



Waterside, Kay Street

Phase 1 Desk Study Report

November 2024

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Final Report

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Document Verification

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Executive Summary

Site Location	Summerseat, Bury, BL9 5PE
Coordinates	SD 79389 15077
what3words	clumped.overdone.visa
Proposals	The proposal is for the construction of 5No. residential dwellings with associated car parking, turning circle and vegetated areas.
Scope of Services	Reviewing the existing data, obtaining and reviewing the Groundsure report, summarising the geology, hydrology, hydrogeology, Site history and pertinent environmental data, and carrying out a Preliminary Contamination Risk Assessment. Recommend any further work based on the findings.
Site Description	The Site is unoccupied at present and currently comprises an area of hardstanding (c. 1200m²) and a vegetated area containing mature trees (c. 700m²). It was previously used as a parking area for the adjacent Waterside public house until its collapse and closure in 2015. The Site slopes gently from 108m OD in the southwest to 103m OD in the northeast, with a steep slope in the northwest corner towards the River Irwell. Surrounding features within 150m include the River Irwell to the north, east, and west, residential buildings to the south and east, wooded areas and parkland to the north and west, and a railway and basketball court to the west.
Site History	The Site was initially occupied by residential buildings along Irwell Street and Willow Street in 1891, which were demolished by 1963, leaving two remaining residential dwellings. By 1977-1978, these were also removed, with intermittent mapping of the two dwellings again in 1980. By 2024, the Site is used for vehicle storage.
Anticipated Ground Conditions	Superficial Devensian Glaciofluvial Deposits over bedrock comprising Marsden Sandstone, Siltstone and Mudstone, part of the Marsden Formation.
Preliminary Risk Assessment	The Conceptual Site Model determines overall contamination risk to be low, with a moderate risk to construction workers from Made Ground and chemical spills.

	The geotechnical risk assessment identifies hazards such as weak ground and unsuitable structures, which could lead to foundation failure and delays. Proposed mitigation measures, including ground investigations and inspections, significantly reduce the risks, though some remain moderate.
Further Work	A Site walkover should be conducted to check the integrity of the channel wall immediately to the north of the Site. A ground investigation (GI), including shallow investigations, ground gas monitoring per BS 8485:2015, and a CON29M report for coal mining risks, is recommended to assess contamination and geotechnical hazards. A Phase II GIR should follow, including a ground model and geotechnical risk register to address the conceptual Site model.

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Appendix A: Groundsure Report

1 Introduction

1.1 Terms of Appointment

Ground and Project Consultants Ltd (GPCL) have been instructed by Kailey Purcell of Walbury Homes to provide an updated Phase I Desk Study at the Site located on land adjacent to Kay Street Bridge, BL9 5PE. GPCL have previously conducted a Phase I Desk Study at the Site in December 2018, Report No. 40275. Given the time lapsed since this report was conducted, and changes to the design, an update is required.

The current proposal is for the construction of 5No. residential dwellings with associated car parking, turning circle and vegetation.

1.2 Report Scope and Objectives

The objectives of this report are to ascertain the expected ground conditions at the Site and to assess the implications on the proposed development.

The scope of this report is as follows:

- A review of the existing data supplied by the Client:
 - 2058-0-01 SITE LAYOUT, by Mellor Architects. Dated August 2024. Reference: 2058-0-01
- Obtain and review Groundsure report GS-41Q-VNU-FW4-ZN1 and Groundsure Historical Mapping GS-5190561,
- Summarise the geology, hydrology, hydrogeology, Site history and pertinent environmental data,
- Carry out a desk top study including a Preliminary Contamination Risk Assessment,
- Recommend any further work based on the findings.

2 Site Information

The information on the Site and surrounding area has been obtained from freely available sources included in the references in Section 88, and the obtained Groundsure Report GS-41Q-VNU-FW4-ZN1, included Appendix A. Where appropriate, Figures and Tables have been provided throughout the report for ease of assessment.

2.1 Scheme Details

The Site is unoccupied at present and currently comprises an area of hardstanding (c. 1200m²) and a vegetated area containing mature trees (c. 700m²). It was previously used as a parking area for the adjacent Waterside public house until its collapse and closure in 2015. The proposal is for the construction of 5No. residential dwellings with associated car parking, turning circle and vegetated areas.

2.2 Site Location

The Site is located within Summerseat, Bury at Grid Reference SD 79389 15077. It is 4.2 km north of Bury and 16.5 km southeast of Bolton. The Site address is Kay Bridge, Summerseat, Bury with the closest postcode being BL9 5PE. The what3words location is clumped.overdone.visa.

The Site location is presented in Figure 1. The Site covers an area of approximately 1900 m² (0.19 ha) and is defined by the red box.



Figure 1111: Site location and topography (Bing Maps, Ordnance Survey, copyright 2024).

2.3 Site Description and Topography

Topographically, the area of hardstanding within the Site slopes gently from 108m OD in the south to 107m OD in the north. Along the north border, the Site slopes steeply from the area of hardstanding down to a channel wall and River Irwell. The vegetated area to the west of the hardstanding slopes steeply from 109m OD along the south border to 102m OD at the River Irwell.

Using publicly available sources, Google Maps (accessed November 2024) and Google Earth (accessed November 2024), relevant features immediately surrounding the Site have been summarised in Table 1111Table 11Table 1.

Table 1111: Relevant features close (<150 m) to Site

Direction	Summary
North	Channel wall (0m), River Irwell (1m), apartment building (35m), wooded areas and parkland >90m.
South	Residential buildings (25m-150m).
East	Residential Building (17m), River Irwell (28m).

West	Railway (50m), wooded area (60-132m) Basketball Court (101-143m), River Irwell (132m).
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3 Information from Statutory Authorities

Table 2 summarises information contained in the Groundsure Report found in Appendix A. The report collates data from a variety of sources including the Environment Agency (EA) and the British Geological Survey (BGS). All data suppliers are referenced in the report.

Table 2222: Summary of Environmental Data within approximately 250m of the Site

Historical land uses	• Cotton mill 0m (1891-1955) • Unspecified tanks 49-70m E/NE (1891-1980) • Electricity substation 50-59m SW (1971-1992) • Goods shed 74-88m SW (1927-1948) • Sewage works/railway sidings 83-150m SW (1908-1980) • Railway sidings 114m SW (1908-1948) • Unspecified heap 122m SW (1891-1948) • Cuttings 123-128m N (1891-1968) • Tunnel 150-153m N (1891-1980) • Electricity substation 155-156m W (1971-1992) • Unspecified pit/quarry 157m SE (1891-1948) • Unspecified tanks/sludge tanks/filter beds 183->250m SW (1908-1980) • Gas governor 191-192m W (1978-1992) • Gas works 208-214m W (1891-1908) • Electricity substation 241-243m SE (1971-1992)
Current or recent potentially contaminative land uses	• Electricity substation 59m SW • Electricity substation 161m W • Electricity substation 240m SE
Potentially infilled land	• None present
Historical and current landfills	• Miller Street, Summerseat, inert landfill 197m S (1979-1984)
Recorded pollution incidents	• N/A

3.1 Designated Ecological Sites and Sites of Biological Interest

According to the Groundsure Report the Site lies within the green belt of Merseyside and Greater Manchester, under local authority of Bury.

3.2 Site History

The historical aerial photographs obtained from both the Groundsure Report and Google Earth date between 1891 and 2024 have been reviewed.

The main changes are detailed in Table 3333Table 33Table 3.

Table 3333: Site history

Date	On Site	Off Site (<~250m)
1891	Residential buildings are located along Irwell Street and Willow Street.	Residential buildings are located 0-50m to the south and 100-250m to the west. The river Irwell is located ~5m to the north. A sluice is located 10m to the north. A spring is located 10m to the south. Woodbine cottage is located 20m to the south. Brooksbottoms Mill is located 30-120m to the north. A reservoir is located 30-130m to the northeast. A railway line and viaduct traverses north/south 50m to the west. A goods shed associated with the railway is located 60m to the southwest. Cragg House is located 70m to the southeast. A wooded area and farmland is located 100-250m to the south and 120-250m to the north. Brooksbottoms Siding is located 120-250m to the southwest. A mission room is located 140m to the west. A quarry is located 150-200m to the east. Cragg Farm is located 210-150m to the east. A gas works is located 260m to the west.
1910	No significant changes.	A second reservoir is located 150-250m to the east. An aqueduct is located 150m to the east. Additional residential buildings are mapped 150-250 to the south. Sludge tanks, sluices, tanks and filter beds are located 160-270m to the south. Sewage works are located >260m to the southwest.
1927-1928	No significant changes.	The gas works located 260m to the west is no longer mapped.
1929	No significant changes.	Allotment gardens are located 110->250m to the southwest. Additional residential buildings along Rowlands Road and Crag Avenue are mapped 180-250m to the southeast.
1963	Residential buildings located along Irwell Street and Willow Street are no longer mapped. One building remains on Site.	The Bungalow and Crag Side are located 130m to the southeast. Crag avenue is extended and residential buildings mapped along it, 130-250m to the southeast. The mission room located 140m to the west is now mapped as a church and Sunday school. The quarry 150-200m to the east is no longer mapped.
1971	No significant changes.	Additional residential buildings are located 50-130m to the south. Additional allotment gardens are located 130-250m to the northwest.

Date	On Site	Off Site (<~250m)
		Electricity substations are located 140m to the west and 60m to the south. Sinks are mapped 120m to the northwest and 240m to the south.
1977-1978	The building previously on Site is no longer mapped.	Additional residential buildings located 90-130m to the south.
1980	Two residential dwellings are located on Site.	No significant changes.
1992	The residential dwellings previously on Site are no longer mapped.	A public house is located 0-20m to the north. The mill buildings 30-120m to the north is now mapped as The Spinnings and The Gatehouse. Residential buildings are located 80-100m to the north.
2024	Vehicles are mapped as being stored on Site.	The residential buildings 80-100m to the north are replaced with vehicle parking.

3.3 Mining

Information presented in the Groundsure Report indicates that there are 3No. records of inactive surface mineral workings within 500m of the Site which have been summarised in Table 4.

Table 4444: Active and inactive surface and underground mineral workings within 500m of the Site

Location	Address	Name	Status	Surface/Underground	Commodity
194m E	Brooksbottom, Ramsbottom	Cragg Farm	Ceased	Surface	Sandstone
354m SE	Brooksbottom, Ramsbottom	Rowlands	Ceased	Surface	Sandstone
387m NE	Brooksbottom, Ramsbottom	Brooksbottom	Ceased	Surface	Sandstone

There are 11No. records of surface ground workings within 250m of the Site, the details of which have been summarised in Table 5.

Table 5555: Surface ground workings within ~250m of the Site

Location	Land Use	Year of mapping
56-57m E	Reservoirs	1908-1955
61-67m E	Ponds	1891-1980
83-104m SW	Sewage works	1908-1980

Location	Land Use	Year of mapping
122m SW	Unspecified heap	1891-1948
123-128m N	Cuttings	1891-1968
151-157m SE	Unspecified quarry	1908-1956
157m E	Reservoirs	1908
157m SE	Unspecified pit	1891-1948
183-190m SW	Sludge tanks	1908-1956
221m W	Canal	1956
247m SW	Filter beds	1908

There is 1No. record of underground workings within 250m of the Site, the details of which have been summarised in Table 6.

Table 6666: Underground workings within ~250m of the Site

Location	Land Use	Year of mapping
150-154m N	Tunnel	1891-1980

3.3.1 Coal Mining

The Groundsure report states that “underground mine workings are uncommon, although the geology is similar to that where coal has been worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.”

The likelihood of encountering challenging ground conditions is considered low. However, as the Site is located within a coal mining area, as defined by the Coal Authority (Ref. 4, accessed November 2024), a CON29M is recommended to be obtained and reviewed.

3.4 Waste and Landfill

There are no recorded active or recent landfills within a 250m radius of the Site according to the Groundsure Report. There is one recorded historical landfill 197m from the Site. The licence for it was surrendered in 1987. There are also no waste exemptions or waste Sites within 250m of the Site.

3.5 UXO Risk

According to regional unexploded bomb (UXB) mapping published by Zetica, the Site lies within a zone that experiences a low risk of UXB. It is estimated that up to 15No. bombs or less are unexploded within 1000 acres.

4 Soils, Geology and Geochemistry

4.1 Published Geology

The published geology of the Site is indicated on the BGS Geology Viewer. An extract of the geological map is included below (Figures 2 and 3). The Site is underlain by the geological succession summarised in

Table 77777

Table 777

Table 7.

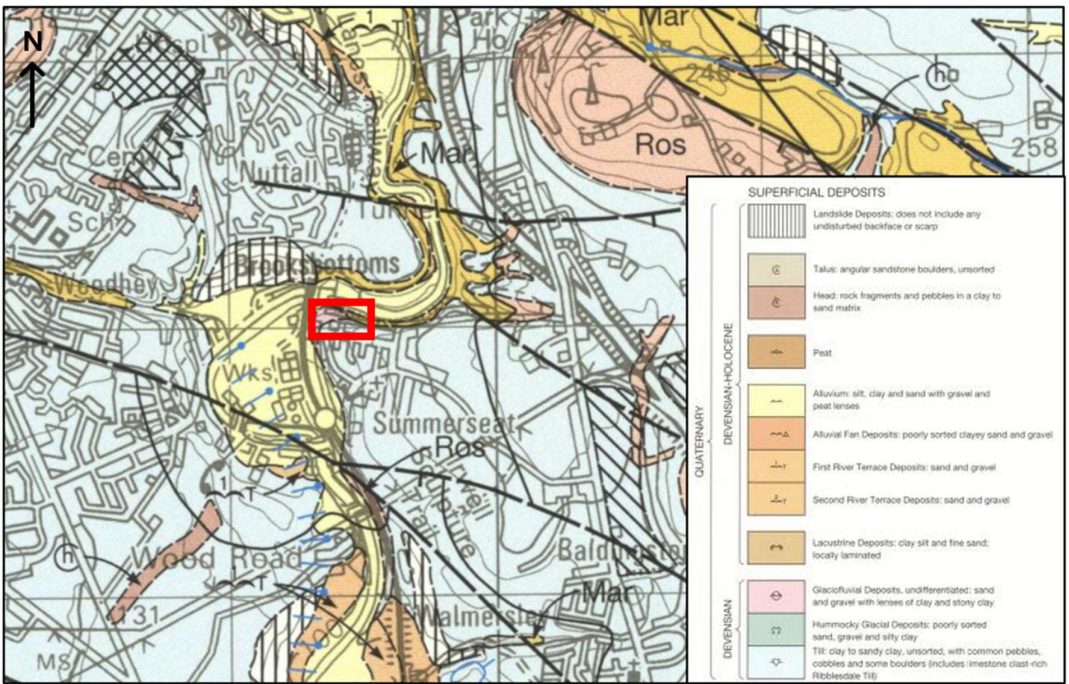


Figure 2222, Drift geology, 1:50,000 scale (Sheet 76, Rochdale), Site location in red (Source: BGS Rochdale, BGS Copyright 2024).

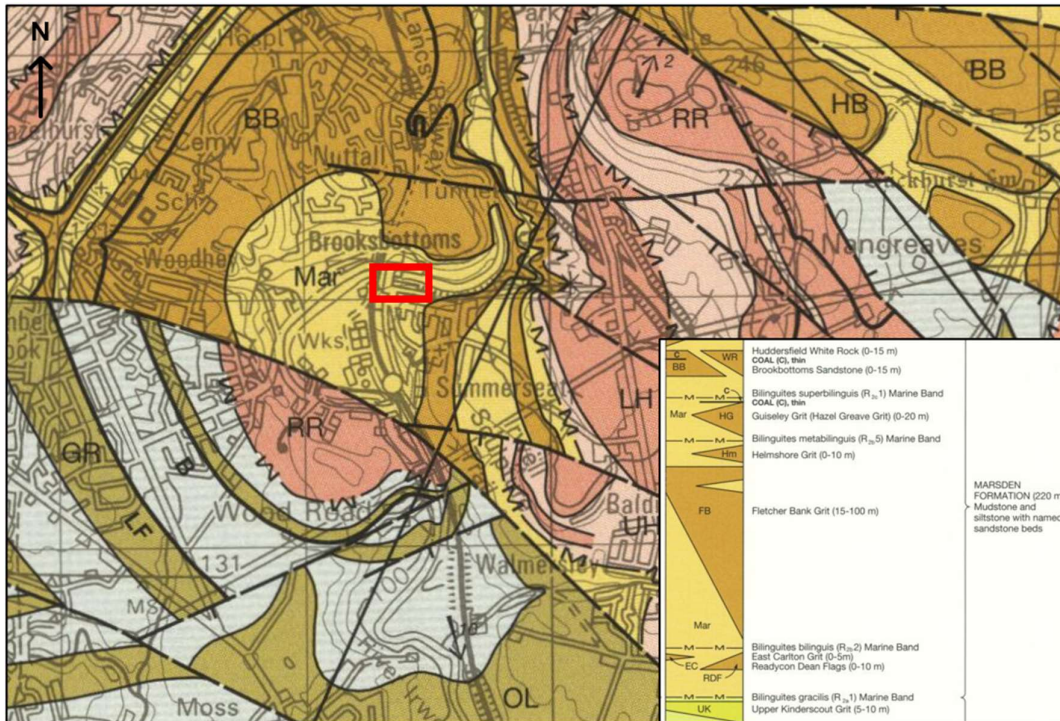


Figure 3333, Solid geology, 1:50,000 scale (Sheet 76, Rochdale), Site location in red (Source: BGS Rochdale, BGS Copyright 2024).

Table 77777: Geological succession from published mapping

Age	Parent Unit	Geological Stratum	Stratum Description*
2.58 million (years ago to present)	Fluvial Deposits	Alluvium	Clay, silt, sand and gravel. This is the unconsolidated detrital material deposited by a river, stream or other body of running water as a sorted or semi-sorted sediment in the bed of the stream or on its floodplain or delta, or as a cone or fan at the base of a mountain slope. Normally soft to firm consolidated, compressible silty clay, but can contain layers of silt, sand, peat and basal gravel.
Devensian (72,000 to 12,000 years ago)	Proglacial Deposits	Glaciofluvial Deposits	Deposited by meltwater streams. Includes mostly coarse-grained sediments (i.e. sand and gravel) with some finer-grained layers (i.e. clay and silt). Sand and gravel, locally with lenses of silt, clay or organic material.
Carboniferous (359 to 299 million years ago)	Millstone Grit Group	Marsden Formation	Fine to very coarse-grained and pebbly feldspathic sandstone, interbedded with grey siltstone and mudstone, and subordinate marine black shales, thin coals and seatearths.

*As per the BGS Lexicon.

Glacial Till is mapped as being adjacent to the Site, along with alluvium associated with the River Irwell. A landslide has been recorded 90m to the northwest of the Site.

Although not mapped, it is likely that some Topsoil and Made Ground will be present across the Site associated with recent land uses.

4.2 BGS Boreholes

There are no records of BGS boreholes within the Site boundary, and 19 records of BGS boreholes within 250m of the Site according to the BGS index (Ref. 8, accessed November 2024) and the Groundsure report.

Made Ground or Topsoil were encountered to depths of between 0.2 and 4.8m bgl. Superficial deposits were generally comprised of interbedded cohesive deposits of silty sandy CLAY, and granular deposits of sandy GRAVEL. Bedrock was not encountered.

It has been assumed that there has been no significant construction or changes in ground levels between the drilling of these boreholes and the present. A review of historical maps up to 2024 supports this.

4.3 Hydrology and Hydrogeology

4.3.1 Surface Water Courses and Drainage

The nearest surface watercourse to the Site is an inland river, the River Irwell, located 14m east of the Site. Water is retained within it year-round and flows from east to west.

The Site is located within the Water Framework Directive (WFD) surface body catchment of the River Irwell.

4.3.2 Flooding

The Groundsure report indicates the risk on Site of flooding from rivers and the sea to be low (less than 1 in 100 but greater than or equal to 1 in 1000 chance) and the risk within 0-50m from the Site to be high (greater than or equal to 1 in 30 chance).

The highest risk of surface water flooding on Site is >1.0m in a 1 in 100-year rainfall event. Within 50m of the Site the risk is indicated to be >1.0m in a 1 in 30-year rainfall event.

The highest risk of groundwater flooding on Site is low and the highest risk within 50m of the Site is moderate.

4.3.3 Aquifer Classification

As per the Groundsure report, the superficial deposit (Glaciofluvial Deposit) beneath the Site is classed as a Secondary A aquifer. Secondary A aquifers have 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.

22m to the south of the Site the superficial deposit (Alluvium) is classed as a Secondary Undifferentiated aquifer. Secondary Undifferentiated aquifers are 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.

The bedrock, (Marsden Formation) is classed as a Secondary A aquifer, as defined above.

5 Preliminary Risk Assessment (Geoenvironmental)

This section comprises a preliminary risk assessment for the Site. The aim is to establish whether there are potentially unacceptable contamination risks. The development of a conceptual model for the Site is a key approach outlined in Land Contamination Risk Management (LCRM) (Ref. 9, accessed November 2024) and has become standard industry practice. An initial Conceptual Site Model (CSM) has been developed, which identifies source-pathway-receptor 'pollutant linkages' potentially present at the Site. If potentially unacceptable risks are identified, then it is suggested what further action may be appropriate.

Table 88888: Conceptual Site Model

Source	Pathway	Receptor	Risk Rating
Made Ground on Site from previous development.	Inhalation, dermal contact, ingestion	Construction workers	Medium
Made ground associated with surrounding industrial land uses.	Inhalation (dust), dermal contact, ingestion	Residents	Negligible
	Migration / Leaching	Secondary A Aquifers Surface water	Low
Made Ground may include asbestos containing materials (ACM).	Inhalation	Construction workers Future Site users	Low
Chemical spills from vehicles on Site and unspecified storage tanks approximately 49-70m E/NE and 183-250m SW.	Inhalation, dermal contact, ingestion	Construction workers	Medium
	Inhalation, dermal contact, ingestion	Residents	Low
	Migration / Leaching	Secondary A Aquifers Surface water	Low
	Direct contact	Water supply pipes	Low
PCBs from electrical substations located approximately 50-60m SW, 140-161m W and 240-243m SE.	Migration / Leaching	Residents	Low
Ground gases from on and off Site Made Ground	Inhalation	Residents	Low
Radon. <1% of properties at or above the Action Level.	Inhalation	Residents	Negligible
DDT from historical pesticide use and fertiliser	Inhalation, dermal contact, ingestion	Construction workers	Low

build up on surrounding farmland	Inhalation, dermal contact, ingestion	Residents	Negligible
	Migration / Leaching	Secondary A Aquifers Surface water	Low
	Direct contact	Water supply pipes	Low

Risk Rating (probability versus severity)

Negligible	Unlikely to be a source, pathway or receptor and insignificant consequence.
Low	Possible to likely source with insignificant consequence or unlikely to possible source with minor to moderate consequences.
Medium	Certain source with insignificant consequence to unlikely source with major consequence.
High	Likely to certain source and minor to moderate consequence or likely source with moderate to high consequence
Very High	Certain source with major consequence.

From the qualitative risk assessment above, overall contamination risks are considered to be low with a moderate risk to construction workers from possible Made Ground associated with the previous development on Site and also from potential chemical spills from vehicles stored on Site and historical tanks off Site.

Potential hazards where the risk is rated negligible or low require no further action. However, where risks are rated as moderate or higher they are deemed unacceptable and further assessment is required.

6 Preliminary Risk Assessment (Geotechnical)

An initial Geotechnical Risk Register has been developed based on the available data and included below.

Hazard	Risk	Consequence	Risk before mitigation			Proposed Risk Management Measures	Anticipated Risk Rating Following Management		
			P	C	R		P	C	R
Weak and/ compressible ground and unsuitable ground conditions.	Foundation failure of structures.	Programme delays and increased costs. Structural distress.	4	5	20	GI to be conducted and an appropriately conservative ground models to be adopted.	2	5	10
	Wall collapse of excavations.	Risk of injury.	3	5	15	GI to be conducted and appropriately conservative ground models to be adopted. Appropriate temporary works design	1	5	5
	Inappropriate design solution adopted potentially leading to failure of earthworks.	Programme delays and increased costs.	3	5	15	GI to be conducted and appropriately conservative ground models to be adopted. Ensure regular inspections and maintenance of earthworks are carried out through the design life.	1	5	5
Weak and/or unsuitable retaining structure	Wall collapse	Programme delays and increased costs. Risk of injury.	3	5	15	Ensure a site walkover is completed including inspection of the wall by a structural engineer.	2	5	10
Hard dig due to obstructions such as shallow rockhead or cobbles/boulders.	Excavations to founding depth cannot be achieved. Unsuitable machinery brought to Site.	Programme delays and increased costs.	2	3	6	GI to be conducted and appropriately conservative ground models to be adopted.	1	3	3

Hazard	Risk	Consequence	Risk before mitigation			Proposed Risk Management Measures	Anticipated Risk Rating Following Management		
			P	C	R		P	C	R
Unsuitable earthworks materials.	Importation and/or off-Site disposal of material.	Programme delays and increased costs.	4	4	16	GI to be conducted and appropriately conservative ground models to be adopted.	2	4	8
	Failure of structures by settlement or overturning.	Repairs and long-term maintenance costs.	3	5	15		2	5	10
Damage to local infrastructure leading to failure of structural elements (e.g., drainage, services).	Excessive total and/or differential settlement, leading to slab breakage.	Programme delays and/or increased costs during construction. Repairs and long-term maintenance costs.	3	4	20	Appropriately conservative ground models to be adopted using GI. Ensure regular inspections and maintenance of earthworks are carried out through the design life.	2	4	8
Aggressive ground conditions.	Chemical attack on buried concrete/steel	Reduced durability of concrete/ steel	2	4	8	Sulphate testing to be conducted during GI. Ensure imported backfill has acceptable sulphate levels. Concrete to be used to a suitable sulphate resistance.	1	4	4
Buried service pipes.	Strike of services during construction.	Health and safety of construction workers or Site users. Programme delays and/or increased costs during construction. Repairs and long-term maintenance costs.	3	5	15	Utility survey to be conducted prior to GI. Buffer zones established surrounding service corridors which cannot be rerouted.	1	5	5

Table 1010101010: Qualitative assessment of hazards and risks

P = Probability		C = Consequence		R = Risk Rating (P x I)	
1	Very unlikely (VU)	1	Very Low	1 – 4	None / negligible
2	Unlikely (U)	2	Low	5 – 9	Minor
3	Plausible (P)	3	Medium	10 – 14	Moderate
4	Likely (Lk)	4	High	15 – 19	Substantial
5	Very Likely (VLk)	5	Very High	20 - 25	Severe

7 Conclusions and Recommendations

The Site currently comprises an area of hardstanding (c. 1200m²) and a vegetated area (c. 700m²). It was used as a parking area for the adjacent Waterside public house until its collapse and closure in 2015. The proposal is for the construction of 5No. residential dwellings with associated car parking, turning circle and vegetated areas.

The geology at Site is anticipated to be Made Ground associated with recent land use overlying Glaciofluvial Deposits and/or Alluvium. Bedrock is anticipated to be the Marsden Formation. The distribution of these strata is currently unknown.

The Conceptual Site Model identifies medium risks from made ground and chemical spills, primarily affecting construction workers through inhalation, dermal contact, and ingestion pathways. Low risks are associated with migration to secondary aquifers and surface waters, potential asbestos within made ground, PCBs from electrical substations, ground gases, and historical pesticide use. Negligible risks include inhalation or ingestion exposure to residents from made ground, radon, and historical pesticide use.

The geotechnical risk assessment highlights hazards including weak ground, unsuitable structures, and aggressive ground conditions that could cause foundation failure, delays, and increased costs. Mitigation measures, including ground investigations and associated conservative ground models, as well as inspections, are proposed to reduce these risks, with the anticipated risk ratings significantly lowered, though some risks remain moderate.

A Site walkover should be conducted to check the integrity of the river channel wall immediately to the north of the Site. Its stability should be assessed with the additional loading of the proposed development in mind. The wall should also be checked by structural engineer.

A ground investigation (GI) should be undertaken at the Site prior to a utility survey. The recommended scope includes boreholes for ground gas monitoring (in accordance with BS 8485:2015) and groundwater monitoring as well as sampling to be sent for laboratory analysis. In order to characterise the ground, determine the depth of the Made Ground on Site and assess excavation stability it is recommended for the GI to include both shallow and deep ground investigations such as window sampling, trial pits and cable percussive boreholes.

Geoenvironmental and geotechnical testing should be carried out to characterise the ground conditions at the Site. This should include but is not limited to:

- Particle size distribution testing;
- Atterbergs;
- Undrained shear strength;
- Standard penetration testing (SPTs);
- Oedometer testing; and
- Chemical testing to include sulphates.

The Site is located within a coal mining area as defined by the Coal Authority (Ref. 4, accessed November 2024). It is recommended a CON29M is obtained for review.

A phase II ground investigation report (GIR) is recommended to assess the information, and to provide an updated geotechnical and geoenvironmental risk register following an appropriate GI. A ground model should be developed to investigate the risks presented in the conceptual Site model.

8 References

1. Bing maps, Ordnance Survey, accessed November 2024. URL: <https://www.bing.com/maps/>
2. Google maps, accessed November 2024. URL: <http://www.google.co.uk/maps/>
3. Google Earth, accessed November 2024. URL: <https://earth.google.com/>
4. Coal Authority, accessed November 2024. URL: <https://mapapps2.bgs.ac.uk/coalauthority/home.html>
5. Zetica UXB, accessed November 2024. URL: <https://zeticauxo.com/guidance/risk-maps/>
6. BGS Geology Viewer, accessed November 2024. URL: <https://geologyviewer.bgs.ac.uk/>
7. BGS Lexicon, accessed November 2024. URL: <https://webapps.bgs.ac.uk/lexicon/>
8. BGS GeoIndex Onshore, accessed November 2024. URL: <https://mapapps2.bgs.ac.uk/geoindex/home.html>
9. Land Contamination Risk Management (LCRM). EA. October 2020.
10. BS 8485:2015. Code of practice for the design of protective measures for methane and carbon dioxide ground gases for new buildings. British Standards Institution (BSI). 2015.

Appendix A

Groundsure Report



Waterside, Kay Street

Order Details

Date: 04/11/2024
Your ref: Waterside, Kay Street
Our Ref: GS-41Q-VNU-FW4-ZN1

Site Details

Location: 379407 415069
Area: 0.19 ha
Authority: [Bury Metropolitan Borough Council](#) ↗



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[Summary of findings](#)

[p.2 > Aerial image](#)

[p.9 >](#)

[OS MasterMap site plan](#)

[p.14 > Insight User Guide](#) ↗

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Certified



Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	5	1	28	44	-
18 >	1.2 >	Historical tanks >	0	1	13	22	-
20 >	1.3 >	Historical energy features >	0	0	13	7	-
21	1.4	Historical petrol stations	0	0	0	0	-
21	1.5	Historical garages	0	0	0	0	-
22	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
23 >	2.1 >	Historical industrial land uses >	5	2	54	71	-
28 >	2.2 >	Historical tanks >	0	1	22	31	-
31 >	2.3 >	Historical energy features >	0	0	18	11	-
32	2.4	Historical petrol stations	0	0	0	0	-
32	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
33	3.1	Active or recent landfill	0	0	0	0	-
33	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
34	3.5	Historical waste sites	0	0	0	0	-
34	3.6	Licensed waste sites	0	0	0	0	-
35	3.7	Waste exemptions	0	0	0	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
36 >	4.1 >	Recent industrial land uses >	0	0	3	-	-
37	4.2	Current or recent petrol stations	0	0	0	0	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-



37	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
38	4.8	Hazardous substance storage/usage	0	0	0	0	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
38	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
38	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
39 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	1	0	8	-
40	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
40	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
41	4.17	List 2 Dangerous Substances	0	0	0	0	-
41 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	0	0	3	-
42	4.19	Pollution inventory substances	0	0	0	0	-
42	4.20	Pollution inventory waste transfers	0	0	0	0	-
42	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
43 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
45 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
47 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
48	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
48	5.5	Groundwater vulnerability- local information	None (within 0m)				
49 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	17
54 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	9
56 >	5.8 >	<u>Potable abstractions ></u>	0	0	0	0	3
57	5.9	Source Protection Zones	0	0	0	0	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
58 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	0	3	25	-	-



61 >	6.2 >	Surface water features >	0	3	7	-	-
61 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
61 >	6.4 >	WFD Surface water bodies >	0	1	0	-	-
62 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
63 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
64 >	7.2 >	Historical Flood Events >	1	0	0	-	-
64	7.3	Flood Defences	0	0	0	-	-
64	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
65	7.5	Flood Storage Areas	0	0	0	-	-
66 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
67 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
68 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
70 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
72	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
72	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
72	10.4	Special Protection Areas (SPA)	0	0	0	0	0
72	10.5	National Nature Reserves (NNR)	0	0	0	0	0
73 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
73 >	10.7 >	Designated Ancient Woodland >	0	0	1	2	2
73	10.8	Biosphere Reserves	0	0	0	0	0
74	10.9	Forest Parks	0	0	0	0	0
74	10.10	Marine Conservation Zones	0	0	0	0	0
74 >	10.11 >	Green Belt >	1	0	0	0	1
74	10.12	Proposed Ramsar sites	0	0	0	0	0



75	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
75	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
75	10.15	Nitrate Sensitive Areas	0	0	0	0	0
75	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
76 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
77 >	10.18 >	SSSI Units >	0	0	0	0	1
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
79	11.1	World Heritage Sites	0	0	0	-	-
80	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
80	11.3	National Parks	0	0	0	-	-
80 >	11.4 >	Listed Buildings >	0	1	0	-	-
81 >	11.5 >	Conservation Areas >	1	0	0	-	-
81	11.6	Scheduled Ancient Monuments	0	0	0	-	-
81	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
82 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
83	12.2	Open Access Land	0	0	0	-	-
83 >	12.3 >	Tree Felling Licences >	0	1	0	-	-
83	12.4	Environmental Stewardship Schemes	0	0	0	-	-
83	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
84 >	13.1 >	Priority Habitat Inventory >	1	1	23	-	-
85 >	13.2 >	Habitat Networks >	1	0	3	-	-
86	13.3	Open Mosaic Habitat	0	0	0	-	-
86	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
87 >	14.1 >	10k Availability >	Identified (within 500m)				
88 >	14.2 >	Artificial and made ground (10k) >	0	0	3	3	-
90 >	14.3 >	Superficial geology (10k) >	2	1	4	5	-

91 >	14.4 >	Landslip (10k) >	0	0	1	2	-
92 >	14.5 >	Bedrock geology (10k) >	1	0	3	12	-
93 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	9	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	15.1 >	50k Availability >	Identified (within 500m)				
96	15.2	Artificial and made ground (50k)	0	0	0	0	-
96	15.3	Artificial ground permeability (50k)	0	0	-	-	-
97 >	15.4 >	Superficial geology (50k) >	2	1	1	2	-
98 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
98 >	15.6 >	Landslip (50k) >	0	0	1	0	-
98	15.7	Landslip permeability (50k)	None (within 50m)				
99 >	15.8 >	Bedrock geology (50k) >	1	0	1	7	-
100 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
100 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	5	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	16.1 >	BGS Boreholes >	0	0	19	-	-
Page	Section	Natural ground subsidence >					
104 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
105 >	17.2 >	Running sands >	Low (within 50m)				
107 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
109 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
110 >	17.5 >	Landslides >	Moderate (within 50m)				
112 >	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
114 >	18.1 >	BritPits >	0	0	1	2	-
115 >	18.2 >	Surface ground workings >	0	0	34	-	-
117 >	18.3 >	Underground workings >	0	0	7	0	7
117	18.4	Underground mining extents	0	0	0	0	-
118	18.5	Historical Mineral Planning Areas	0	0	0	0	-



118 >	18.6 >	Non-coal mining >	1	0	1	0	2
119	18.7	JPB mining areas	None (within 0m)				
119	18.8	The Coal Authority non-coal mining	0	0	0	0	-
119	18.9	Researched mining	0	0	0	0	-
119	18.10	Mining record office plans	0	0	0	0	-
120	18.11	BGS mine plans	0	0	0	0	-
120 >	18.12 >	Coal mining >	Identified (within 0m)				
120	18.13	Brine areas	None (within 0m)				
120	18.14	Gypsum areas	None (within 0m)				
120	18.15	Tin mining	None (within 0m)				
121	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
122	19.1	Natural cavities	0	0	0	0	-
122	19.2	Mining cavities	0	0	0	0	0
122	19.3	Reported recent incidents	0	0	0	0	-
122	19.4	Historical incidents	0	0	0	0	-
123	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
124 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	5	-	-	-
126	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
127	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
128	22.1	Underground railways (London)	0	0	0	-	-
128	22.2	Underground railways (Non-London)	0	0	0	-	-
129 >	22.3 >	Railway tunnels >	0	0	1	-	-
129 >	22.4 >	Historical railway and tunnel features >	0	0	27	-	-
130	22.5	Royal Mail tunnels	0	0	0	-	-

130	22.6	Historical railways	0	0	0	-	-
131 >	22.7 >	Railways >	0	3	8	-	-
131	22.8	Crossrail 2	0	0	0	0	-
131	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 07/04/2023

Site Area: 0.19ha



Recent site history - 2019 aerial photograph



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Capture Date: 23/05/2019

Site Area: 0.19ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.19ha



Recent site history - 2001 aerial photograph



Capture Date: 07/05/2001

Site Area: 0.19ha



Recent site history - 2000 aerial photograph



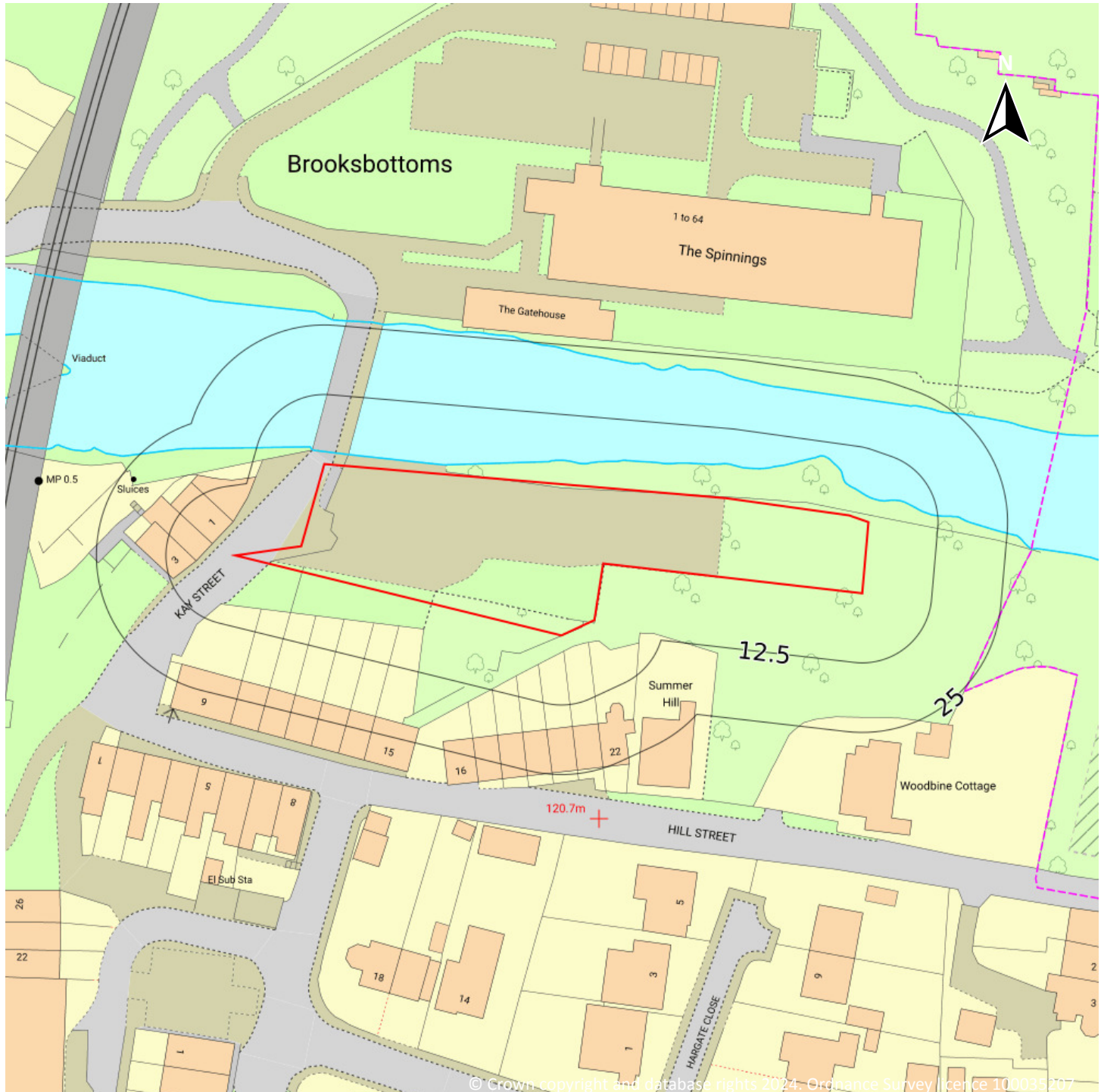
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Capture Date: 07/05/2000

Site Area: 0.19ha



OS MasterMap site plan

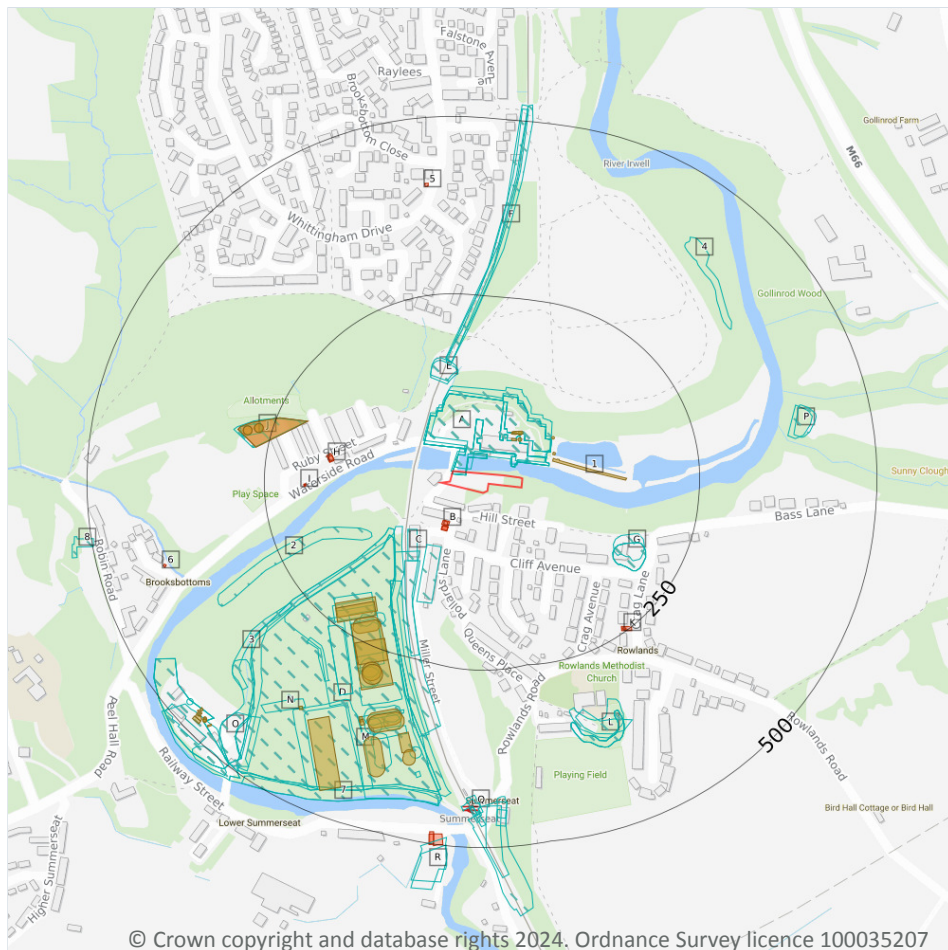


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Site Area: 0.19ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

78

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Cotton Mill	1908	720881



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Mill	1891	752384
A	On site	Unspecified Mill	1927	775410
A	On site	Cotton Mill	1948	790338
A	On site	Cotton Mill	1955	791457
A	5m NW	Unspecified Mill	1968 - 1980	793538
C	74m SW	Goods Shed	1927 - 1948	734898
D	83m SW	Sewage Works	1974 - 1980	748172
C	88m SW	Goods Shed	1927 - 1948	747278
D	94m SW	Unspecified Commercial/Industrial	1969	722495
D	94m SW	Unspecified Commercial/Industrial	1956	735071
D	101m SW	Railway Sidings	1956	796463
D	103m SW	Sewage Works	1927 - 1948	772375
D	104m SW	Sewage Works	1908	788706
C	114m SW	Railway Sidings	1908 - 1948	796993
2	122m SW	Unspecified Heap	1891 - 1948	710233
E	123m N	Cuttings	1891 - 1948	745570
E	128m N	Cuttings	1955 - 1968	708638
D	150m SW	Railway Sidings	1908	773319
F	150m N	Tunnel	1891 - 1948	719657
G	151m SE	Unspecified Quarry	1956	686077
F	153m N	Tunnel	1955 - 1968	745973
F	154m N	Tunnel	1980	755498
G	157m SE	Unspecified Old Quarry	1908	659541
G	157m SE	Unspecified Pit	1927 - 1948	720025
G	157m SE	Unspecified Pit	1891	794211
D	183m SW	Sludge Tanks	1956	755947
D	190m SW	Sludge Tanks	1908 - 1948	805642
D	202m SW	Unspecified Tanks	1974 - 1980	776023



ID	Location	Land use	Dates present	Group ID
D	204m SW	Unspecified Tanks	1956	709741
J	210m W	Gas Works	1891 - 1908	708732
D	215m SW	Unspecified Tanks	1908 - 1948	760457
D	238m SW	Unspecified Tanks	1927 - 1956	737235
D	247m SW	Filter Beds	1908	685198
J	263m W	Gasometers	1891 - 1908	800272
D	266m SW	Unspecified Tank	1956 - 1980	714469
3	273m SW	Unspecified Ground Workings	1908	660983
D	278m SW	Unspecified Tanks	1927 - 1948	731986
D	285m SW	Unspecified Ground Workings	1908	660982
D	289m SW	Unspecified Tank	1956	697573
L	319m S	Unspecified Quarry	1956	686078
D	320m S	Unspecified Tanks	1956 - 1980	714160
D	324m S	Unspecified Ground Workings	1908	660981
L	324m SE	Unspecified Pit	1974 - 1980	766958
M	332m SW	Unspecified Ground Workings	1908	660980
D	333m S	Unspecified Tanks	1927 - 1948	731918
L	338m S	Unspecified Old Quarry	1908	659542
L	338m S	Unspecified Ground Workings	1927 - 1948	729735
L	338m S	Unspecified Ground Workings	1891	805915
D	344m SW	Unspecified Tank	1927 - 1948	762855
4	359m NE	Unspecified Old Quarry	1908	659280
N	362m SW	Unspecified Heap	1908	688426
D	363m S	Unspecified Tanks	1974 - 1980	726631
D	370m S	Unspecified Tank	1974 - 1980	772600
O	372m SW	Unspecified Pit	1908 - 1927	794153
P	379m E	Unspecified Pit	1928 - 1938	804590
P	388m E	Unspecified Ground Workings	1955	662549



ID	Location	Land use	Dates present	Group ID
D	402m S	Pump House	1948	705003
O	425m SW	Unspecified Ground Workings	1908	660979
Q	426m S	Railway Station	1969	782624
Q	429m S	Railway Sidings	1956 - 1969	741863
7	431m S	Unspecified Heap	1908	688427
Q	431m S	Railway Station	1956	709702
Q	436m S	Goods Shed	1956	707123
Q	442m S	Railway Sidings	1908 - 1948	754869
Q	443m S	Railway Station	1908 - 1948	741443
Q	447m S	Goods Shed	1927 - 1948	801908
O	450m SW	Dye and Print Works	1956	666486
O	450m SW	Unspecified Commercial/Industrial	1980	670423
O	450m SW	Unspecified Works	1969 - 1974	798110
Q	450m S	Railway Station	1891	784522
O	466m SW	Chimney	1969 - 1980	800145
O	470m SW	Printing and Dyeing Works	1908 - 1927	772188
O	488m SW	Printing and Dyeing Works	1948	752105
R	488m S	Unspecified Disused Mill	1956	802596
8	497m W	Disused Cotton Mill	1908	658243
O	498m SW	Unspecified Pit	1908	675421
R	499m S	Unspecified Disused Mill	1927 - 1948	736926

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

36

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
1	49m E	Unspecified Tank	1937	85297
A	50m NE	Tanks	1937	81182
A	51m NE	Unspecified Tank	1937	85295
A	55m E	Unspecified Tank	1963 - 1971	92304
A	59m NE	Tanks	1963 - 1971	99264
A	59m NE	Unspecified Tank	1963 - 1971	97824
A	60m NE	Tanks	1980	102338
A	70m NE	Unspecified Tank	1891 - 1937	94860
D	186m SW	Tanks	1977	81185
D	192m SW	Sludge Tanks	1910 - 1937	96530
J	208m W	Gas Works	1891 - 1910	99228
D	211m SW	Tanks	1971 - 1977	95178
D	213m SW	Sluices Tanks	1910 - 1937	104521
D	234m SW	Tanks	1977	81186
J	263m W	Gasometer	1891 - 1910	101874
D	270m SW	Unspecified Tank	1963 - 1971	98807
D	273m SW	Tanks	1977	81187
J	277m W	Gasometer	1891 - 1910	93990
D	325m S	Tanks	1963 - 1971	103876
D	329m S	Tanks	1977	102182
D	348m SW	Unspecified Tank	1971	85299
D	351m SW	Tanks	1977	81188
D	353m S	Sludge Tanks	1937	91322
M	366m SW	Tanks	1977	81178
D	371m SW	Tanks	1971 - 1977	103360
N	371m SW	Tanks	1937	81184
D	376m S	Unspecified Tank	1971 - 1977	107176



ID	Location	Land use	Dates present	Group ID
O	463m SW	Unspecified Tank	1977 - 1992	97308
O	469m SW	Unspecified Tank	1971	91620
O	469m SW	Tanks	1992	81180
O	469m SW	Tanks	1992	81181
O	470m SW	Unspecified Tank	1992	85293
O	471m SW	Unspecified Tank	1977	98789
O	472m SW	Unspecified Tank	1910 - 1937	106648
O	473m SW	Tanks	1977 - 1992	98194
O	478m SW	Tanks	1937	81183

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

20

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	50m SW	Electricity Substation	1980	54616
B	51m SW	Electricity Substation	1971	56522
B	58m SW	Electricity Substation	1978	61100
B	58m SW	Electricity Substation	1992	52609
B	59m SW	Electricity Substation	1992	57085
H	155m W	Electricity Substation	1971 - 1992	60148
H	155m W	Electricity Substation	1992	53703
I	191m W	Gas Governor	1992	63459
I	192m W	Gas Governor	1992	51131



ID	Location	Land use	Dates present	Group ID
I	192m W	Gas Governor	1978	63347
J	208m W	Gas Works	1891 - 1910	62320
K	241m SE	Electricity Substation	1977 - 1992	57822
K	243m SE	Electricity Substation	1971	54511
J	263m W	Gasometer	1891 - 1910	58682
J	277m W	Gasometer	1891 - 1910	51251
5	403m N	Electricity Substation	1992	58129
6	405m W	Electricity Substation	1978 - 1992	53393
R	483m S	Electricity Substation	1971	56465
R	484m S	Electricity Substation	1977	58990
R	486m S	Electricity Substation	1992	50794

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

0

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'.

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

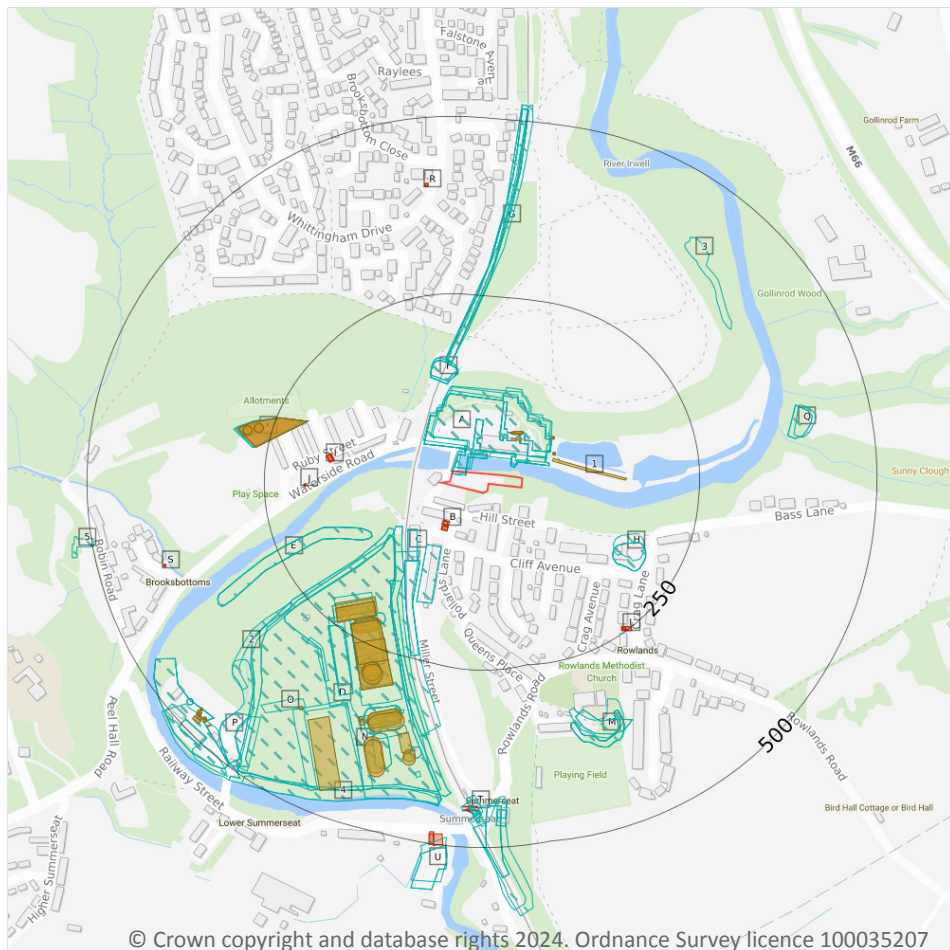
0

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

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2.1 Historical industrial land uses

Records within 500m

132

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 23](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Cotton Mill	1948	790338
A	On site	Unspecified Mill	1927	775410
A	On site	Cotton Mill	1908	720881



ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Mill	1891	752384
A	On site	Cotton Mill	1955	791457
A	5m NW	Unspecified Mill	1980	793538
A	6m NW	Unspecified Mill	1968	793538
C	74m SW	Goods Shed	1948	734898
C	74m SW	Goods Shed	1927	734898
D	83m SW	Sewage Works	1980	748172
D	83m SW	Sewage Works	1974	748172
C	88m SW	Goods Shed	1948	747278
C	88m SW	Goods Shed	1927	747278
D	94m SW	Unspecified Commercial/Industrial	1969	722495
D	94m SW	Unspecified Commercial/Industrial	1956	735071
D	101m SW	Railway Sidings	1956	796463
D	103m SW	Sewage Works	1948	772375
D	103m SW	Sewage Works	1927	772375
D	104m SW	Sewage Works	1908	788706
C	114m SW	Railway Sidings	1948	796993
C	114m SW	Railway Sidings	1927	796993
C	114m SW	Railway Sidings	1908	796993
E	122m SW	Unspecified Heap	1948	710233
E	122m SW	Unspecified Heap	1927	710233
E	122m SW	Unspecified Heap	1908	710233
E	122m SW	Unspecified Heap	1891	710233
F	123m N	Cuttings	1948	745570
F	123m N	Cuttings	1927	745570
F	123m N	Cuttings	1908	745570
F	123m N	Cuttings	1891	745570
F	128m N	Cuttings	1968	708638



ID	Location	Land Use	Date	Group ID
F	128m N	Cuttings	1955	708638
D	150m SW	Railway Sidings	1908	773319
G	150m N	Tunnel	1948	719657
G	150m N	Tunnel	1927	719657
G	150m N	Tunnel	1908	719657
G	150m N	Tunnel	1891	719657
H	151m SE	Unspecified Quarry	1956	686077
G	153m N	Tunnel	1968	745973
G	153m N	Tunnel	1955	745973
G	154m N	Tunnel	1980	755498
H	157m SE	Unspecified Pit	1948	720025
H	157m SE	Unspecified Pit	1927	720025
H	157m SE	Unspecified Pit	1891	794211
H	157m SE	Unspecified Old Quarry	1908	659541
D	183m SW	Sludge Tanks	1956	755947
D	190m SW	Sludge Tanks	1948	805642
D	190m SW	Sludge Tanks	1927	805642
D	190m SW	Sludge Tanks	1908	805642
D	202m SW	Unspecified Tanks	1980	776023
D	202m SW	Unspecified Tanks	1974	776023
D	204m SW	Unspecified Tanks	1956	709741
K	210m W	Gas Works	1891	708732
K	214m W	Gas Works	1908	708732
D	215m SW	Unspecified Tanks	1948	760457
D	215m SW	Unspecified Tanks	1927	760457
D	215m SW	Unspecified Tanks	1908	760457
D	238m SW	Unspecified Tanks	1956	737235
D	247m SW	Filter Beds	1908	685198



ID	Location	Land Use	Date	Group ID
D	247m SW	Unspecified Tanks	1948	737235
D	247m SW	Unspecified Tanks	1927	737235
K	263m W	Gasometers	1891	800272
D	266m SW	Unspecified Tank	1980	714469
D	266m SW	Unspecified Tank	1969	714469
D	266m SW	Unspecified Tank	1974	714469
D	266m SW	Unspecified Tank	1956	714469
K	271m W	Gasometers	1908	800272
2	273m SW	Unspecified Ground Workings	1908	660983
D	278m SW	Unspecified Tanks	1948	731986
D	278m SW	Unspecified Tanks	1927	731986
D	285m SW	Unspecified Ground Workings	1908	660982
D	289m SW	Unspecified Tank	1956	697573
M	319m S	Unspecified Quarry	1956	686078
D	320m S	Unspecified Tanks	1980	714160
D	320m S	Unspecified Tanks	1969	714160
D	320m S	Unspecified Tanks	1974	714160
D	320m S	Unspecified Tanks	1956	714160
D	324m S	Unspecified Ground Workings	1908	660981
M	324m SE	Unspecified Pit	1980	766958
M	324m SE	Unspecified Pit	1974	766958
N	332m SW	Unspecified Ground Workings	1908	660980
D	333m S	Unspecified Tanks	1948	731918
D	333m S	Unspecified Tanks	1927	731918
M	338m S	Unspecified Ground Workings	1948	729735
M	338m S	Unspecified Ground Workings	1927	729735
M	338m S	Unspecified Ground Workings	1891	805915
M	338m S	Unspecified Old Quarry	1908	659542



ID	Location	Land Use	Date	Group ID
D	344m SW	Unspecified Tank	1948	762855
D	344m SW	Unspecified Tank	1927	762855
3	359m NE	Unspecified Old Quarry	1908	659280
O	362m SW	Unspecified Heap	1908	688426
D	363m S	Unspecified Tanks	1980	726631
D	363m S	Unspecified Tanks	1974	726631
D	370m S	Unspecified Tank	1980	772600
D	370m S	Unspecified Tank	1974	772600
P	372m SW	Unspecified Pit	1927	794153
Q	379m E	Unspecified Pit	1928	804590
Q	379m E	Unspecified Pit	1938	804590
Q	388m E	Unspecified Ground Workings	1955	662549
D	402m S	Pump House	1948	705003
P	418m SW	Unspecified Pit	1908	794153
P	425m SW	Unspecified Ground Workings	1908	660979
T	426m S	Railway Station	1969	782624
T	429m S	Railway Sidings	1969	741863
4	431m S	Unspecified Heap	1908	688427
T	431m S	Railway Station	1956	709702
T	436m S	Goods Shed	1956	707123
T	436m S	Railway Sidings	1956	741863
T	442m S	Railway Sidings	1948	754869
T	442m S	Railway Sidings	1927	754869
T	442m S	Railway Sidings	1908	754869
T	443m S	Railway Station	1948	741443
T	443m S	Railway Station	1927	741443
T	443m S	Railway Station	1908	741443
T	447m S	Goods Shed	1948	801908



ID	Location	Land Use	Date	Group ID
T	447m S	Goods Shed	1927	801908
P	450m SW	Unspecified Commercial/Industrial	1980	670423
P	450m SW	Unspecified Works	1969	798110
P	450m SW	Unspecified Works	1974	798110
P	450m SW	Dye and Print Works	1956	666486
T	450m S	Railway Station	1891	784522
P	466m SW	Chimney	1980	800145
P	466m SW	Chimney	1969	800145
P	466m SW	Chimney	1974	800145
P	470m SW	Printing and Dyeing Works	1908	772188
P	488m SW	Printing and Dyeing Works	1948	752105
U	488m S	Unspecified Disused Mill	1956	802596
P	489m SW	Printing and Dyeing Works	1927	772188
5	497m W	Disused Cotton Mill	1908	658243
P	498m SW	Unspecified Pit	1908	675421
U	499m S	Unspecified Disused Mill	1948	736926
U	499m S	Unspecified Disused Mill	1927	736926

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

54

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 23 >](#)

ID	Location	Land Use	Date	Group ID
1	49m E	Unspecified Tank	1937	85297
A	50m NE	Tanks	1937	81182
A	51m NE	Unspecified Tank	1937	85295



ID	Location	Land Use	Date	Group ID
A	55m E	Unspecified Tank	1963	92304
A	55m E	Unspecified Tank	1971	92304
A	59m NE	Tanks	1963	99264
A	59m NE	Tanks	1971	99264
A	59m NE	Unspecified Tank	1963	97824
A	59m NE	Unspecified Tank	1971	97824
A	60m NE	Tanks	1980	102338
A	70m NE	Unspecified Tank	1891	94860
A	70m NE	Unspecified Tank	1910	94860
A	70m NE	Unspecified Tank	1937	94860
D	186m SW	Tanks	1977	81185
D	192m SW	Sludge Tanks	1910	96530
D	192m SW	Sludge Tanks	1937	96530
K	208m W	Gas Works	1891	99228
K	208m W	Gas Works	1910	99228
D	211m SW	Tanks	1971	95178
D	213m SW	Tanks	1977	95178
D	213m SW	Sluices Tanks	1910	104521
D	213m SW	Sluices Tanks	1937	104521
D	234m SW	Tanks	1977	81186
K	263m W	Gasometer	1891	101874
K	263m W	Gasometer	1910	101874
D	270m SW	Unspecified Tank	1963	98807
D	270m SW	Unspecified Tank	1971	98807
D	273m SW	Tanks	1977	81187
K	277m W	Gasometer	1891	93990
K	277m W	Gasometer	1910	93990
D	325m S	Tanks	1963	103876



ID	Location	Land Use	Date	Group ID
D	325m S	Tanks	1971	103876
D	329m S	Tanks	1977	102182
D	348m SW	Unspecified Tank	1971	85299
D	351m SW	Tanks	1977	81188
D	353m S	Sludge Tanks	1937	91322
N	366m SW	Tanks	1977	81178
D	371m SW	Tanks	1971	103360
O	371m SW	Tanks	1937	81184
D	375m S	Tanks	1977	103360
D	376m S	Unspecified Tank	1971	107176
D	381m S	Unspecified Tank	1977	107176
P	463m SW	Unspecified Tank	1992	97308
P	465m SW	Unspecified Tank	1977	97308
P	469m SW	Unspecified Tank	1971	91620
P	469m SW	Tanks	1992	81180
P	469m SW	Tanks	1992	81181
P	470m SW	Unspecified Tank	1992	85293
P	471m SW	Unspecified Tank	1977	98789
P	472m SW	Unspecified Tank	1910	106648
P	472m SW	Unspecified Tank	1937	106648
P	473m SW	Tanks	1992	98194
P	475m SW	Tanks	1977	98194
P	478m SW	Tanks	1937	81183

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

29

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 23](#) >

ID	Location	Land Use	Date	Group ID
B	50m SW	Electricity Substation	1980	54616
B	51m SW	Electricity Substation	1971	56522
B	58m SW	Electricity Substation	1978	61100
B	58m SW	Electricity Substation	1992	52609
B	59m SW	Electricity Substation	1992	57085
I	155m W	Electricity Substation	1992	60148
I	155m W	Electricity Substation	1992	53703
I	156m W	Electricity Substation	1978	60148
I	156m W	Electricity Substation	1980	60148
I	156m W	Electricity Substation	1971	60148
J	191m W	Gas Governor	1992	63459
J	192m W	Gas Governor	1992	51131
J	192m W	Gas Governor	1978	63347
K	208m W	Gas Works	1891	62320
K	208m W	Gas Works	1910	62320
L	241m SE	Electricity Substation	1977	57822
L	242m SE	Electricity Substation	1992	57822
L	243m SE	Electricity Substation	1971	54511
K	263m W	Gasometer	1891	58682
K	263m W	Gasometer	1910	58682
K	277m W	Gasometer	1891	51251
K	277m W	Gasometer	1910	51251
R	403m N	Electricity Substation	1992	58129



ID	Location	Land Use	Date	Group ID
R	403m N	Electricity Substation	1992	58129
S	405m W	Electricity Substation	1992	53393
S	405m W	Electricity Substation	1978	53393
U	483m S	Electricity Substation	1971	56465
U	484m S	Electricity Substation	1977	58990
U	486m S	Electricity Substation	1992	50794

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

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

This data is sourced from Ordnance Survey / Groundsure.

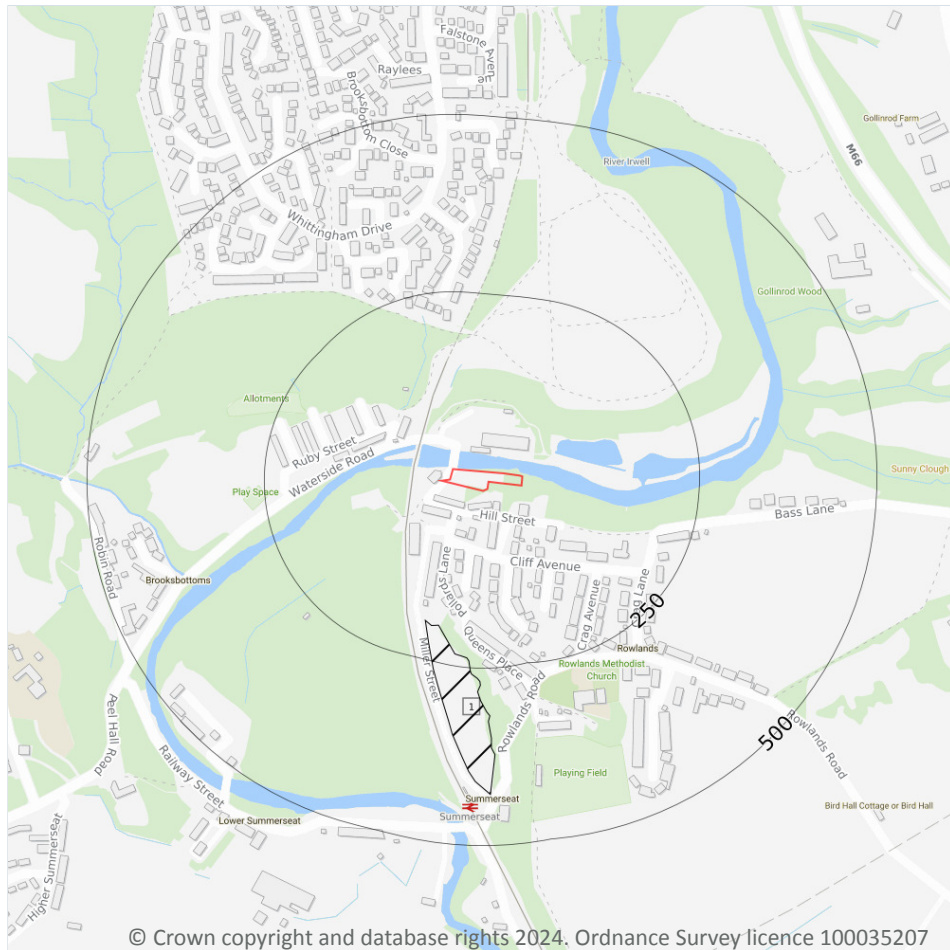
2.5 Historical garages

Records within 500m	0
----------------------------	----------

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'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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

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	0
---------------------	---

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

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

3.4 Historical landfill (EA/NRW records)

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

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 33 >](#)

ID	Location	Details		
1	197m S	Site Address: Miller Street, Summerseat, Near Bury Licence Holder Address: 2 Meadoway, Summerseat, near Bury	Waste Licence: Yes Site Reference: C053, RD/LIC/173/79 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/12/1979 Licence Surrender: 09/11/1987	Operator: - Licence Holder: G T Botham First Recorded 31/12/1979 Last Recorded: 31/12/1984

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

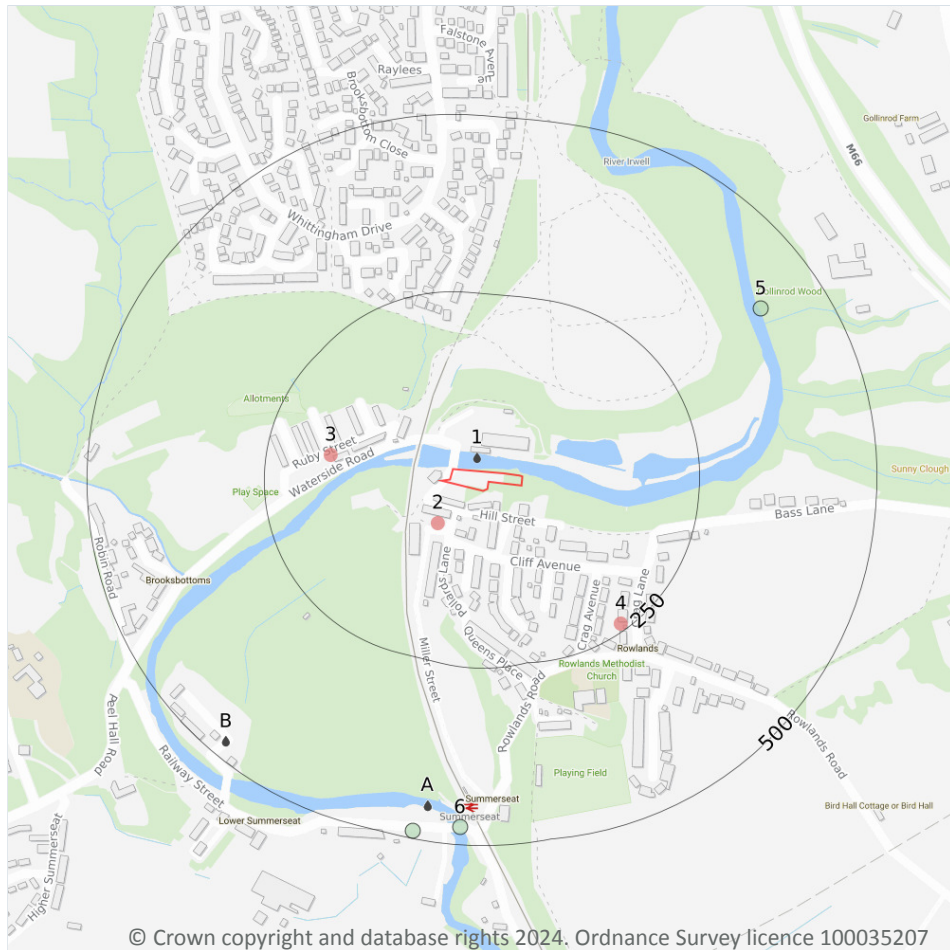
0

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
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 36 >](#)

ID	Location	Company	Address	Activity	Category
2	59m SW	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities
3	161m W	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities
4	240m SE	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities



This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
---------------------	---

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
---------------------	---

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
---------------------	---

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
---------------------	---

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
---------------------	---

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

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

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

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

9

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 36](#) >

ID	Location	Address	Details	
1	19m N	BROOKSBOTTOM MILL SWO, WATERSIDE ROAD/KAY STREET, SUMMERSEAT, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016990632 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1985 Revocation Date: 01/07/1991
A	450m S	RAMSBOTTOM ETW, RAILWAY STREET, SUMMERSEAT, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950040 Permit Version: 2 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 31/01/1985 Revocation Date: 21/06/1989
A	450m S	RAMSBOTTOM ETW, RAILWAY STREET, SUMMERSEAT, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950040 Permit Version: 2 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 31/01/1985 Revocation Date: 21/06/1989
A	450m S	RAMSBOTTOM ETW, RAILWAY STREET, SUMMERSEAT, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950040 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/01/1980 Revocation Date: 30/01/1985
A	450m S	RAMSBOTTOM ETW, RAILWAY STREET, SUMMERSEAT, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950040 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/01/1980 Revocation Date: 30/01/1985



ID	Location	Address	Details	
A	450m S	RAMSBOTTOM ETW, RAILWAY STREET, SUMMERSEAT, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - STW STORM OVERFLOW/STORM TANK - WATER COMPANY Permit Number: 016950040 Permit Version: 1 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 12/01/1980 Revocation Date: 30/01/1985
A	450m S	RAMSBOTTOM ETW, RAILWAY STREET, SUMMERSEAT, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950040 Permit Version: 2 Receiving Water: RIVER IRWELL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 31/01/1985 Revocation Date: 21/06/1989
B	477m SW	ISLAND WORKS, RAILWAY STREET, SUMMERSEAT, BURY, BL9 5QD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD003490 Permit Version: 1 Receiving Water: TO GROUND VIA A SOAKAWAY	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 27/10/2008 Effective Date: 27/10/2008 Revocation Date: 29/11/2012
B	477m SW	ISLAND WORKS, RAILWAY STREET, SUMMERSEAT, BURY, BL9 5QD	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: NPSWQD003490 Permit Version: 2 Receiving Water: TO GROUND VIA A SOAKAWAY	Status: VARIED UNDER EPR 2010 Issue date: 30/11/2012 Effective Date: 30/11/2012 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



4.16 List 1 Dangerous Substances

Records within 500m	0
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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
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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	3
---------------------	---

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 36 >](#)

ID	Location	Details	
5	411m NE	Incident Date: 20/04/2002 Incident Identification: 73348 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	475m S	Incident Date: 10/01/2002 Incident Identification: 51624 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	489m S	Incident Date: 03/04/2003 Incident Identification: 148251 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) 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.

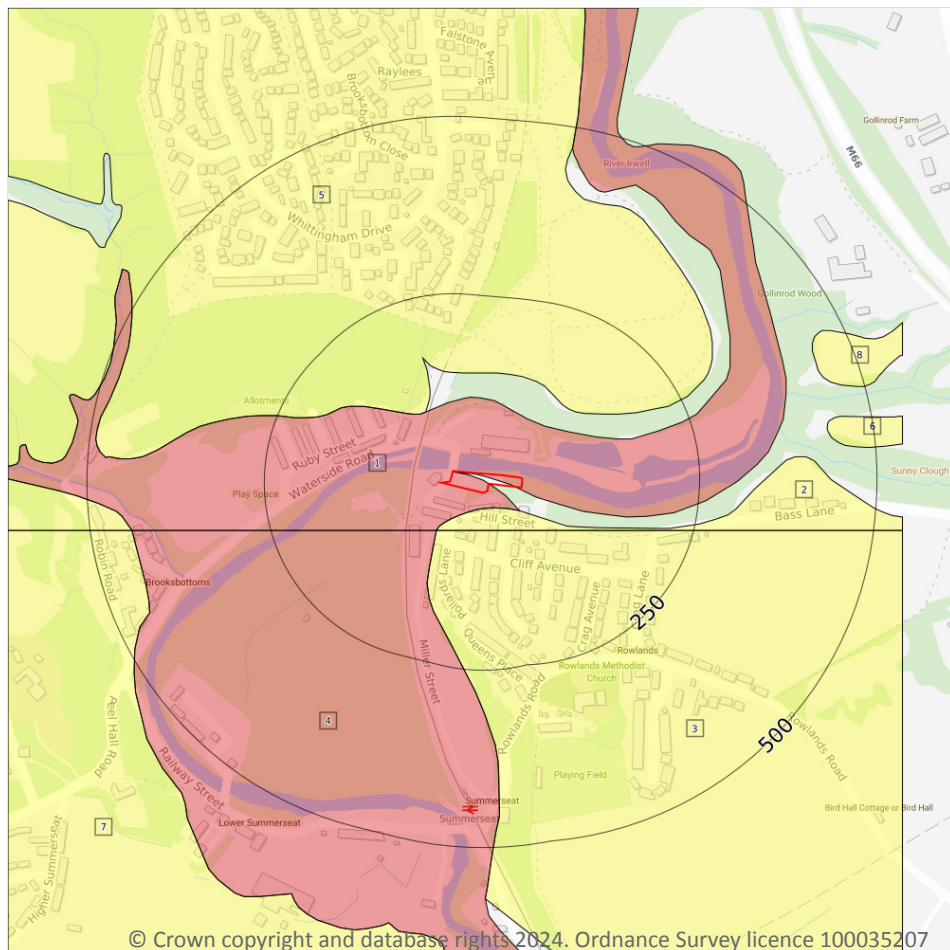
4.21 Pollution inventory radioactive waste

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

8

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 43 >](#)

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	22m S	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

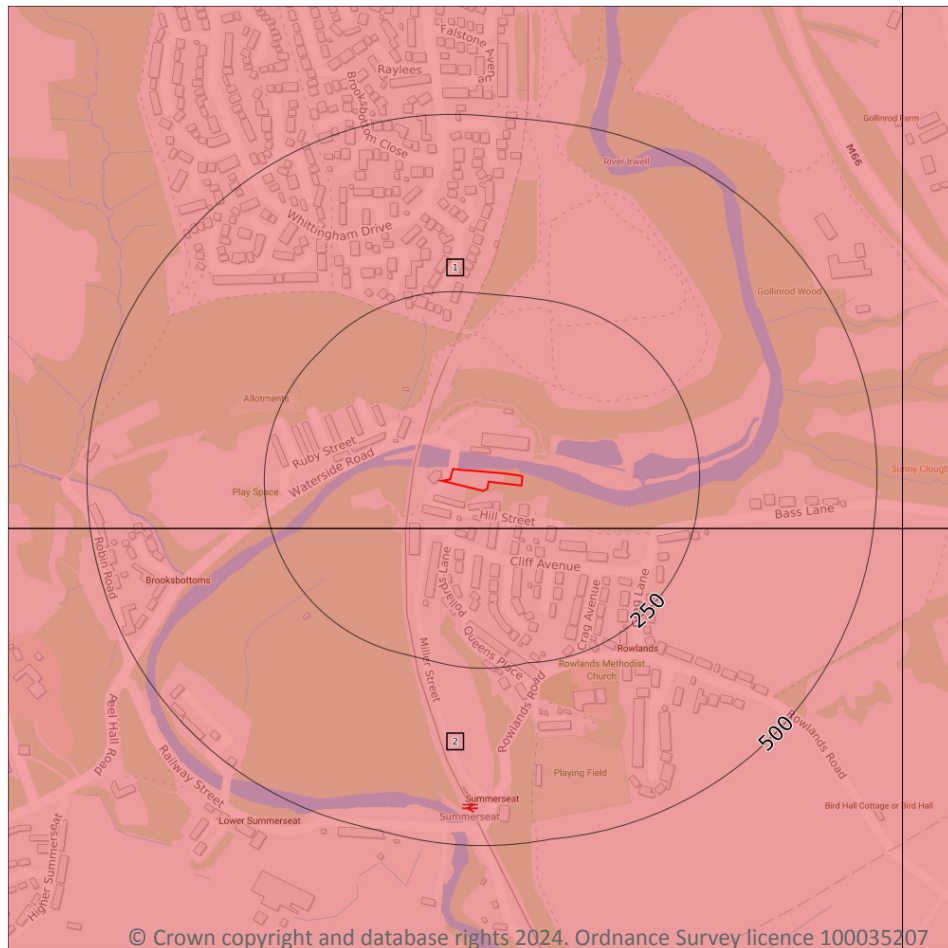


ID	Location	Designation	Description
3	53m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	67m SW	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
5	92m NW	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
6	435m E	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
7	440m W	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
8	444m E	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

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

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 45 >](#)

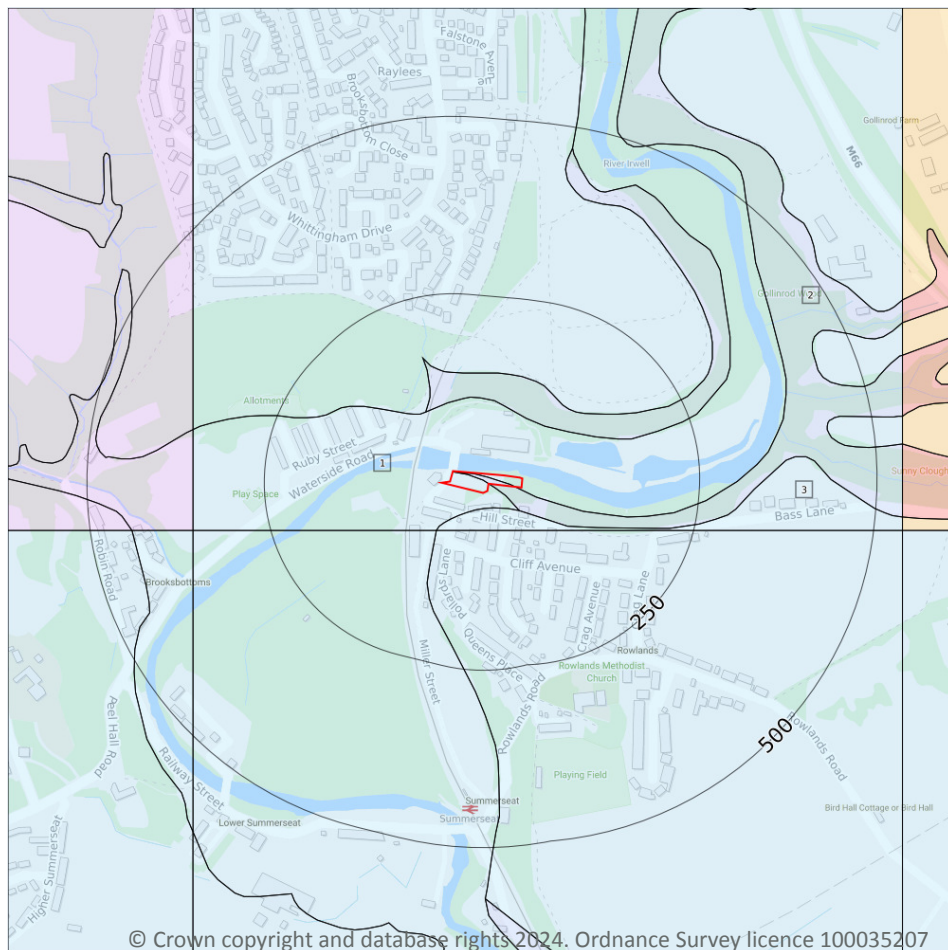
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	53m S	Secondary 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

3

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 47](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low 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 bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	22m S	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low 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

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

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

5.5 Groundwater vulnerability- local information

Records on site

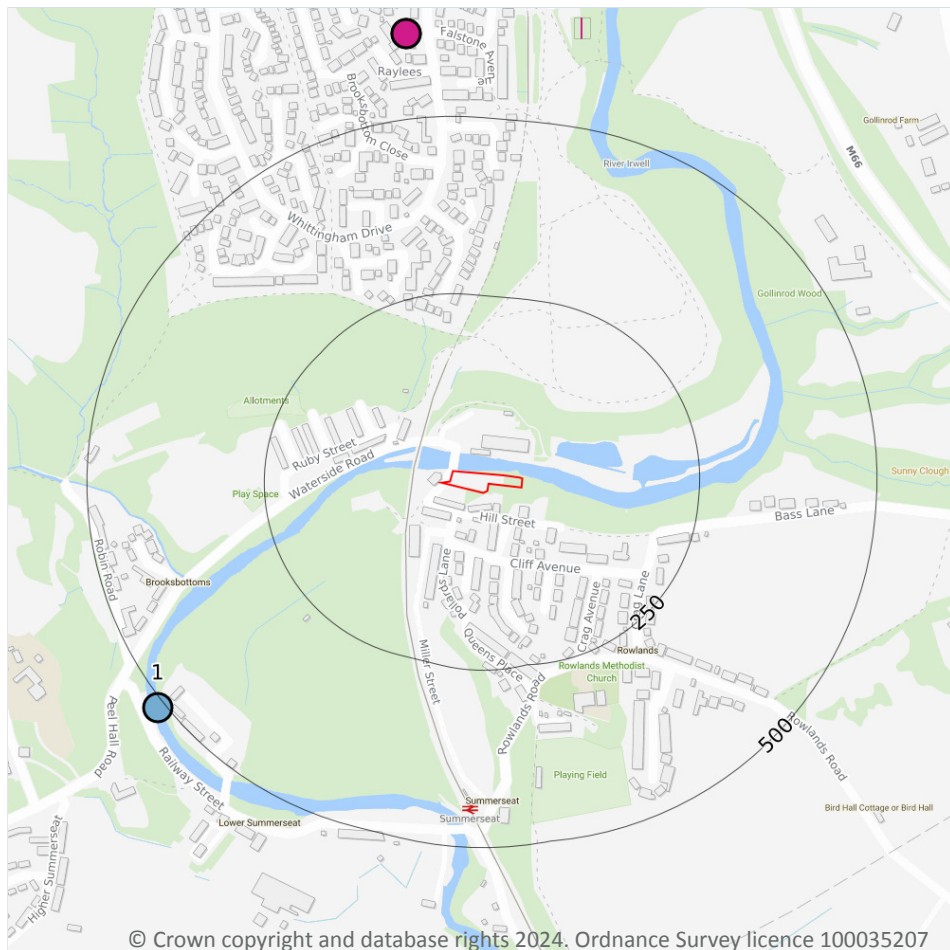
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

17

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 49](#) >

ID	Location	Details	
A	620m N	Status: Historical Licence No: 2569001101 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED CATCHPIT AT NUTTAL HALL FARM, RAMSBOTTOM" Data Type: Point Name: WHITTAKER Easting: 379300 Northing: 415700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
A	620m N	Status: Historical Licence No: 2569001101 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED CATCHPIT AT NUTTAL HALL FARM, RAMSBOTTOM Data Type: Point Name: WHITTAKER Easting: 379300 Northing: 415700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -
2	623m N	Status: Active Licence No: NW/069/0001/019 Details: Dewatering Direct Source: Ground Water - North West Region Point: BOREHOLE AT NUTTALL COMBINED SEWER OUTFALL, RAMSBOTTOM, BURY Data Type: Poly4 Name: United Utilities Water Ltd Easting: 379538 Northing: 415723	Annual Volume (m ³): 504576 Max Daily Volume (m ³): 1383 Original Application No: NPS/WR/039941 Original Start Date: 27/03/2024 Expiry Date: 31/05/2025 Issue No: 1 Version Start Date: 27/03/2024 Version End Date: -
-	781m S	Status: Active Licence No: 2569001208 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT SUMMERSEAT, BURY Data Type: Point Name: KENYON Easting: 379200 Northing: 414300	Annual Volume (m ³): 14974.52 Max Daily Volume (m ³): 40.91 Original Application No: 2554 Original Start Date: 27/07/1979 Expiry Date: - Issue No: 101 Version Start Date: 26/11/2007 Version End Date: -



ID	Location	Details	
-	781m S	Status: Historical Licence No: 2569001208 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SUMMERSEAT, BURY" Data Type: Point Name: JOHN KENYON & SONS Easting: 379200 Northing: 414300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/07/1979 Expiry Date: - Issue No: 100 Version Start Date: 27/07/1979 Version End Date: -
-	1436m E	Status: Historical Licence No: 2569001190 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED COLLECTING CHAMBER AT WALMERSLEY Data Type: Point Name: MOSLEY AND THWAITES Easting: 380800 Northing: 415600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/05/1972 Expiry Date: - Issue No: 100 Version Start Date: 08/05/1972 Version End Date: -
-	1618m N	Status: Historical Licence No: 2569001030 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PEEL BRIDGE MILLS, RAMSBOTTOM" Data Type: Point Name: DANISCO PAPER LTD Easting: 379300 Northing: 416700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 21/08/1999 Version End Date: -
-	1618m N	Status: Historical Licence No: 2569001030 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PEEL BRIDGE MILLS, RAMSBOTTOM Data Type: Point Name: MONDI HOLCOMBE LIMITED Easting: 379300 Northing: 416700	Annual Volume (m ³): 359149 Max Daily Volume (m ³): 1637 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: 31/03/2015 Issue No: 105 Version Start Date: 11/08/2008 Version End Date: -



ID	Location	Details	
-	1715m NW	Status: Active Licence No: 2569001228 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT HOLCOMBE, NEAR BURY, LANCS Data Type: Point Name: DARUL ULOOM Easting: 377800 Northing: 415800	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 90.92 Original Application No: 2785 Original Start Date: 20/06/1990 Expiry Date: - Issue No: 100 Version Start Date: 20/06/1990 Version End Date: -
-	1715m NW	Status: Historical Licence No: 2569001228 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT HOLCOMBE, NEAR BURY, LANCS" Data Type: Point Name: DARUL ULOOM Easting: 377800 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/06/1990 Expiry Date: - Issue No: 100 Version Start Date: 20/06/1990 Version End Date: -
-	1715m NW	Status: Historical Licence No: 2569001228 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT HOLCOMBE, NEAR BURY, LANCS Data Type: Point Name: DARUL ULOOM Easting: 377800 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/06/1990 Expiry Date: - Issue No: 100 Version Start Date: 20/06/1990 Version End Date: -
-	1744m E	Status: Active Licence No: 2569001188 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT WALMERSLEY, NEAR BURY Data Type: Point Name: HOWARTH Easting: 381200 Northing: 414900	Annual Volume (m ³): 12456 Max Daily Volume (m ³): 34 Original Application No: 2339 Original Start Date: 17/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
-	1744m E	Status: Historical Licence No: 2569001188 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WALMERSLEY, NEAR BURY" Data Type: Point Name: HOWARTH Easting: 381200 Northing: 414900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 09/07/1973 Version End Date: -



ID	Location	Details	
-	1898m W	Status: Historical Licence No: 2569001204 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HOLCOMBE, BURY Data Type: Point Name: DAVENPORT Easting: 377600 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/07/1979 Expiry Date: - Issue No: 100 Version Start Date: 30/07/1979 Version End Date: -
-	1898m W	Status: Historical Licence No: 2569001204 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT HOLCOMBE, BURY" Data Type: Point Name: DAVENPORT Easting: 377600 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 30/07/1979 Expiry Date: - Issue No: 100 Version Start Date: 30/07/1979 Version End Date: -
-	1910m E	Status: Historical Licence No: 2569001187 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "SPRING FED COLLECTING CHAMBER AT NANGREAVES, BURY" Data Type: Point Name: SELLERS Easting: 381300 Northing: 415600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 17/06/1971 Version End Date: -
-	1910m E	Status: Historical Licence No: 2569001187 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: SPRING FED COLLECTING CHAMBER AT NANGREAVES, BURY Data Type: Point Name: SELLERS Easting: 381300 Northing: 415600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 17/06/1971 Expiry Date: - Issue No: 100 Version Start Date: 17/06/1971 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m

9

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 49 >](#)

ID	Location	Details	
1	511m SW	Status: Historical Licence No: 2569001038 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL IN RAMSBOTTOM Data Type: Point Name: GREENLEAF ENTERPRISES LTD Easting: 378950 Northing: 414750	Annual Volume (m ³): 23639.7 Max Daily Volume (m ³): 90.92 Original Application No: - Original Start Date: 25/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/03/2003 Version End Date: -
-	1718m N	Status: Historical Licence No: 2569001029 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: R.IRWELL AT RAMSBOTTOM Data Type: Point Name: MONDI PAPER LIMITED Easting: 379300 Northing: 416800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 11/09/2001 Version End Date: -
-	1718m N	Status: Historical Licence No: 2569001224 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: R.IRWELL AT RAMSBOTTOM Data Type: Point Name: MONDI HOLCOMBE LIMITED Easting: 379300 Northing: 416800	Annual Volume (m ³): 90920 Max Daily Volume (m ³): 1091.04 Original Application No: - Original Start Date: 12/04/1988 Expiry Date: - Issue No: 103 Version Start Date: 11/08/2008 Version End Date: -
-	1718m N	Status: Historical Licence No: 2569001029 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: GOIT FED BY SURFACE DRAINAGE AND RIVER IRWELL AT RAMSBOTTOM Data Type: Point Name: MONDI HOLCOMBE LIMITED Easting: 379300 Northing: 416800	Annual Volume (m ³): 322766 Max Daily Volume (m ³): 1637 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: 31/03/2015 Issue No: 105 Version Start Date: 11/08/2008 Version End Date: -



ID	Location	Details	
-	1766m N	Status: Historical Licence No: 2569001246 Details: Supply to a Leat for Throughflow Direct Source: "Surface, Non-Tidal - North West Region" Point: "RIVER IRWELL AT BRIDGE STREET, RAMSBOTTOM" Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 379350 Northing: 416850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/1994 Expiry Date: - Issue No: 100 Version Start Date: 11/08/2000 Version End Date: -
-	1766m N	Status: Historical Licence No: 2569001246 Details: Supply to a Leat for Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BRIDGE STREET, RAMSBOTTOM Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 379350 Northing: 416850	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/01/1994 Expiry Date: - Issue No: 100 Version Start Date: 11/08/2000 Version End Date: -
-	1766m N	Status: Historical Licence No: 2569001246 Details: Supply To A Leat For Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: RIVER IRWELL AT BRIDGE STREET RAMSBOTTOM Data Type: Point Name: BURY METROPOLITAN BOROUGH COUNCIL Easting: 379350 Northing: 416850	Annual Volume (m ³): 63115200 Max Daily Volume (m ³): 172920 Original Application No: 7253 Original Start Date: 19/01/1994 Expiry Date: - Issue No: 100 Version Start Date: 11/08/2000 Version End Date: -
-	1886m SE	Status: Historical Licence No: 2569001247 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED TRIBUTARY OF PIGS LEE BROOK FEEDING A RESERVOIR AT B Data Type: Point Name: TETROSYL LTD Easting: 380950 Northing: 413900	Annual Volume (m ³): 453000 Max Daily Volume (m ³): 1512 Original Application No: - Original Start Date: 09/05/1995 Expiry Date: - Issue No: 100 Version Start Date: 09/05/1995 Version End Date: -



ID	Location	Details	
-	1886m SE	Status: Historical Licence No: 2569001247 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED TRIBUTARY OF PIGS LEE BROOK FEEDING A RESERVOIR AT B Data Type: Point Name: TETROSYL LTD Easting: 380950 Northing: 413900	Annual Volume (m ³): 453000 Max Daily Volume (m ³): 1512 Original Application No: - Original Start Date: 09/05/1995 Expiry Date: - Issue No: 100 Version Start Date: 09/05/1995 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

3

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 49 >](#)

ID	Location	Details	
-	1715m NW	Status: Active Licence No: 2569001228 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT HOLCOMBE, NEAR BURY, LANCs Data Type: Point Name: DARUL ULOOM Easting: 377800 Northing: 415800	Annual Volume (m ³): 22730 Max Daily Volume (m ³): 90.92 Original Application No: 2785 Original Start Date: 20/06/1990 Expiry Date: - Issue No: 100 Version Start Date: 20/06/1990 Version End Date: -
-	1715m NW	Status: Historical Licence No: 2569001228 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT HOLCOMBE,NEAR BURY,LANCS" Data Type: Point Name: DARUL ULOOM Easting: 377800 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/06/1990 Expiry Date: - Issue No: 100 Version Start Date: 20/06/1990 Version End Date: -



ID	Location	Details	
-	1715m NW	Status: Historical Licence No: 2569001228 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT HOLCOMBE, NEAR BURY, LANCs Data Type: Point Name: DARUL ULoom Easting: 377800 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/06/1990 Expiry Date: - Issue No: 100 Version Start Date: 20/06/1990 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.

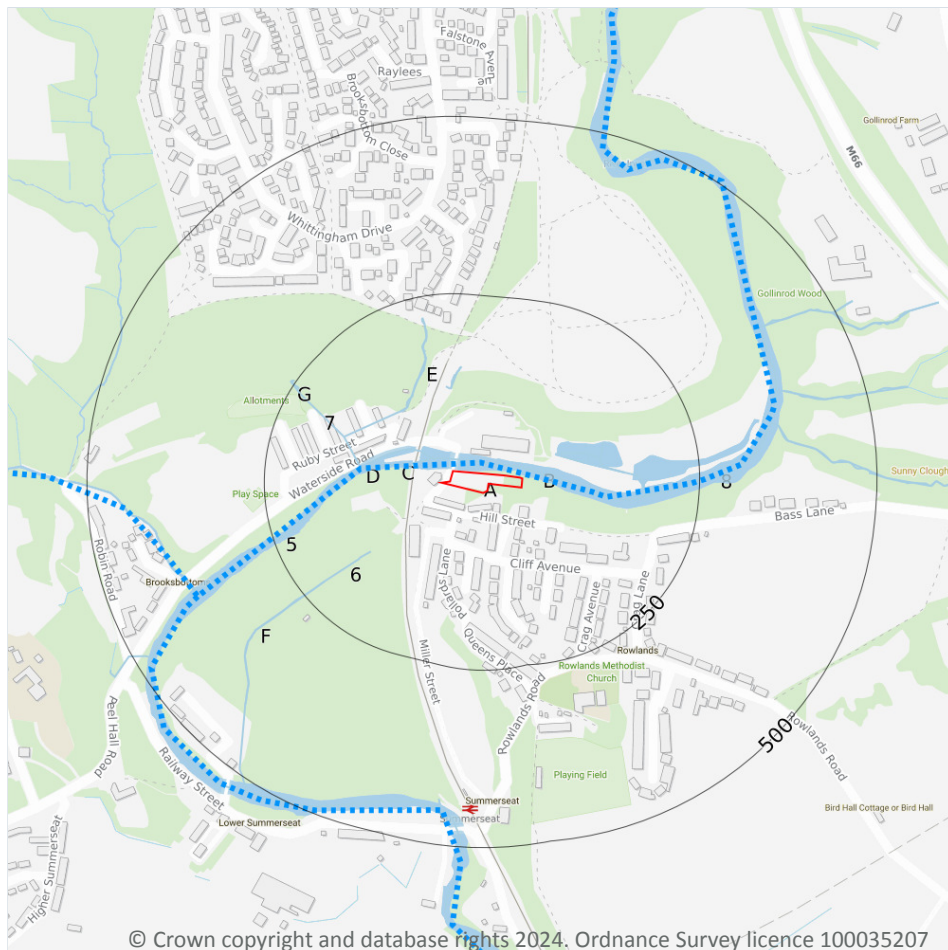
5.10 Source Protection Zones (confined aquifer)

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

28

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 58 >](#)

ID	Location	Type of water feature	Ground level	Permanence	Name
B	14m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell



ID	Location	Type of water feature	Ground level	Permanence	Name
C	34m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
C	34m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
B	59m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	60m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	60m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	62m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	95m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	101m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	109m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
E	110m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	112m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	113m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	113m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
B	114m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
5	114m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
D	114m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	116m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	116m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	119m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
6	139m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	146m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	152m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
B	156m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	170m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
8	176m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Irwell
F	215m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-



ID	Location	Type of water feature	Ground level	Permanence	Name
G	236m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	10
----------------------------	-----------

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 58 >](#)

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 58 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Irwell (Rossendale STW to Roch)	GB112069064620	Croal Irwell	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 58 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	7m E	River	Irwell (Rossendale STW to Roch)	GB112069064620 ↗	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.

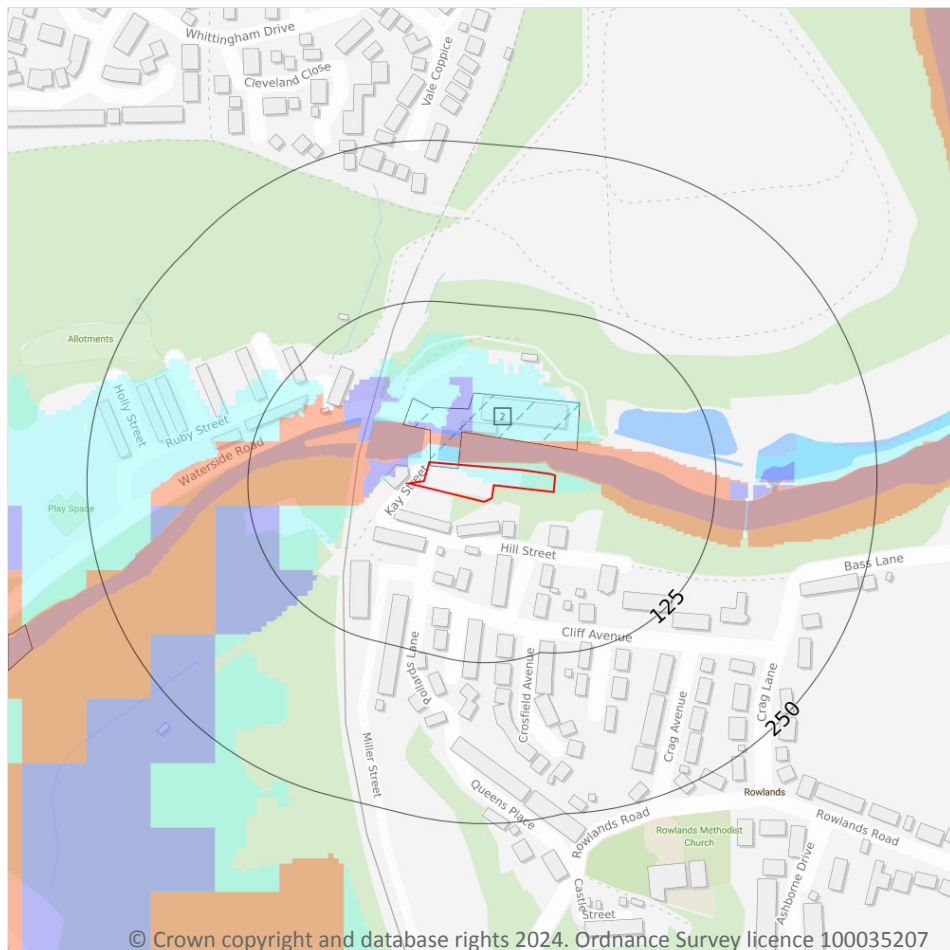
Features are displayed on the Hydrology map on [page 58 >](#)

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

13

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 63](#) >



Distance	Flood risk category
On site	Low
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	1
----------------------------	----------

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.

Features are displayed on the River and coastal flooding map on [page 63](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
2	On site	Ea013_Watersidepub, Bury	2015-12-26 2015-12-26	Main river	Channel capacity exceeded (no raised defences)	Fluvial

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

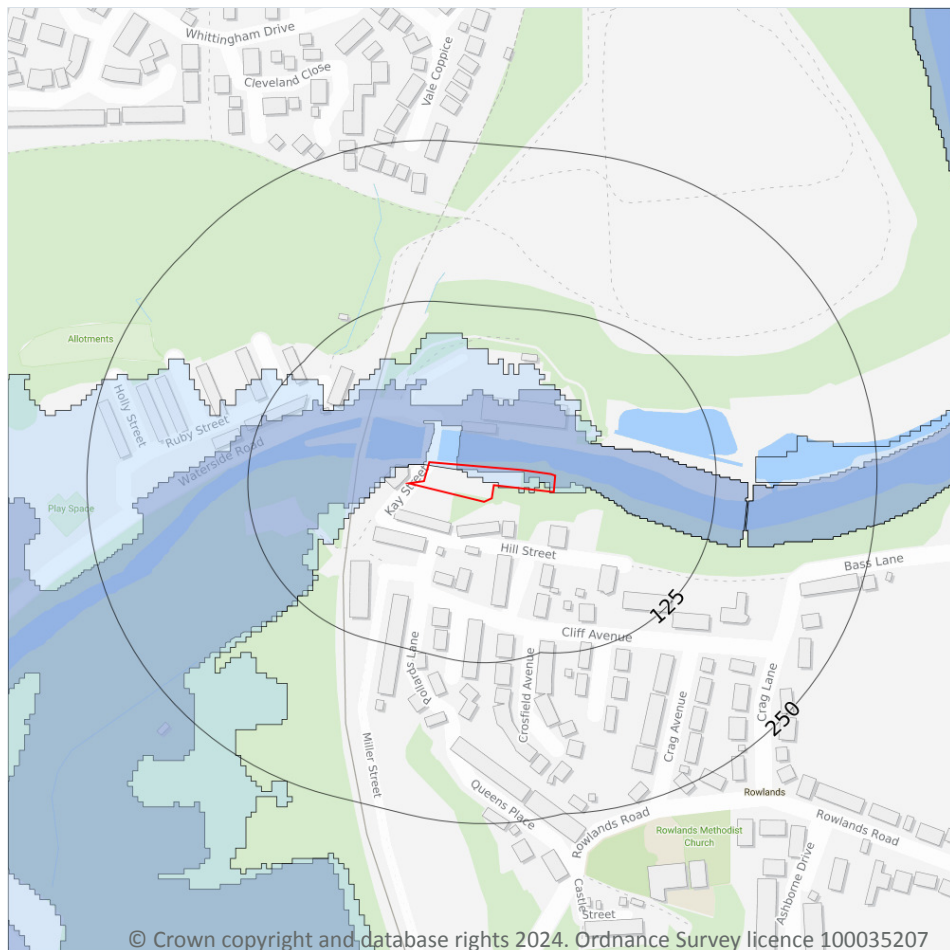
0

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 63](#) >

Location	Type
On site	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.

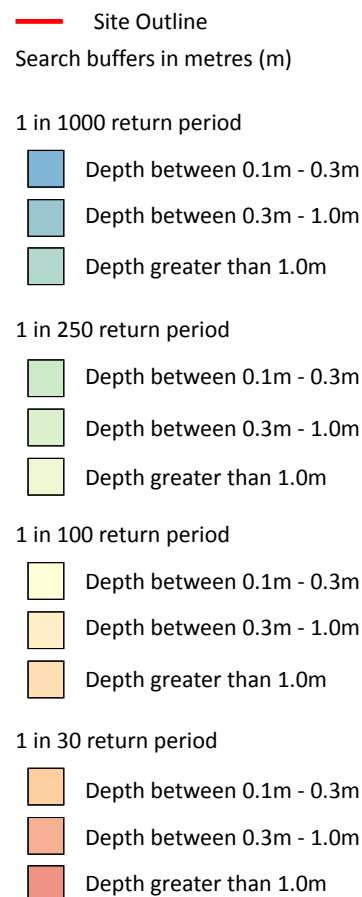
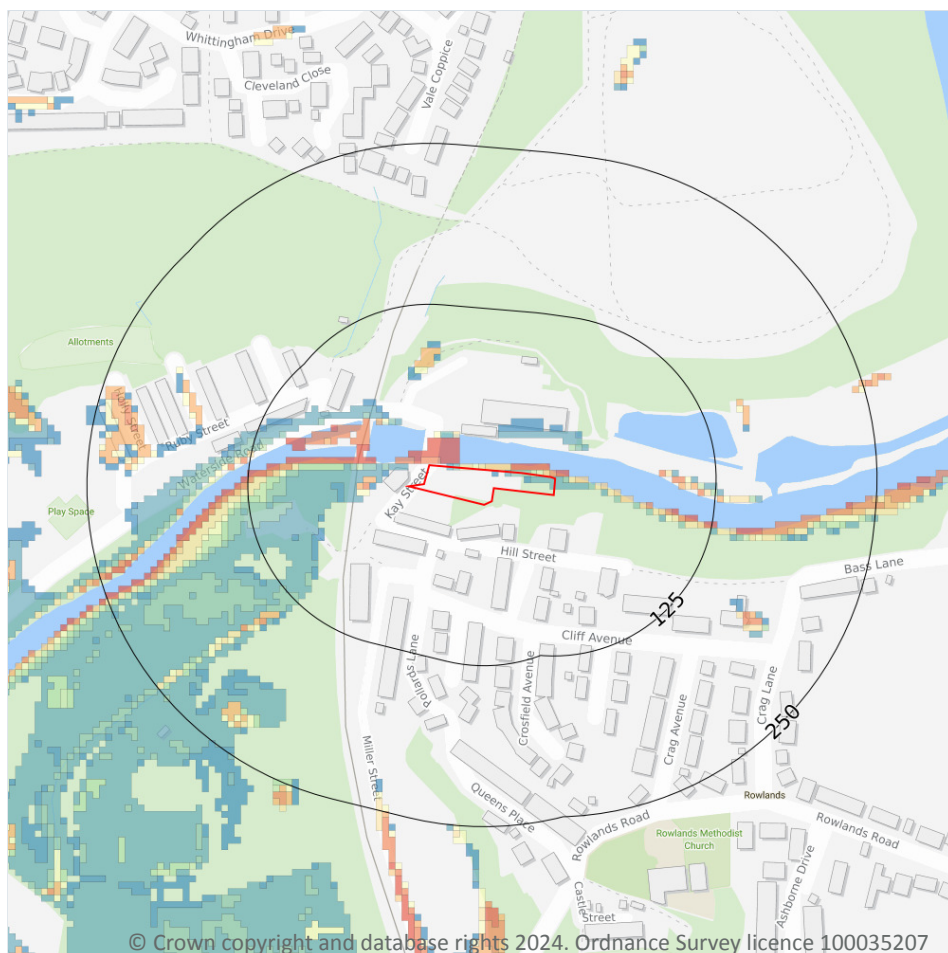
Features are displayed on the River and coastal flooding map on [page 63](#) >

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 100 year, Greater than 1.0m

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 68](#) >

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
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

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9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Moderate

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 70](#) >

This data is sourced from Ambiantal Risk Analytics.



10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

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

Features are displayed on the Environmental designations map on [page 71](#) >

ID	Location	Name	Data source
-	1813m NW	West Pennine Moors	Natural England



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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

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

2

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 71 >](#)

ID	Location	Name	Data source
-	1632m W	Redisher Wood	Natural England
-	1710m SW	Kirklees Valley	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

5

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

Features are displayed on the Environmental designations map on [page 71 >](#)

ID	Location	Name	Woodland Type
2	72m NE	Gollinrod Wood	Ancient & Semi-Natural Woodland
3	369m E	Gollinrod Wood	Ancient & Semi-Natural Woodland
4	443m NW	Broad Hey Wood	Ancient & Semi-Natural Woodland
5	684m NE	Nuttall Wood	Ancient & Semi-Natural Woodland
-	1650m W	Dawes Bank Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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



local community.

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 71 >](#)

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester Green Belt	Bury
6	1454m NE	Merseyside and Greater Manchester Green Belt	Rossendale

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.

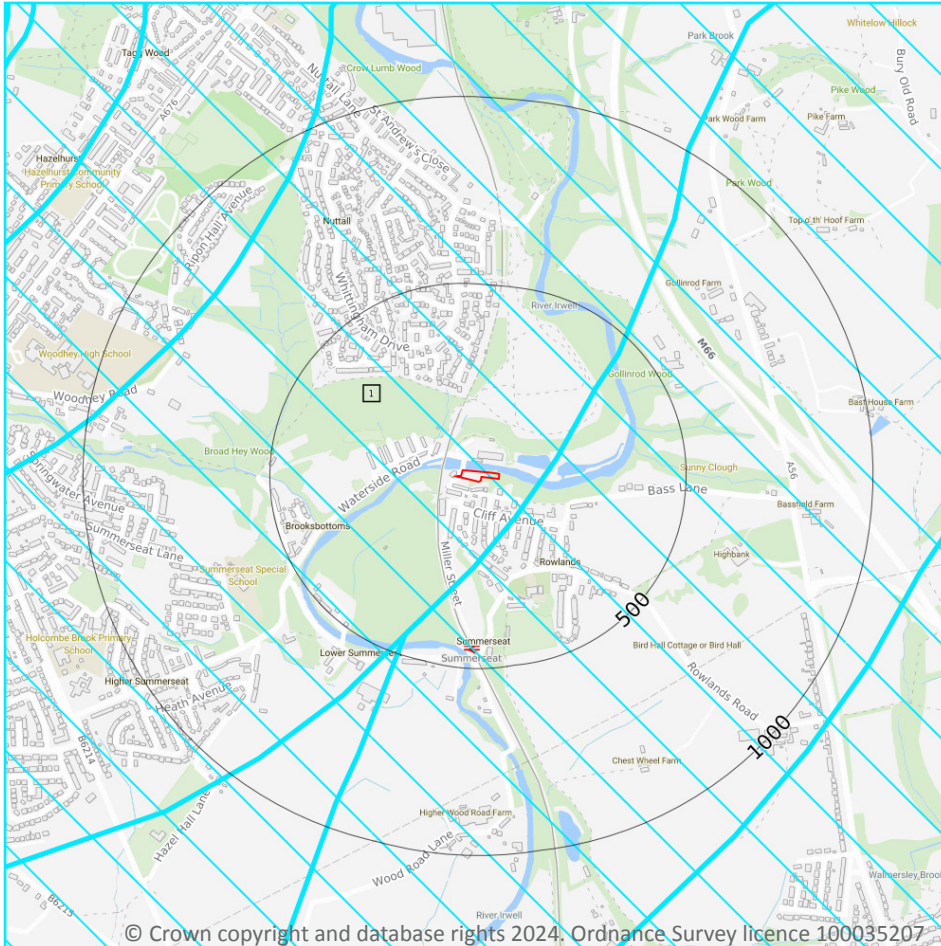
10.16 Nitrate Vulnerable Zones

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 76 >](#)



ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	1
-----------------------------	----------

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

Features are displayed on the SSSI Impact Zones and Units map on [page 76 >](#)

ID: -
 Location: 1813m NW
 SSSI name: West Pennine Moors
 Unit name: Unit 1
 Broad habitat: Bogs - Upland
 Condition: Unfavourable - No change
 Reportable features:

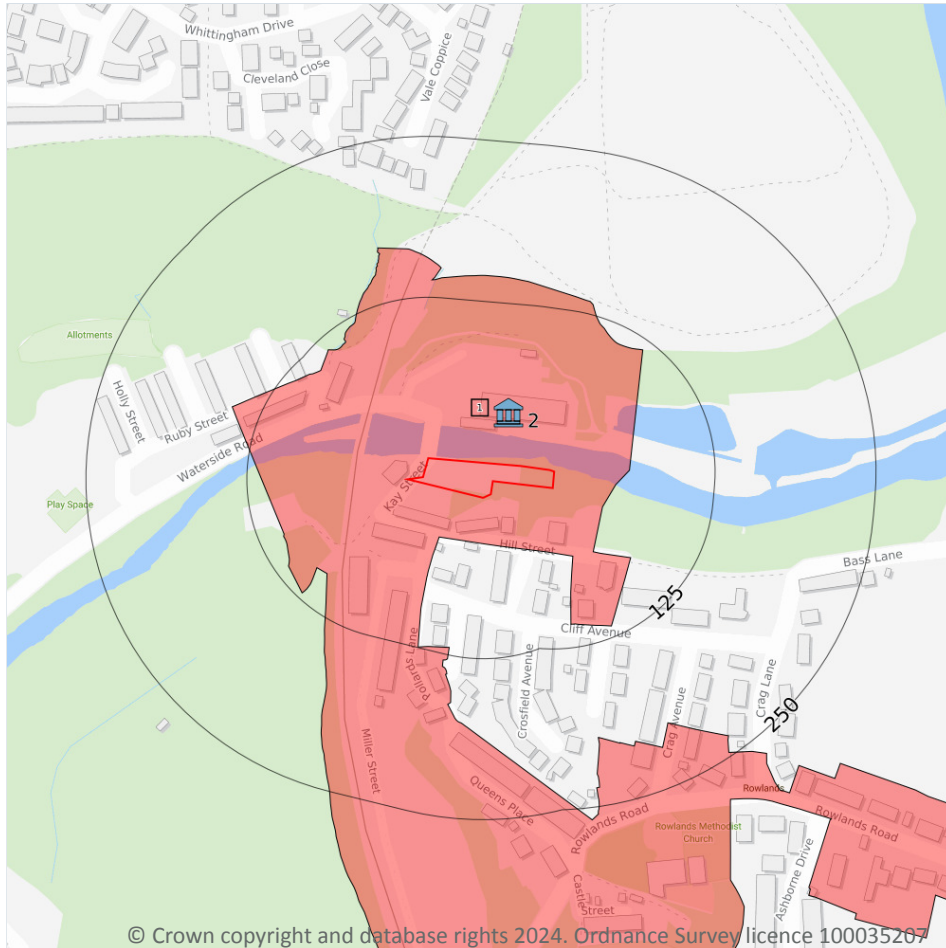
Feature name	Feature condition	Date of assessment
Assemblages of breeding birds - Upland moorland without waterbodies and upland in-bye and allotment farmland	Favourable	31/08/2012
Blanket bog and valley bog (upland)	Unfavourable - No change	17/12/2013
Subalpine dwarf-shrub heath	Favourable	17/12/2013
Wet heath (upland)	Favourable	17/12/2013



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



11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 79 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
2	41m NE	Brooksbottom Mill	II	1356822	30/07/1979

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



11.5 Conservation Areas

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on [page 79](#) >

ID	Location	Name	District	Date of designation
1	On site	Brooksbottoms and Rowlands	Bury	1975

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

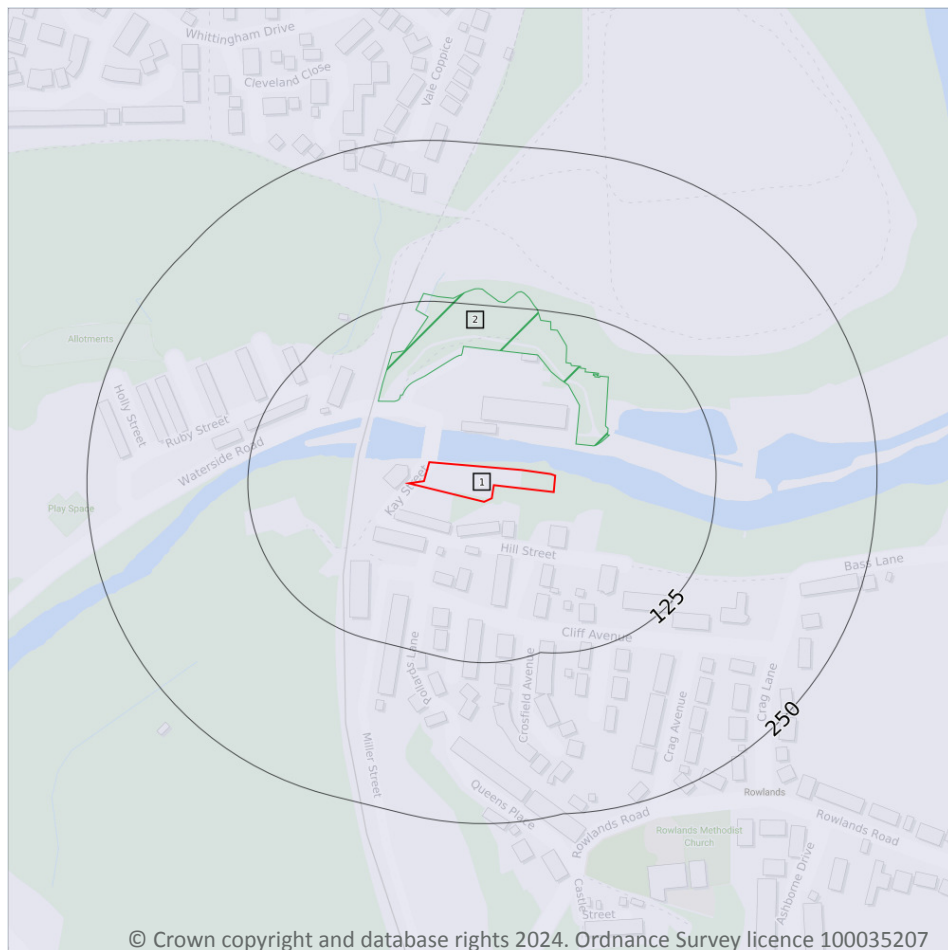
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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 82](#) >

ID	Location	Classification	Description
1	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.



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

1

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.

Features are displayed on the Agricultural designations map on [page 82](#) >

ID	Location	Description	Reference	Application date
2	29m E	Selective Fell/Thin (Unconditional)	010/146/08-09	02/02/2009

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

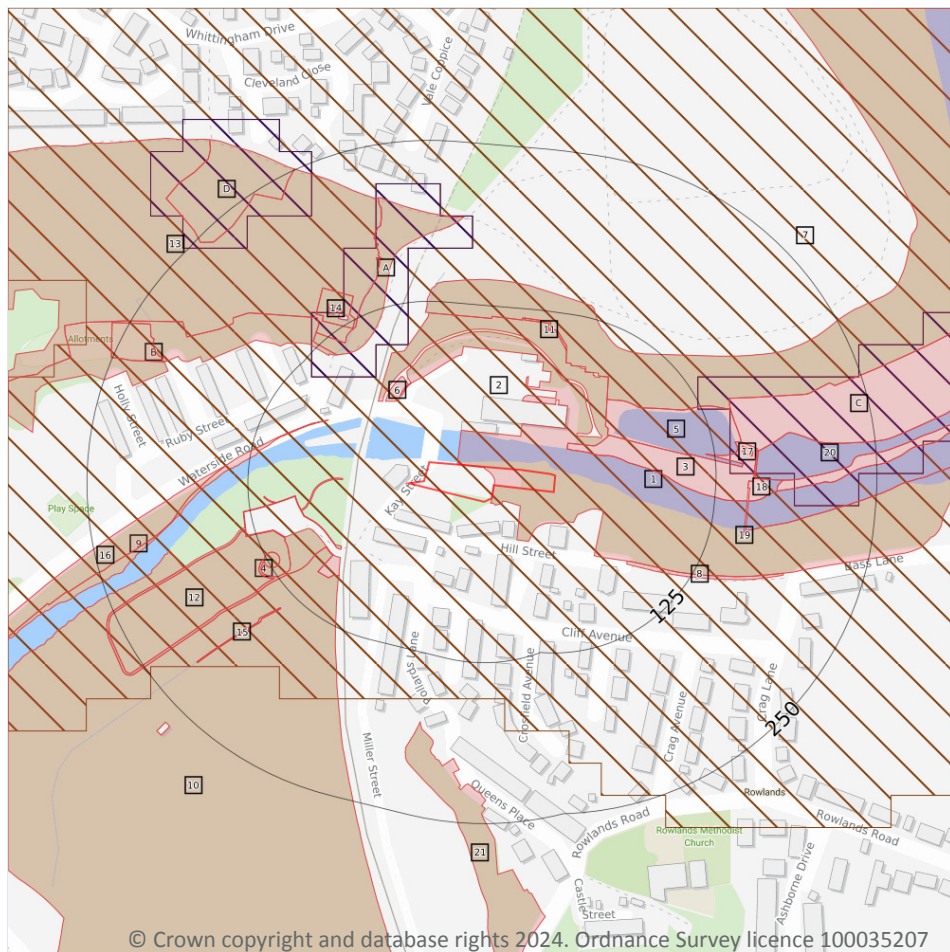
0

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

25

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 84 >](#)

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	23m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	52m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	52m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
6	54m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	72m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	78m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	80m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	81m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	97m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	104m NW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)
12	105m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	110m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	113m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%)
14	120m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%)
15	139m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	143m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	145m E	Lowland dry acid grassland	Main habitat: DWOOD (INV > 50%); LDAGR (INV > 50%)
17	147m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	150m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	151m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
20	155m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
21	178m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	214m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
D	234m NW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

4

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 84 >](#)



ID	Location	Type	Habitat
2	On site	Network Enhancement Zone 2	Not specified
A	78m NW	Primary Habitat	Lowland dry acid grassland
C	122m E	Primary Habitat	Lowland dry acid grassland
D	212m NW	Primary Habitat	Lowland dry acid grassland

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

2

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.

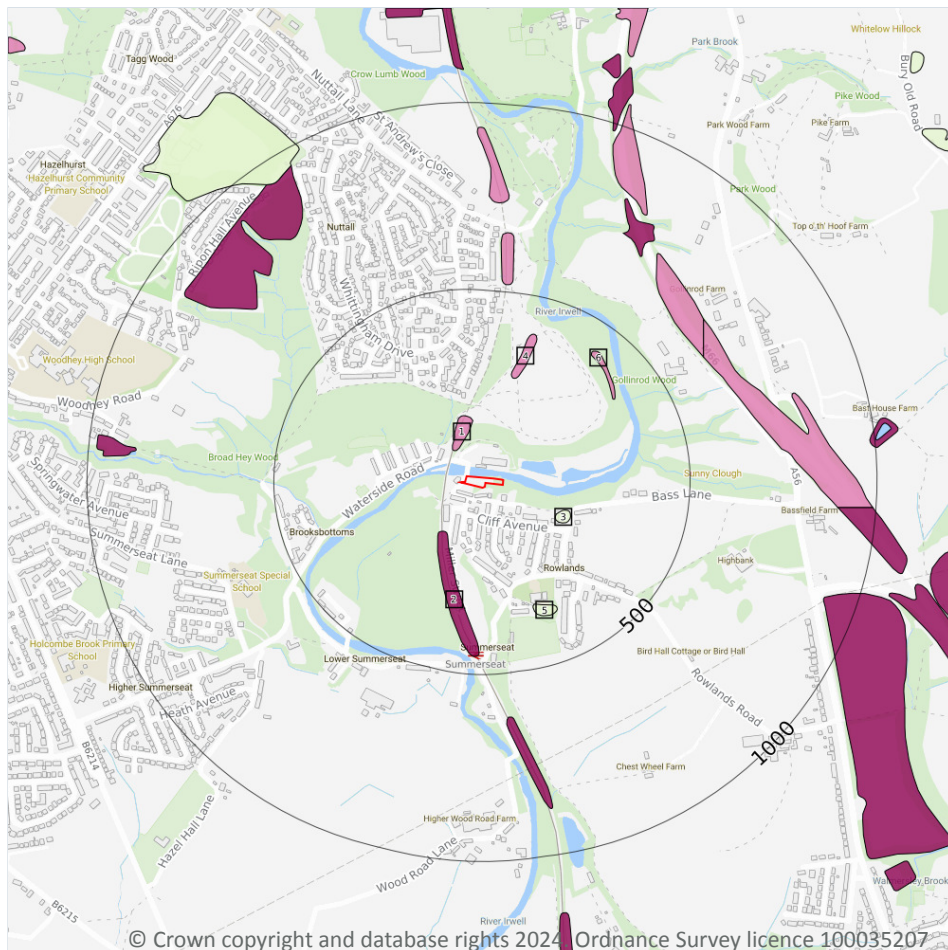
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 87](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD71NE
2	53m S	Full	Full	Full	Full	SD71SE

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

6

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 88](#) >

ID	Location	LEX Code	Description	Rock description
1	74m NW	WGR-VOID	Worked Ground (Undivided)	Void
2	138m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	163m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	273m N	WGR-VOID	Worked Ground (Undivided)	Void

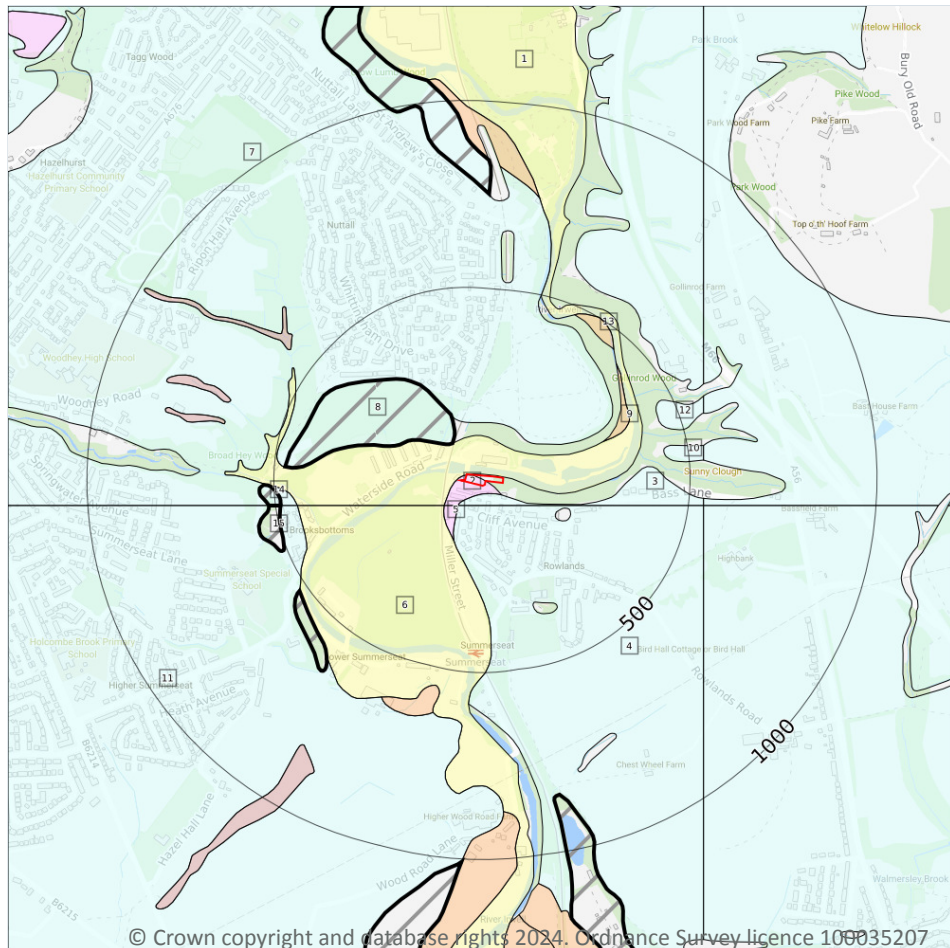


ID	Location	LEX Code	Description	Rock description
5	330m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	365m NE	WGR-VOID	Worked Ground (Undivided)	Void

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

12

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 90](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	22m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
4	53m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
5	67m SW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	81m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	91m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
9	285m E	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
10	435m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
11	440m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
12	444m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
13	453m NE	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

3

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.

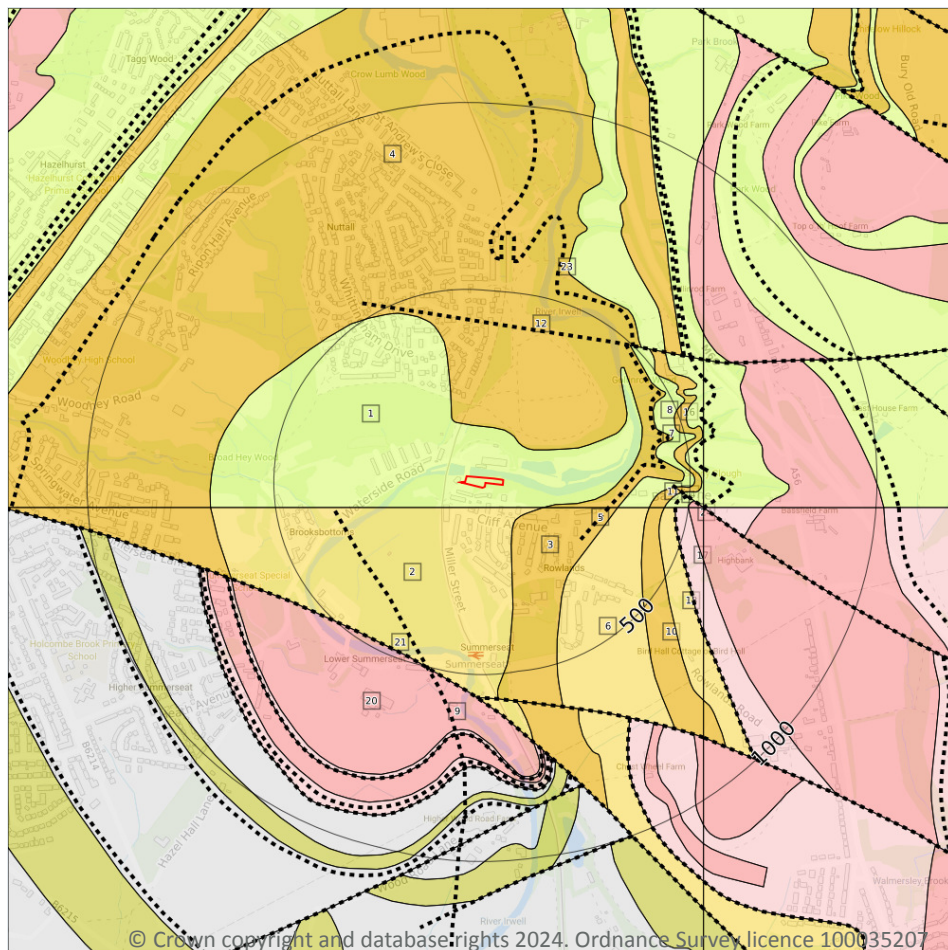
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 90 >](#)

ID	Location	LEX Code	Description	Rock description
8	91m NW	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
14	485m W	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
15	487m W	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

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

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

14.5 Bedrock geology (10k)

Records within 500m

16

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 92 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
2	53m S	MARSD-MDSI	Marsden Formation - Mudstone And Siltstone	Marsdenian Sub-age
3	96m SE	BBS-SDST	Brooksbottoms Grit - Sandstone	Marsdenian Sub-age



ID	Location	LEX Code	Description	Rock age
4	105m NE	BBS-SDST	Brooksbottoms Grit - Sandstone	Marsdenian Sub-age
6	282m SE	MARSD-MDSI	Marsden Formation - Mudstone And Siltstone	Marsdenian Sub-age
8	313m E	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
10	393m E	HLBG-SDST	Holcombe Brook Grit - Sandstone	Marsdenian Sub-age
11	396m E	HLBG-SDST	Holcombe Brook Grit - Sandstone	Marsdenian Sub-age
13	431m E	MARSD-MDSI	Marsden Formation - Mudstone And Siltstone	Marsdenian Sub-age
14	437m E	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
16	460m E	HLBG-SDST	Holcombe Brook Grit - Sandstone	Marsdenian Sub-age
17	465m E	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
20	480m SW	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
22	481m E	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
24	500m E	LH-SDST	Lower Haslingden Flags - Sandstone	Yeadonian Sub-age
25	500m E	LH-SDST	Lower Haslingden Flags - Sandstone	Yeadonian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

9

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 92](#) >

ID	Location	Category	Description
5	255m SE	ROCK	Coal seam, inferred
7	290m E	ROCK	Coal seam, inferred
9	330m SW	LANDFORM	Buried channel or valley margin
12	409m N	FAULT	Normal fault, inferred



ID	Location	Category	Description
15	453m E	FAULT	Normal fault, inferred
18	465m E	FOSSIL_HORIZON	Fossil horizon, marine band
19	465m E	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
21	480m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
23	500m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



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☐ Geological map tile

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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

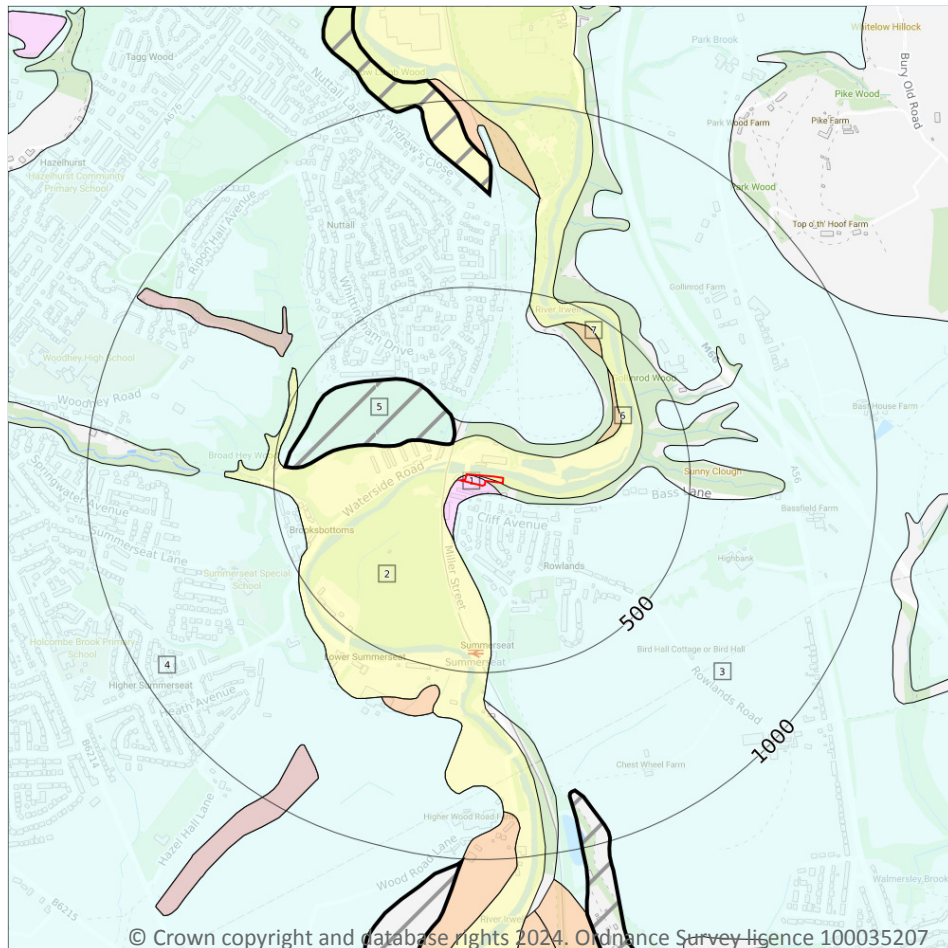
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

6

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 97](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	22m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
4	92m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON



ID	Location	LEX Code	Description	Rock description
6	262m E	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
7	416m NE	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

3

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Intergranular	High	Very Low
On site	Intergranular	Very High	High
22m S	Mixed	High	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 97 >](#)

ID	Location	LEX Code	Description	Rock description
5	92m NW	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

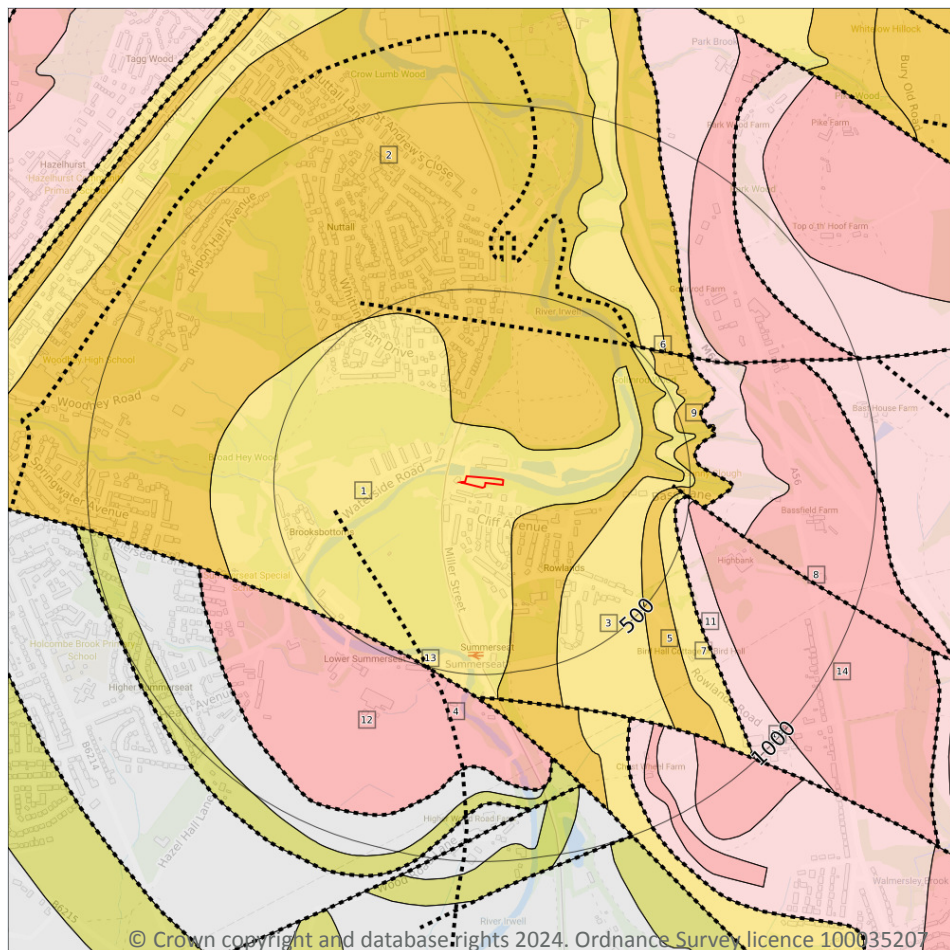
0

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

9

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 99](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
2	96m SE	BBS-SDST	BROOKSBOTTOMS GRIT - SANDSTONE	NAMURIAN
3	282m SE	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN



ID	Location	LEX Code	Description	Rock age
5	393m E	HLBG-SDST	HOLCOMBE BROOK GRIT - SANDSTONE	NAMURIAN
7	431m E	MARSD-MDSI	MARSDEN FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
9	460m E	HLBG-SDST	HOLCOMBE BROOK GRIT - SANDSTONE	NAMURIAN
10	465m E	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
12	480m SW	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
14	500m E	LH-SDST	LOWER HASLINGDEN FLAGS - SANDSTONE	NAMURIAN

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	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

5

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 99](#) >

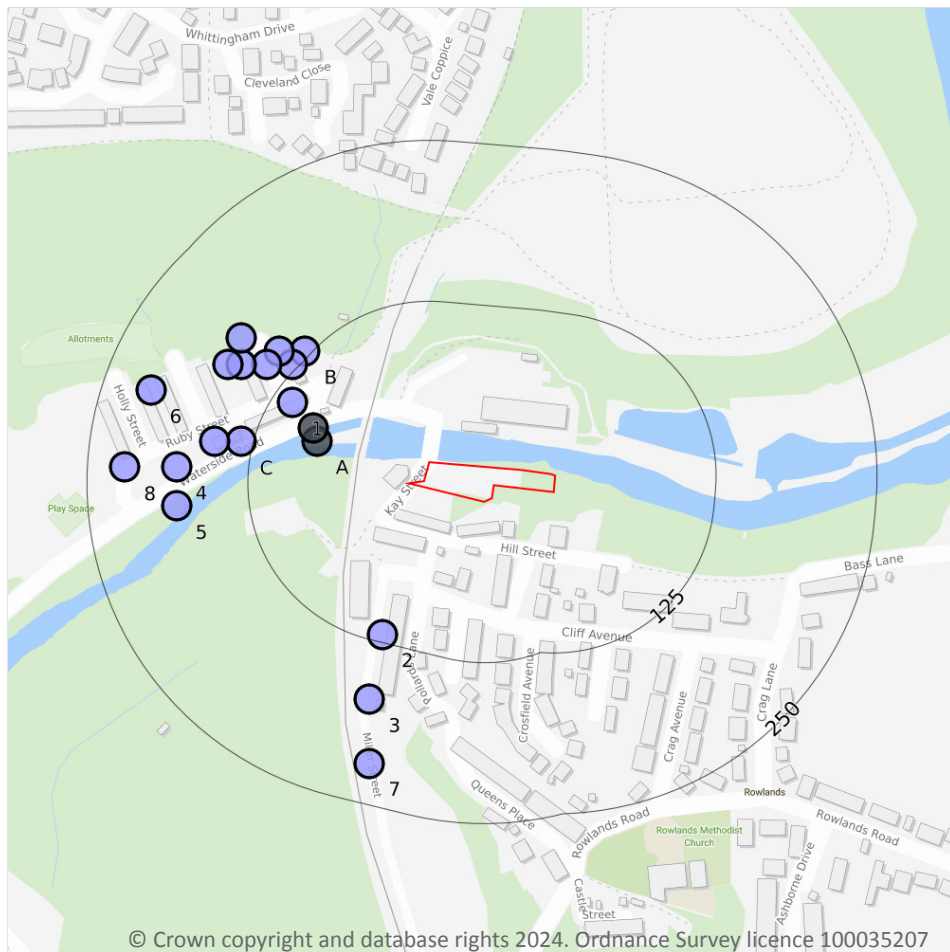
ID	Location	Category	Description
4	330m SW	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
6	409m N	FAULT	Fault, inferred
8	453m E	FAULT	Fault, inferred
11	465m E	FOSSIL_HORIZON	Marine band
13	480m SW	FAULT	Fault, inferred



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

19

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 102](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	79m W	379279 415100	WATERSIDE ROAD RETAINING WALL SUMMERSEAT TP 3	-	Y	N/A
A	86m W	379276 415110	WATERSIDE ROAD RETAINING WALL SUMMERSEAT TP 4	-	Y	N/A

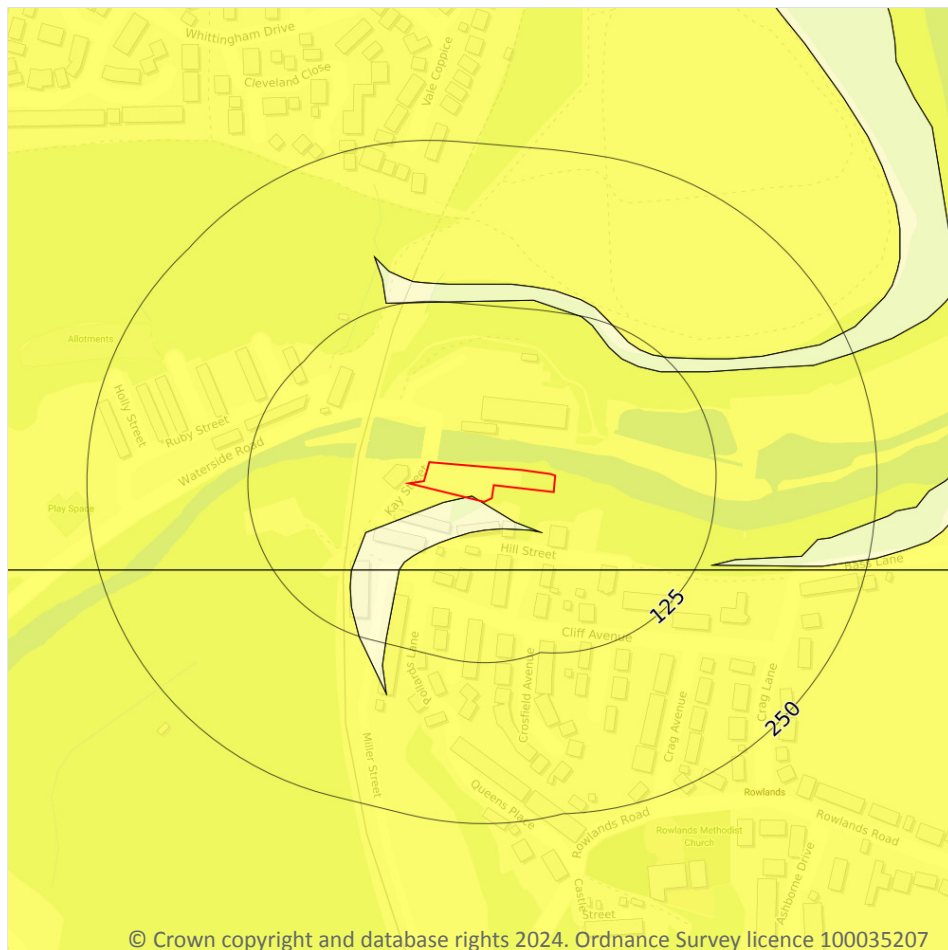


ID	Location	Grid reference	Name	Length	Confidential	Web link
1	110m W	379260 415130	SUMMERSEAT 3	4.2	N	13211049 ↗
2	119m SW	379330 414950	STAGE 3 INTERCEPTOR SEWER BH1	5.0	N	22812 ↗
B	129m NW	379270 415170	SUMMERSEAT 14	6.0	N	13211066 ↗
B	130m NW	379260 415160	SUMMERSEAT 13	10.0	N	13211063 ↗
C	135m W	379220 415100	SUMMERSEAT 5	4.2	N	13211053 ↗
B	144m NW	379250 415170	SUMMERSEAT 12	10.0	N	13211062 ↗
B	144m NW	379240 415160	SUMMERSEAT 11	8.0	N	13211061 ↗
C	154m W	379200 415100	SUMMERSEAT 4	5.2	N	13211051 ↗
B	160m NW	379220 415160	SUMMERSEAT 9	8.0	N	13211059 ↗
B	168m NW	379210 415160	SUMMERSEAT 2	3.5	N	13211048 ↗
3	170m SW	379320 414900	STAGE 3 INTERCEPTOR SEWER BH2	5.0	N	22813 ↗
B	172m NW	379220 415180	SUMMERSEAT 10	6.5	N	13211060 ↗
4	181m W	379170 415080	SUMMERSEAT 7	6.2	N	13211056 ↗
5	181m W	379170 415050	SUMMERSEAT 6	4.2	N	13211055 ↗
6	213m W	379150 415140	SUMMERSEAT 1	3.2	N	13211039 ↗
7	218m S	379320 414850	STAGE 3 INTERCEPTOR SEWER BH3	5.0	N	22814 ↗
8	221m W	379130 415080	SUMMERSEAT 8	5.2	N	13211058 ↗

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

2

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).

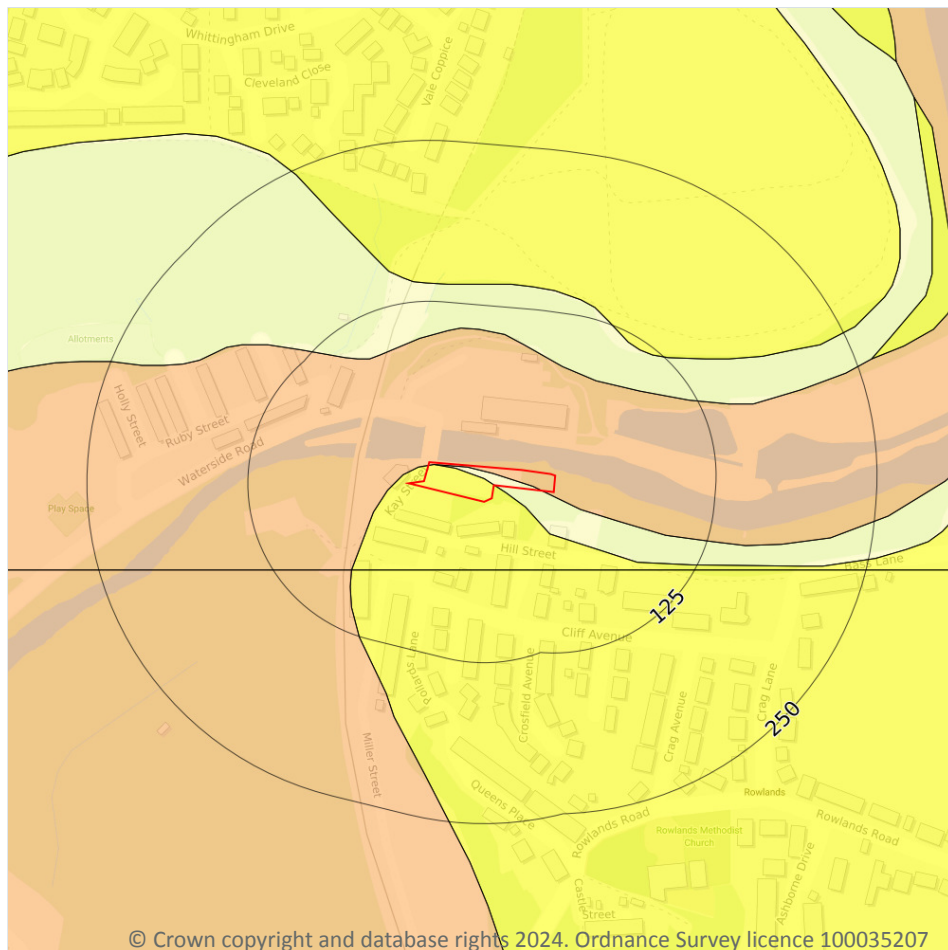
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 104 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

3

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 105 >](#)

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

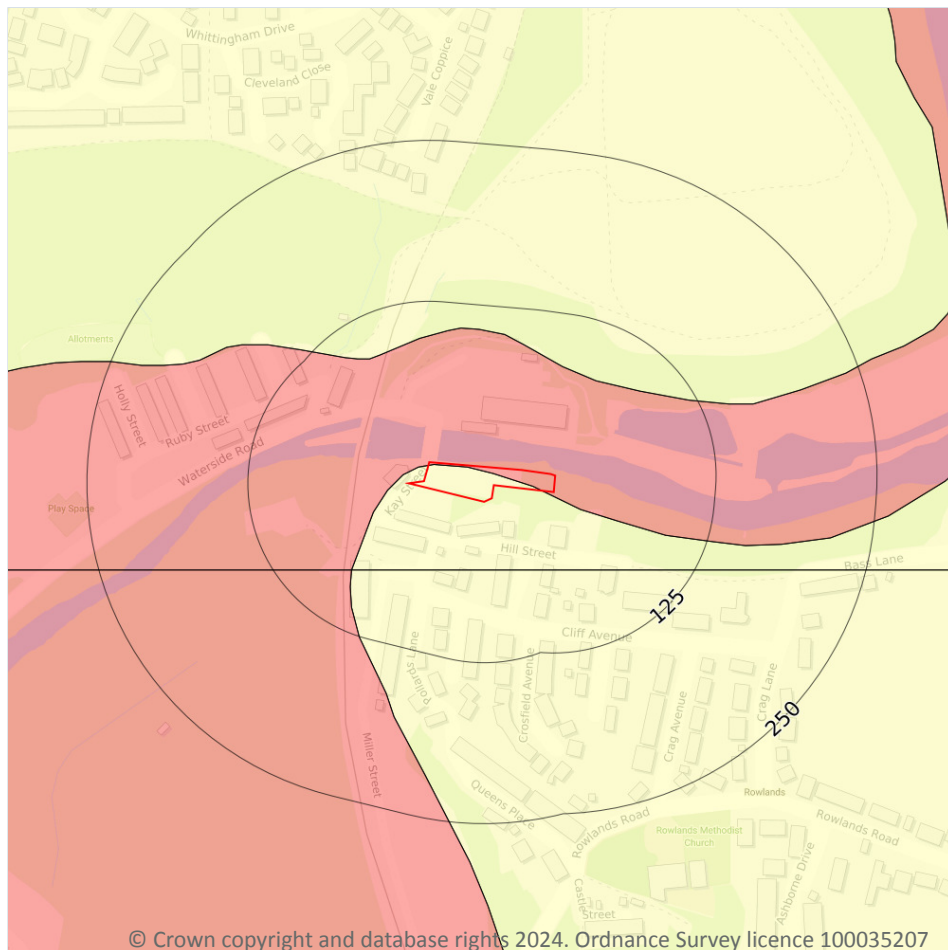


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

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

2

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 107](#) >

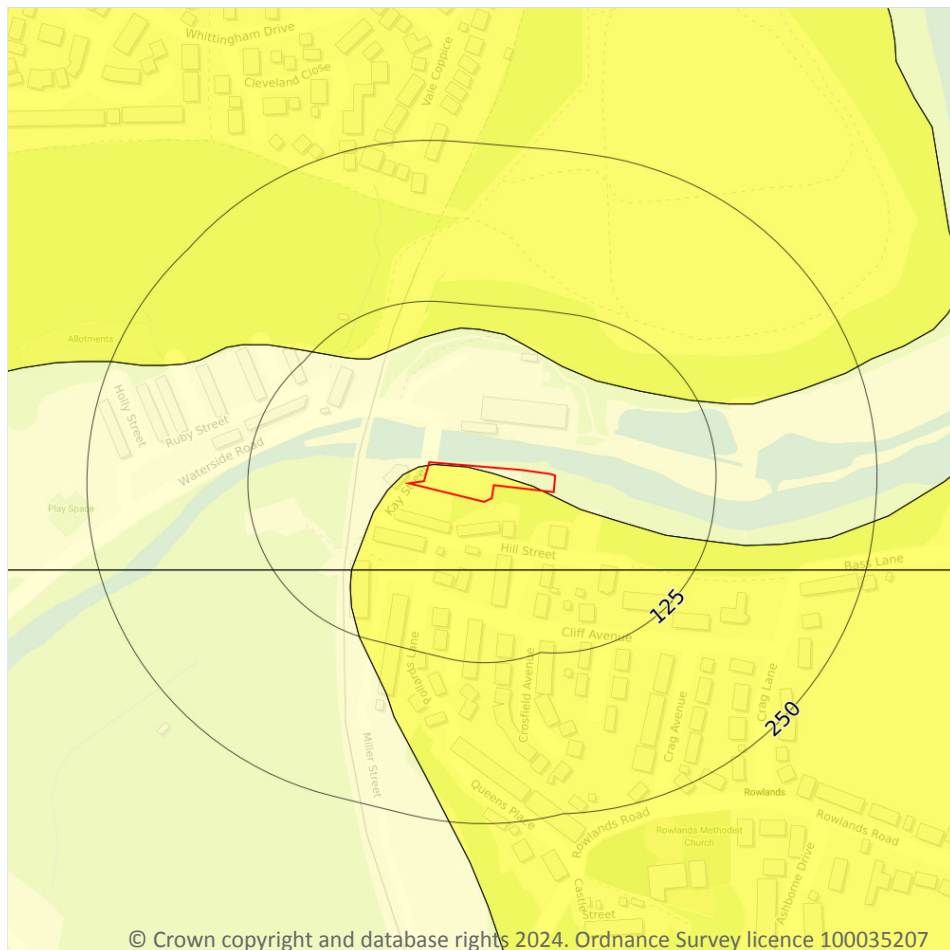
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

2

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.

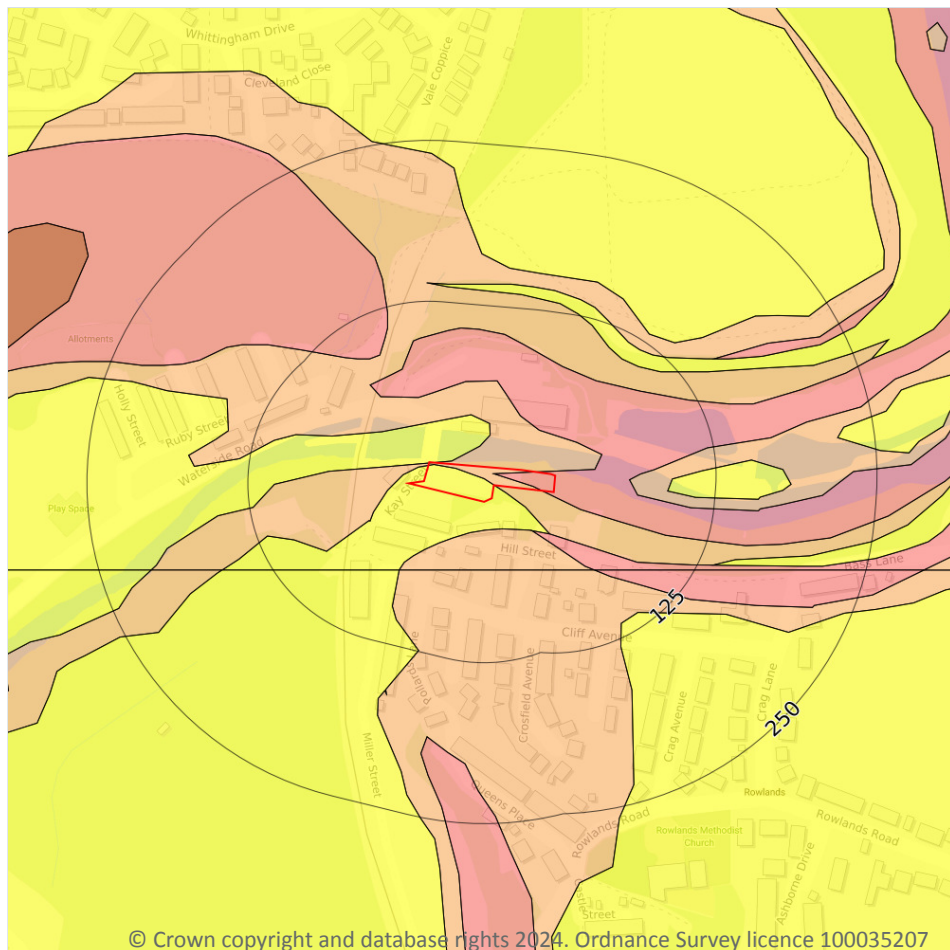
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 109](#) >

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

5

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 110](#) >

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.

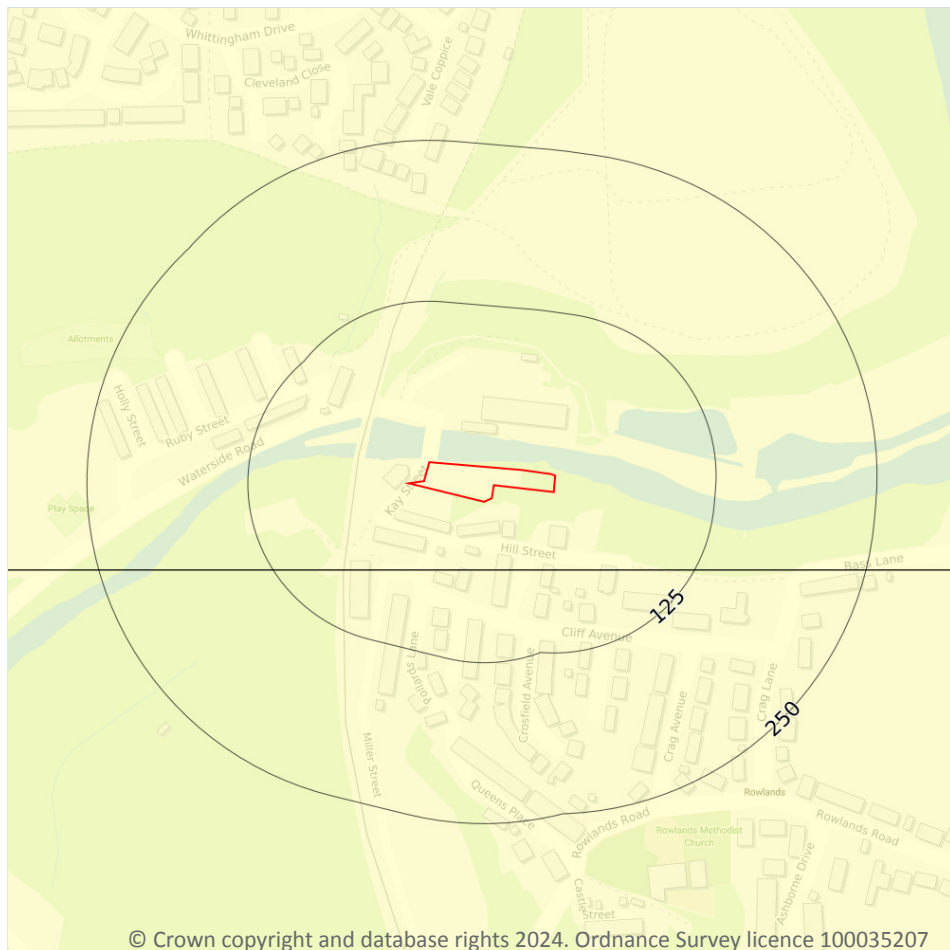


Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
22m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
32m SE	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

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 112](#) >

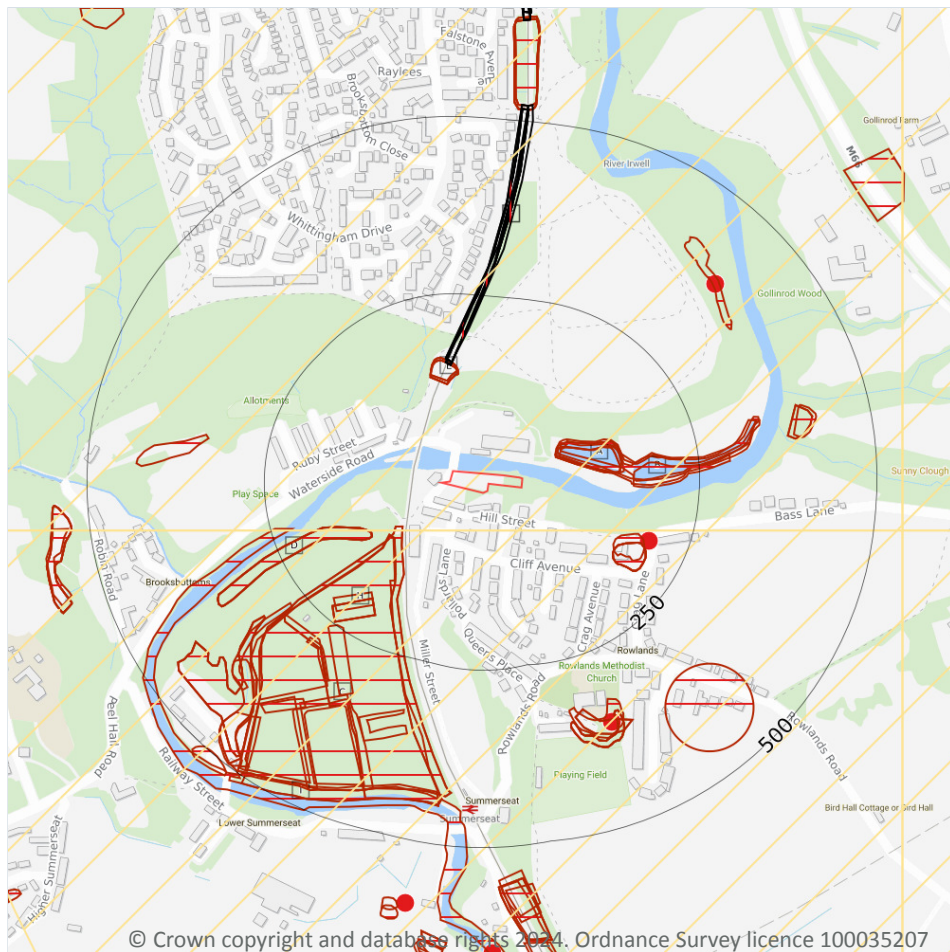
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



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

3

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.

Features are displayed on the Mining and ground workings map on [page 114](#) >

ID	Location	Details	Description
G	194m E	Name: Cragg Farm Address: Brooksbottom, RAMSBOTTOM, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	354m SE	Name: Rowlands Address: Brooksbottom, RAMSBOTTOM, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
L	387m NE	Name: Brooksbottom Address: Brooksbottom, RAMSBOTTOM, Lancashire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

34

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 114 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	56m E	Reservoirs	1948	1:10560
A	56m E	Reservoirs	1927	1:10560
A	56m E	Reservoirs	1908	1:10560
B	57m E	Reservoirs	1955	1:10560
A	61m E	Pond	1891	1:10560
B	61m E	Ponds	1968	1:10560
B	67m E	Ponds	1980	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
C	83m SW	Sewage Works	1980	1:10000
C	83m SW	Sewage Works	1974	1:10000
C	103m SW	Sewage Works	1948	1:10560
C	103m SW	Sewage Works	1927	1:10560
C	104m SW	Sewage Works	1908	1:10560
D	122m SW	Unspecified Heap	1948	1:10560
D	122m SW	Unspecified Heap	1927	1:10560
D	122m SW	Unspecified Heap	1908	1:10560
D	122m SW	Unspecified Heap	1891	1:10560
E	123m N	Cuttings	1948	1:10560
E	123m N	Cuttings	1927	1:10560
E	123m N	Cuttings	1908	1:10560
E	123m N	Cuttings	1891	1:10560
E	128m N	Cuttings	1968	1:10560
E	128m N	Cuttings	1955	1:10560
G	151m SE	Unspecified Quarry	1956	1:10560
B	157m E	Reservoirs	1908	1:10560
G	157m SE	Unspecified Pit	1948	1:10560
G	157m SE	Unspecified Pit	1927	1:10560
G	157m SE	Unspecified Pit	1891	1:10560
G	157m SE	Unspecified Old Quarry	1908	1:10560
H	183m SW	Sludge Tanks	1956	1:10560
H	190m SW	Sludge Tanks	1948	1:10560
H	190m SW	Sludge Tanks	1927	1:10560
H	190m SW	Sludge Tanks	1908	1:10560
I	221m W	Canal	1956	1:10560
C	247m SW	Filter Beds	1908	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

14

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

Features are displayed on the Mining and ground workings map on [page 114](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
F	150m N	Tunnel	1948	1:10560
F	150m N	Tunnel	1927	1:10560
F	150m N	Tunnel	1908	1:10560
F	150m N	Tunnel	1891	1:10560
F	153m N	Tunnel	1968	1:10560
F	153m N	Tunnel	1955	1:10560
F	154m N	Tunnel	1980	1:10000
T	642m N	Tunnel	1948	1:10560
T	642m N	Tunnel	1927	1:10560
T	642m N	Tunnel	1908	1:10560
T	642m N	Tunnel	1891	1:10560
T	653m N	Tunnel	1980	1:10000
T	653m N	Tunnel	1968	1:10560
T	653m N	Tunnel	1955	1:10560

This 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

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

4

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).

Features are displayed on the Mining and ground workings map on [page 114 >](#)

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
2	53m S	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
9	536m E	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	540m E	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

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
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Generalised areas that may be affected by kaolin and ball clay extraction.

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



19 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.

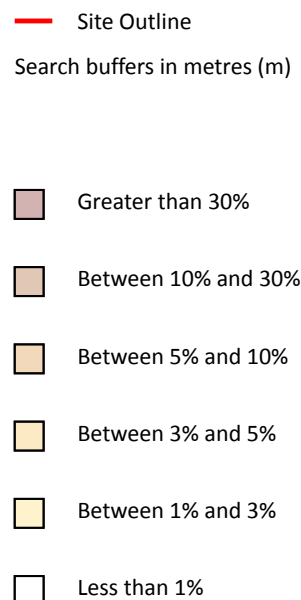
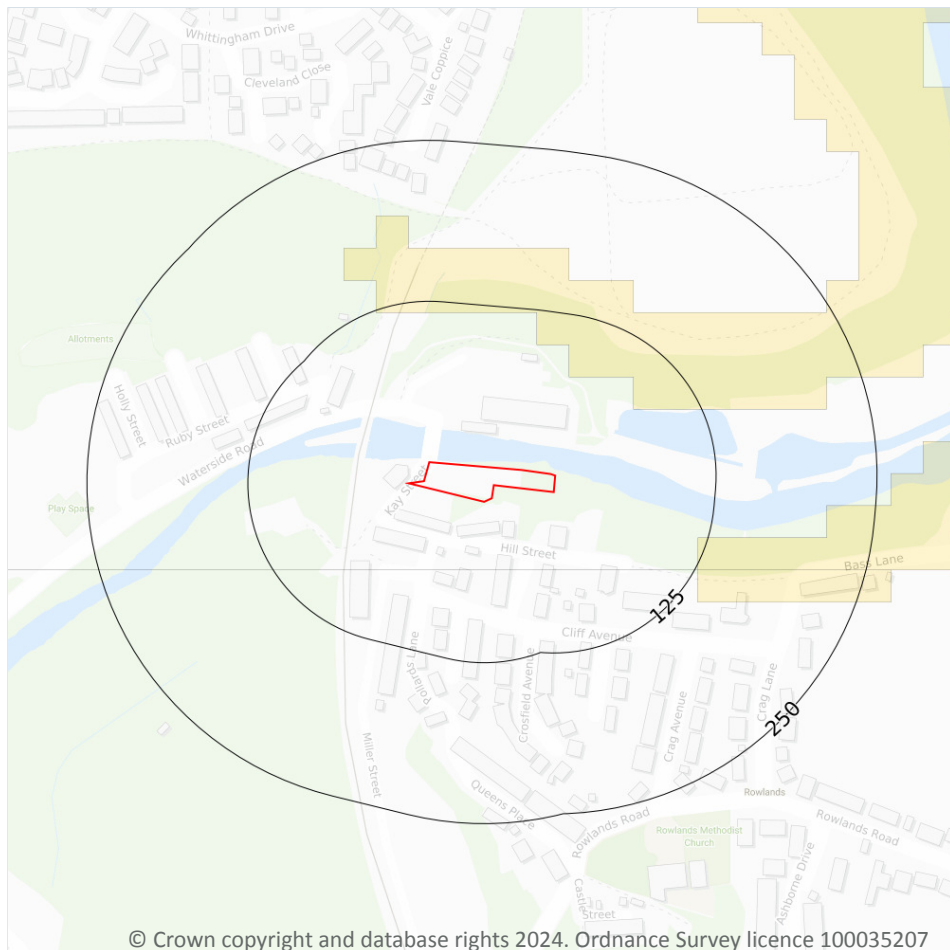
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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



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20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 124 >](#)

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

7

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 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
22m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
36m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m SE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

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

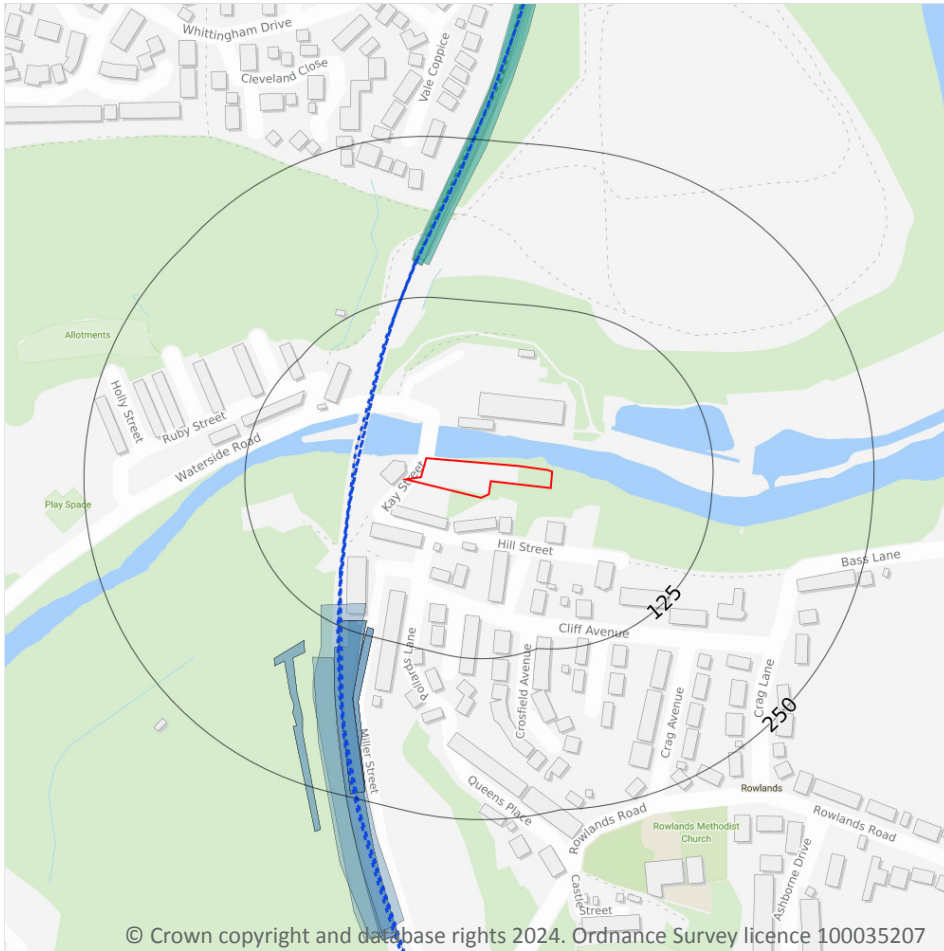
0

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



- Site Outline
- Search buffers in metres (m)
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

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

1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on [page 128 >](#)

Location	Type
152m N	Railway Tunnel

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

27

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.

Features are displayed on the Railway infrastructure and projects map on [page 128 >](#)

Location	Land Use	Year of mapping	Mapping scale
101m SW	Railway Sidings	1956	10560
114m SW	Railway Sidings	1948	10560
114m SW	Railway Sidings	1927	10560
114m SW	Railway Sidings	1908	10560
116m SW	Railway Sidings	1891	2500
116m SW	Railway Sidings	1910	2500
116m SW	Railway Sidings	1937	2500
148m SW	Railway Sidings	1910	2500
148m SW	Railway Sidings	1937	2500
150m SW	Railway Sidings	1908	10560
150m N	Tunnel	1948	10560
150m N	Tunnel	1927	10560
150m N	Tunnel	1908	10560



Location	Land Use	Year of mapping	Mapping scale
150m N	Tunnel	1891	10560
150m N	Tunnel	1992	1250
150m N	Tunnel	1988	-
150m N	Tunnel	1891	2500
150m N	Tunnel	1910	2500
150m N	Tunnel	1937	2500
151m N	Tunnel	1978	1250
151m N	Tunnel	1992	1250
151m N	Tunnel	1971	2500
151m N	Tunnel	1963	2500
153m N	Tunnel	1968	10560
153m N	Tunnel	1955	10560
154m N	Tunnel	1980	10000
157m N	Tunnel	1980	2500

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

11

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on [page 128 >](#)

Location	Name	Type
39m W	Not given	Preserved
40m W	East Lancashire Railway	rail
41m W	Not given	Single Track
87m NW	East Lancashire Railway	rail
88m SW	Not given	Single Track
89m NW	Not given	Preserved
90m SW	Not given	Preserved
93m SW	East Lancashire Railway	rail
97m NW	Not given	Single Track
152m N	Brooksbottoms Tunnel	rail
154m N	Brooksbottoms Tunnel	Preserved

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 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.

22.9 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> ↗.

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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series

Map date: 1891

Scale: 1:2,500

Printed at: 1:2,500



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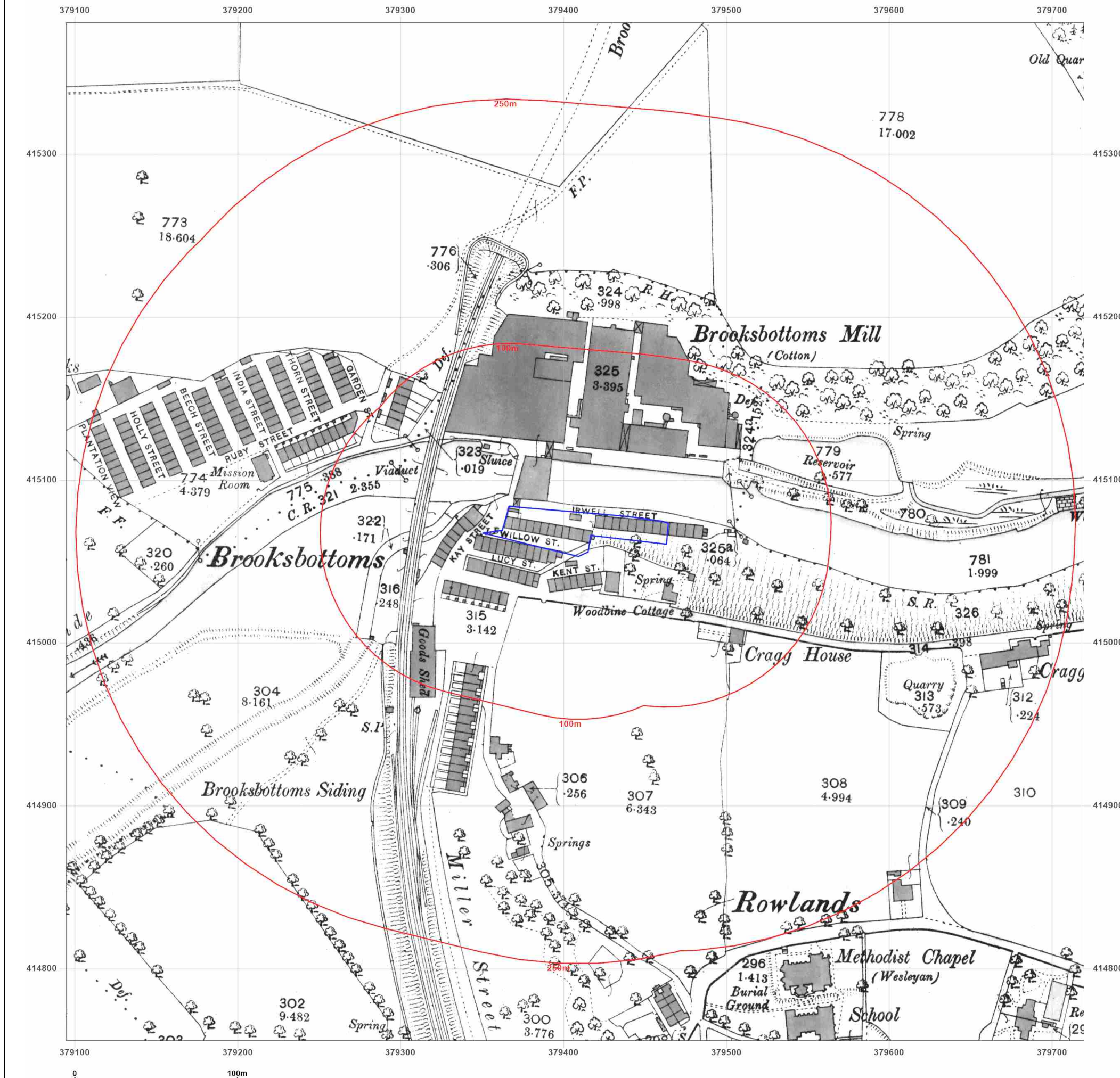


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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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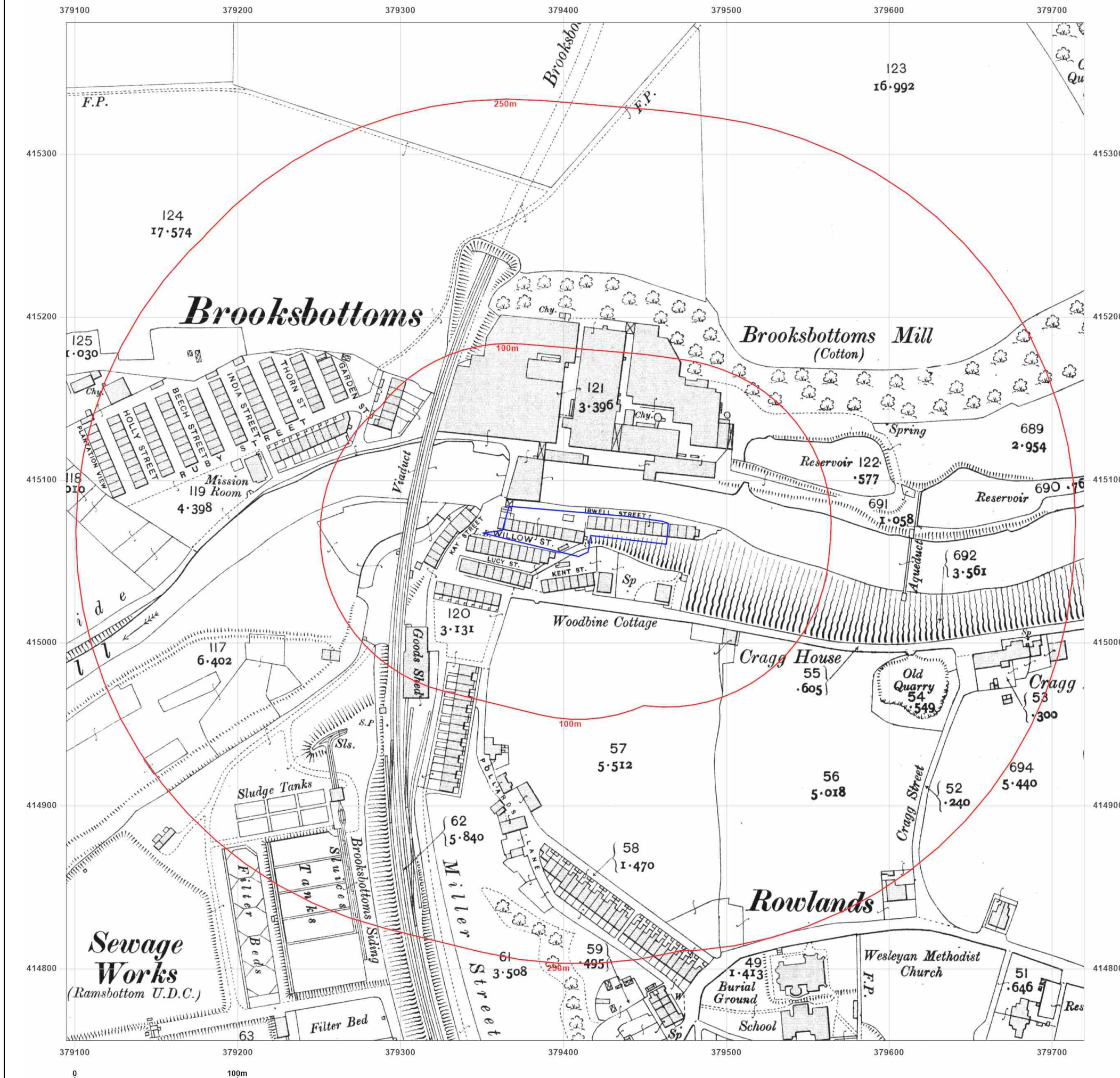


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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series

Map date: 1929

Scale: 1:2,500

Printed at: 1:2,500



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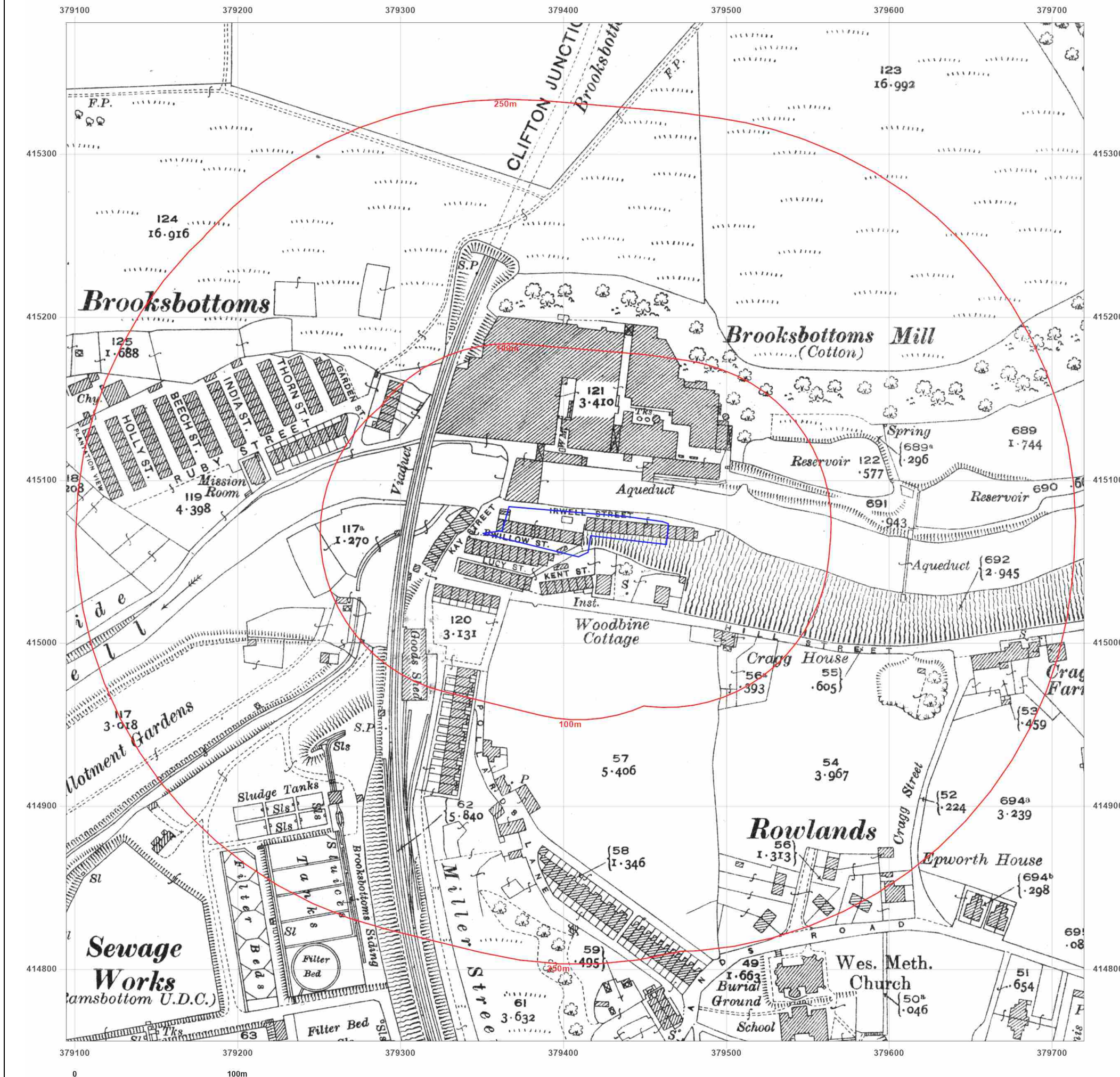


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Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
 Revised 1937
 Edition N/A
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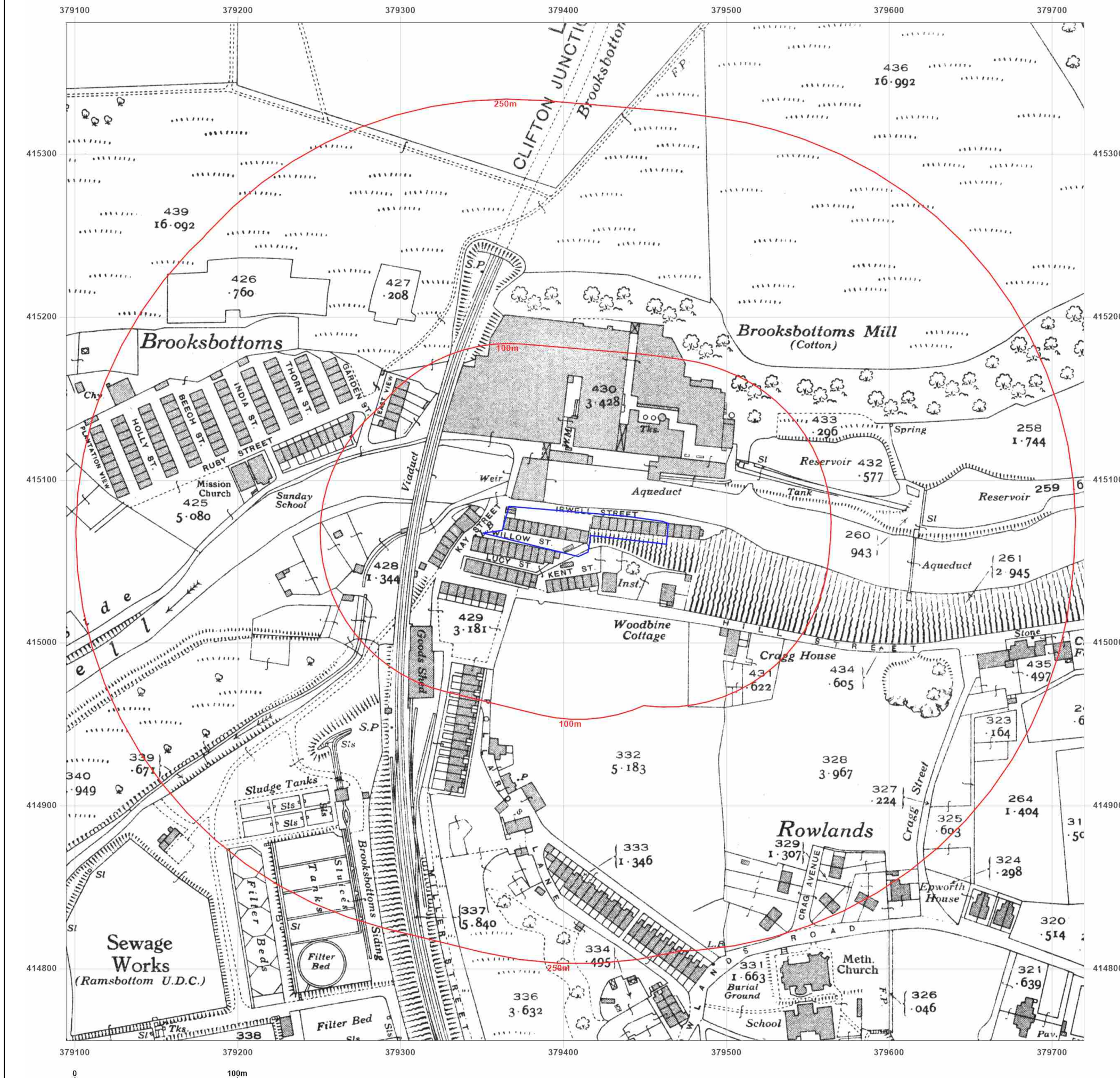


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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

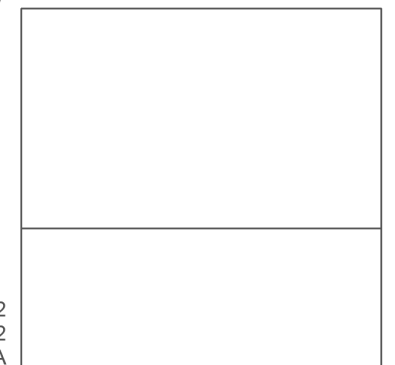
Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1957



Surveyed 1962
Revised 1962
Edition N/A
Copyright 1963
Levelled 1957

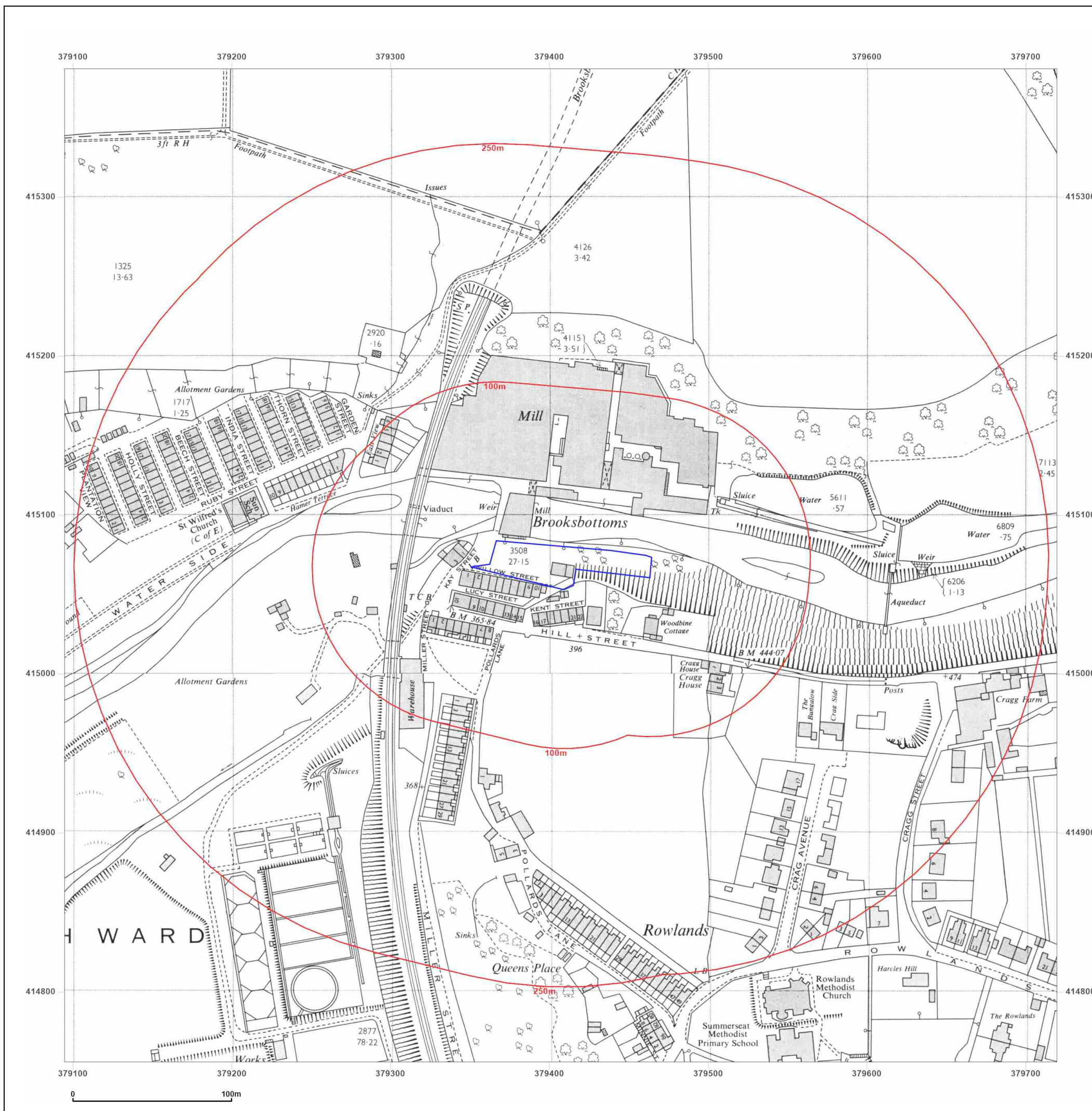


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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



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 Edition N/A
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 Edition N/A
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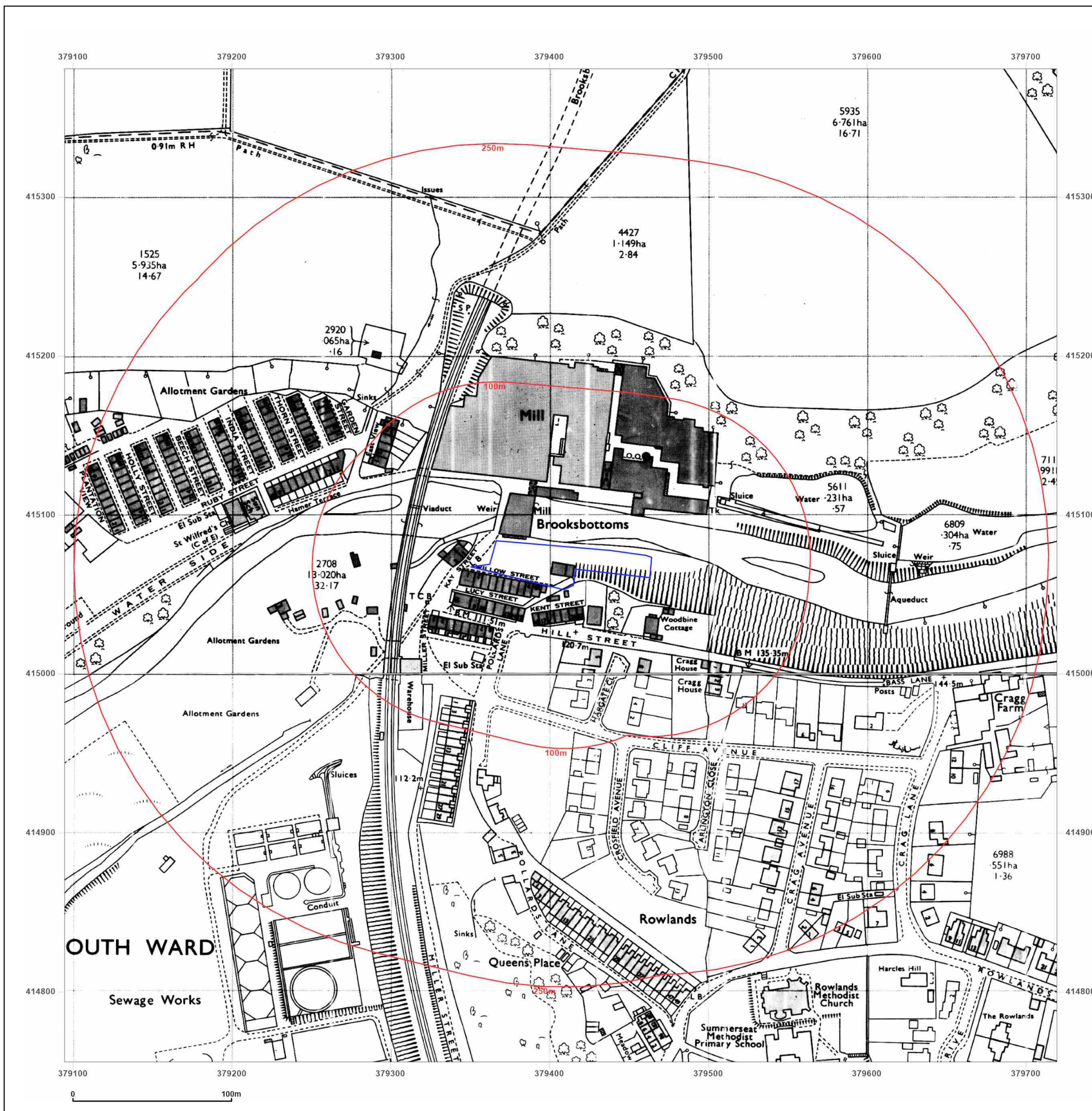


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Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1971

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1970
Edition N/A
Copyright 1971
Levelled 1963

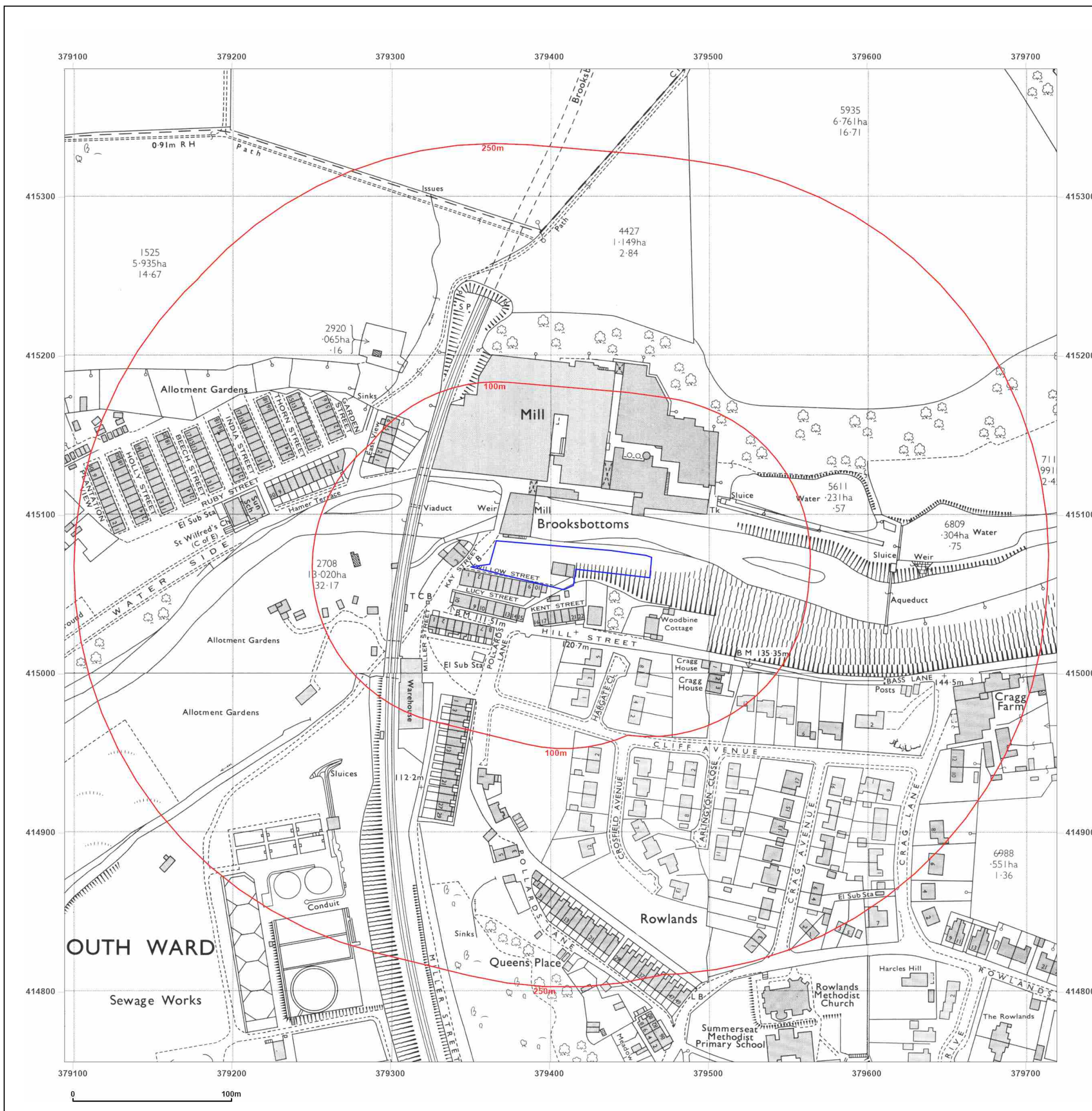


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Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1977-1978

Scale: 1:1,250

Printed at: 1:2,000



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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1980

Scale: 1:2,500

Printed at: 1:2,500



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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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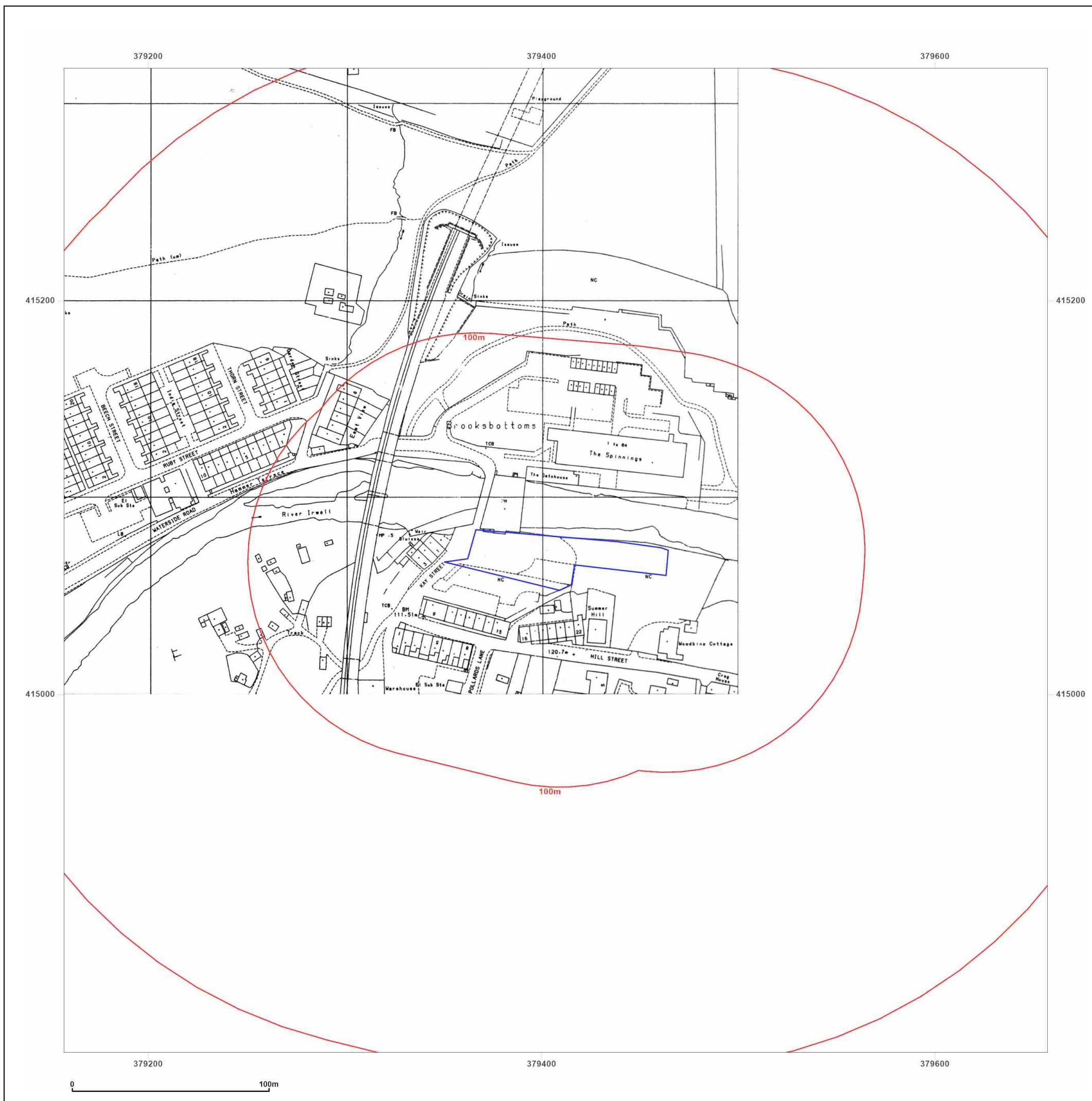


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Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series
Map date: 1850-1851
Scale: 1:10,560
Printed at: 1:10,560



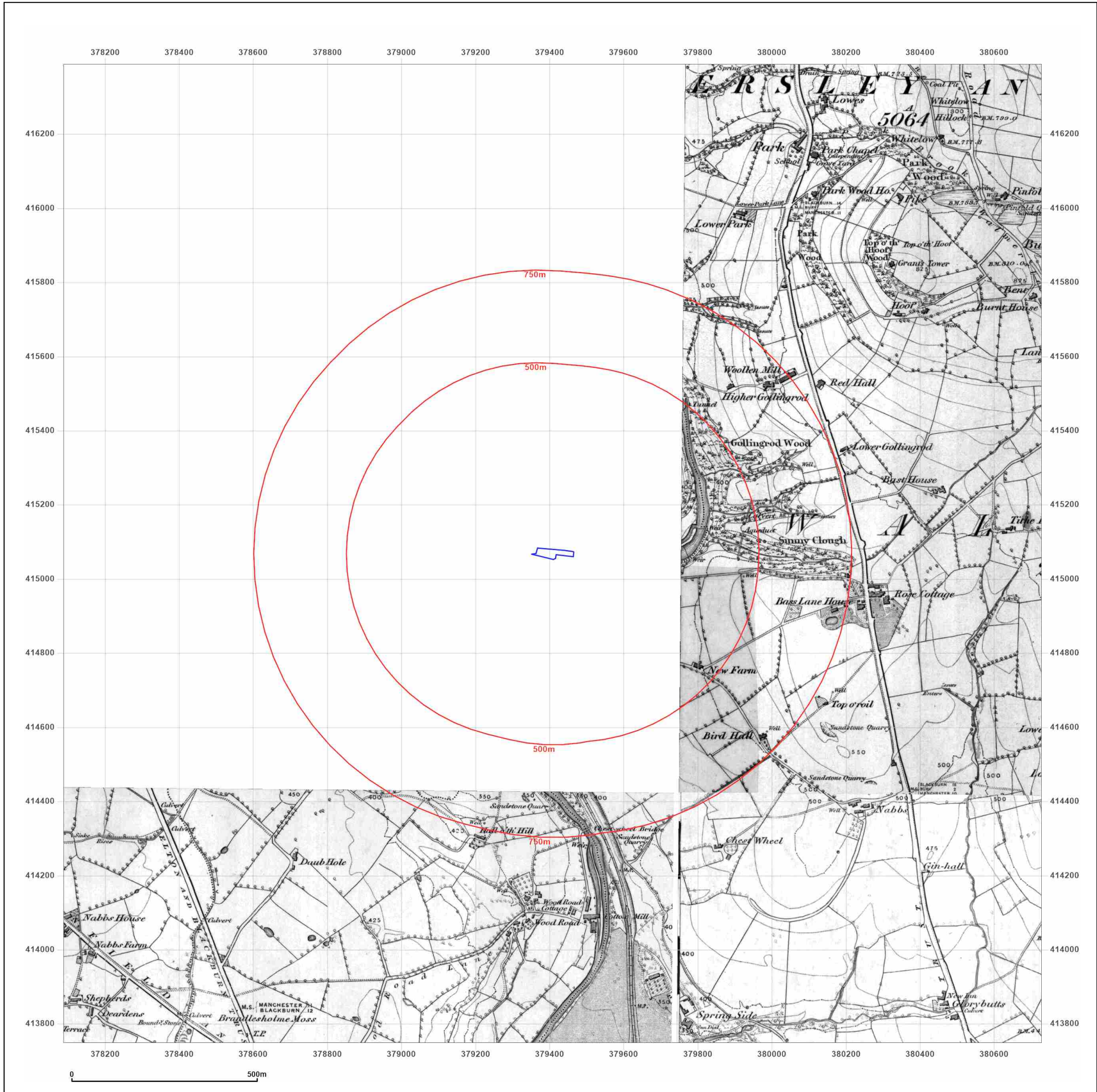
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Revised N/A
Edition 1851
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Surveyed 1847
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Edition 1850
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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series
Map date: 1891
Scale: 1:10,560
Printed at: 1:10,560

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Revised 1891
Edition N/A
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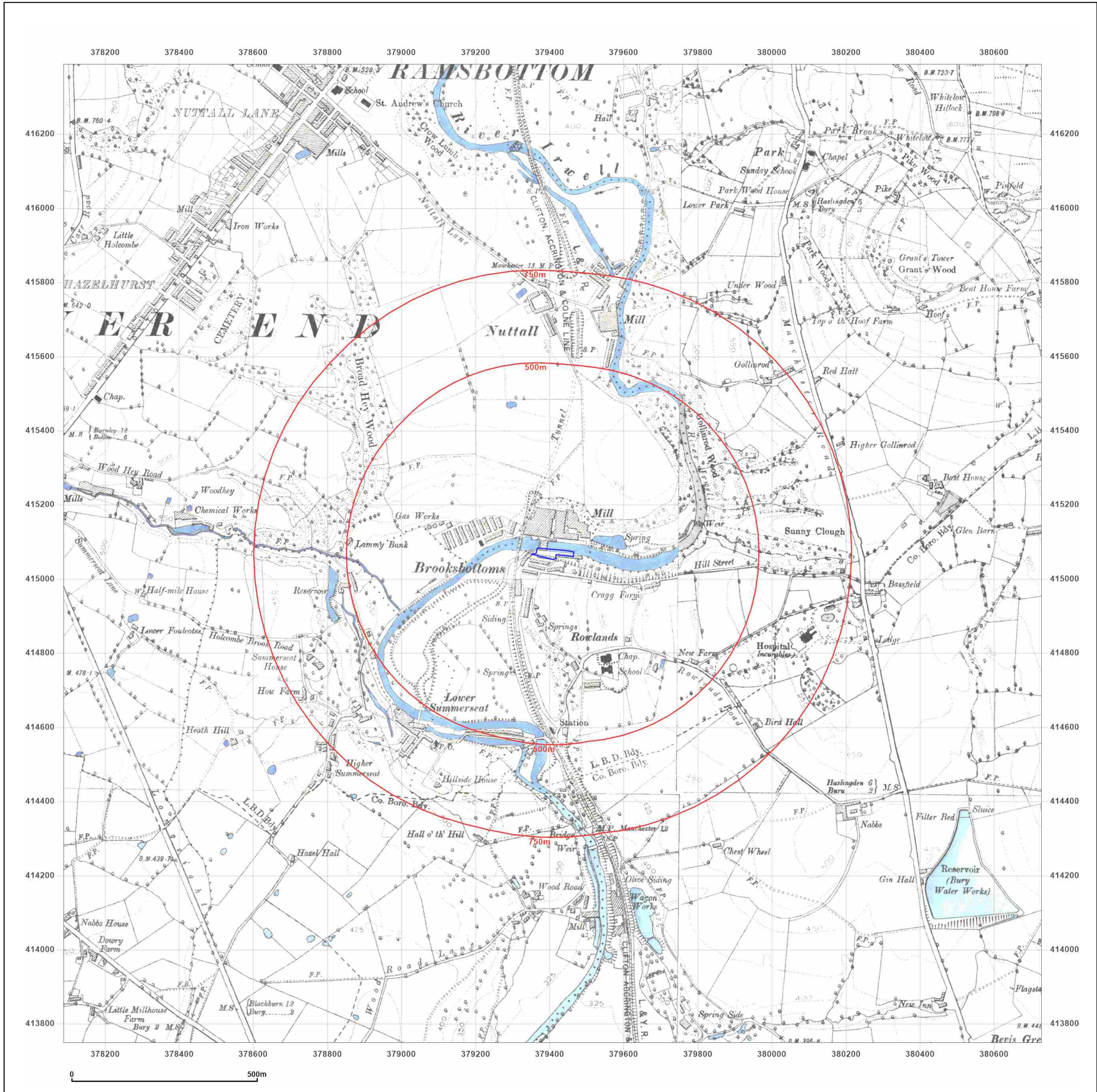
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Revised 1891
Edition N/A
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Grid Ref: 379407, 415068

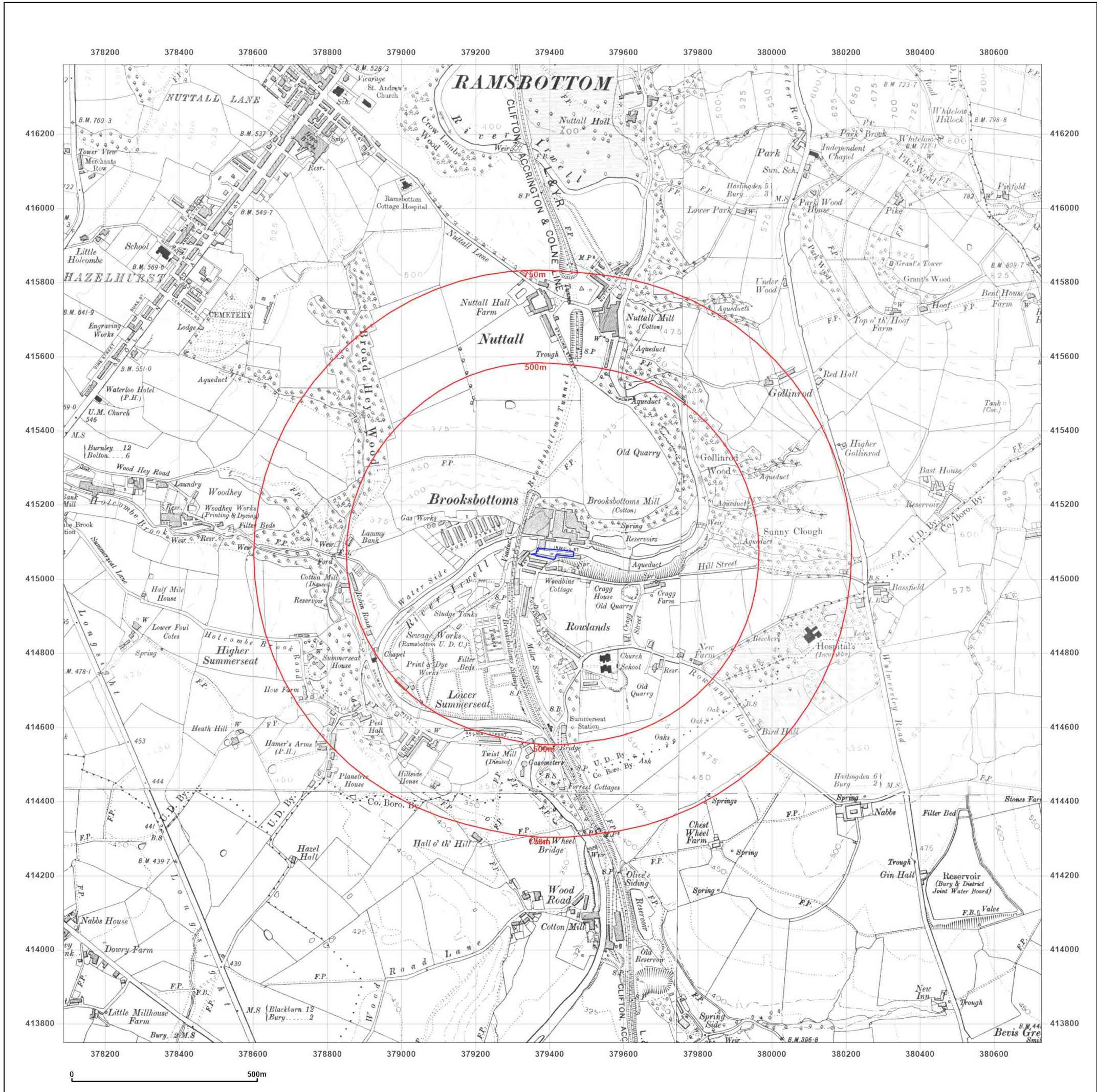
Map Name: County Series
Map date: 1908-1909
Scale: 1:10,560
Printed at: 1:10,560



Surveyed 1848 Revised 1908 Edition N/A Copyright N/A Levelled N/A		Surveyed 1848 Revised 1908 Edition N/A Copyright N/A Levelled N/A
Surveyed 1844 Revised 1909 Edition N/A Copyright N/A Levelled N/A		Surveyed 1848 Revised 1908 Edition N/A Copyright N/A Levelled N/A



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Map Name: County Series

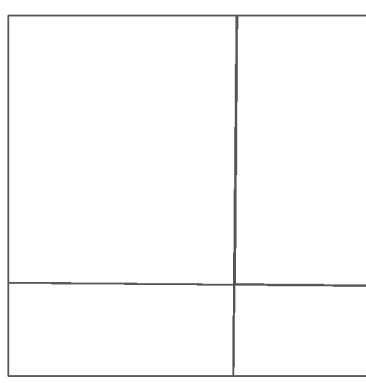
Map date: 1927-1928

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1928
Edition N/A
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Surveyed 1848
Revised 1928
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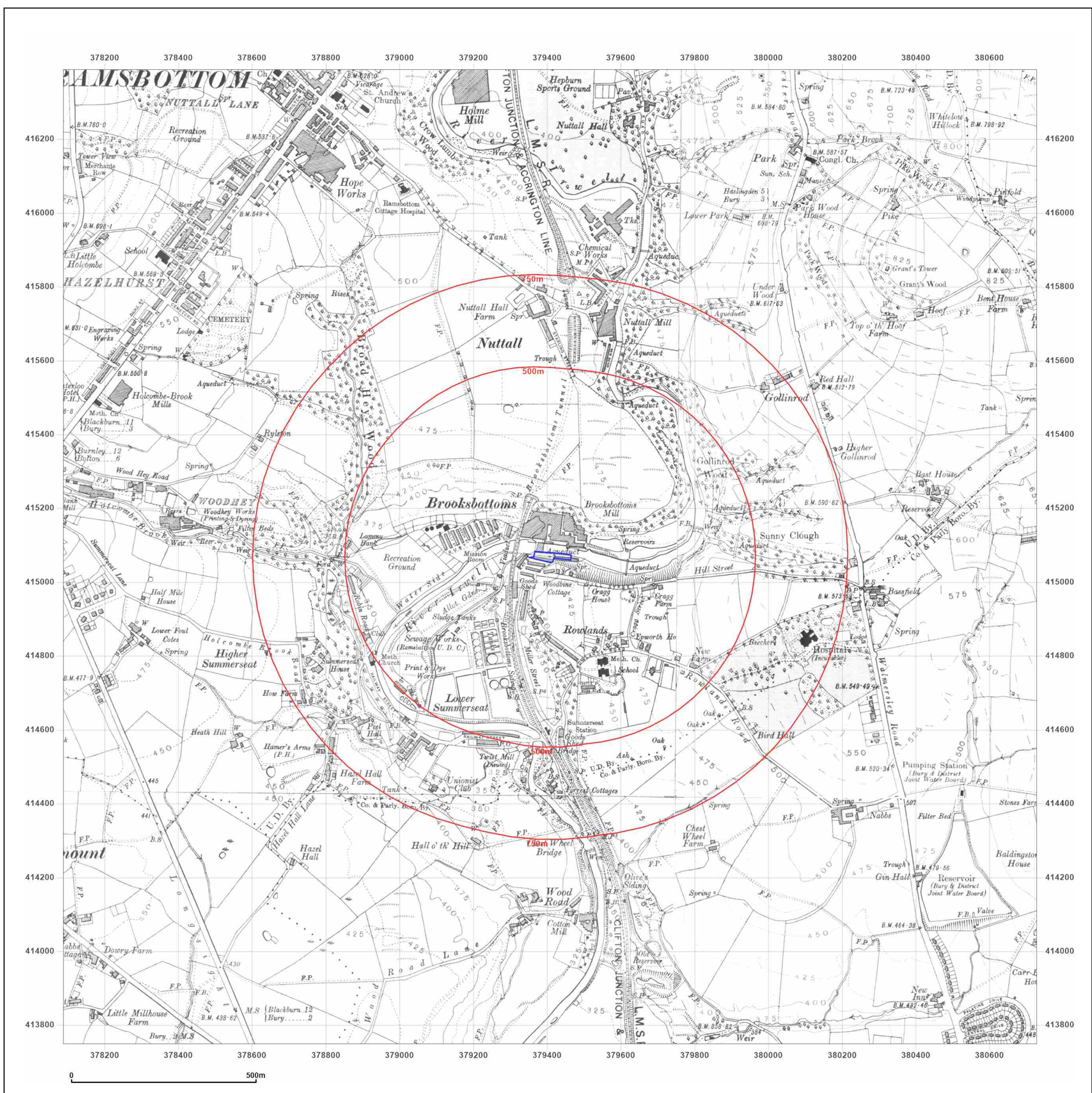


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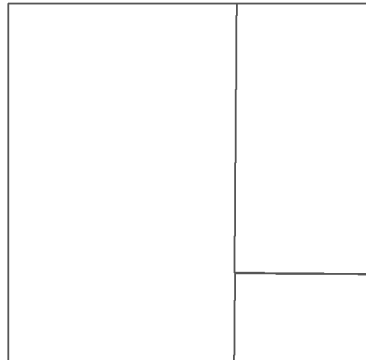
Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series
Map date: 1938
Scale: 1:10,560
Printed at: 1:10,560



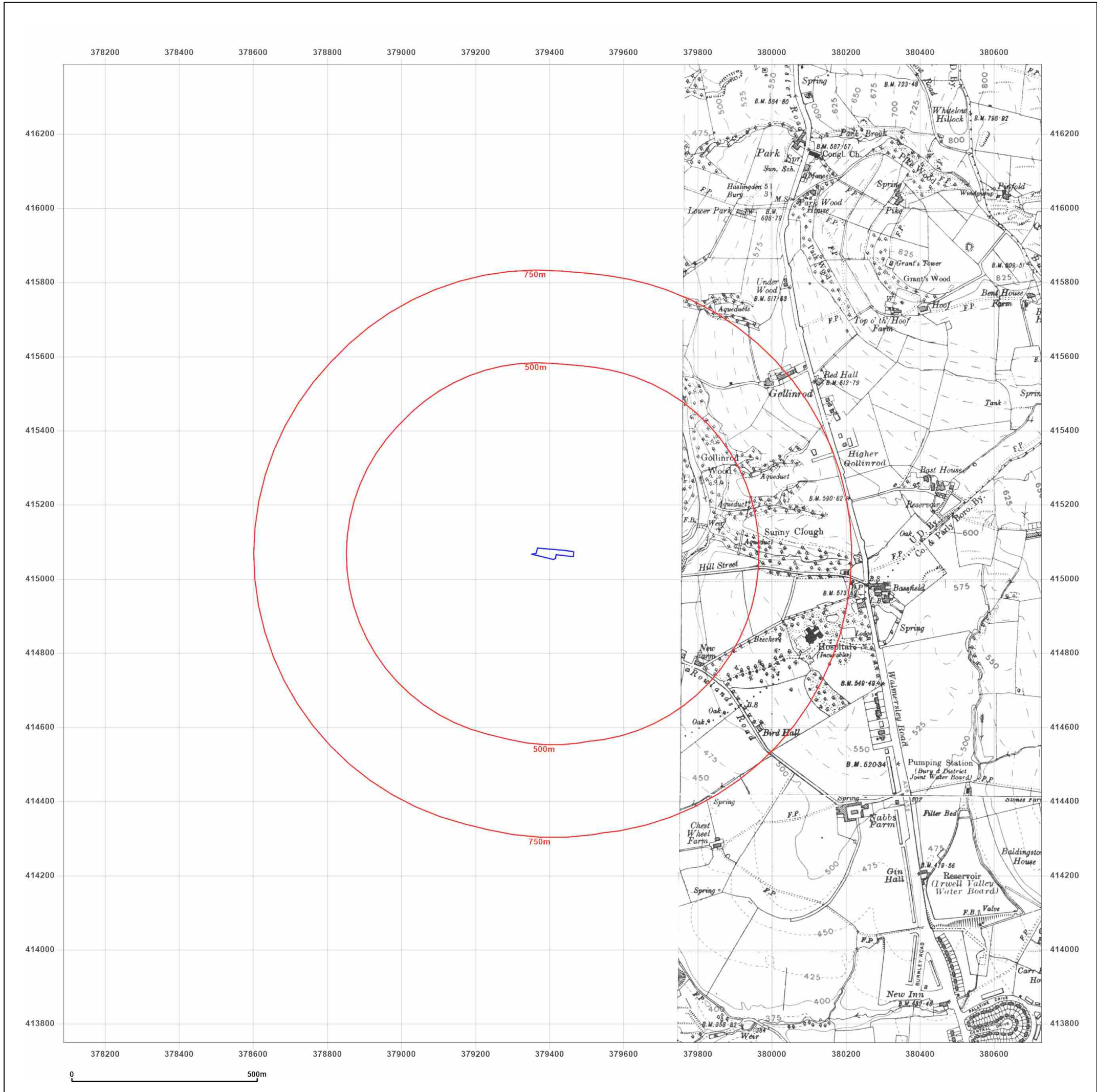


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Report Ref:

GS-P8T-QXL-YVZ-CET

Grid Ref:

379407, 415068

Map Name:

County Series

Map date:

1938

Scale:

1:10,560

Printed at:

1:10,560

N

W

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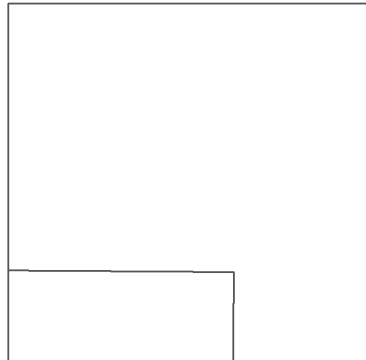
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Revised 1938

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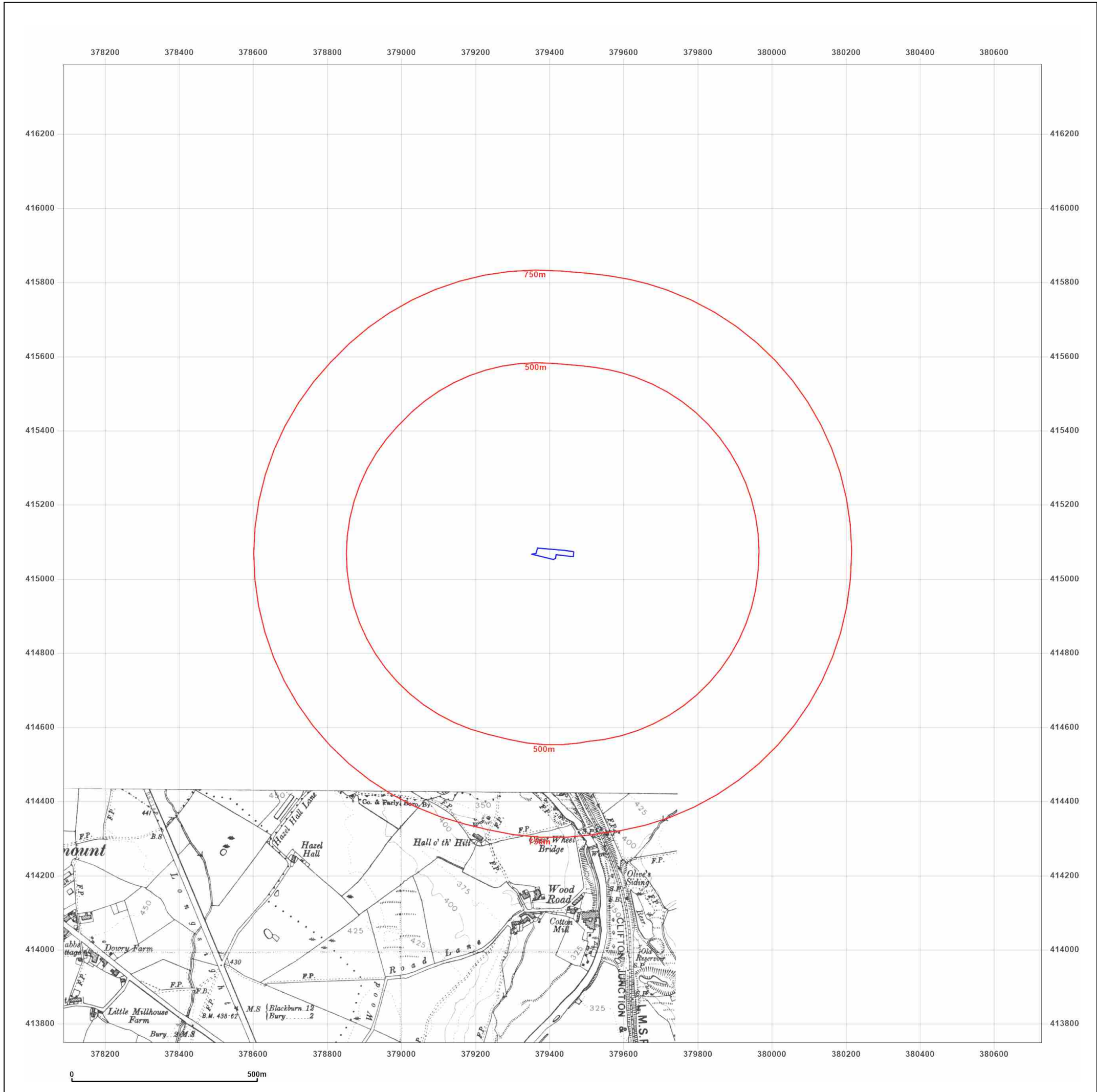
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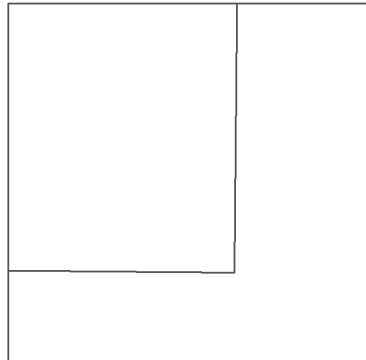
Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: County Series
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Scale: 1:10,560
Printed at: 1:10,560

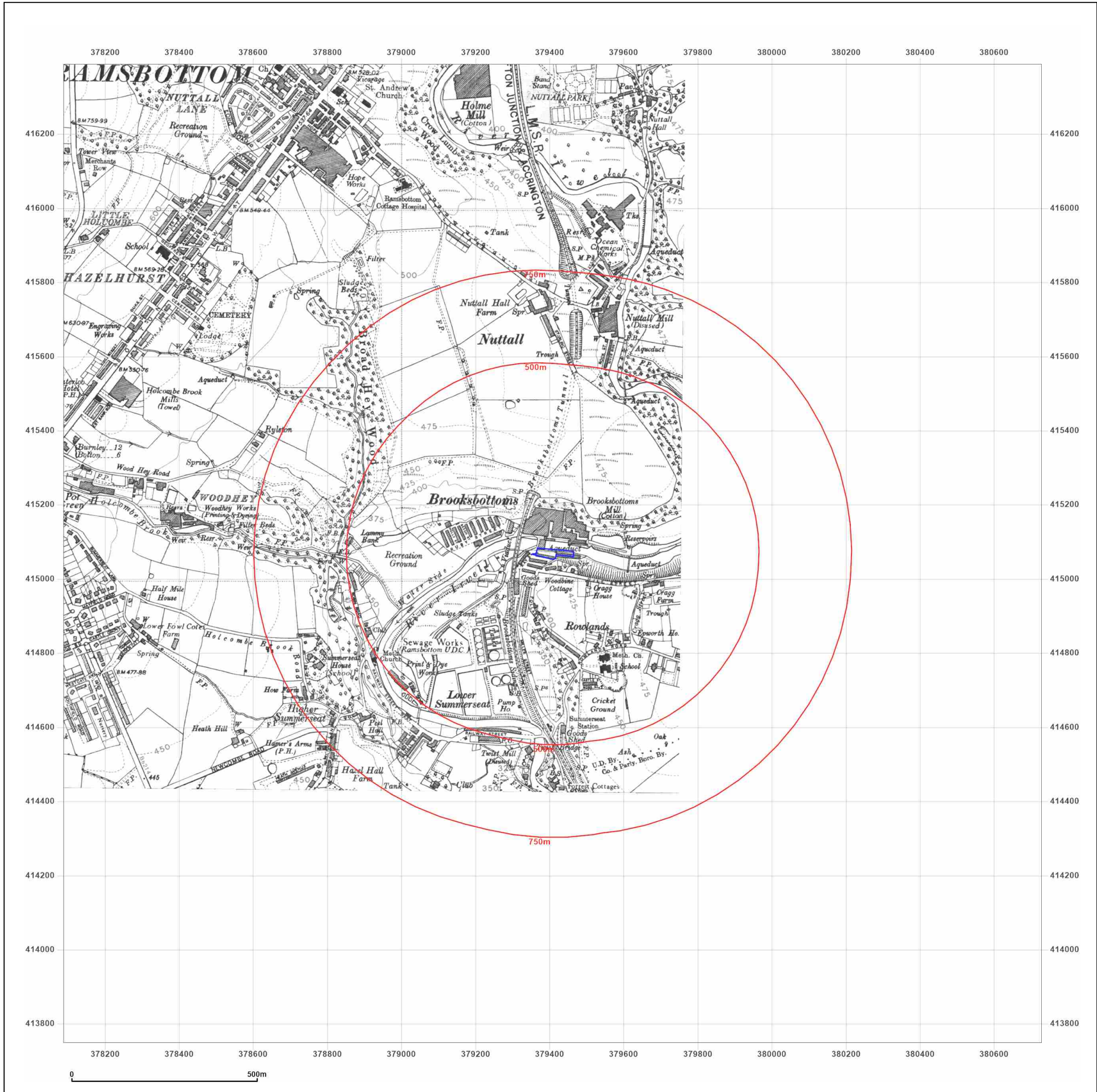
Surveyed 1948
Revised 1948
Edition N/A
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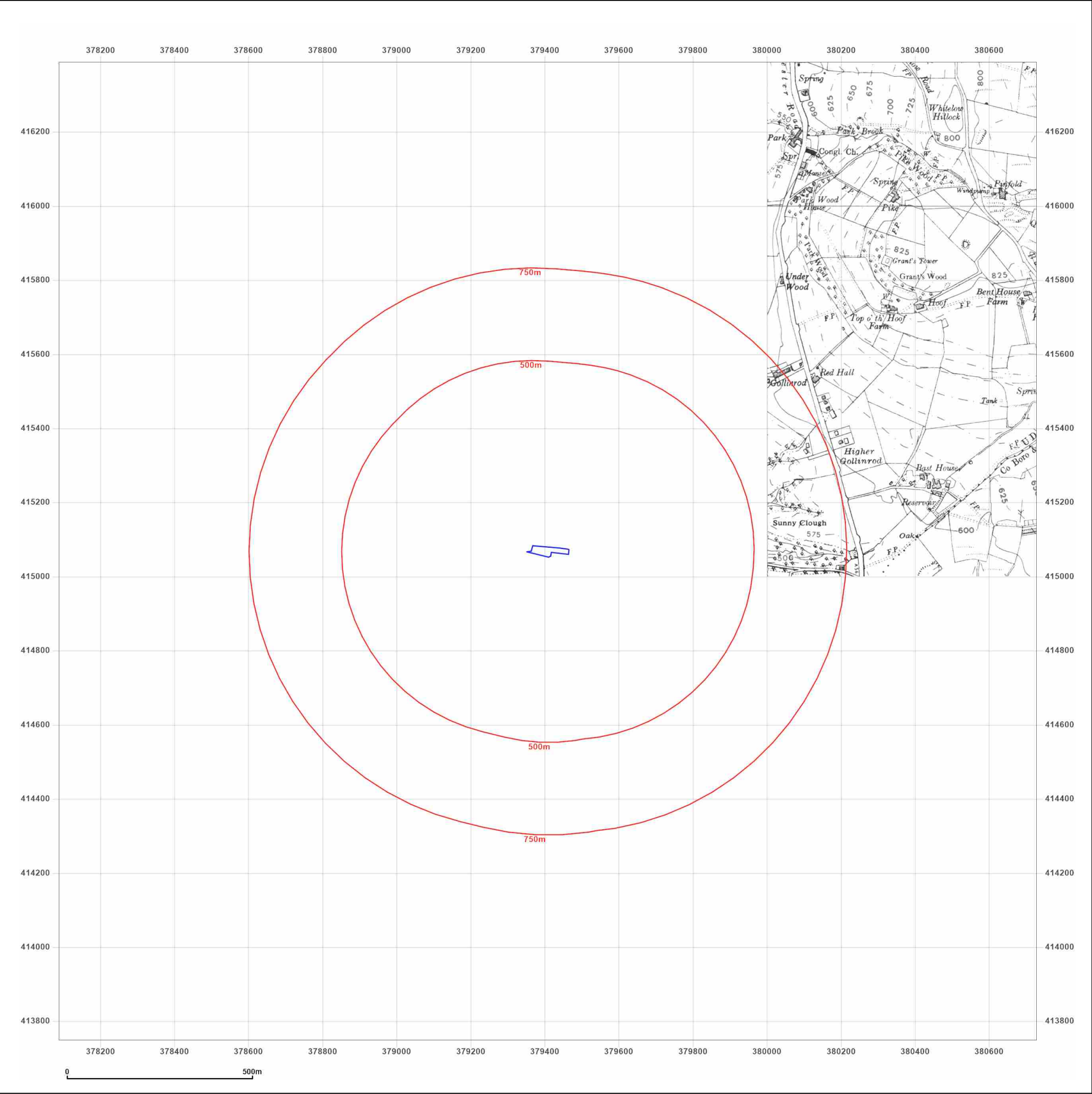






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Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: Provisional

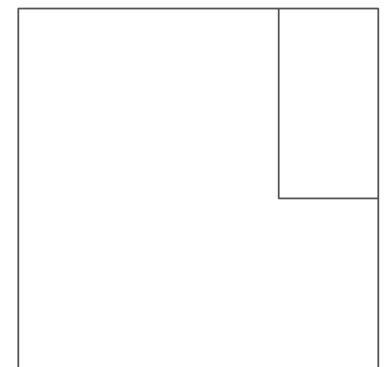
Map date: 1949

Scale: 1:10,560

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Site Details:

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Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: Provisional

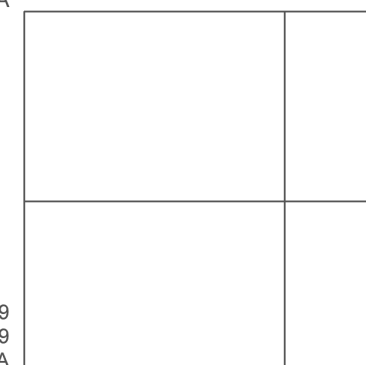
Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1949
Edition N/A
Copyright 1955
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Surveyed 1949
Revised 1949
Edition N/A
Copyright 1956
Levelled N/A

Surveyed 1949
Revised 1949
Edition N/A
Copyright 1956
Levelled N/A

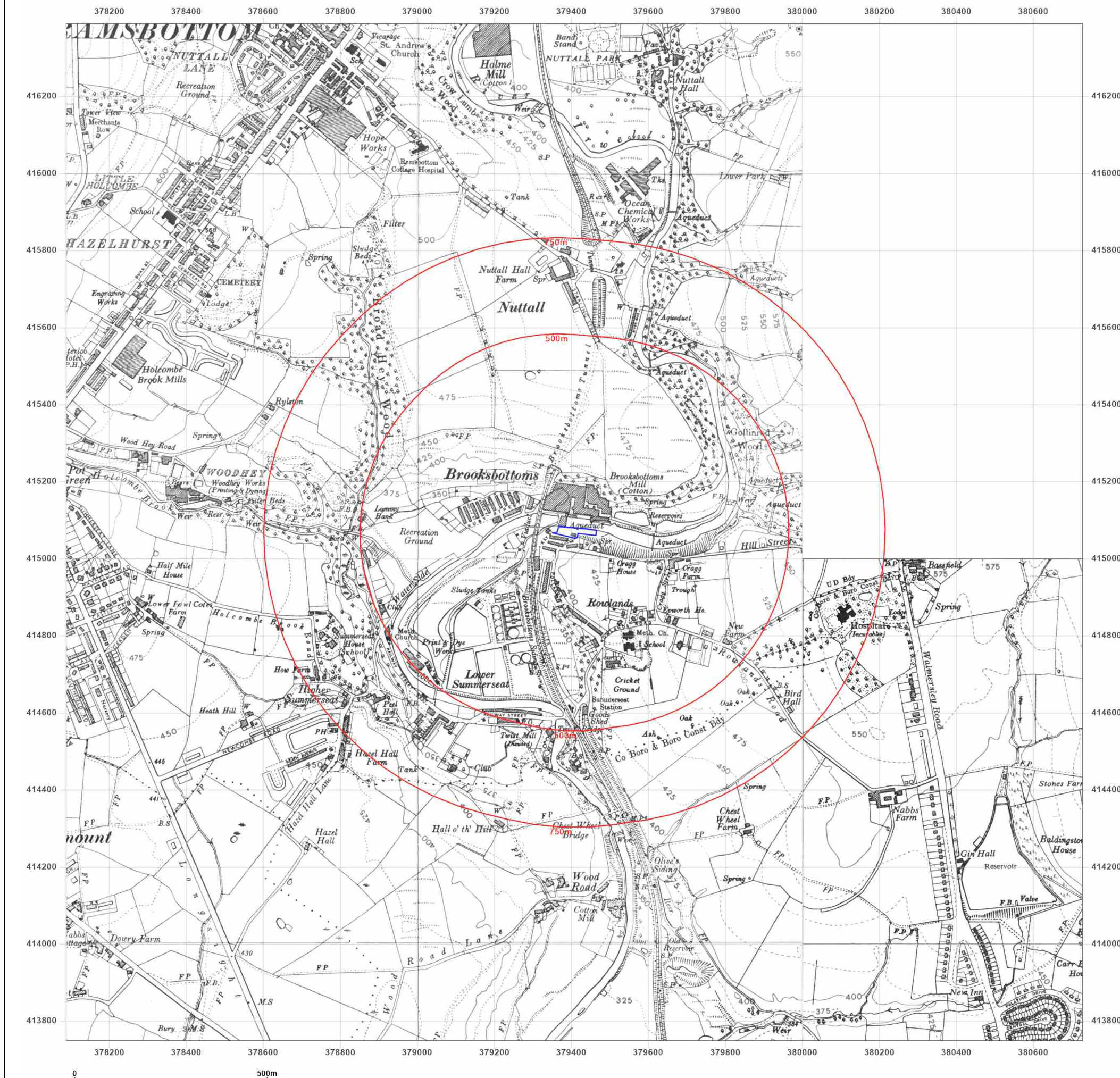


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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: Provisional

Map date: 1967-1969

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Revised 1969
Edition N/A
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Surveyed 1967
Revised 1967
Edition N/A
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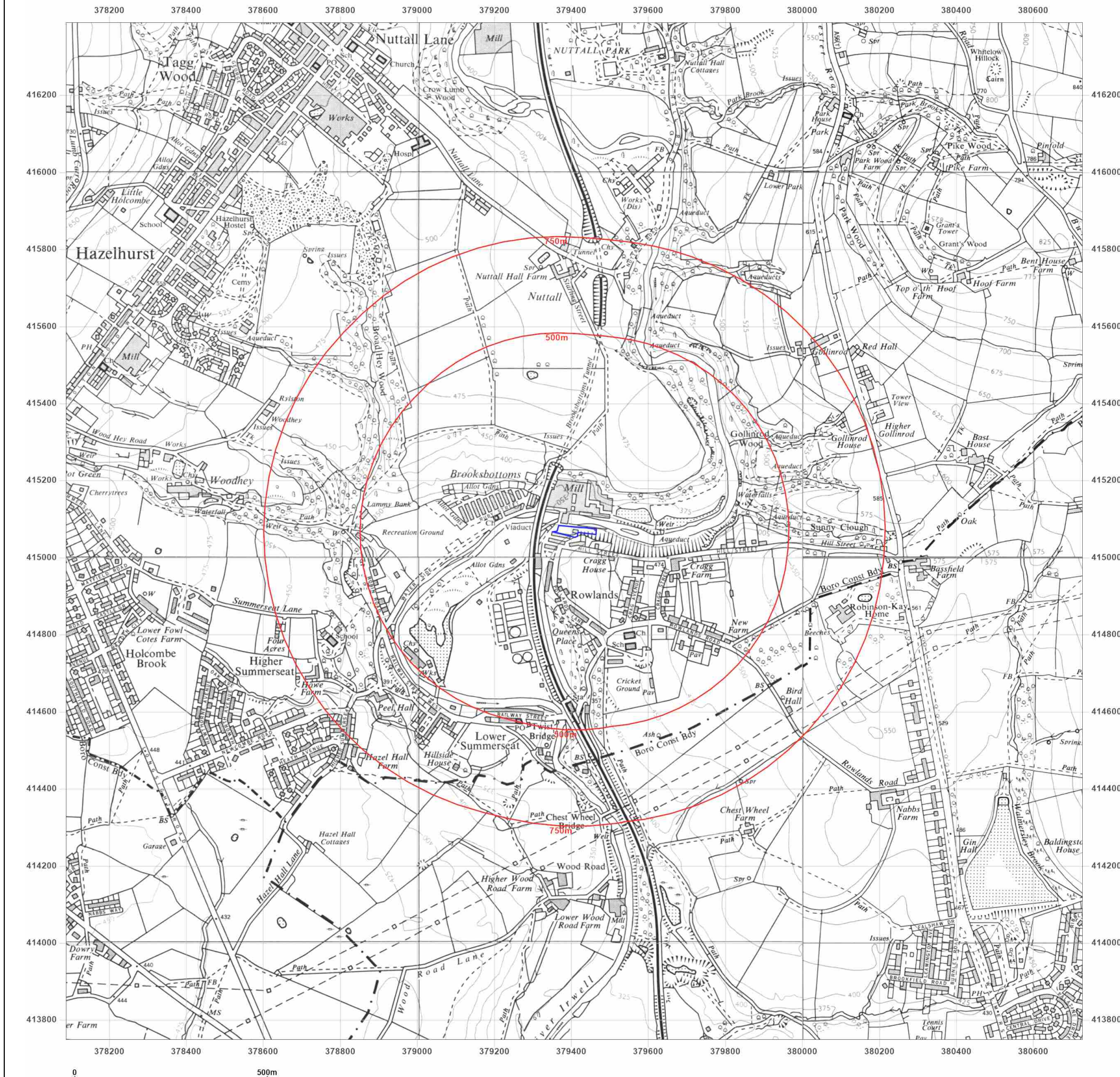


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Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 1974

Scale: 1:10,000

Printed at: 1:10,000



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Edition N/A
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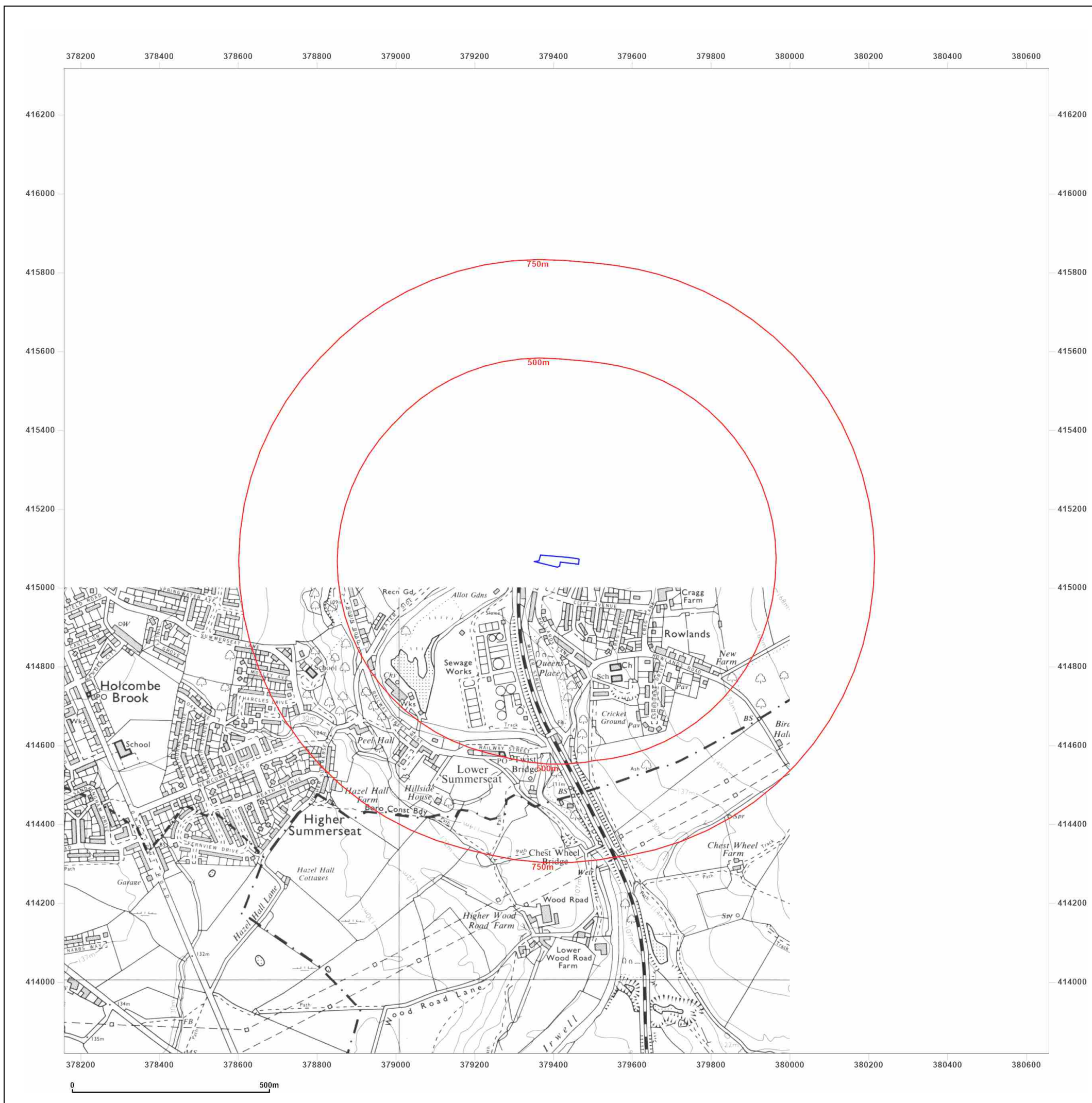


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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

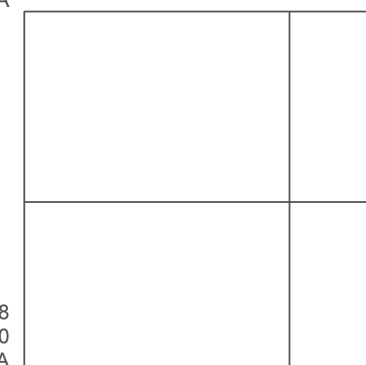
Map date: 1980-1983

Scale: 1:10,000

Printed at: 1:10,000



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Revised 1980
Edition N/A
Copyright N/A
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Surveyed 1978
Revised 1980
Edition N/A
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Levelled N/A

Surveyed 1977
Revised 1983
Edition N/A
Copyright N/A
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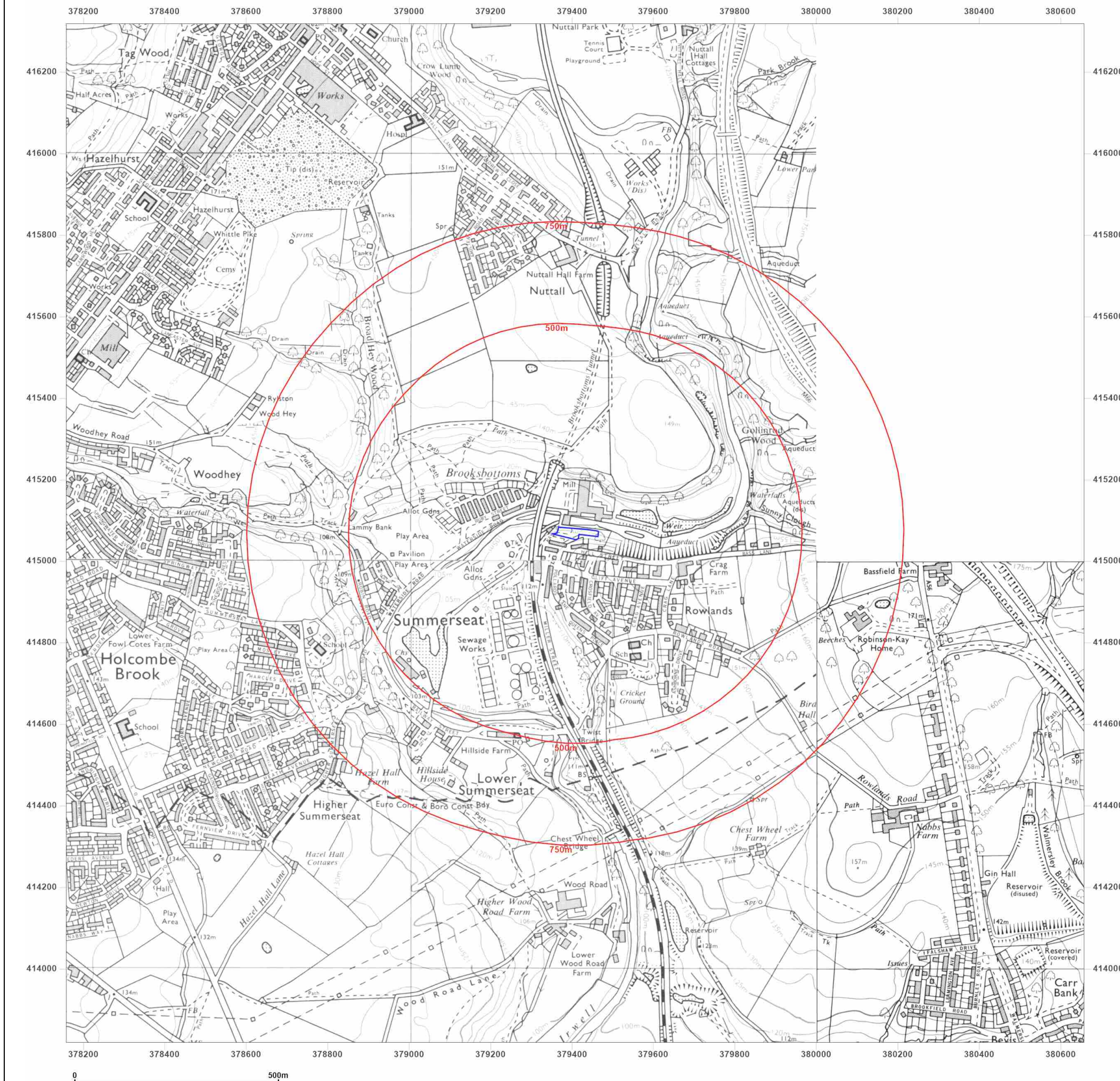


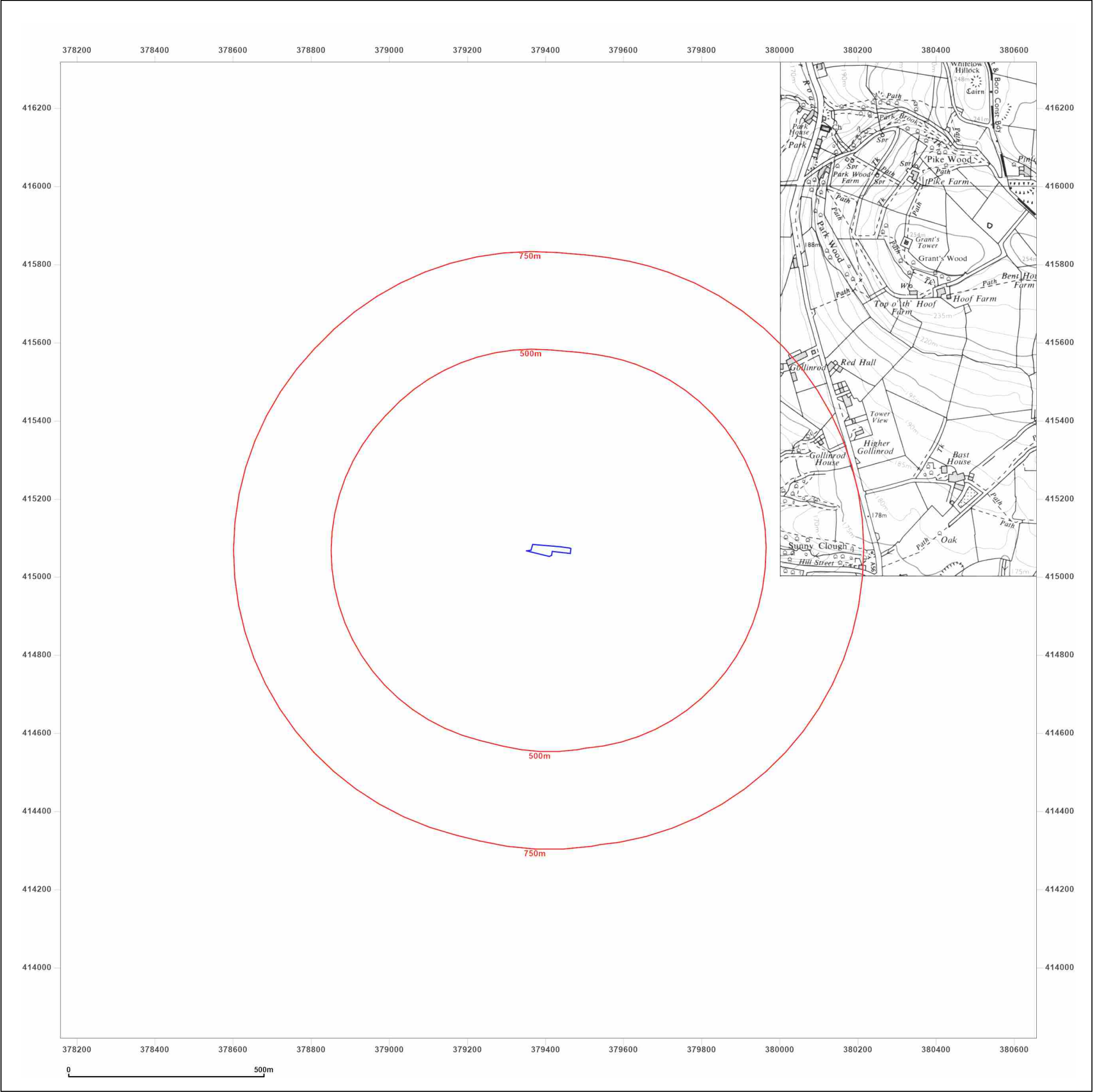
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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

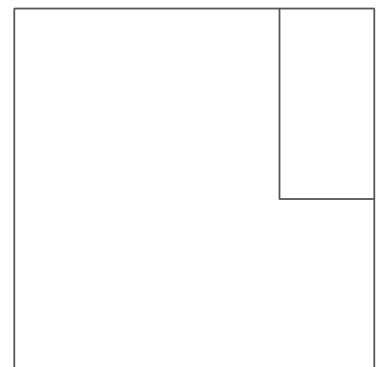
Map date: 1987

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Printed at: 1:10,000



Surveyed 1962
Revised 1987
Edition N/A
Copyright N/A
Levelled N/A

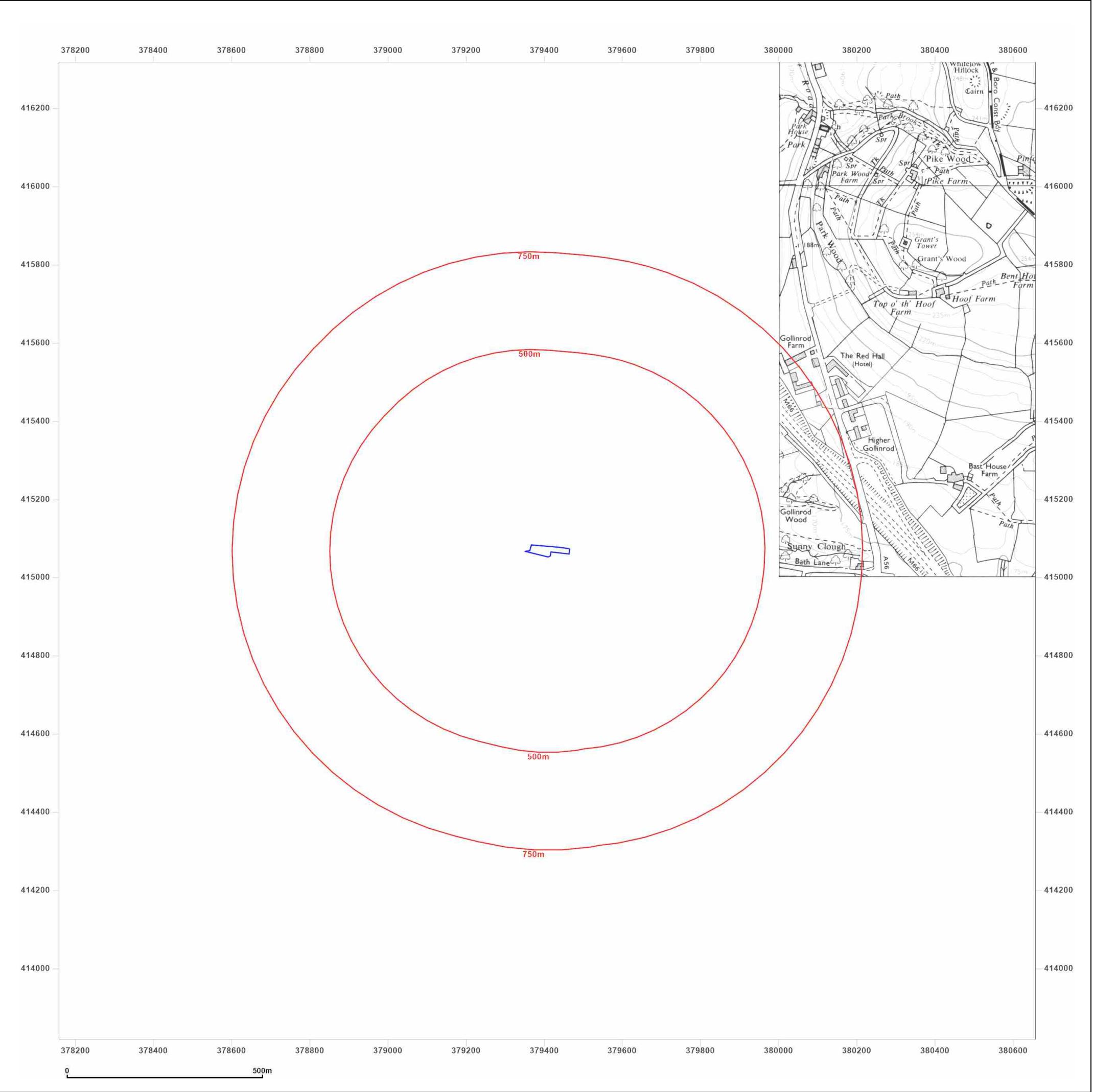


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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

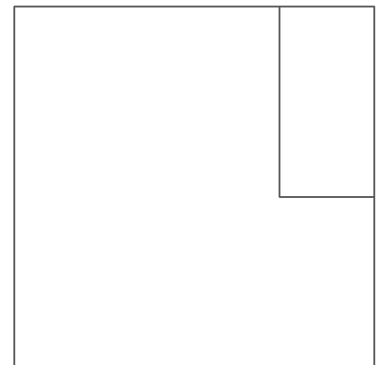
Map date: 1992

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1962
Revised 1992
Edition N/A
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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001

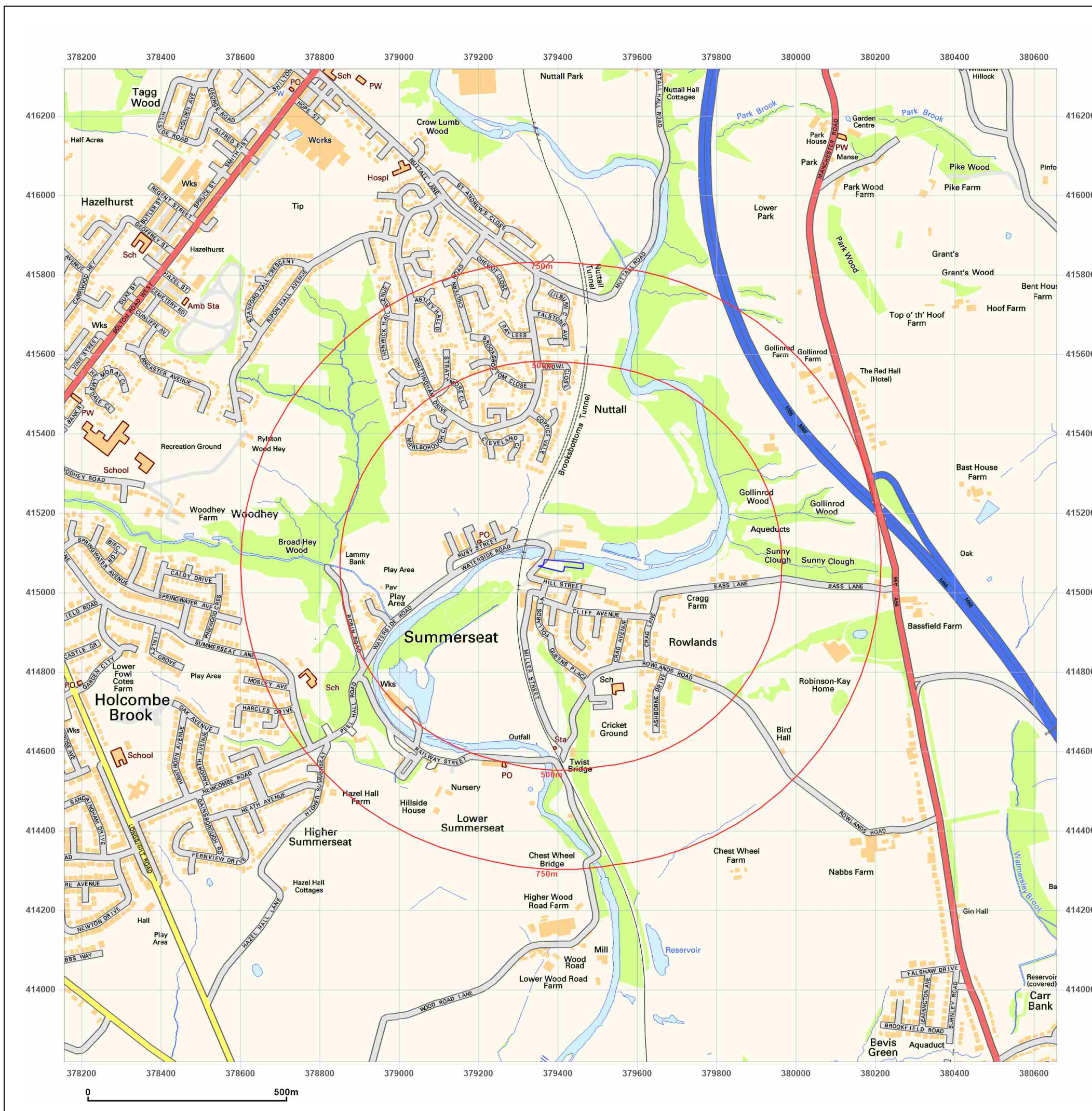


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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010

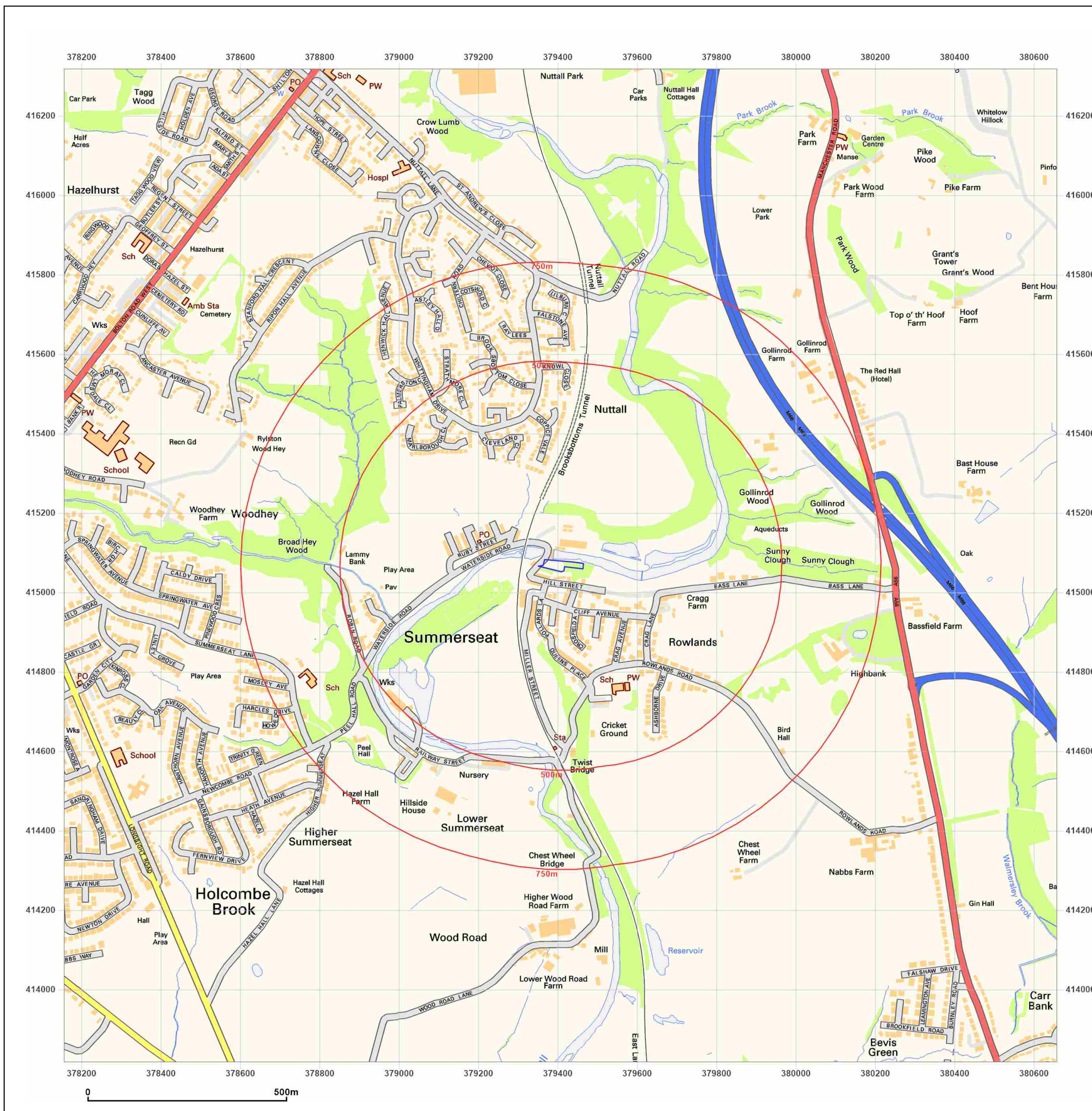


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Site Details:

Waterside, Kay Street

Client Ref: Waterside, Kay Street
Report Ref: GS-P8T-QXL-YVZ-CET
Grid Ref: 379407, 415068

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



2024



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