (m)	WATER DEPTH (m)	Field Records	SAMPLES / TESTS			Description	Depth & Thickness (m)	Reduced Level (m AOD)	Strata Legend
			Depth (m) from	to	SAMPLE Type & No	SPT N Value			
							(0.20)		
							3.20	83.760	
			0.50		D 1				
1.20	nil	60	1.20	1.65	U 1				
	T1	20 mins 1.56 12/06	1.70		D 2		(3.00)		
1.70	nil	70	2.20	2.65	U 2				
			2.70		D 3				
3.00	nil	50	3.20	3.65	U 3		3.20	80.760	
	M1	3.20 12/06	3.20		W 1		(0.20)		
							3.40	80.560	
			3.70		D 4				
4.20	nil	60	4.20	4.65	U 4				
			4.70		D 5				
5.00	nil	70	5.20	5.65	U 5				
			5.70		D 6				
6.00	nil	70	6.20	6.65	U 6				
			6.70		D 7		(6.50)		
6.00	nil	65	7.20	7.65	U 7				
			7.70		D 8				
7.50	nil	65	8.20	8.65	U 8				
			8.70		D 9				
8.70	nil	70	9.20	9.60	U 9				
			9.70		D 10				
		-12/06-							
							10.00	73.960	

Borehole complete

Remarks

- 1) Service pit dug 0.70m x 0.70m x 1.20m
- 2) Water struck at 3.2m rising to 1.56m after 20 mins
- 3) Piezometer installed

Logged by

LW

Date

Checked by

Approved by

APPENDIX D

Site Photographs



P1: View of the south-eastern section of the site from Ajax Drive. Photo facing north



P2: Grassed area to the front of 45 Ajax Drive



P3: Driveway which runs parallel to 45 Ajax Drive



P4: Area to the rear of 45 Ajax Drive



P5: A storage shed and hardstanding to the rear of 45 Ajax Drive



P6: View of the rear of 45 Ajax Drive. Photo facing south-east

Comments:



Photographs 1 to 6

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project

Site: Land at 45 Ajax Drive, Bury
Title: Appendix D - Site Photographs

Project No: 23119	Created By: A Hope	Date: September 2023
Client: Deborah Wilcox		

				
P7: Area of grassland which comprises the majority of the site. Photo facing north-west.		P8: View of the grassed area in the north and north west of the site. Photo facing south-west from the north-eastern site periphery		
				
P9: Piled wood and branches in the northern corner of the site (potential Himalayan balsam)		P10: Overgrown area bordering a tall fence along the northern/north western site periphery		
				
P11: View of the grassed area of the site. Photo facing south.		P12: The western corner of the site		
Comments:				
		Photographs 7 to 12		
This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project	Site: Land at 45 Ajax Drive, Bury	Project No: 23119	Created By: A Hope	Date: September 2023
	Title: Appendix D - Site Photographs	Client: Deborah Wilcox		



P13: Suspected asbestos cement sheeting present to the rear of 45 Ajax Drive adjacent to the north-eastern site boundary

P14: Area of scorched ground located near the centre of the site

Comments:



Photographs 13 to 14

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project

Site: Land at 45 Ajax Drive, Bury

Title: Appendix D - Site Photographs

Project No:
23119

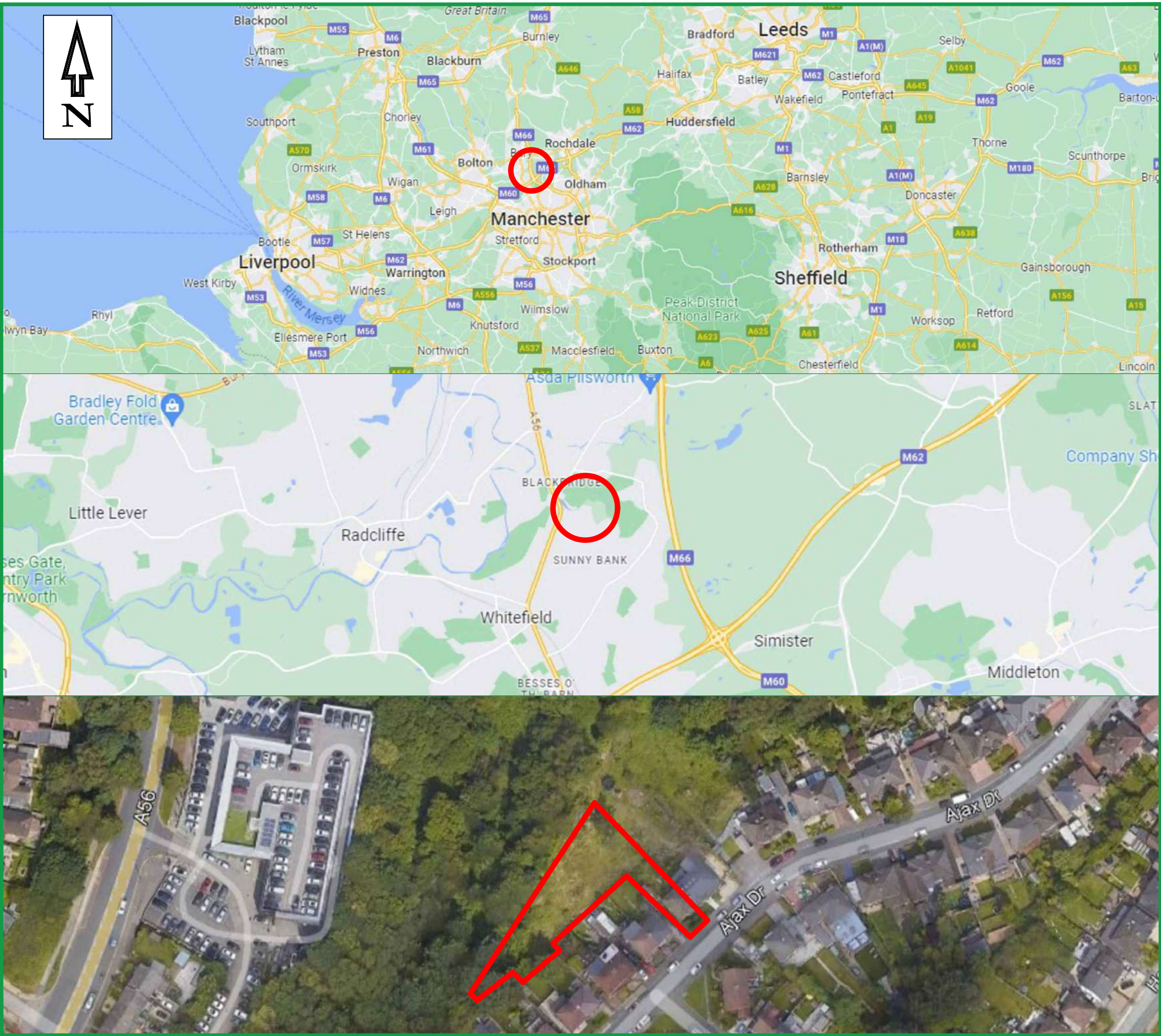
Created By:
A Hope

Date:
September 2023

Client: Deborah Wilcox

APPENDIX E

Drawings



LEGEND

— SITE LOCATION

REV	DESCRIPTION	DATE	BY



BIOK
GEO-ENVIRONMENTAL CONSULTING ENGINEERS

No 2 Landwick Court, Metcalf Drive, Altham Business Park, Lancashire
Tel: 01254 377622 Mob: 07906753583
Email: mbuckley@bekenviro.co.uk
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CLIENT.

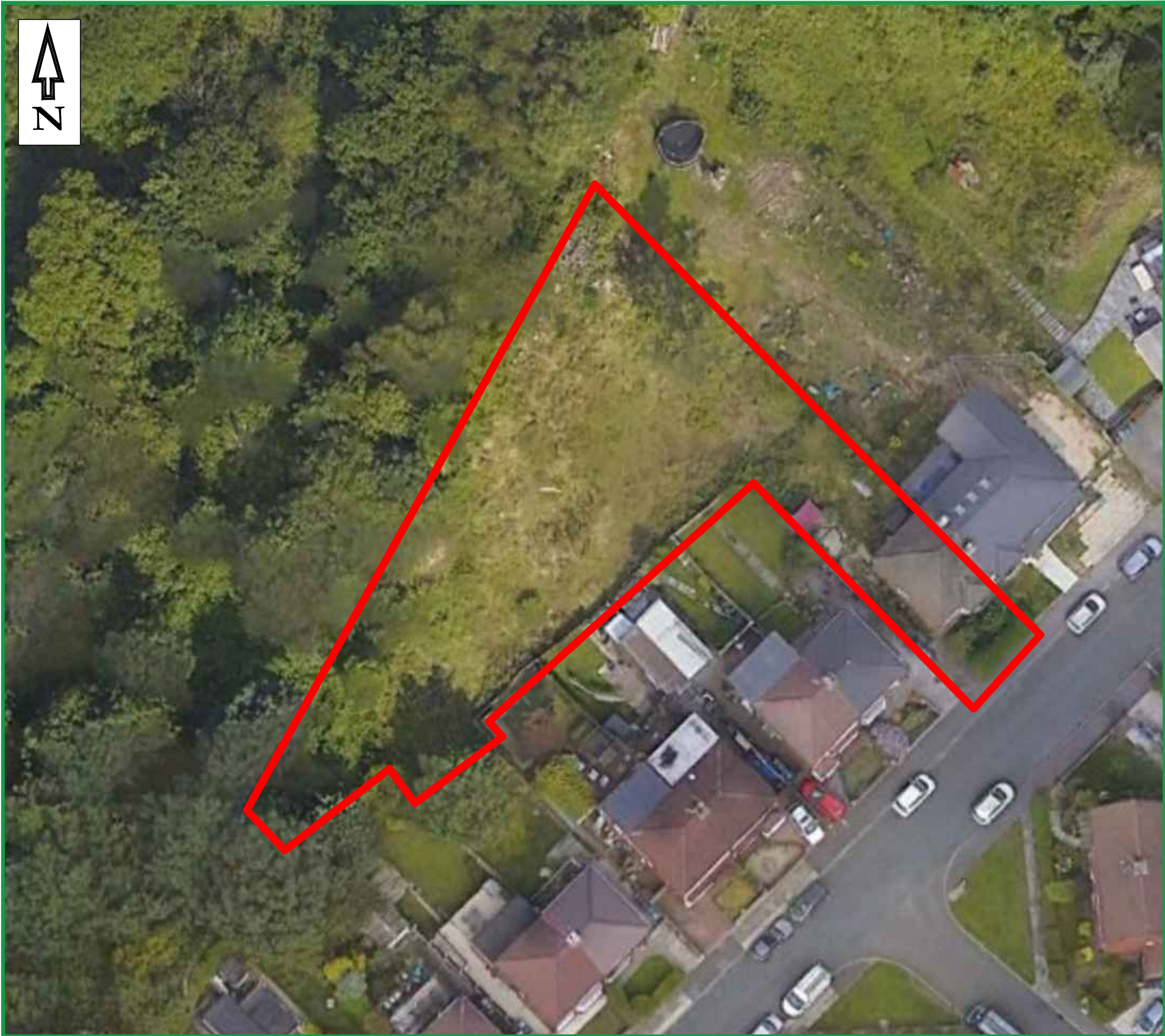
JOB TITLE.

LAND AT 45 AJAX DRIVE, BURY

DRAWING TITLE.

SITE LOCATION PLAN

SCALE © A3. N.T.S	DRAWN BY. D.E.	APPROVED BY. M.B.	DATE. 01/09/23
DRAWING No. 23119-1			REV. -



LEGEND

— APPROXIMATE
SITE BOUNDARY

REV	DESCRIPTION	DATE	BY



GEO-ENVIRONMENTAL CONSULTING ENGINEERS
No 2 Landiwick Court, Metcalf Drive, Altham Business
Park, Lancashire, BB5 5GY
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Web: www.bekenviro.co.uk

CLIENT.

JOB TITLE.

LAND AT 45 AJAX DRIVE, BURY

DRAWING TITLE.

SITE LAYOUT

SCALE © A3. NTS	DRAWN BY. D.E.	APPROVED BY. M.B.	DATE. 01/09/23
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DRAWING No. 23119-2	REV. -
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