

SLADEN ASSOCIATES

**PHASE 1 GEO-ENVIRONMENTAL REPORT
Proposed Extensions
Site at Todmorden Road
Littleborough
Rochdale
Greater Manchester**

**Prepared for
Corrosion Resistant Products Ltd**

Date : January 2025

Job No : 24 2771

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Proposed Extensions
Site at Todmorden Road
Littleborough
Rochdale
Greater Manchester

Prepared for: Corrosion Resistant Products Ltd

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REPORT No 24 2771

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1 INTRODUCTION

Corrosion Resistant Products Ltd has instructed Sladen Associates to carry out a Phase 1 Geo-environmental Study of a site at Todmorden Road, Littleborough. The study was restricted to publicly available documentary sources of information and a site walkover survey and included no intrusive investigative work.

The study included a review of the history of the site based on available old Ordnance Survey Maps, a review of the site geology and a search for records of any licensed landfill sites, pollution incidents etc. within the vicinity of the site. This report presents the factual results of the study and a conceptual model of potential pollution linkages together with comment on the potential ground-related constraints that may relate to re-development of the site.

2 THE SITE

2.1 LOCATION

The site, which has an overall area of about 0.91 ha, lies on the eastern side of Todmorden Road (A6033) in Littleborough, some 5.5 km northeast of Rochdale Town Centre, at National Grid Reference 3941 4167, see Figures 1 and 2. The site includes a group of industrial buildings, with associated parking and yard areas, used by Corrosion Resistant Products Ltd. The site occupies a relatively flat area of land between Todmorden Road to the west and the River Roch immediately to the east. A tributary stream, known as the Town House Brook, forms the northern site boundary. There are other industrial facilities to the north, east and south of the site and there is residential development on the western side of Todmorden Road. The Lancashire & Yorkshire Railway line passes about 90 m to the east of the site and the Rochdale Canal passes further to the east.

A more detailed site description is provided later in the report.

2.2 PROPOSED DEVELOPMENT

It is proposed to extend two of the existing buildings. The larger extension will be on the northern side of the existing manufacturing building, in the central-northern site area and the smaller extension will be on the western side of the existing storage building, in the southern site area. Figure 3 shows the currently proposed development layout. A new parking area will be made to the north of the manufacturing building extension and a new access point will be made, slightly to the north of the existing access point of Todmorden Road. Some of the existing soft landscaped areas will remain around the site perimeter but most of the site will be hard covered following the development.

2.3 HISTORY

Copies of relevant historical Ordnance Survey (OS) maps are included in Appendix A, for reference. Aerial photography dating from 2000 to 2024 was also reviewed.

At the time of first Ordnance Survey in 1851, the site was without built development and was part of a larger field, which extended further to the south. The route of Todmorden Road, at that time known as 'Littleborough Road', was already an established thoroughfare to the east of the site and the River Roch, flowing southwards at this point, is shown immediately to the east. The Town House Brook is also shown immediately to the north of the site, passing in culvert underneath the roadway before feeding into the River Roch. In the wider area, the Lancashire & Yorkshire Railway and Rochdale Canal were already in place to the east and a number of buildings in Littleborough Town Centre were also already in place. A number of industries are shown in the wider surrounding area, including various mills, an iron foundry, a brick works and a number of collieries.

The 1890 mapping shows some residential and commercial development to have taken place to the south and southwest, but little change is shown to the site area. The southern boundary appears to have been formed by a fence line and row of trees at this time. The subsequent mapping shows further residential development on the western side of Todmorden Road and a tennis ground is shown on the land immediately to the south on the 1928 to 1930 mapping. Part of the River Roch appears to have been straightened near the southeastern site corner around this time.

Further industrial developments are shown to have taken place to the south of the site by the 1960s but little change is shown to the site itself until some time between 1968 and 1976, when a number of buildings were constructed on site. At this time, the buildings in the northern half of the site were apparently associated with a joinery works, whilst those in the southern site area were apparently used as a haulage depot. There were also apparently two small buildings in the northwestern site corner, possibly associated with the garage facility on the northern side of the Town House Brook. The industrial buildings on the eastern side of the River Roch are labelled as 'Portable Building Works' at this time.

Little change is then shown until sometime between 1983 and 1989, when the buildings in the central to southern site area were apparently removed and were replaced with two larger buildings, forming most of the existing building arrangement in the central site area. One of the garage buildings in the northwestern site corner was also removed around this time and the existing site entrance point, probably along with the current parking area, were established. The northern buildings are labelled 'works' and the southern half of the site was apparently still a depot at this time. One of the buildings on the eastern side of the River Roch is labelled as an electrical substation and there appears to have been at least one tank to the south of the substation, about 8 m to the east of the site. The 1993 mapping shows a new building to have been added in the southern site area and two small extensions are shown to the other site buildings. Further channel straightening appears to have taken place along the course of the River Roch adjacent to the southern site area. Apart from the removal of two small buildings in the northwestern site area, little change is shown to the site itself on the available mapping.

Aerial photography dated at 2000 shows most of the existing buildings to be in place. One of the buildings in the northeastern site area is no longer shown. A car park is shown in the northern part of the site and the remaining external parts of the site appear to be yard areas, which were sometimes used for material storage. The mobile extension on the northern side of the main building complex was added between 2000 and 2005. The southern building in the central site area appears to have probably had a cement-asbestos roof based on the earlier air photos and Street View images, but that

roof appears to have been replaced with a metal roof at some point between 2009 and 2011. The western half of this building appears to have been rebuilt between 2017 and 2019. Two temporary extension structures were added in the southern site area between 2018 and 2019. The northernmost part of the manufacturing building also appears to have had a cement-asbestos roof, which was replaced with a metal roof between 2021 and 2022. Another mobile building was added in the northeastern site area between 2022 and 2023 and little change is shown after that.

2.4 GEOLOGY

The site is shown on mapping published by the British Geological Survey (BGS) to be underlain by solid strata of the Woodhead Hill Rock of the Pennine Lower Coal Measures Formation, of Carboniferous Age. The Woodhead Hill Rock is a major sandstone unit and is stratigraphically below any coal seams of potential economic interest in the Productive Coal Measures. The unit is bound by two northwest-southeast trending faults further to the north and south of the study site. There is only one recorded coal seam within the Lower Coal Measures below the Woodhead Hill Rock, the Margery Coal, which being generally less than 0.2 m thick, was not worked by underground mining in the area. Although some thin coals may also be present in the underlying Millstone Grit strata, none was of economic interest in relation to underground mining.

The bedrock in the general area is shown to be overlain by natural drift deposits glacial clay till, which is in turn shown to be overlain on the site by recent alluvium, associated with the River Roch. The alluvium would be expected to include mainly soft organic clay and silt soils, with occasional sand and gravel units. Alluvial fan deposits are shown immediately to the northwest of the site. These deposits can contain layers of soft clay and silt with layers of sand and gravel. The site area is shown to be within the margins of a buried valley feature such that the overall thickness of superficial deposits could be great.

A number of cable percussive boreholes and trial pits have been historically put down near the eastern site boundary as part of the Environment Agency's 'River Roch Flood Alleviation Scheme' project. The exploration hole log records are held by the BGS. The trial pits were mostly terminated at shallow depth and provide limited information. Two of the deeper cable percussive boreholes put down as part of the wider project were within or close to the site area.

Borehole SD91NW117 was put down in the northeastern site corner and had 1.8 m of made ground, underlain by 'soft' clay down to 2.4 m, which was in turn underlain by peat down to 3.8 m. A unit of 'medium dense' gravel was encountered down to 5.3 m but this was underlain by 'soft to firm' clay down to the base of the borehole at 8 m. Groundwater was struck in the gravel unit at 3.8 m and the water level rose to 2.2 m after 20 minutes.

Borehole SD91NW122 was put down just to the south of the site and had 3.3 m of made ground underlain by 'loose' gravel down to 5.7 m, which was in turn underlain by 'soft' and 'soft to firm' silt with laminations of clay and sand down to the base of the borehole at 8 m. Groundwater was struck at 2.05 m and rose to 1.9 m after 20 minutes.

2.5 HYDROGEOLOGY

The bedrock strata below the site area are generically classified as a Secondary 'A' Aquifer by the Environment Agency, regardless of local lithology, as they are sometimes suitable for water abstraction, particularly for industrial purposes. The glacial till is classified as an Undifferentiated Secondary Aquifer and the overlying alluvium is classified as a Secondary 'A' Aquifer. There are no active groundwater abstraction licenses, potable or otherwise, within 2 km of the site but there are a number of historical

groundwater abstraction licences in the 2 km search radius (Appendix B). The nearest of these was some 0.5 km to the north of the site, for general secondary usage. One former potable groundwater abstraction is shown, some 1.3 km to the southeast of the site. The site position does not coincide with any groundwater source protection zones.

The nearest natural surface water features are the previously mentioned River Roch, immediately to the east of the site and the tributary stream known as the Town House Brook, which forms the northern site boundary. It is likely that near surface groundwater at the site would flow eastwards before discharging to the River Roch.

The site is shown, on mapping published by the Environment Agency, to be potentially prone to flooding from rivers.

2.6 POLLUTION INCIDENTS

Database searches suggest that there are five recorded pollution incidents within 250 m of the site, Appendix B, but none associated with the site itself. All of the incidents related to release of contaminants into the nearby surface water features and as such, it is not considered that these incidents represent any significant hazard in relation to site ground conditions.

2.7 NEARBY LANDFILL SITES

Searches have revealed no evidence of current or former landfills within 250 m of the site, Appendix B.

2.8 RADON

Generally, the site is not in an area where radon protection measures should be provided for new development (Appendix B). Part of the northwestern site area is in an area where radon action levels are expected to be exceeded in 1 to 3 % of properties, refer Appendix B. For this level of risk, radon protection measures are not normally mandatory for new non-residential buildings.

2.9 MINING

The site is not in an area where underground coal mining has been undertaken in the past (Refer: [Interactive Map Viewer | Coal Authority \(bgs.ac.uk\)](https://www.bgs.ac.uk/interactive-map-viewer/), accessed January 2025). As mentioned previously, the Woodhead Hill Rock is stratigraphically below any coal seams of potential economic interest in the Productive Coal Measures or deeper strata and, as such, the potential for unrecorded mining to have taken place below the site may be discounted. The site is not in a Coal Mining Development High Risk area as defined by the Coal Authority.

2.10 OBSERVATIONS MADE DURING SITE WALKOVER STUDY

A site walkover survey was undertaken on 18th December 2024. Site photographs are included in Appendix C and photograph locations are shown on Figure 2.

The site occupies an area of land between Todmorden Road to the west and the River Roch to the east (Figure 2) and includes a collection of buildings currently used by a pipe manufacturing company. The site is accessed via two entrance gateways off Todmorden Road to the west (Panoramic Photograph 23). The western and southern site boundaries are mostly fenced (Panoramic Photograph 17) but the eastern site boundary is partly delineated by a wall which separates the site from the bank of the River Roch (Photograph 23). The northern site boundary is formed by a tributary of the River Roch, known as the Town House Brook (Photograph 16). There is a grass covered area with a number of mature trees in the northern part of the site (Panoramic Photographs 17 to

19). To the south of the grassed area, there is an asphalt surfaced staff/visitor car park (Panoramic Photograph 20) but otherwise, apart from a gravel surfaced area in the southwestern site corner (Panoramic Photograph 24), the site is almost entirely concrete covered (Panoramic Photographs 22 & 23). There is a strip of grass and vegetation along the western edge of the site.

Topographic levels on the site are generally flat and level (Panoramic Photograph 17), in keeping with the nearby surrounding area. Some ground raising and levelling has probably taken place historically in the eastern site area, to create a level platform for the current and former buildings on the site and, probably, to prevent flooding. This is evident in the northeastern site area where the eastern end of the car park appears to have been built out (Panoramic Photograph 16). There are short slopes down to both the river (Photograph 23) and tributary stream (Photograph 16). The channel of the River Roch to the east of the site has historically been straightened (Photograph 23). The yard area on the eastern side of the main buildings steps down slightly to the south (Photographs 19 & 21). The commercial property to the south is slightly lower than the southern site area and the change in levels is probably accommodated by a short retaining wall along the southern site boundary, although this was not visible from the site (Photograph 24).

The main site buildings comprise a number of portal framed industrial structures, each with pitched corrugated metal roofs and walls (Panoramic Photograph 23), sometimes with brick or concrete block wall elevations (Panoramic Photographs 8, 20 & 24). There are offices in the northern part of the manufacturing building (Panoramic Photograph 1) and there is a mobile office block (Photograph 18). There is also a mobile building to the east of the offices, which was being used as a canteen at the time of recent walkover (Panoramic Photograph 16). The two other main buildings in the central to southern site areas also feature temporary extensions (Photographs 12 & 13).

Most of the pipe work manufacturing process takes place in the northernmost building (Panoramic Photograph 4), which includes a moulding oven and pipe extrusion machine at the northern end of the workshop (Panoramic Photograph 3), a sandblasting booth (Photograph 4) and various other pieces of machinery (Panoramic Photograph 4). There is a second oven/furnace in the centre of the building which is accessed via a raised platform (Photographs 6 & 7) and there is a mezzanine at the western end of the building (Photograph 5). The first floor of the mezzanine was being used to store tools (Panoramic Photograph 7) but also included a small flammable liquid storage cupboard (Photograph 8). It was not possible to see inside the cupboard, but it is understood that the stored liquids include small cans and bottles of paint and oil. Otherwise, the only stored chemicals noted within the manufacturing building were PTFE powders stored in the northern part of the building (Photograph 3). A water tank was noted in the southwestern workshop (Panoramic Photograph 5). A ventilation/dust extraction system was noted outside the southern wall of the manufacturing building along with a number of IBCs (Photograph 9), which apparently contain water.

The central building contains various product assembly areas (Panoramic Photographs 9 to 11), as well as a paint spraying area (Photograph 11). The southernmost building is used for product storage (Panoramic Photograph 14) and the temporary structure on the northern side of the southern building is used for storing PTFE powders as well as other pieces of equipment and pipework associated with the manufacturing process (Panoramic Photographs 12 & 13). There is a small office mezzanine at the northern end of the product storage building.

At the time of recent walkover, the external yard areas were either empty (Panoramic Photograph 22) or being used to store pipework and associated equipment (Panoramic Photograph 21). Some wooden pallets, boxes and shipping containers were also seen in

other areas of the site (Panoramic Photograph 24). Various manhole covers were noted externally to the buildings (Photograph 20) and evidence of other underground service runs, including gas and electric feeds to the buildings, were also identified (Photograph 14).

Allowing for the observations noted above, no areas of potentially significant ground contamination were noted during the walkover survey.

3 GEO-ENVIRONMENTAL CONSIDERATIONS

3.1 GEOTECHNICAL CONSIDERATIONS

From the information available, solid strata, comprising mainly sandstone underlie the site. Bedrock in the site area may be overlain by natural superficial deposits comprising glacial clay till, which is in turn expected to be overlain by recent alluvium. The natural weathered bedrock and overlying glacial deposits would be expected to provide suitable founding strata for conventional shallow foundations, if present near surface, however, based on nearby borehole records, there is expected to be a significant thickness of made ground and/or soft alluvial soils on the site. In that case, some form of deep foundations, such as piles, or ground improvement may be required to support structural loads.

Based on the proximity of the River Roch along with data from the nearby boreholes, groundwater is expected to be relatively shallow below the current study site.

Foundations for the existing and former buildings may represent obstructions that need to be broken out within new foundation excavations.

Depending on the final level of the proposed new car park/roadway and its proximity to the channels of the Town House Brook and River Roch, some small retaining walls could potentially be locally required to accommodate the change levels.

3.2 ENVIRONMENTAL CONSIDERATIONS

3.2.1 OVERVIEW

3.2.1.1 GROUND CONTAMINATION

The site history has revealed no land uses that would be associated with a very high potential for land contamination, either on or adjacent to the study area. The site was without built development before being redeveloped for commercial use, initially with a joinery in the northern site area and a depot in the southern site area. A number of the previous buildings were subsequently removed before the existing building arrangement and present site use was established.

With regards to the current site use, the operational workshop and storage buildings are well contained and have good condition concrete bases. It is understood that there are no above or below ground fuel storage tanks associated with the current operations.

It is not known if the site was hard covered at the time of the previous joinery and depot uses and no other information regarding those operations was available at the time of preparing this report.

Any current or former vehicle access and parking areas could be associated with some potential for local limited spillage of fuels and oils to have occurred but that is unlikely to have resulted in significant soil impaction in hard covered areas.

Some ground levelling has probably taken place, in at least the eastern site area, and some locally deep made ground may be present. There may be some hardcore material

incorporated into gravel surfaced areas and underneath any existing and former building floor slabs. Any made ground could potentially include some waste materials such as slag and ash.

The age of the former buildings and some of the existing buildings on the site is such that they may have been associated with some asbestos-containing materials, although none was noted during the recent walkover survey. Based on the air photos and Street View images, some of the buildings do appear to have previously featured cement-asbestos roofs.

There are no nearby off-site land uses that have been identified that would potentially be associated with any significant risk of contamination of the site soils.

There was previously a small electricity sub-station some 14 m to the northeast of the site at its nearest point, on the eastern side of the River Roch. Such facilities can use cooling oils that, in the past, could have included polychlorinated biphenyls (PCBs). As the facility was not actually on the site and oils would not be particularly mobile in the soil environment, it is not considered that any significant potential exists for associated soil impaction in the site area. An above ground tank was also previously situated on the eastern side of the River Roch, some 8 m to the east of the site. In both cases, there is unlikely to be any hydraulic connectivity between the site and those features as near surface groundwater on the eastern side of the river would be expected to discharge to the River Roch.

3.2.1.2 GROUND GAS

Searches have revealed no evidence of current or former landfills within 250 m of the site. Some made ground and alluvium, which may include peat, are likely to be present on site and previous experience has shown that elevated concentrations of biogas (methane and carbon dioxide) can develop in the ground in such circumstances although emission rates would be expected to be very low.

The site is not in an area where radon-protection measures would normally be required for non-residential buildings.

The site is stratigraphically below any coal seams of potential economic interest in the Productive Coal Measures and there is no reason to consider that any mining has occurred below the site. The shallow water table would preclude lateral advective flow of gas from distant off-site sources. As such, mine-gas may be discounted as a potential hazard for the study site.

3.2.2 CONCEPTUAL MODEL OF POTENTIAL POLLUTION LINKAGES

3.2.2.1 GENERAL

Current practice with regard to contaminated land is based on development of a conceptual model of potential pollution linkages. This recognises that for any significant risk to be present there must be a 'source' of contamination, such as elevated levels of toxic substances in the ground, a 'receptor', such as a site user and a 'pathway' whereby the receptor could be exposed to the source to a degree that there is a significant risk of potential harm.

3.2.2.2 SOURCES

Based on the above discussion, the risk of significant sources of ground contamination being present within the site soils is considered to be low. Vehicle access areas in the site could be associated with some local historic spillages of fuels and oils. It is possible that potentially contaminated made ground, such as ash and slag was introduced as a

base course in some areas and during site levelling. Such materials could exhibit elevated metal and possibly PAH concentrations although, by their nature, leachable concentrations are likely to be low. Some asbestos containing building materials may have potentially been used on site but the potential for free fibres to enter the ground from such sources is low unless demolition practices are not carefully controlled.

Although elevated concentrations of biogas (methane and carbon dioxide) may be present in the made ground and underlying alluvium, no potentially significant on-site or nearby source of high volumes of bio-gas generation has been identified. The site is not in an area where radon-protection measures would normally be required for non-residential buildings.

3.2.2.3 RECEPTORS

Potential receptors with respect to any ground contamination that may be present include site users and the wider environment. The proposed commercial usage would be relatively insensitive to risks associated with ground contamination and ground gas.

With regard to the wider environment, the bedrock and natural superficial strata below the site area are designated as Secondary Aquifers but there are no licensed groundwater abstractions within a credible influencing distance. There are two surface water features in the immediate vicinity of the site and these would probably be considered the critical receptors with regard to controlled waters.

3.2.2.4 PATHWAYS

In general, site users could potentially be exposed to ground contamination through direct contact with soil, dust and vapour inhalation or dust ingestion. However, no new soft landscaped areas are planned, and the operational site areas will be hard covered so that pathways associated with soil contact and dust are unlikely to be significant. As no private residential development with gardens is planned, ingestion of soil attached to vegetables and of vegetables that might have taken up some contamination from the ground are not viable pathways. Vapour inhalation outdoors is rarely a significant exposure pathway so that the only potentially significant exposure pathway would likely be through inhalation of vapours indoors, if high levels of volatile compounds were present, which is not expected.

With regard to controlled waters, leachable contaminants, if present in the near surface soils, could potentially migrate down to the water table and migrate in the dissolved phase until discharge to the surface water system, although some attenuation would occur prior to discharge. As the study area will be mostly hard covered following development, infiltration of precipitation and hence leaching of potential contaminants will be very low as run-off would be directed to the storm sewer system.

Ground gas, if present under pressure, could enter buildings via cracks and joints in floor slabs etc.

3.2.2.5 VIABLE POLLUTION LINKAGES AND PRELIMINARY RISK ASSESSMENT

In view of the assessed low potential for sources of ground contamination and likely absence of significant exposure pathways, there is considered to be very low risk associated with exposure of site users to ground contamination at the preliminary risk assessment stage.

In view of the likely absence of sources of significant leachable contamination on site, hard cover nature of the proposed development but relatively sensitive site location, there is considered to be a low risk to controlled waters.

Given the likely absence of significant sources of significant volumes of gas generation on or near the site and low sensitivity of the commercial usage, real risks associated with ground gas are judged to be very low.

Groundworkers may be exposed to site subsoils on a short-term basis but at present there is no reason to consider that other than routine precautions would be required by way of protection.

3.3 REQUIREMENTS FOR INTRUSIVE INVESTIGATION

It is recommended that an intrusive ground investigation should be carried out prior to final design and re-development of the site to allow detailed design of foundations, site drainage etc and to provide information concerning potential land contamination. Based on the acquired information, more detailed risk assessments should be undertaken with respect to potential impacts on site users and controlled waters.

3.4 POTENTIAL MITIGATION MEASURES

Subject to the results of intrusive investigation and subsequent risk assessments, some mitigation measures may be required to allow safe re-development of the site. These may include the following:

- Possible need for deepened foundations, such as piles, to support structural loads.
- Possible need to break out any pre-existing foundations if these are found to extend into the footprint of the extensions.
- Possible need for some small retaining walls to support the riverbank adjacent to the new car park.
- Possible need for removal or treatment of locally impacted near surface soils, if present, particularly if any evidence of fuel or oil impaction is found.
- Need for a discovery strategy to be in place during groundworks to handle any unexpected, significant ground contamination encountered.

4 CONCLUSIONS

Natural ground conditions at the site are expected to comprise weathered sandstone bedrock possibly overlain by glacial clay till, which is in turn expected to be overlain by recent alluvium associated with the River Roch. Depending on actual ground conditions at the site, some form of deep foundations, such as piles, may be required to support structural loads.

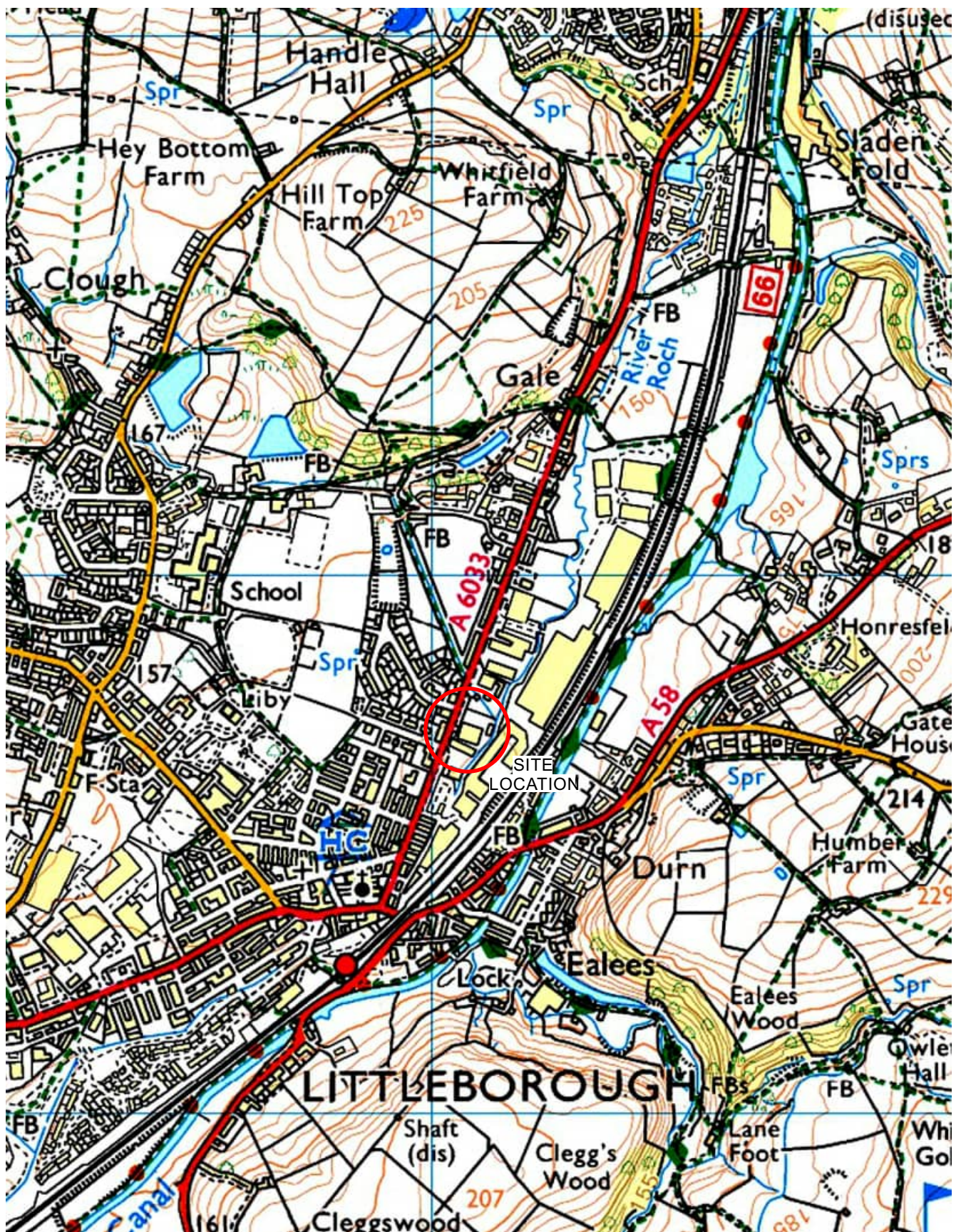
There is some potential for local ground contamination but apart from visual surface observations no site-specific data are available. Ground gas is not considered to be a significant hazard in relation to the proposed commercial development.

It is recommended that an intrusive ground investigation should be carried out prior to detailed design and re-development of the site to provide data for foundation design and allow more detailed design and risk assessments to be undertaken with respect to possible land contamination.

Subject to the results of the intrusive investigation, some remedial precautions may be required for the proposed development, as detailed in the report.

Subject to the potential need for the above precautions, the present study has shown no reason why the site could not be safely re-developed for the proposed use.

FIGURES



Reproduced from the Ordnance Survey map
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SITE LOCATION PLAN

**SLADEN
ASSOCIATES**

Report No
24-2771

Project
Site at Todmorden Road
Littleborough
Rochdale

Figure
1



Reproduced from the Ordnance Survey map
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KEY



Panoramic Photograph



Panoramic Photograph - First Floor



Photograph



Photograph - First Floor



SITE LAYOUT PLAN WITH PHOTOGRAPH LOCATIONS

**SLADEN
ASSOCIATES**

Report No
24-2771

Project
Site at Todmorden Road
Littleborough
Rochdale

Figure
2



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PROPOSED SITE LAYOUT PLAN

SLADEN ASSOCIATES

Report No
24-2771

Project
Site at Todmorden Road
Littleborough
Rochdale

Figure
3

APPENDIX A HISTORICAL MAPS

Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

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
Levelled N/A

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

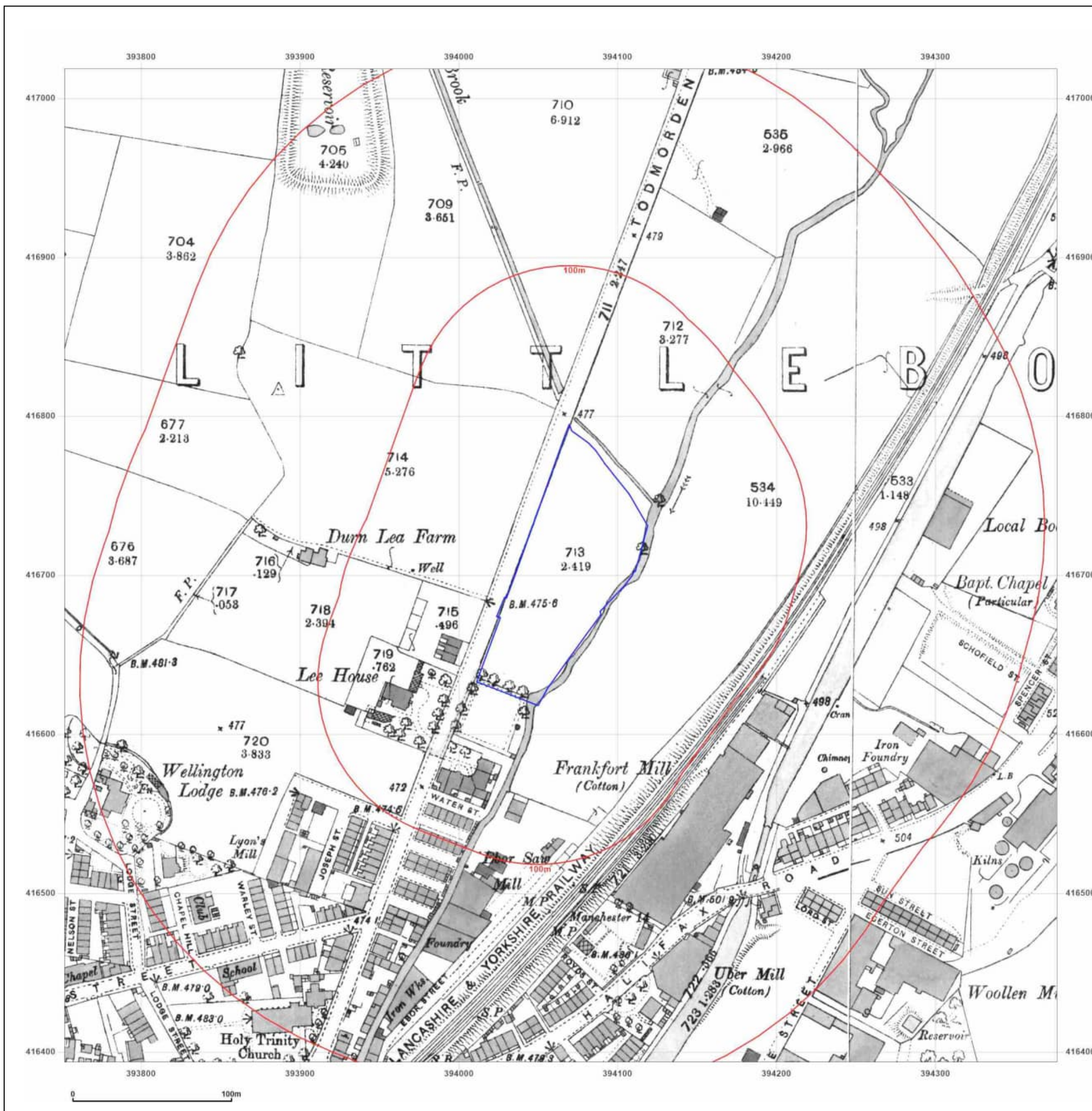


Produced by
Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

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Production date: 14 December 2024

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1910
Edition N/A
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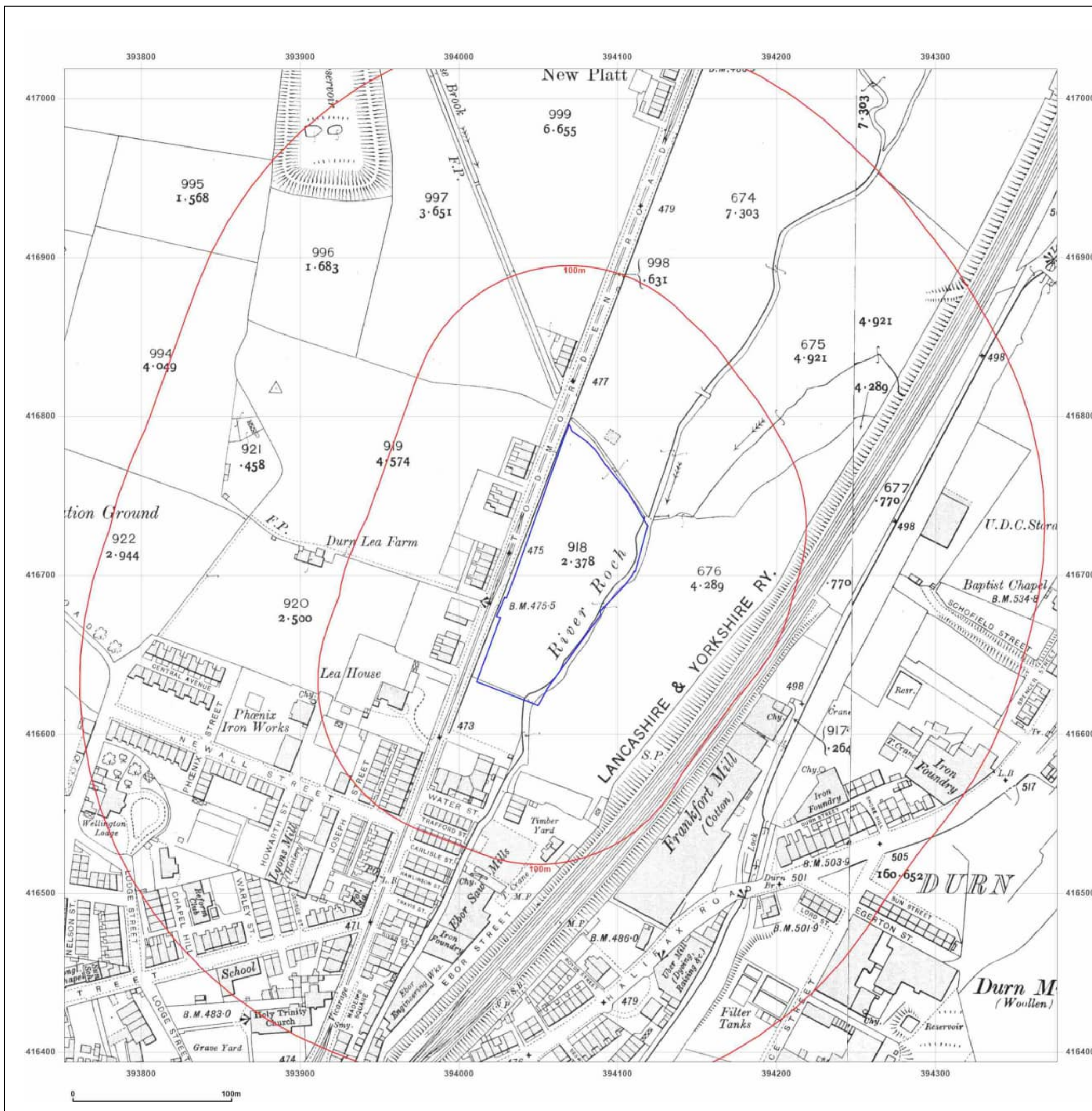


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Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1928-1930

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1930
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1928
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A



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Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1937

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1937
Revised 1937
Edition N/A
Copyright N/A
Levelled N/A

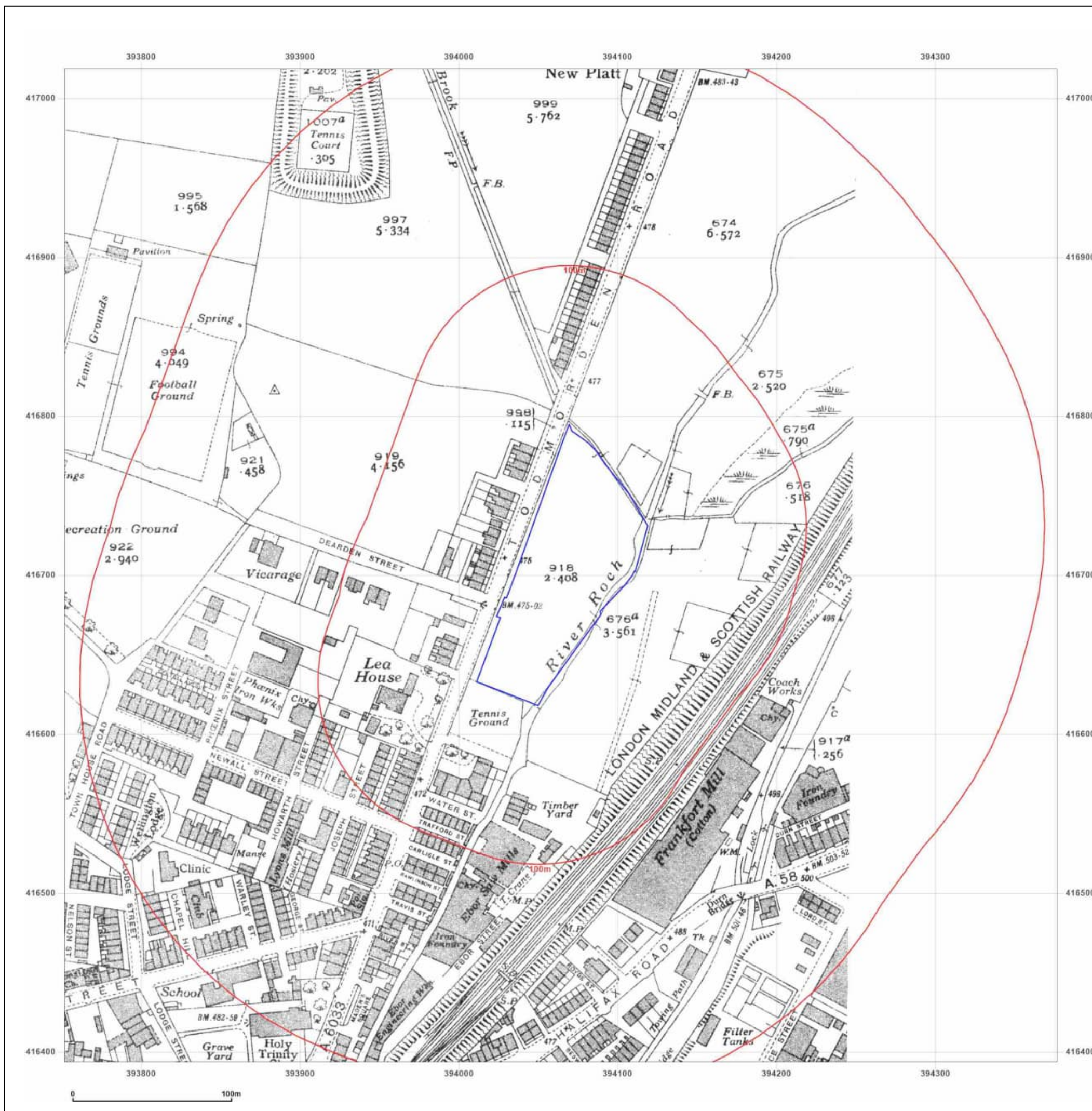


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Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1960-1961

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1960
Levelled 1956

Surveyed 1959
Revised 1959
Edition N/A
Copyright 1960
Levelled 1956

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1929

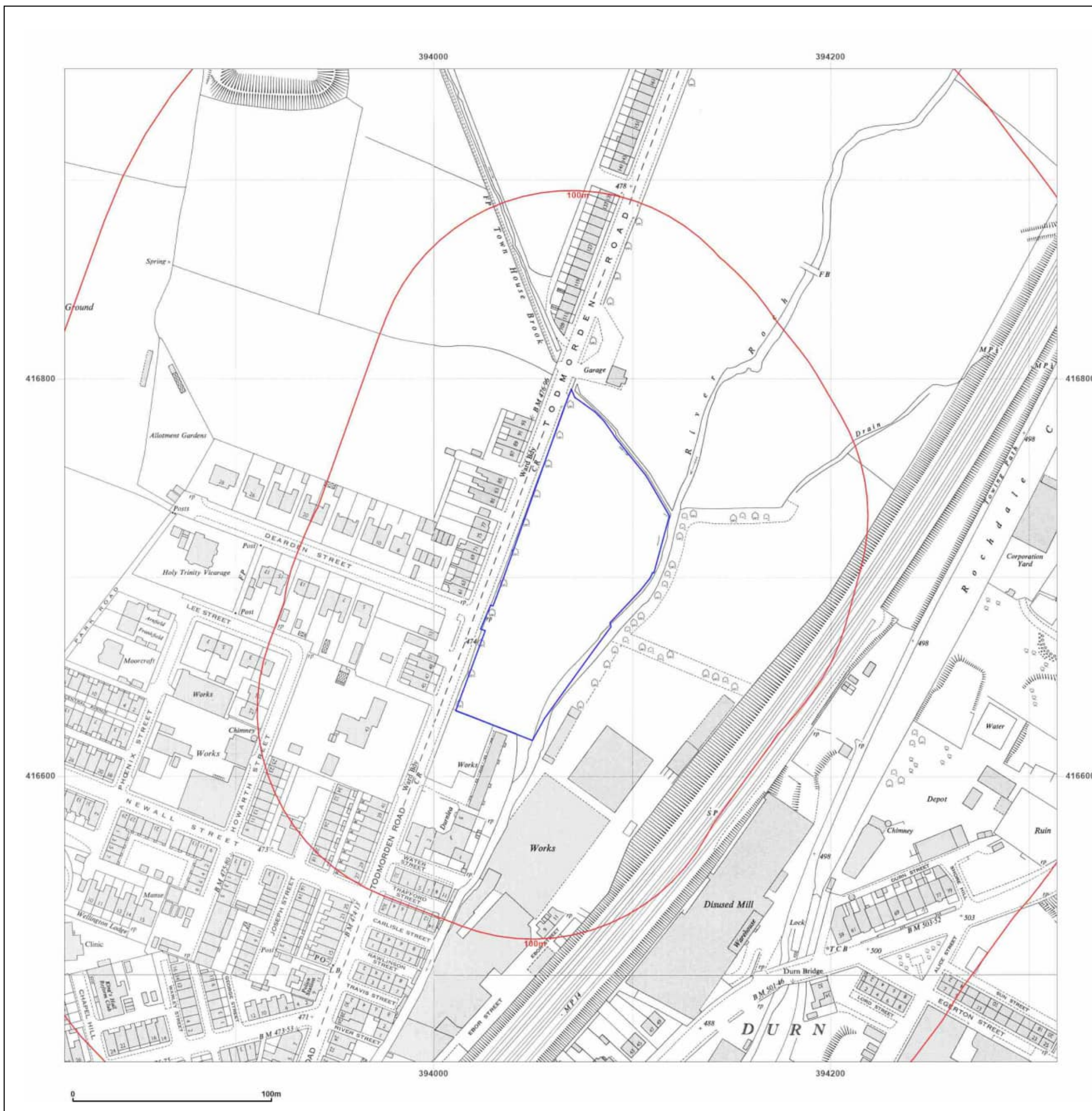


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1961-1964

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1962
Revised 1962
Edition 1964
Copyright 1964
Levelled 1956

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1962

Surveyed 1959
Revised 1959
Edition 1961
Copyright 1961
Levelled 1957

Surveyed 1962
Revised 1962
Edition 1964
Copyright 1964
Levelled 1956

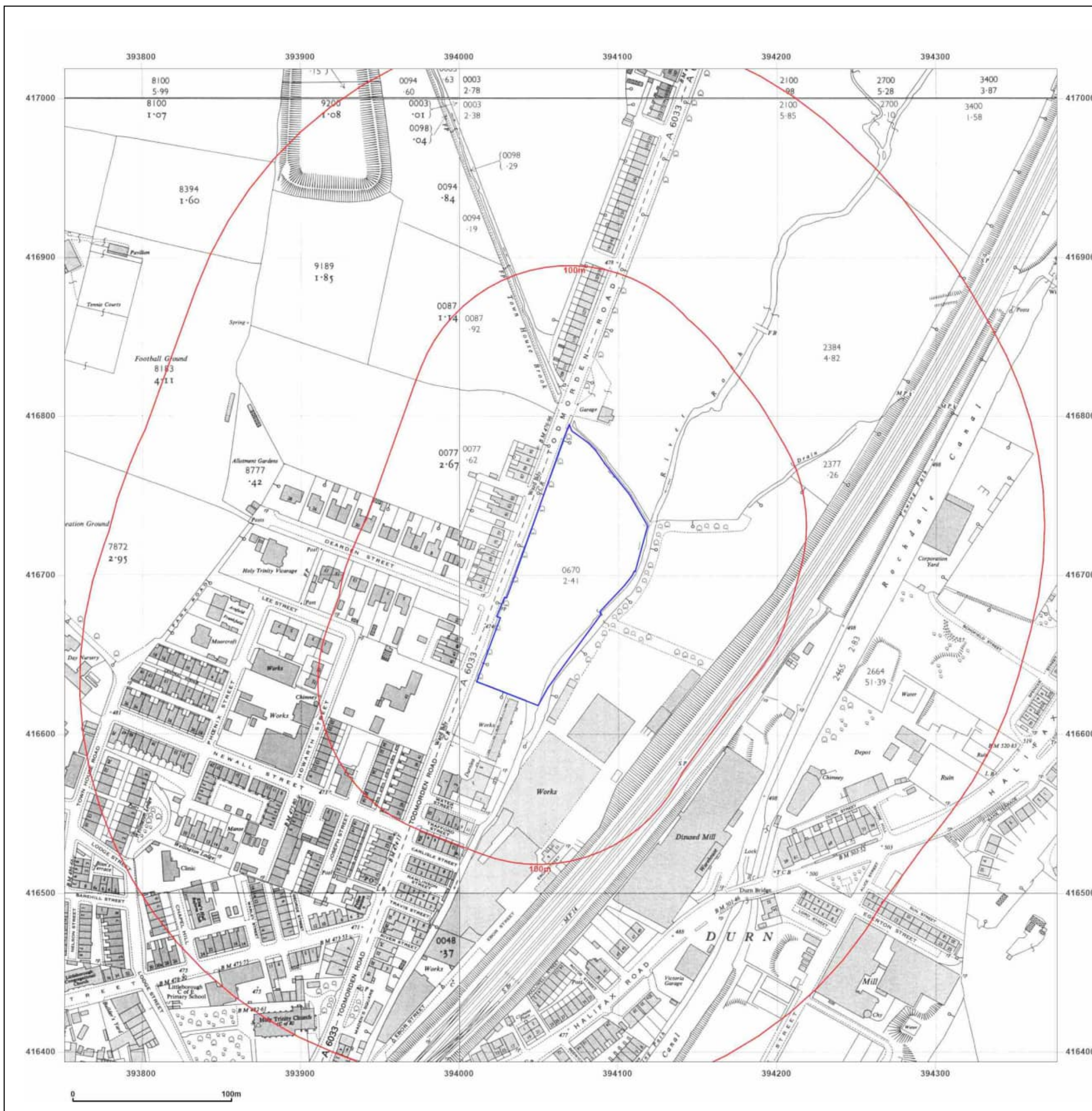


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1961-1965

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1965
Edition N/A
Copyright 1965
Levelled 1962

Surveyed 1960
Revised N/A
Edition N/A
Copyright 1961
Levelled 1956

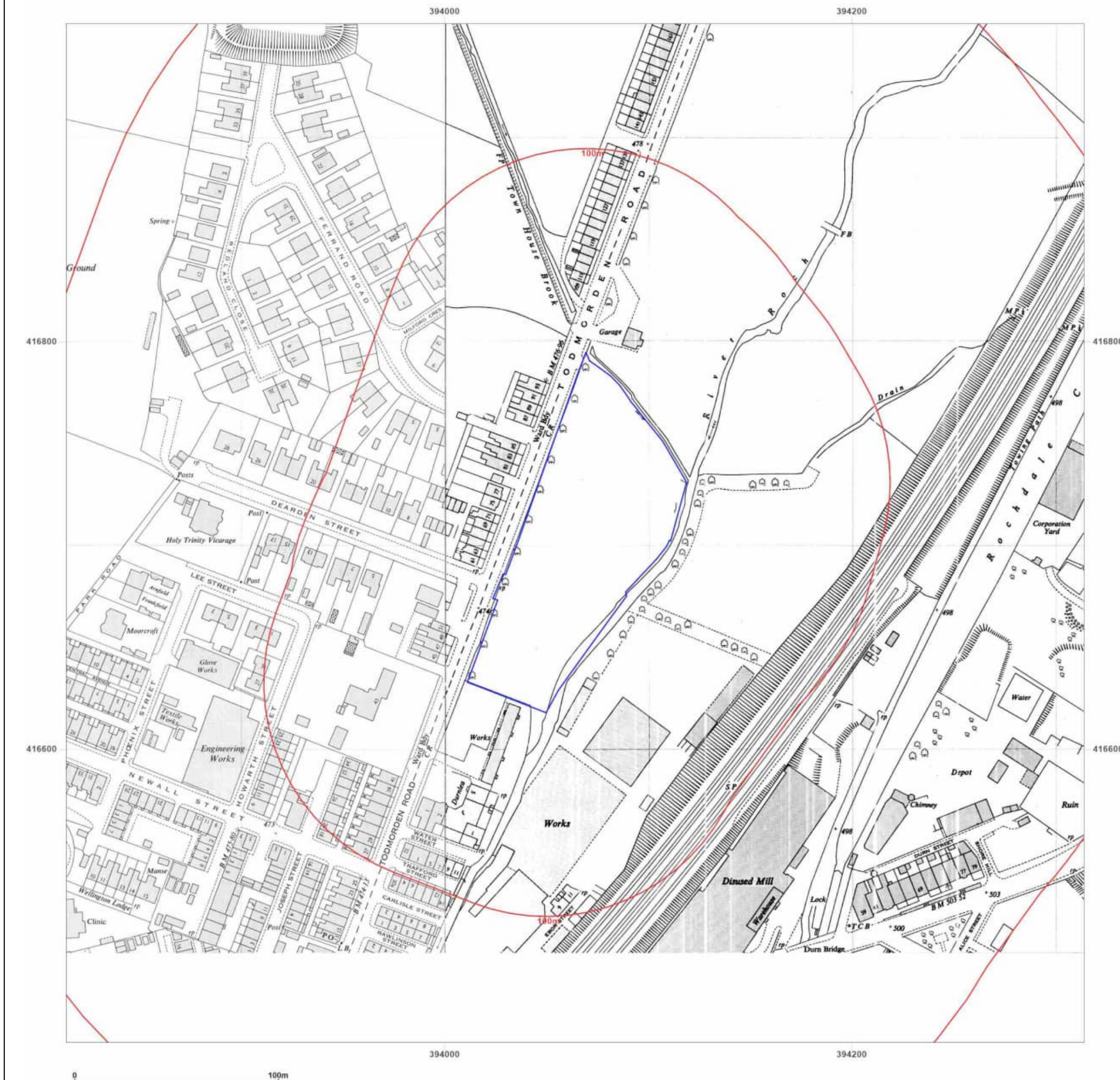


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Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1975-1976

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1960 Revised 1974 Edition N/A Copyright 1975 Levelled 1962	Surveyed N/A Revised N/A Edition N/A Copyright 1976 Levelled N/A
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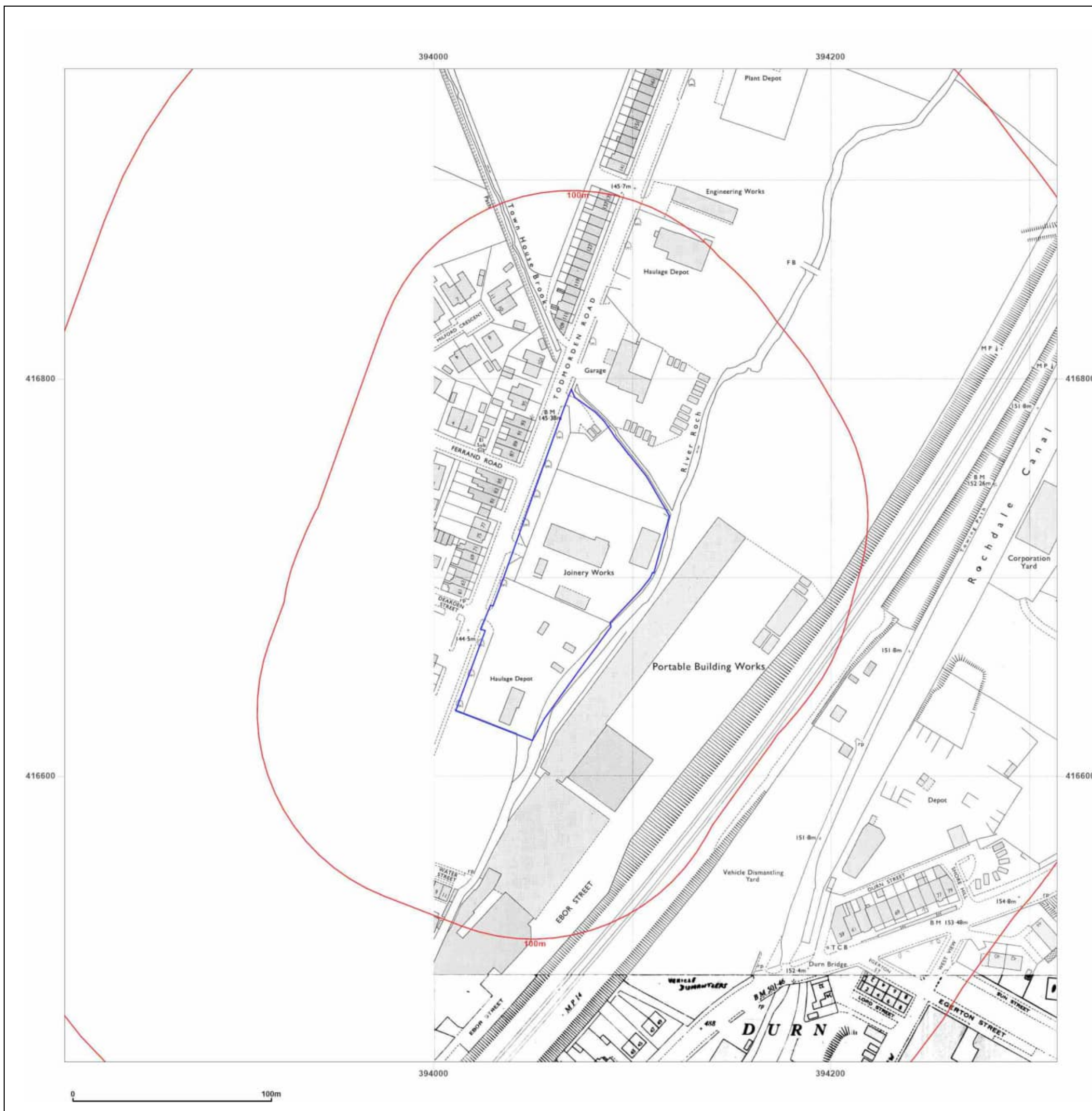


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Site Details:

Site at Todmorden Road,
Caldermoor, Littleborough,
Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1976

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
Edition N/A
Copyright 1976
Levelled N/A

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1976
Levelled N/A

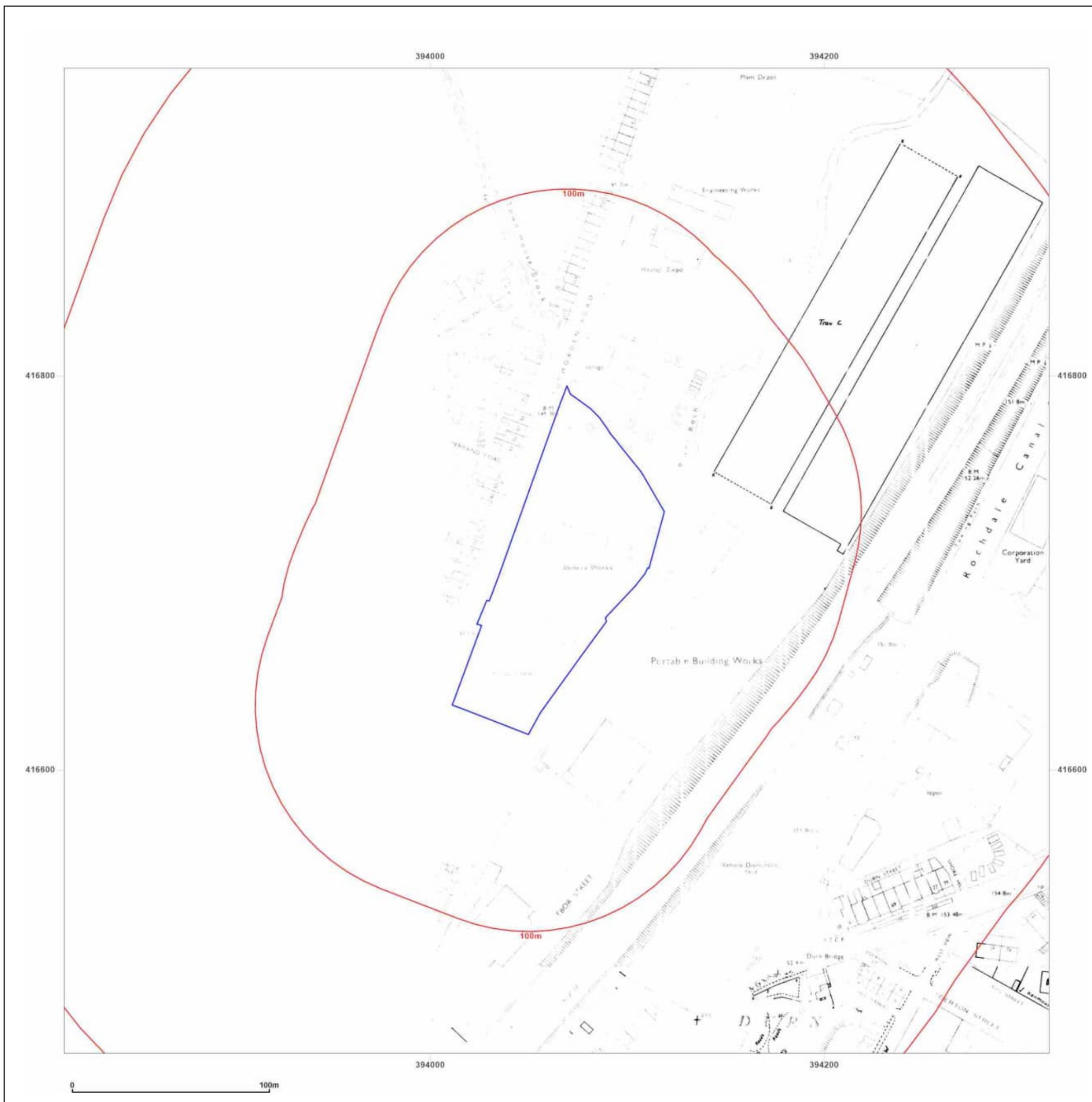


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1973-1977

Scale: 1:1,250

Printed at: 1:2,000



	Surveyed N/A Revised N/A Edition N/A Copyright 1973 Levelled N/A
	Surveyed 1960 Revised 1975 Edition N/A Copyright 1977 Levelled 1929

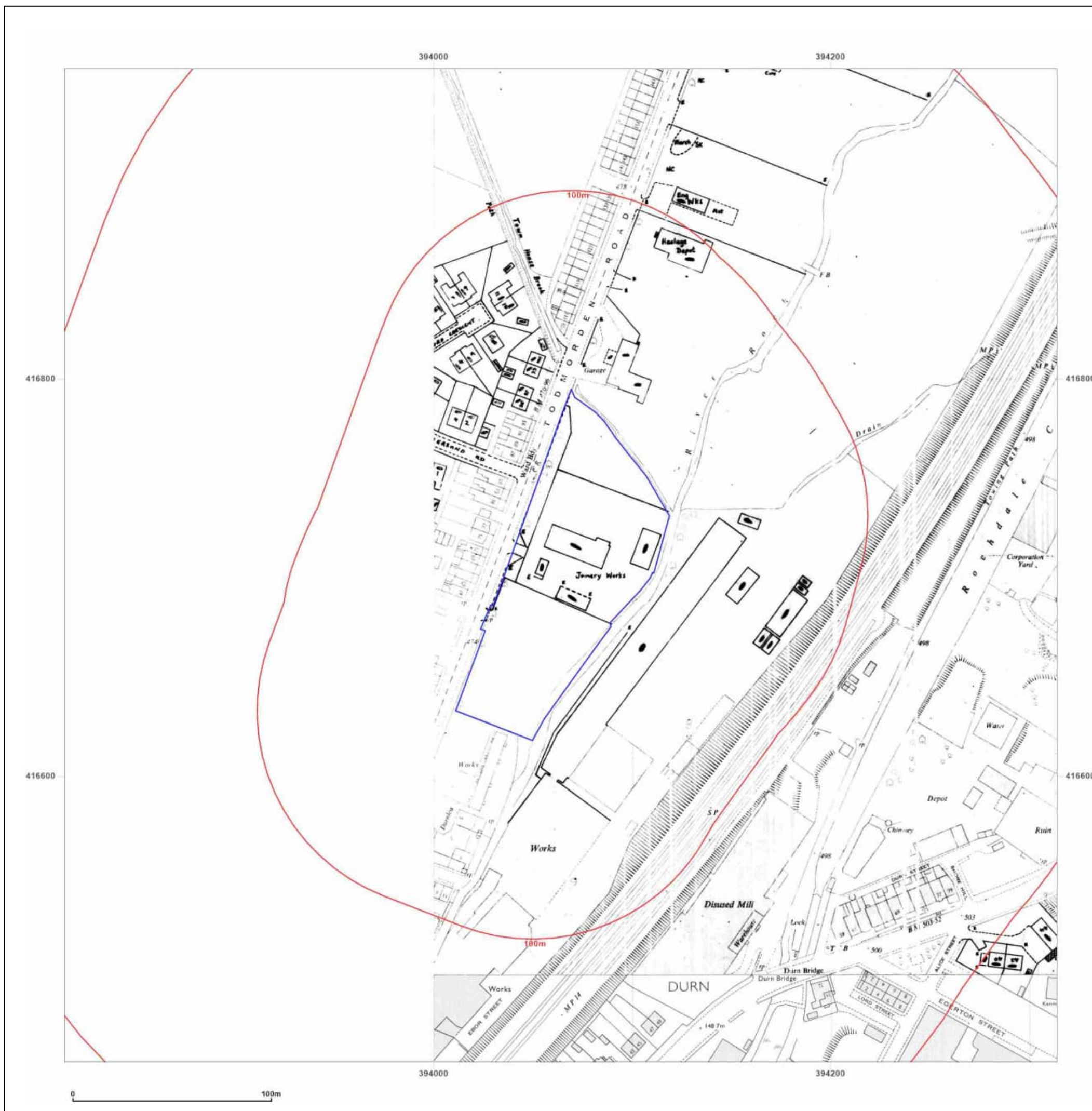


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1983-1988

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
Revised 1988
Edition N/A
Copyright 1988
Levelled 1962

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

Surveyed 1956
Revised 1985
Edition N/A
Copyright 1985
Levelled 1956

Surveyed 1962
Revised 1988
Edition N/A
Copyright 1988
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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1988-1992

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1962
Revised 1989
Edition N/A
Copyright 1989
Levelled 1962

Surveyed 1956
Revised 1988
Edition N/A
Copyright 1988
Levelled 1956

Surveyed 1962
Revised 1988
Edition N/A
Copyright 1988
Levelled 1962



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Site Details:

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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1992

Scale: 1:1,250

Printed at: 1:2,000



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

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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
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Surveyed 1993
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Edition N/A
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Site Details:

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OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised N/A
Edition 1851
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Levelled N/A



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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

Printed at: 1:10,560



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

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

Surveyed 1890
Revised 1890
Edition N/A
Copyright N/A
Levelled N/A

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

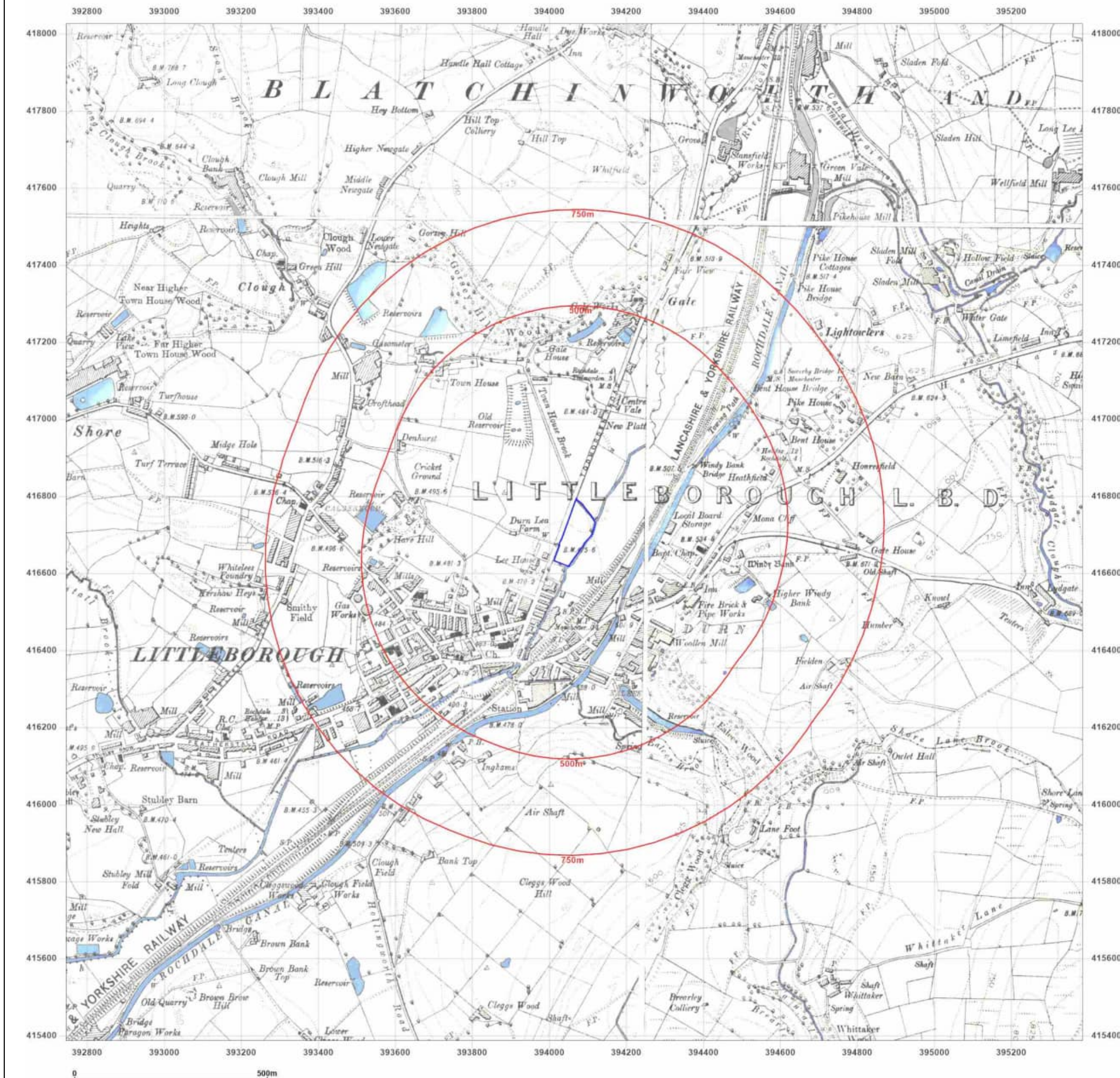


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Site Details:

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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1892

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

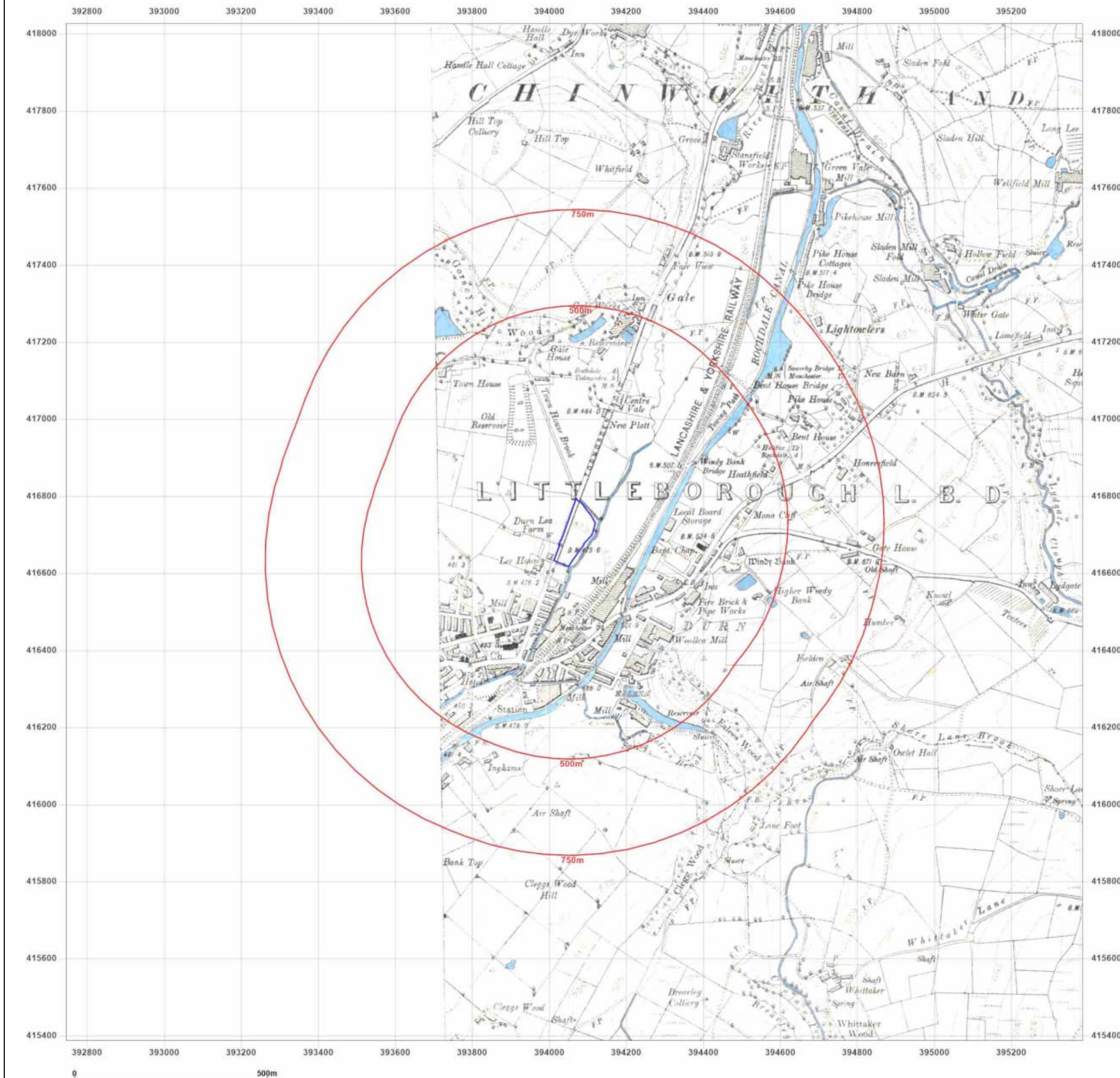


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1908-1911

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1847
Revised 1909
Edition 1911
Copyright N/A
Levelled N/A

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

Surveyed 1847
Revised 1909
Edition N/A
Copyright N/A
Levelled N/A

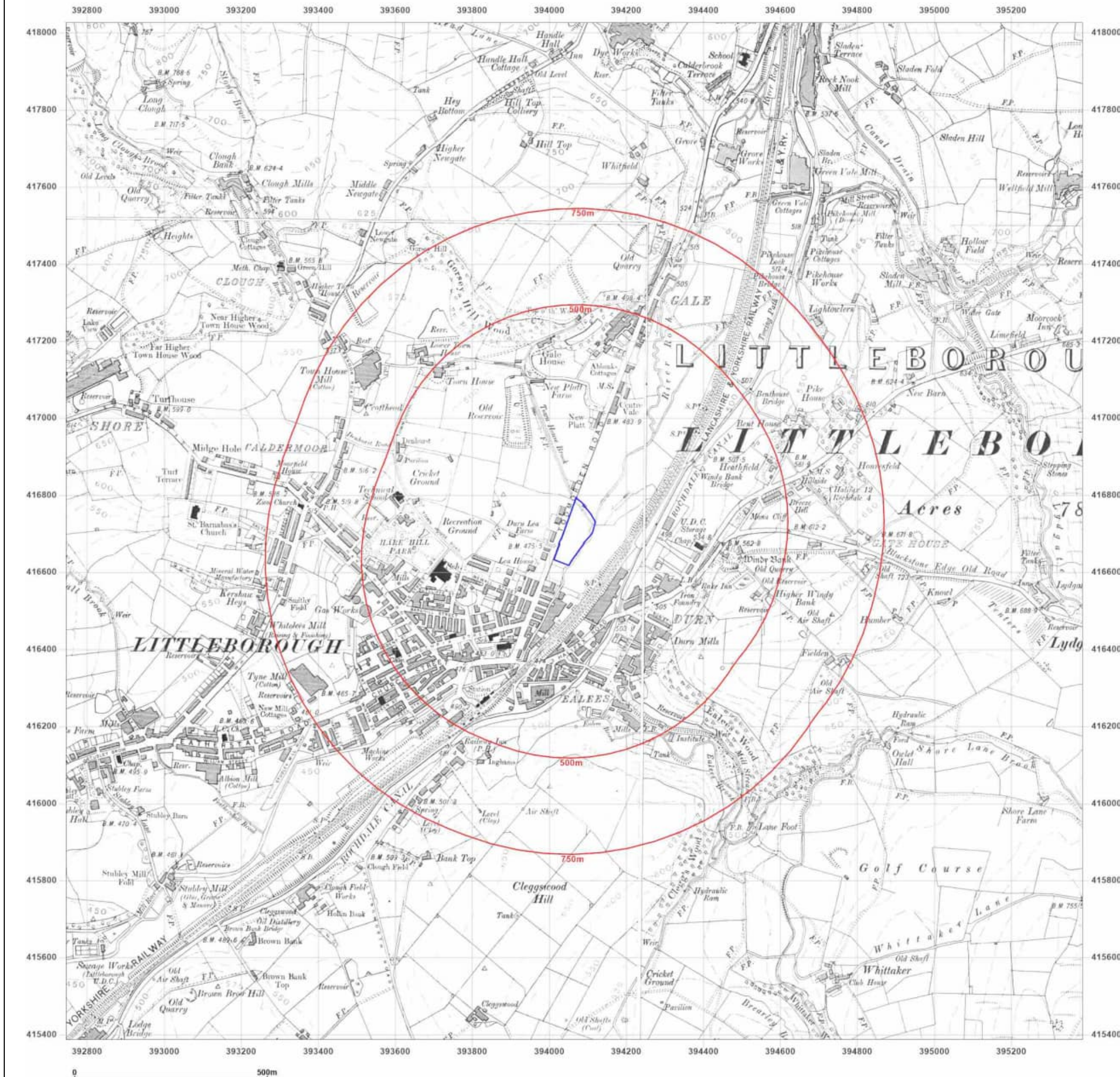


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1911

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1849
Revised 1911
Edition N/A
Copyright N/A
Levelled N/A

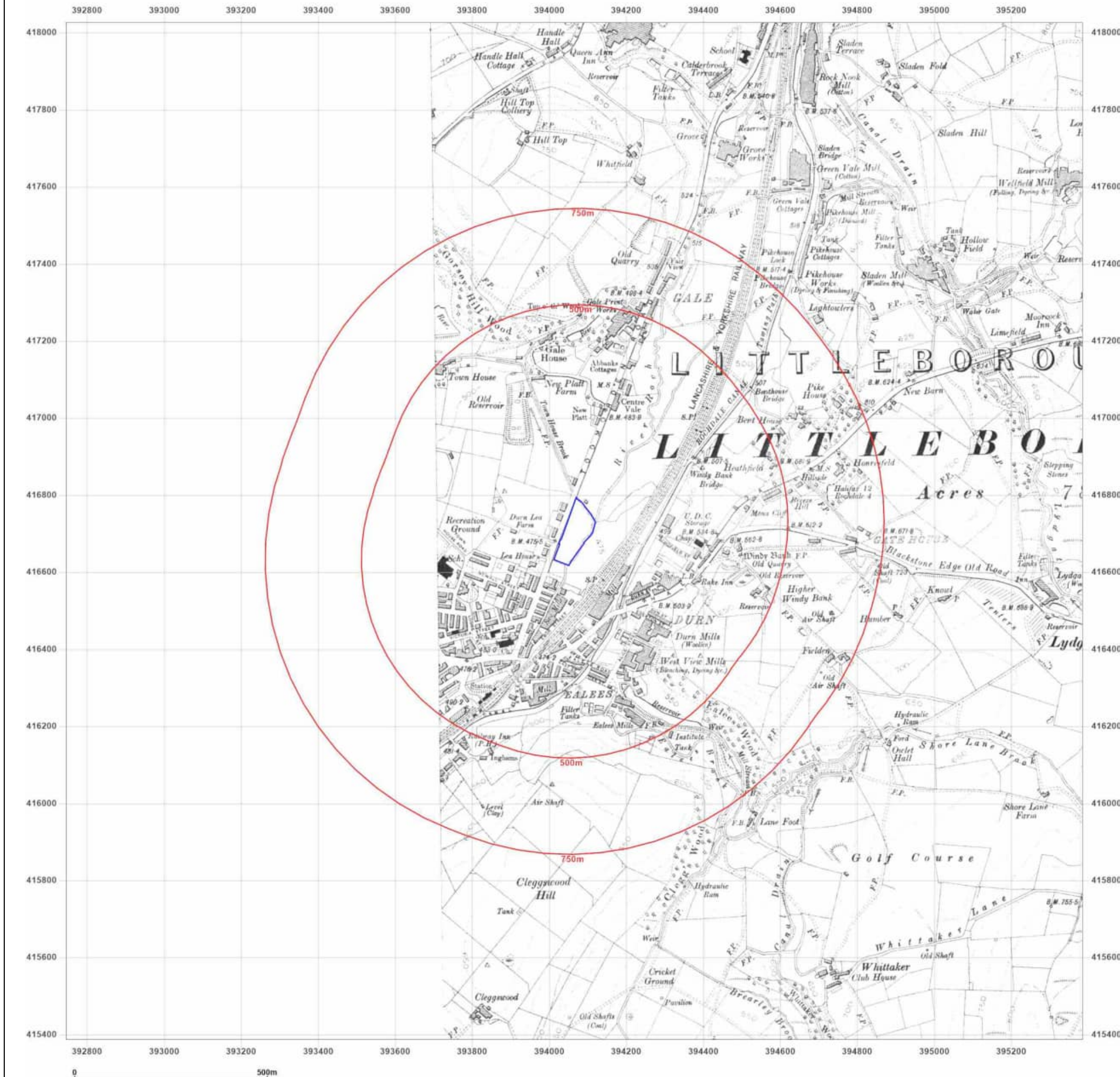


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Site Details:

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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1911

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1849
Revised 1911
Edition 1911
Copyright N/A
Levelled N/A

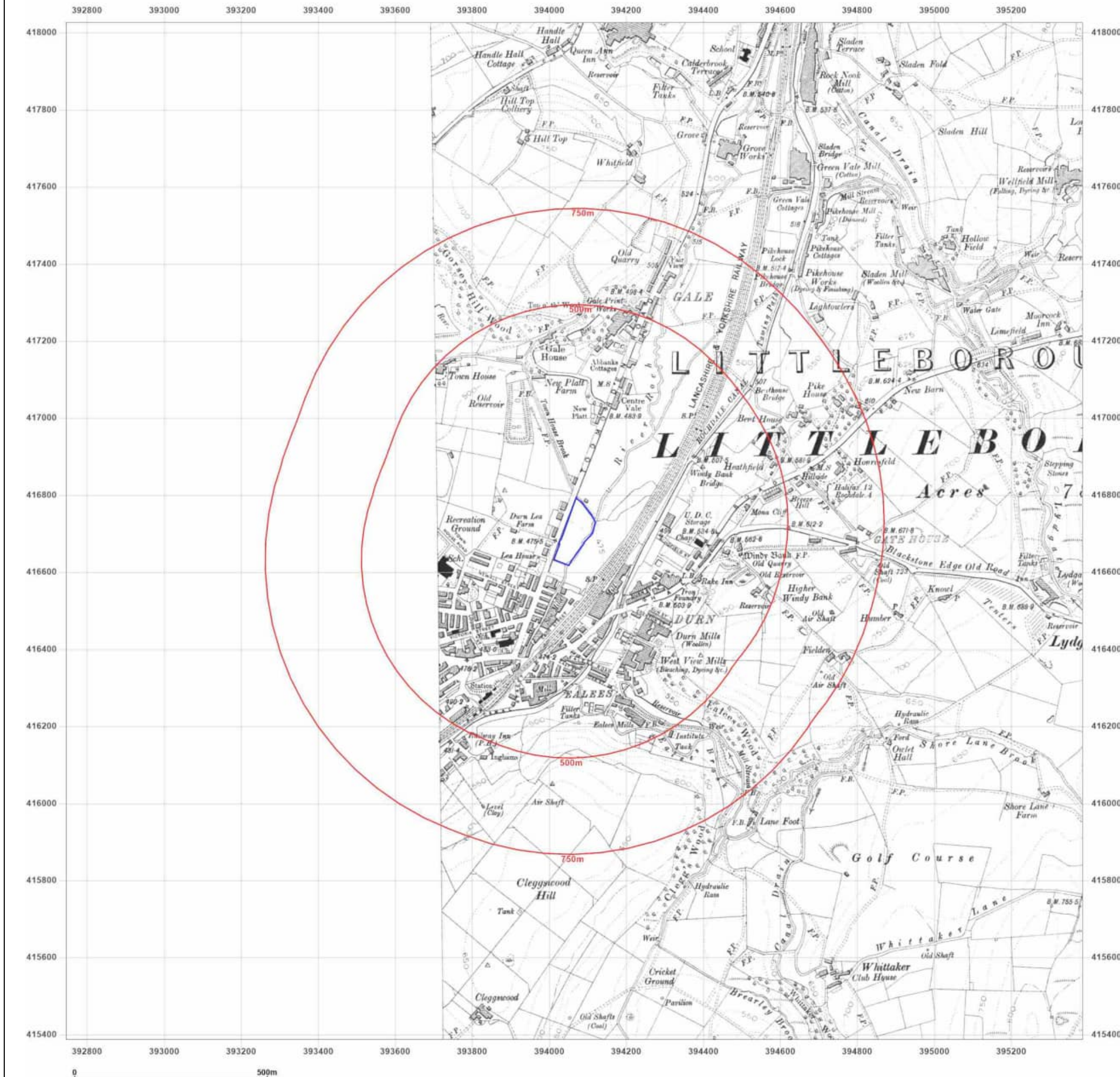


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1928-1931

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1847
Revised 1931
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1848
Revised 1928
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1847
Revised 1930
Edition N/A
Copyright N/A
Levelled N/A

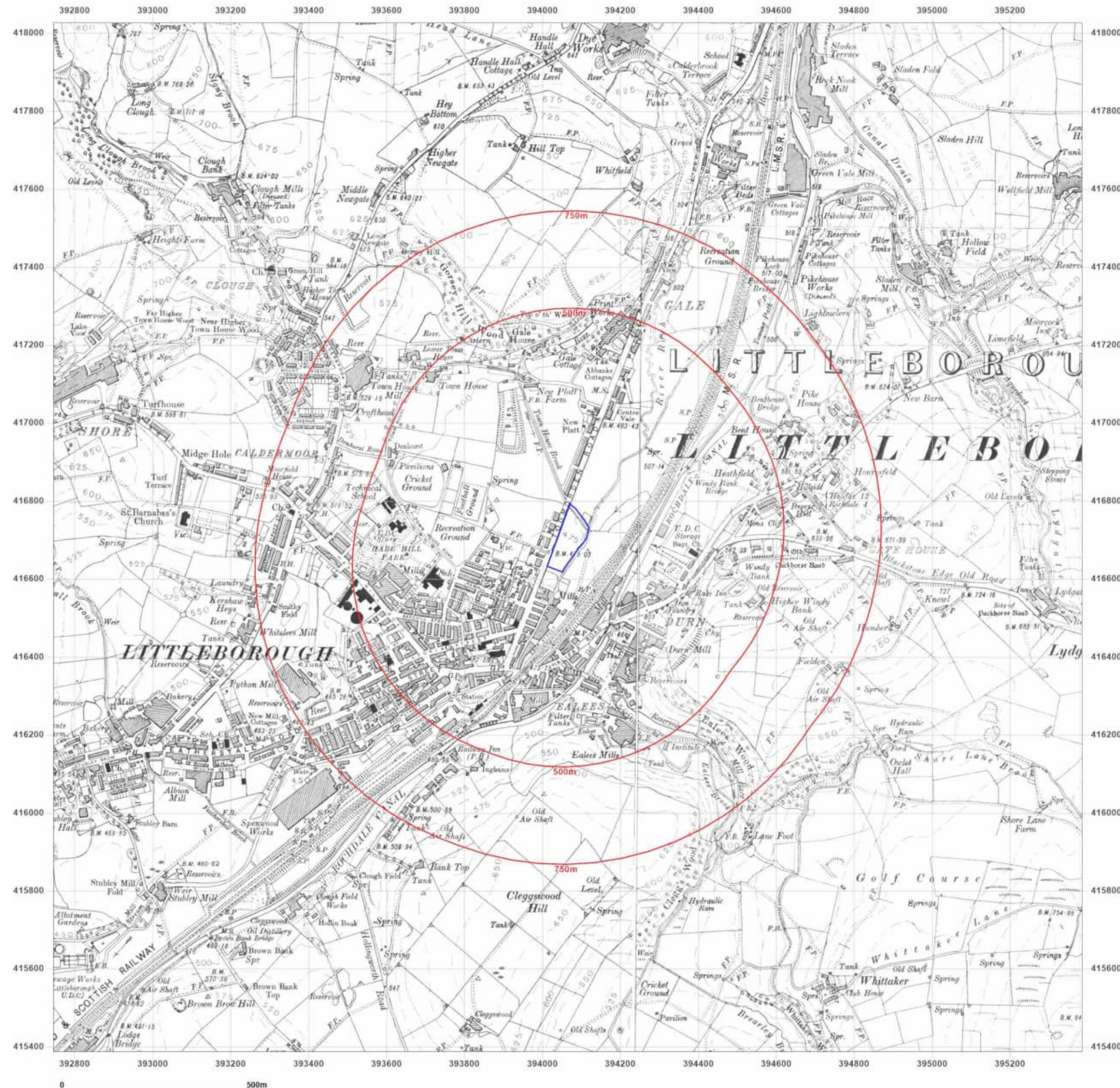


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

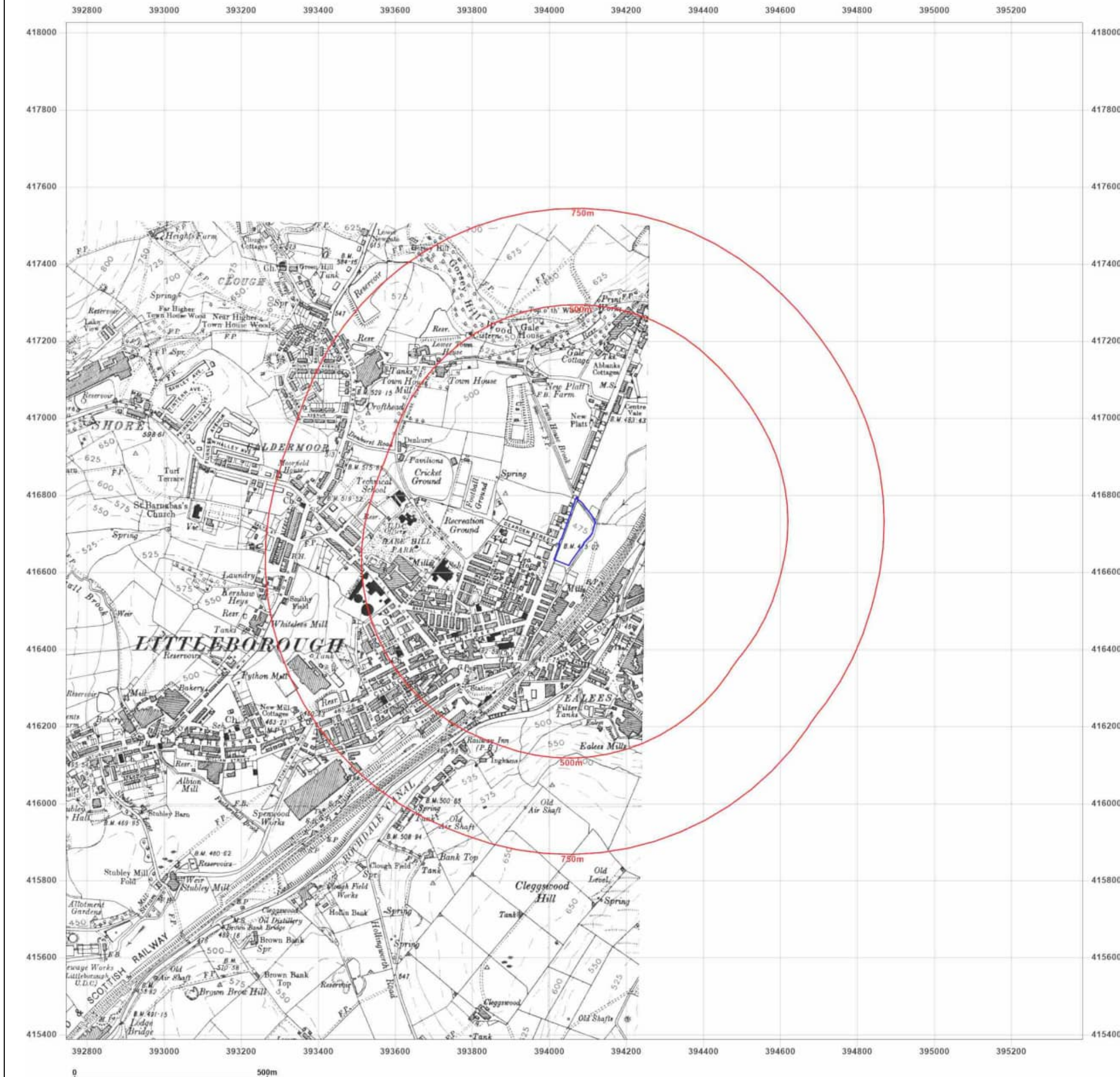


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: Provisional

Map date: 1949

Scale: 1:10,560

Printed at: 1:10,560



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

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

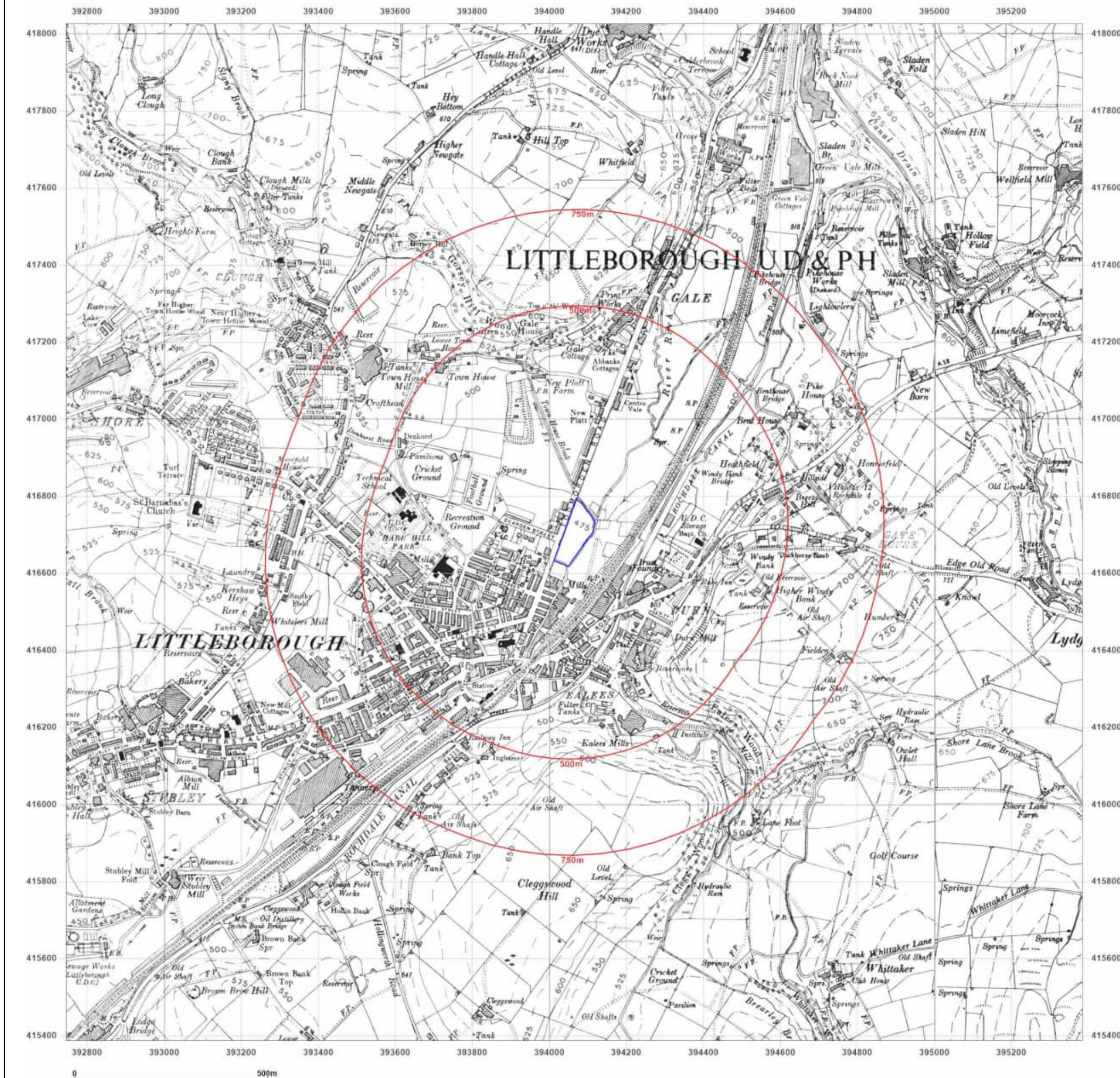


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: Provisional

Map date: 1968

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1968
Revised 1968
Edition N/A
Copyright N/A
Levelled N/A

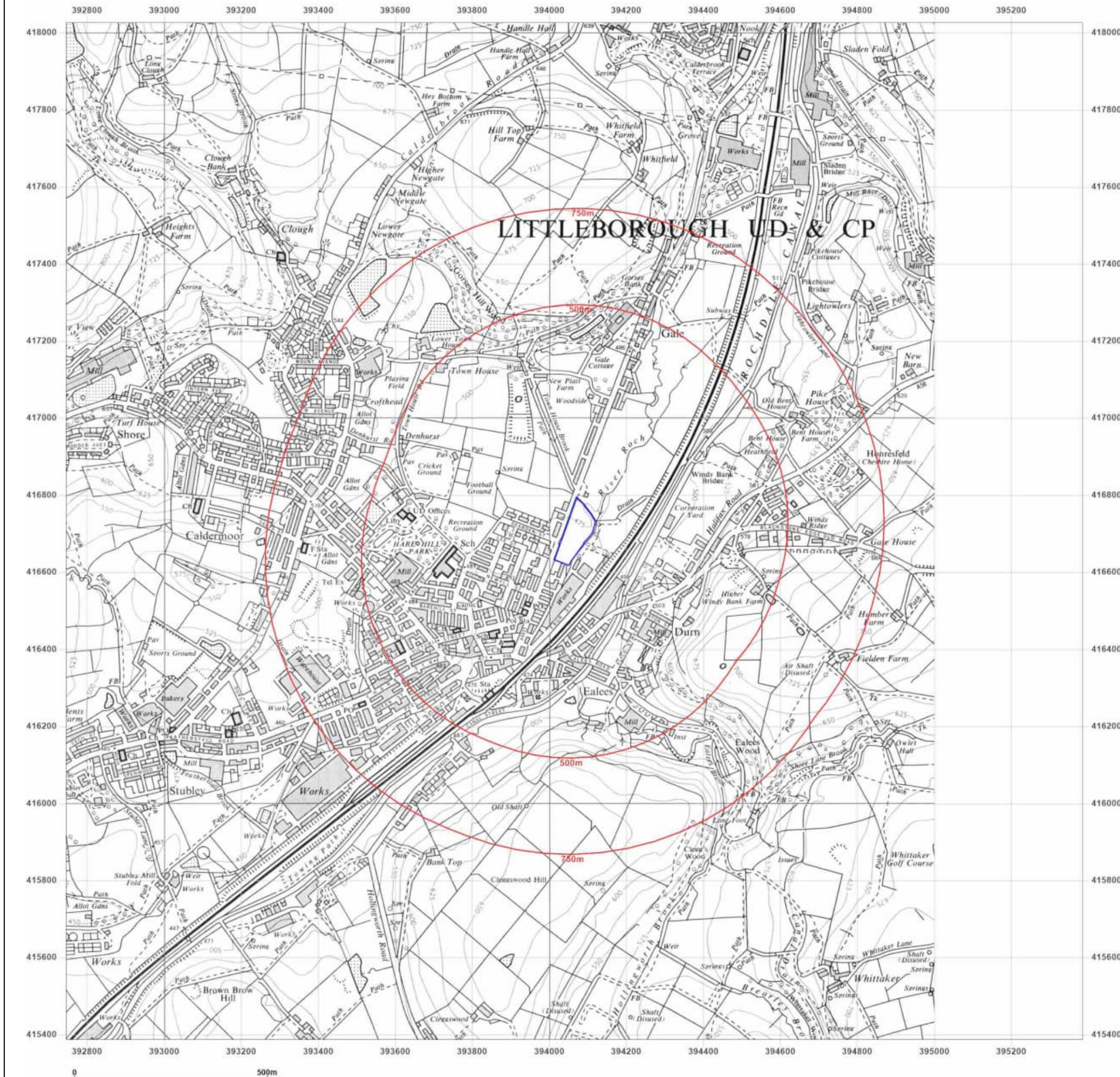


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1976-1979

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1975
Revised 1976
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1979
Revised 1979
Edition N/A
Copyright N/A
Levelled N/A

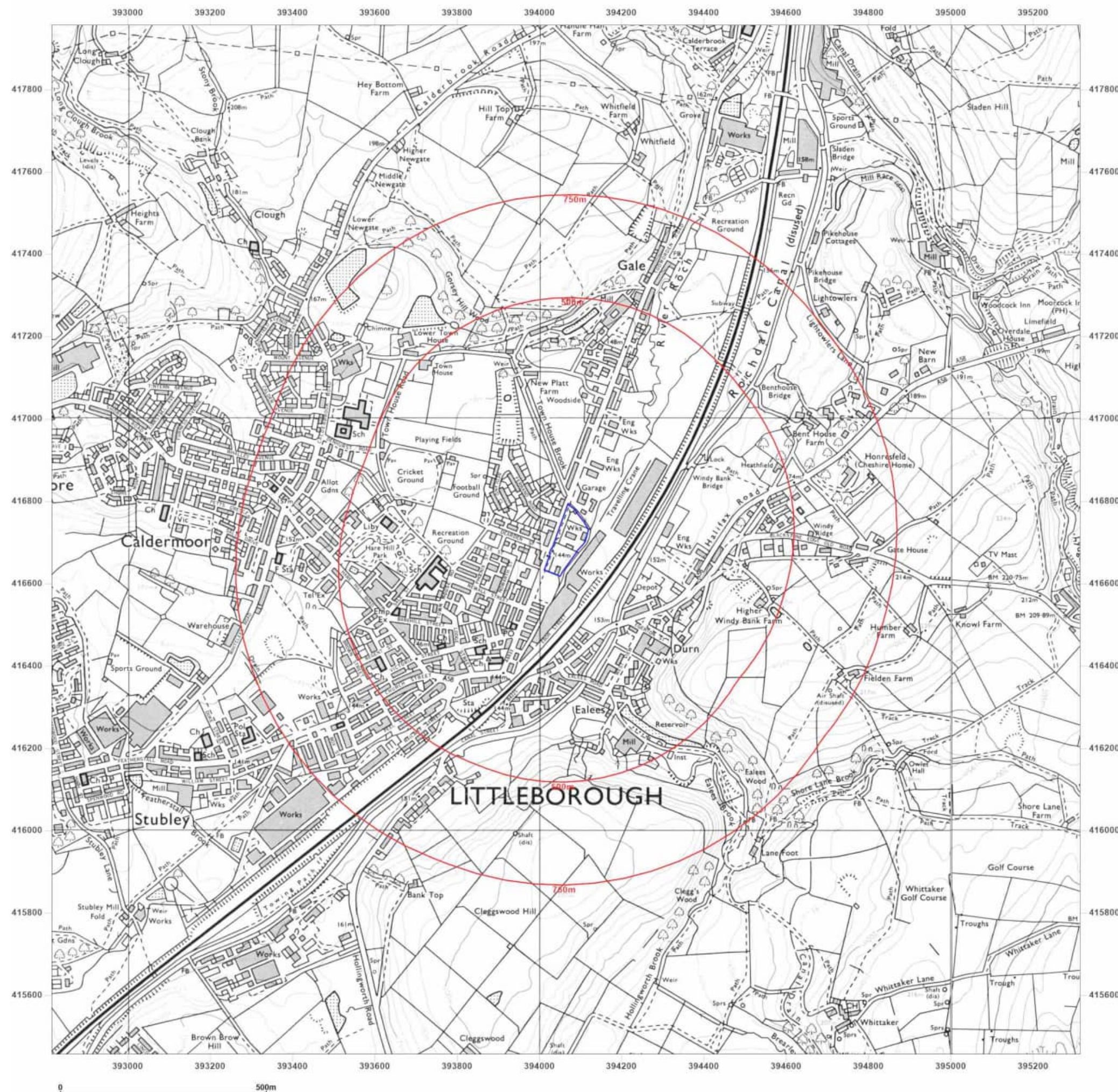


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 1989

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
Revised 1989
Edition N/A
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Levelled N/A

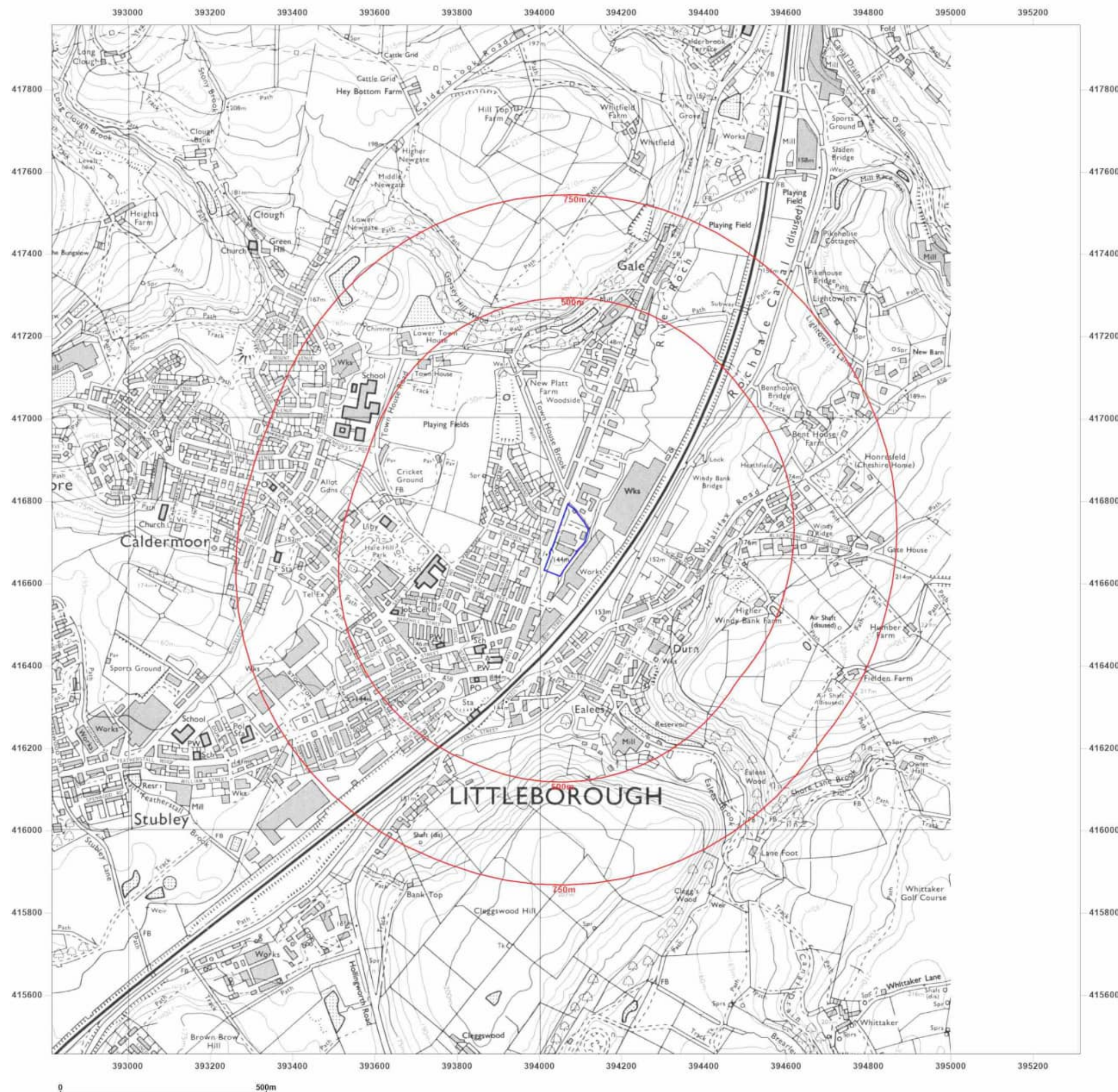


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

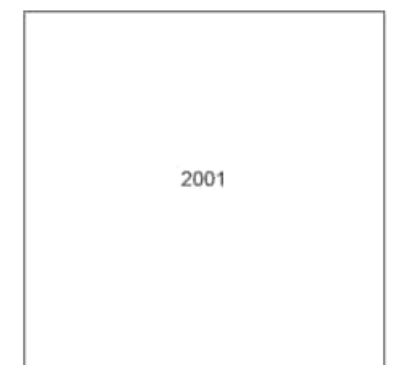
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Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

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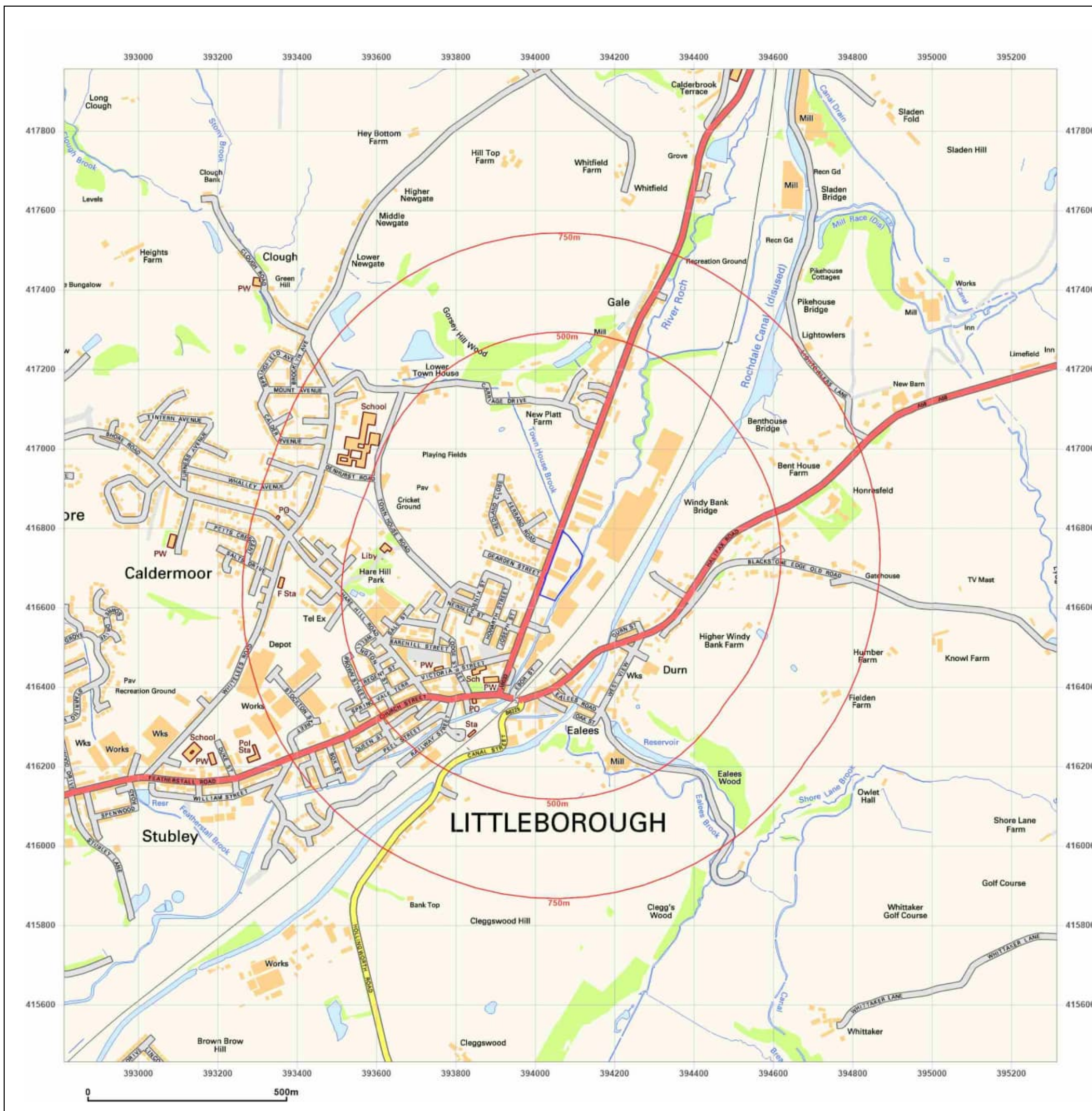


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Site Details:

Site at Todmorden Road,
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Rochdale, Greater Manchester,
OL15 9AF

Client Ref: 24-2771
Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

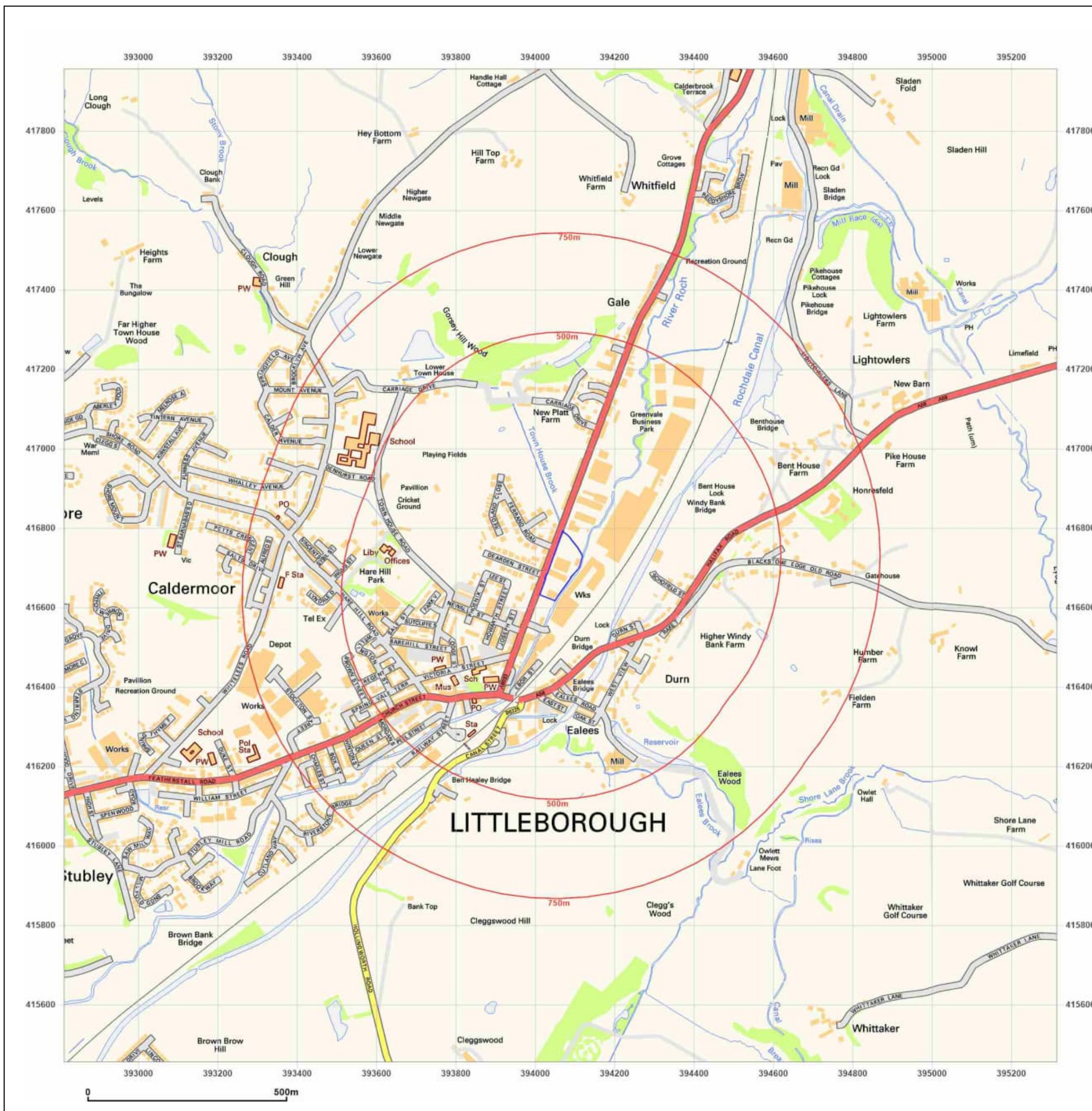


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Site Details:

Site at Todmorden Road,
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OL15 9AF

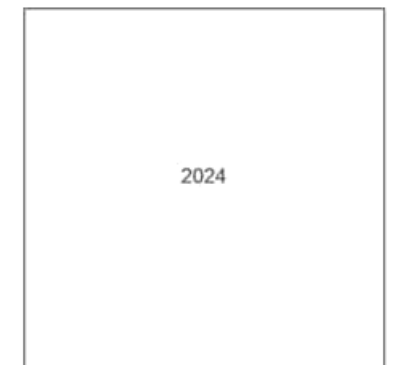
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Report Ref: GS-D5W-LEM-SC1-HBA
Grid Ref: 394064, 416706

Map Name: National Grid

Map date: 2024

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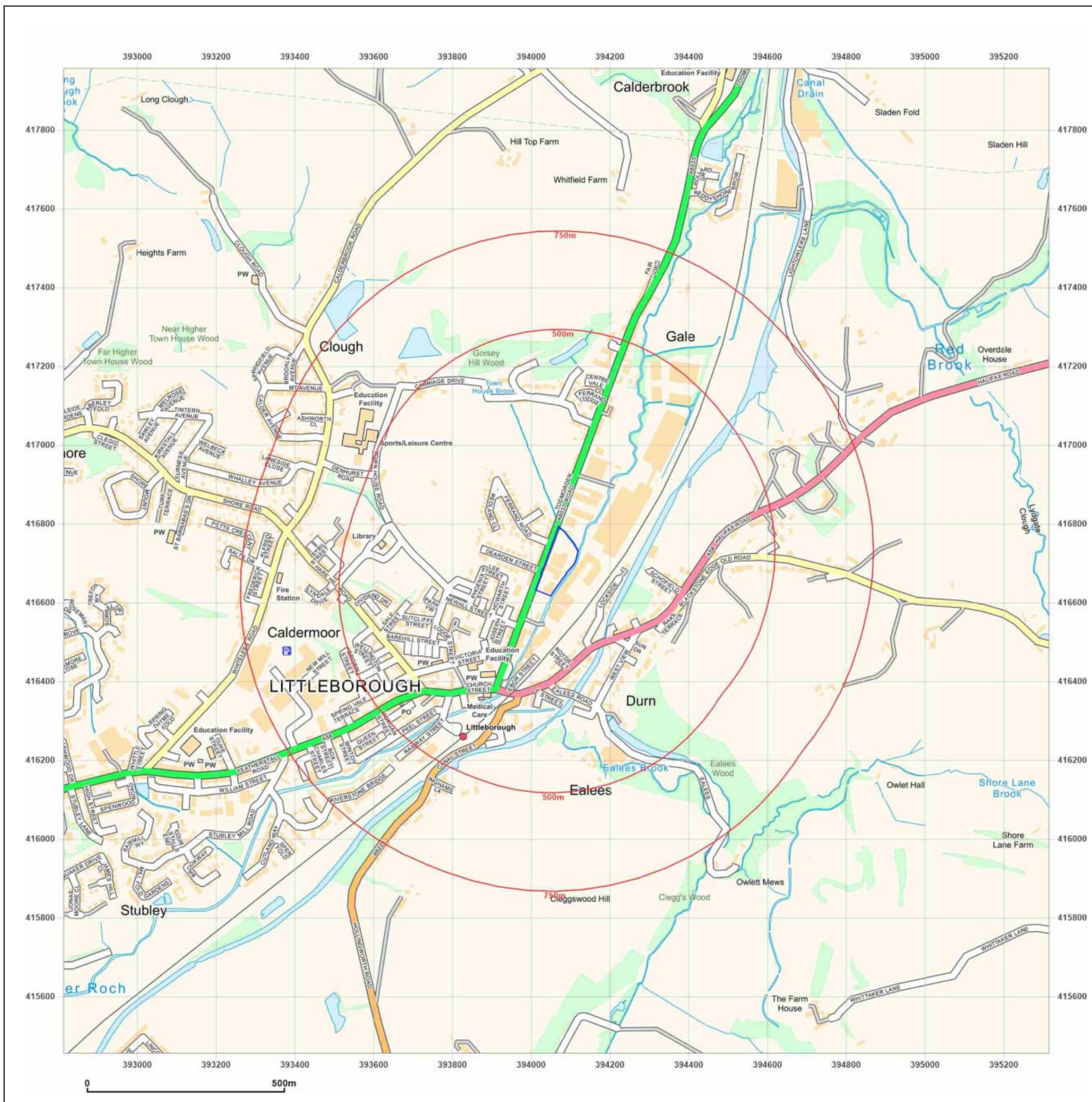


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APPENDIX B
FACTUAL INFORMATION CONCERNING NEARBY LAND
USE



Site at Todmorden Road, Caldermoor, Littleborough, Rochdale, Greater Manchester, OL15 9AF

Order Details

Date: 14/12/2024
Your ref: 24-2771
Our Ref: GS-O5O-U6P-IT3-7HO

Site Details

Location: 394066 416701
Area: 0.91 ha
Authority: [Rochdale 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

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 >	1	6	49	129	-
22 >	1.2 >	Historical tanks >	0	1	10	29	-
24 >	1.3 >	Historical energy features >	0	2	4	8	-
25	1.4	Historical petrol stations	0	0	0	0	-
25 >	1.5 >	Historical garages >	2	2	6	0	-
26	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
27 >	2.1 >	Historical industrial land uses >	1	8	62	161	-
36 >	2.2 >	Historical tanks >	0	4	15	42	-
38 >	2.3 >	Historical energy features >	0	8	5	11	-
39	2.4	Historical petrol stations	0	0	0	0	-
40 >	2.5 >	Historical garages >	2	5	10	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
41	3.1	Active or recent landfill	0	0	0	0	-
41 >	3.2 >	Historical landfill (BGS records) >	0	0	0	1	-
42	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
42 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	2	-
43	3.5	Historical waste sites	0	0	0	0	-
43	3.6	Licensed waste sites	0	0	0	0	-
43 >	3.7 >	Waste exemptions >	0	17	28	51	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
50 >	4.1 >	Recent industrial land uses >	2	4	26	-	-
53 >	4.2 >	Current or recent petrol stations >	0	1	0	0	-
53	4.3	Electricity cables	0	0	0	0	-
53	4.4	Gas pipelines	0	0	0	0	-
53	4.5	Sites determined as Contaminated Land	0	0	0	0	-



53	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
54	4.7	Regulated explosive sites	0	0	0	0	-
54	4.8	Hazardous substance storage/usage	0	0	0	0	-
54	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
54	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
54 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	0	1	-
55	4.12	Radioactive Substance Authorisations	0	0	0	0	-
55 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	0	2	-
56	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
56	4.15	Pollutant release to public sewer	0	0	0	0	-
56	4.16	List 1 Dangerous Substances	0	0	0	0	-
56	4.17	List 2 Dangerous Substances	0	0	0	0	-
56 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	2	3	1	-
57	4.19	Pollution inventory substances	0	0	0	0	-
58	4.20	Pollution inventory waste transfers	0	0	0	0	-
58	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
59 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
61 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
62 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
63	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
63	5.5	Groundwater vulnerability- local information	None (within 0m)				
64 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	7
66 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	2	63
83 >	5.8 >	<u>Potable abstractions ></u>	0	0	0	0	5
84	5.9	Source Protection Zones	0	0	0	0	-
84	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
85 >	6.1 >	<u>Water Network (OS MasterMap) ></u>	0	5	4	-	-



86 >	6.2 >	Surface water features >	1	1	4	-	-
87 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
87 >	6.4 >	WFD Surface water bodies >	1	0	1	-	-
88 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
90 >	7.2 >	Historical Flood Events >	2	9	11	-	-
91 >	7.3 >	Flood Defences >	1	13	9	-	-
93 >	7.4 >	Areas Benefiting from Flood Defences >	0	0	3	-	-
93	7.5	Flood Storage Areas	0	0	0	-	-
94 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
95 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
96 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
98 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	3
100	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
100 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	3
101 >	10.4 >	Special Protection Areas (SPA) >	0	0	0	0	1
101	10.5	National Nature Reserves (NNR)	0	0	0	0	0
101	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
102 >	10.7 >	Designated Ancient Woodland >	0	0	0	3	1
102	10.8	Biosphere Reserves	0	0	0	0	0
102	10.9	Forest Parks	0	0	0	0	0
103	10.10	Marine Conservation Zones	0	0	0	0	0
103 >	10.11 >	Green Belt >	0	0	1	0	0
103	10.12	Proposed Ramsar sites	0	0	0	0	0



103	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
104	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
104	10.15	Nitrate Sensitive Areas	0	0	0	0	0
104	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
105 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
106 >	10.18 >	SSSI Units >	0	0	0	0	3
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
108	11.1	World Heritage Sites	0	0	0	-	-
109	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
109	11.3	National Parks	0	0	0	-	-
109 >	11.4 >	Listed Buildings >	0	0	1	-	-
110 >	11.5 >	Conservation Areas >	0	0	1	-	-
110	11.6	Scheduled Ancient Monuments	0	0	0	-	-
110	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
111 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
112	12.2	Open Access Land	0	0	0	-	-
112	12.3	Tree Felling Licences	0	0	0	-	-
112	12.4	Environmental Stewardship Schemes	0	0	0	-	-
113	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	13.1 >	Priority Habitat Inventory >	0	0	4	-	-
115 >	13.2 >	Habitat Networks >	1	0	6	-	-
115 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
116	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
117 >	14.1 >	10k Availability >	Identified (within 500m)				
118 >	14.2 >	Artificial and made ground (10k) >	0	0	3	5	-
120 >	14.3 >	Superficial geology (10k) >	2	0	1	6	-

121 >	14.4 >	Landslip (10k) >	0	0	0	3	-
122 >	14.5 >	Bedrock geology (10k) >	1	0	4	14	-
123 >	14.6 >	Bedrock faults and other linear features (10k) >	0	1	5	16	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
125 >	15.1 >	50k Availability >	Identified (within 500m)				
126	15.2	Artificial and made ground (50k)	0	0	0	0	-
126	15.3	Artificial ground permeability (50k)	0	0	-	-	-
127 >	15.4 >	Superficial geology (50k) >	2	0	1	5	-
128 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
128 >	15.6 >	Landslip (50k) >	0	0	0	2	-
129	15.7	Landslip permeability (50k)	None (within 50m)				
130 >	15.8 >	Bedrock geology (50k) >	1	0	4	10	-
131 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
132 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	6	10	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
133 >	16.1 >	BGS Boreholes >	3	10	10	-	-
Page	Section	Natural ground subsidence >					
135 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
136 >	17.2 >	Running sands >	Low (within 50m)				
138 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
140 >	17.4 >	Collapsible deposits >	Negligible (within 50m)				
141 >	17.5 >	Landslides >	Very low (within 50m)				
142 >	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
144 >	18.1 >	BritPits >	0	0	0	1	-
145 >	18.2 >	Surface ground workings >	0	0	38	-	-
146 >	18.3 >	Underground workings >	0	0	0	0	39
148	18.4	Underground mining extents	0	0	0	0	-
148	18.5	Historical Mineral Planning Areas	0	0	0	0	-



149 >	18.6 >	Non-coal mining >	0	0	0	0	1
149	18.7	JPB mining areas	None (within 0m)				
149	18.8	The Coal Authority non-coal mining	0	0	0	0	-
149	18.9	Researched mining	0	0	0	0	-
150	18.10	Mining record office plans	0	0	0	0	-
150	18.11	BGS mine plans	0	0	0	0	-
150 >	18.12 >	Coal mining >	Identified (within 0m)				
150	18.13	Brine areas	None (within 0m)				
151	18.14	Gypsum areas	None (within 0m)				
151	18.15	Tin mining	None (within 0m)				
151	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
152	19.1	Natural cavities	0	0	0	0	-
152	19.2	Mining cavities	0	0	0	0	0
152	19.3	Reported recent incidents	0	0	0	0	-
152	19.4	Historical incidents	0	0	0	0	-
153	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
154 >	20.1 >	Radon >	Between 1% and 3% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
156 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	2	-	-	-
156	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
156	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
157	22.1	Underground railways (London)	0	0	0	-	-
157	22.2	Underground railways (Non-London)	0	0	0	-	-
158	22.3	Railway tunnels	0	0	0	-	-
158 >	22.4 >	Historical railway and tunnel features >	0	0	22	-	-
159	22.5	Royal Mail tunnels	0	0	0	-	-

159	22.6	Historical railways	0	0	0	-	-
159 >	22.7 >	Railways >	0	0	5	-	-
160	22.8	Crossrail 2	0	0	0	0	-
160	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 27/05/2023

Site Area: 0.91ha



Recent site history - 2019 aerial photograph



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Capture Date: 23/05/2019

Site Area: 0.91ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.91ha



Recent site history - 2001 aerial photograph



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Capture Date: 12/05/2001

Site Area: 0.91ha



Recent site history - 2000 aerial photograph



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Capture Date: 07/05/2000

Site Area: 0.91ha



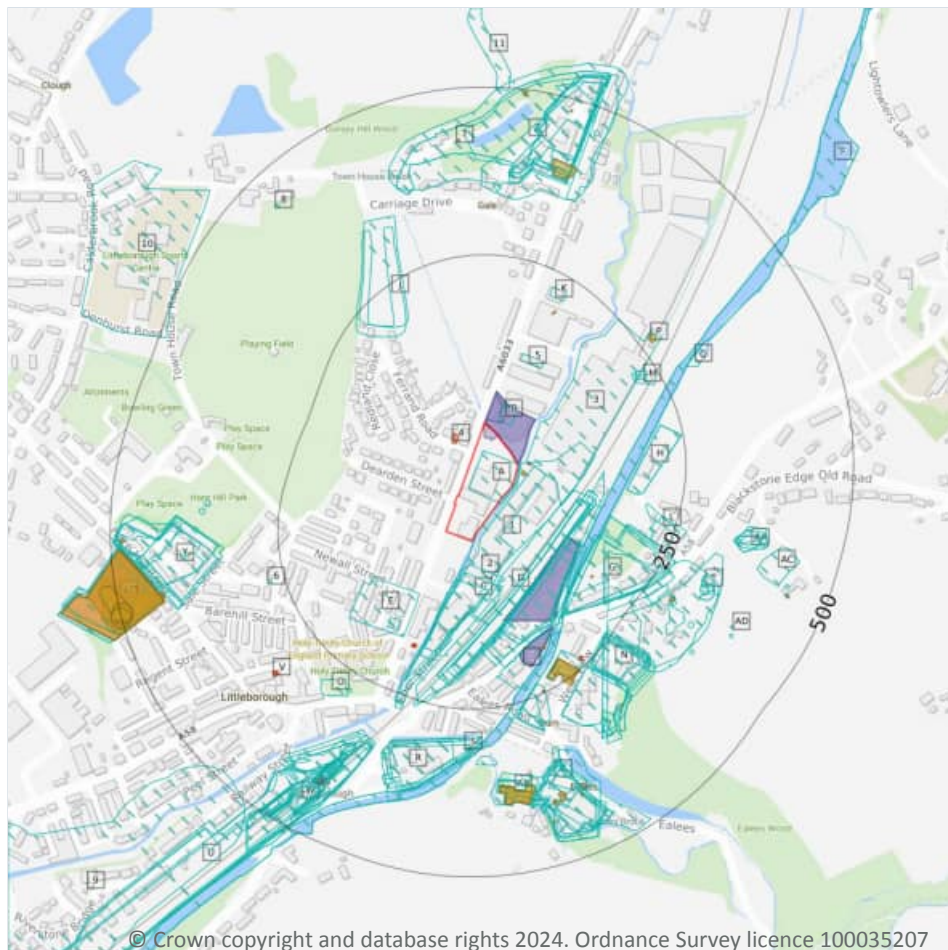
OS MasterMap site plan



Site Area: 0.91ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

185

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	Unspecified Works	1976	769770



ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Works	1968	799732
2	9m E	Unspecified Works	1976 - 1989	707313
3	14m NE	Unspecified Works	1989	747682
B	16m N	Garage	1976	673803
C	35m S	Unspecified Mills	1938 - 1949	754655
C	48m S	Unspecified Mills	1928	797162
C	60m S	Sawmills	1911	765538
D	67m S	Railway Sidings	1911	790016
D	92m E	Railway Sidings	1928	766243
D	92m E	Railway Sidings	1908	792612
D	98m SE	Railway Sidings	1938	791743
D	98m SE	Railway Sidings	1968	759178
D	99m SE	Railway Sidings	1949	739817
E	101m SW	Unspecified Mill	1890 - 1892	727807
5	107m N	Engineering Works	1976	704851
D	109m SE	Unspecified Mill	1890	737122
D	109m SE	Unspecified Mill	1911	710435
D	111m SE	Unspecified Mill	1938 - 1949	778074
D	113m SE	Unspecified Commercial/Industrial	1928	712112
D	113m SE	Unspecified Commercial/Industrial	1908	758665
D	121m SE	Unspecified Mill	1892	787873
F	134m E	Disused Canal	1989	732190
F	134m E	Disused Canal	1976	763039
G	143m SE	Dock Yard	1851	690012
G	148m SE	Iron Foundry	1909 - 1911	755200
G	148m E	Iron Foundry	1949	778415
E	149m SW	Police Station	1968	706536
G	152m E	Unspecified Depot	1976	669540



ID	Location	Land use	Dates present	Group ID
G	152m E	Unspecified Commercial/Industrial	1968	755825
G	161m SE	Iron Foundry	1930	707420
H	166m E	Corporation Yard	1968	704792
H	166m E	Engineering Works	1976	704853
G	173m SE	Unspecified Commercial/Industrial	1891	743169
I	175m S	Unspecified Mill	1890 - 1892	780749
J	181m NW	Unspecified Heap	1928	764411
J	188m NW	Unspecified Heap	1949 - 1989	755933
L	199m E	Unspecified Ground Workings	1891	661498
I	210m SE	Unspecified Tanks	1949	733438
K	212m N	Engineering Works	1976	704852
M	213m NE	Unspecified Ground Workings	1891	757476
L	214m E	Refuse Heap	1930 - 1949	797771
M	216m NE	Unspecified Ground Workings	1909	779182
M	216m NE	Unspecified Ground Workings	1930	805956
I	217m SE	Unspecified Tanks	1938	762700
I	220m S	Unspecified Tanks	1928	794899
I	234m S	Refuse Heap	1938 - 1949	762448
G	234m SE	Fire Brick and Pipe Works	1891	745772
N	240m SE	Woollen Mills	1911	750419
N	242m SE	Unspecified Mill	1949	752204
N	242m SE	Unspecified Mill	1930	708372
N	242m SE	Unspecified Mill	1909	732639
G	243m SE	Fire Brick and Pipe Works	1892	723567
I	244m S	Refuse Heap	1928	752219
N	245m SE	Unspecified Works	1976 - 1989	713738
N	245m SE	Unspecified Mill	1968	788235
N	252m SE	Woollen Mill	1892	788114



ID	Location	Land use	Dates present	Group ID
N	253m SE	Bleaching, Dyeing and Chemical Mills	1911	687381
N	254m SE	Bleaching and Dyeing Mills	1911	706214
N	254m SE	Woollen Mill	1891	789090
G	260m SE	Iron Foundry	1851	705140
O	266m SW	Grave Yard	1851	663408
P	269m NE	Unspecified Tank	1989	697935
6	269m SW	Pump	1851	682597
G	271m SE	Unspecified Tank	1892	697938
O	274m SW	Unspecified Tank	1851	697860
Q	290m NE	Wharf	1851	665248
G	290m SE	Unspecified Tanks	1891 - 1892	800751
R	291m S	Unspecified Mill	1911 - 1928	754243
R	292m S	Unspecified Mill	1911	715926
R	293m S	Unspecified Mill	1890 - 1892	768983
G	294m SE	Unspecified Tank	1891	697939
R	299m S	Unspecified Works	1968	683248
R	303m S	Unspecified Mill	1908	805156
S	304m S	Unspecified Tank	1892	697861
T	314m SE	Unspecified Pit	1949 - 1989	772839
T	316m SE	Unspecified Pit	1911	727318
U	320m SW	Railway Sidings	1938	742133
S	320m S	Unspecified Pit	1938	676145
T	320m SE	Unspecified Ground Workings	1930	787952
T	320m SE	Unspecified Ground Workings	1909	788194
N	322m SE	Unspecified Ground Workings	1909	708971
N	322m SE	Unspecified Ground Workings	1930	722798
W	327m SW	Railway Sidings	1911	767249
W	328m SW	Unspecified Ground Workings	1851 - 1968	753031



ID	Location	Land use	Dates present	Group ID
X	330m S	Woollen Mill	1851	657547
W	332m SW	Unspecified Pit	1890	747686
Y	332m W	Unspecified Mills	1938 - 1949	798887
N	332m SE	Unspecified Ground Workings	1930	737813
N	332m SE	Unspecified Ground Workings	1909	758806
G	333m SE	Coal Pit	1851	679532
Z	336m N	Print Works	1938	781001
X	337m S	Unspecified Mills	1938	797870
U	337m SW	Railway Sidings	1928	738367
AA	340m E	Unspecified Quarry	1930	686201
AA	340m E	Unspecified Old Quarry	1909	713602
Y	341m W	Unspecified Mill	1968	673443
Y	341m W	Unspecified Commercial/Industrial	1976 - 1989	725804
U	341m SW	Railway Sidings	1949 - 1968	760705
AA	342m E	Unspecified Old Quarry	1911	800969
Z	342m N	Unspecified Commercial/Industrial	1908	774365
U	343m SW	Railway Sidings	1908	784940
W	343m SW	Unspecified Pit	1908	731959
W	343m SW	Unspecified Pit	1928	754017
AA	345m E	Unspecified Pit	1949	676144
W	346m SW	Unspecified Heap	1938	688701
AA	346m E	Sandstone Quarry	1851	667792
X	347m S	Unspecified Mill	1968	784578
X	348m S	Unspecified Mill	1890	777877
Y	349m W	Unspecified Mills	1928	724761
Y	353m W	Unspecified Tank	1968	697836
X	353m S	Unspecified Mills	1911	753641
Z	355m N	Unspecified Commercial/Industrial	1851	670537



ID	Location	Land use	Dates present	Group ID
X	356m S	Unspecified Mills	1949	774252
X	357m S	Unspecified Mill	1892 - 1989	730956
AB	358m S	Filter Tanks	1911	801691
AB	358m S	Filter Tanks	1949	791462
X	358m S	Unspecified Mills	1911 - 1928	757792
AB	358m S	Filter Tanks	1911	725114
Z	359m N	Print Works	1949	708019
Z	359m N	Unspecified Commercial/Industrial	1968	736479
Y	360m W	Unspecified Tank	1908	697832
G	360m SE	Coal Pit	1851	679533
Z	360m N	Print Works	1928	779662
W	362m SW	Railway Station	1949	770777
Y	363m W	Unspecified Mills	1908	803801
W	364m SW	Railway Station	1908 - 1928	752491
W	365m SW	Railway Station	1911	782601
X	366m S	Unspecified Mills	1908	715109
AB	366m S	Filter Tanks	1928	729650
Z	367m N	Print Works	1911	733961
AB	368m S	Filter Tanks	1938	720733
Z	368m N	Unspecified Works	1890 - 1892	766508
Y	369m W	Unspecified Tank	1938	697862
W	371m SW	Railway Station	1938	792274
W	373m SW	Railway Station	1989	754755
W	376m SW	Railway Station	1968 - 1976	747275
Z	379m N	Print Works	1911	745209
W	381m SW	Railway Station	1892	798508
Z	381m N	Unspecified Tanks	1928 - 1938	744638
W	383m SW	Railway Station	1890	733109



ID	Location	Land use	Dates present	Group ID
Y	385m W	Unspecified Tank	1908	697858
AC	385m E	Unspecified Pit	1968 - 1989	798787
AD	387m SE	Chimney	1949	702014
Z	393m N	Unspecified Mill	1976 - 1989	787079
AD	393m SE	Chimney	1930	702013
Y	393m W	Woollen Mill	1851	657539
Y	393m W	Unspecified Mills	1890	757258
Z	396m N	Unspecified Tanks	1949	710236
X	404m S	Unspecified Mill	1976	759161
U	405m SW	Railway Sidings	1890	740884
W	409m SW	Railway Station	1851	747500
W	416m SW	Railway Sidings	1892	746174
W	420m SW	Railway Building	1911	748962
W	425m SW	Railway Building	1949	702917
W	425m SW	Railway Building	1938	764446
Z	430m N	Print Works	1851	802628
W	430m SW	Railway Buildings	1911	657808
AE	431m W	Unspecified Works	1968	746344
AE	432m W	Unspecified Commercial/Industrial	1949	717983
AC	433m E	Unspecified Tank	1949	697936
AE	433m W	Gas Works	1890 - 1908	728354
W	435m SW	Railway Building	1938 - 1949	717871
AC	437m E	Unspecified Tank	1930	697934
AE	438m W	Unspecified Commercial/Industrial	1938	760259
W	442m SW	Railway Buildings	1938	657806
AE	443m W	Unspecified Commercial/Industrial	1928	740409
8	444m NW	Unspecified Tank	1938	697838
W	445m SW	Railway Building	1949 - 1968	760518



ID	Location	Land use	Dates present	Group ID
W	449m SW	Railway Building	1911	748076
W	449m SW	Railway Building	1911	775044
W	451m SW	Railway Building	1892	794452
W	454m SW	Railway Building	1890	800940
W	455m SW	Railway Building	1928 - 1938	708332
Z	458m N	Gasometer	1851	659035
W	469m SW	Railway Building	1949	702909
Y	478m W	Gasometer	1851	659026
AE	481m W	Unspecified Tank	1949 - 1968	712866
Y	486m W	Unspecified Tank	1908 - 1928	743370
AE	486m W	Unspecified Tank	1938	721533
AE	487m W	Gasometer	1890 - 1908	776421
9	488m SW	Unspecified Works	1968	728789
10	489m NW	Cotton Mill	1851	805167
AE	492m W	Unspecified Tank	1928	718921
11	496m N	Cuttings	1911	760690

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

40

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
A	8m E	Unspecified Tank	1983 - 1993	96789
G	176m SE	Unspecified Tank	1930 - 1937	92082



ID	Location	Land use	Dates present	Group ID
G	177m SE	Unspecified Tank	1964	85044
I	189m S	Unspecified Tank	1930 - 1937	99459
K	190m N	Unspecified Tank	1983	104593
K	191m N	Unspecified Tank	1975	98532
K	194m N	Unspecified Tank	1983	98195
K	194m N	Unspecified Tank	1975	102580
I	217m SE	Filter Tanks	1930 - 1937	98086
I	218m SE	Filter Tanks	1910	97708
I	246m S	Unspecified Tank	1977 - 1988	106481
P	266m NE	Unspecified Tank	1989 - 1993	104107
G	289m SE	Unspecified Tank	1891	85059
Q	321m NE	Tank or Trough	1891	83514
N	330m SE	Unspecified Tank	1910 - 1928	102364
AB	366m S	Filter Tanks	1910 - 1930	95083
AB	368m S	Filter Tanks	1937	97406
Y	380m W	Unspecified Tank	1910	90935
Z	382m N	Tanks	1910 - 1937	92981
X	396m S	Filter Tanks	1910	83349
X	404m S	Unspecified Tank	1977	85041
X	407m S	Unspecified Tank	1977	85042
X	410m S	Unspecified Tank	1891	85056
7	421m N	Unspecified Tank	1989	88519
AE	429m W	Gas Works	1965	106405
AE	431m W	Gas Works	1891	105445
AE	431m W	Gas Works	1910	94228
X	433m S	Unspecified Tank	1937	85058
AC	440m E	Unspecified Tank	1928	85047
AE	467m W	Tanks	1910 - 1937	94759



ID	Location	Land use	Dates present	Group ID
Y	480m W	Unspecified Tank	1891 - 1930	107738
Z	480m N	Unspecified Tank	1891	85057
AE	481m W	Tanks	1961	82790
AE	482m W	Unspecified Tank	1960	91938
AE	482m W	Gasometer	1965	101391
AE	486m W	Gasometer	1891 - 1910	95727
AE	486m W	Unspecified Tank	1930 - 1937	105417
AE	490m W	Unspecified Tank	1960	91503
Z	490m N	Unspecified Tank	1989 - 1995	91839
AE	490m W	Unspecified Tank	1985	98582

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	14
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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
A	14m NE	Electricity Substation	1989 - 1993	59057
4	30m NW	Electricity Substation	1975 - 1993	57152
E	173m SW	Electricity Substation	1993	57992
E	175m SW	Electricity Substation	1988	55888
I	235m SE	Electricity Substation	1977	56150
I	235m SE	Electricity Substation	1988	59198
V	326m SW	Electricity Substation	1993	58426
V	327m SW	Electricity Substation	1988	57714

ID	Location	Land use	Dates present	Group ID
X	396m S	Electricity Substation	1977 - 1988	50209
AE	429m W	Gas Works	1965	59156
AE	431m W	Gas Works	1891	59440
AE	431m W	Gas Works	1910	63695
AE	482m W	Gasometer	1965	52115
AE	486m W	Gasometer	1891 - 1910	61606

This data is sourced from Ordnance Survey / Groundsure.

1.4 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, 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	10
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
B	On site	Garage	1975	16544
B	On site	Garage	1993	20357
B	1m N	Garage	1983 - 1989	21763
B	6m N	Garage	1960 - 1964	17280
D	110m SE	Vehicle Dismantling Yard	1983 - 1989	17808



ID	Location	Land use	Dates present	Group ID
D	111m SE	Vehicle Dismantling Yard	1975	20747
D	111m SE	Vehicle Dismantling Yard	1993	21827
I	173m S	Garage	1977 - 1988	16746
I	173m S	Garage	1961	18126
I	173m S	Garage	1964	21449

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

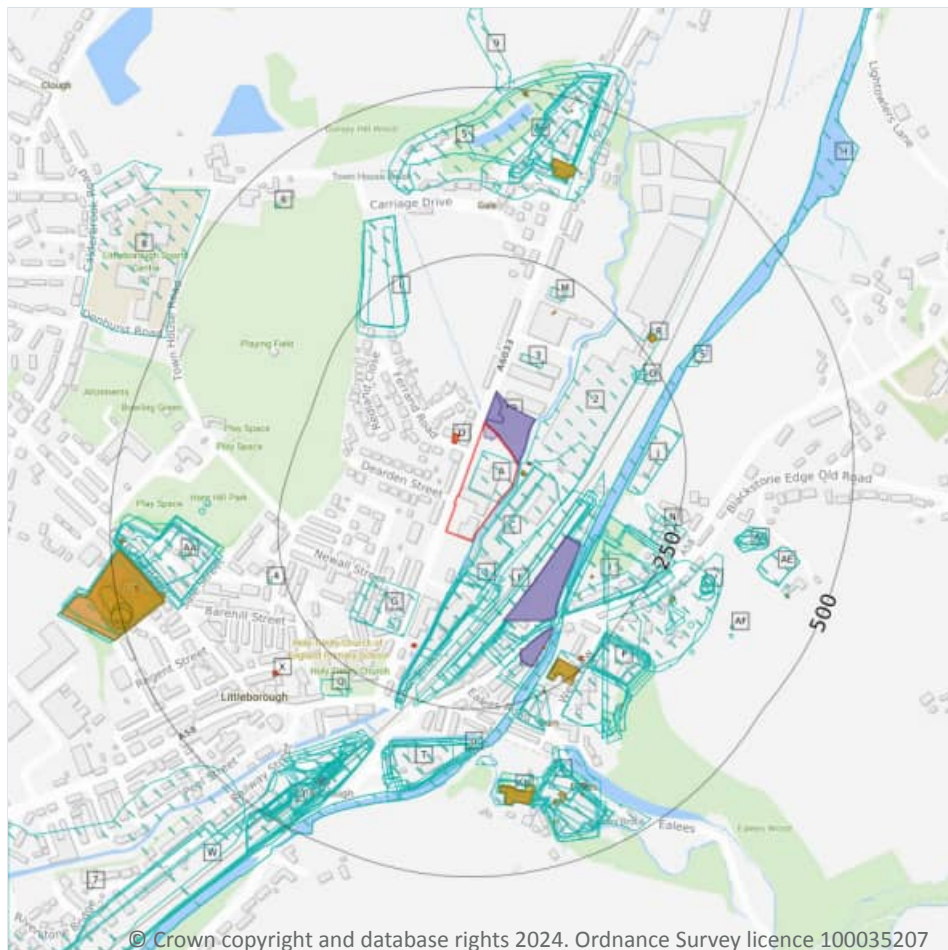
0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

232

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 27](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Works	1976	769770
C	On site	Unspecified Works	1968	799732
C	9m E	Unspecified Works	1989	707313



ID	Location	Land Use	Date	Group ID
1	11m E	Unspecified Works	1976	707313
2	14m NE	Unspecified Works	1989	747682
B	16m N	Garage	1976	673803
E	35m S	Unspecified Mills	1949	754655
E	45m S	Unspecified Mills	1938	754655
E	48m S	Unspecified Mills	1928	797162
E	60m S	Sawmills	1911	765538
E	62m S	Sawmills	1911	765538
F	67m S	Railway Sidings	1911	790016
F	92m E	Railway Sidings	1928	766243
F	92m E	Railway Sidings	1908	792612
F	98m SE	Railway Sidings	1938	791743
F	98m SE	Railway Sidings	1968	759178
F	99m SE	Railway Sidings	1949	739817
G	101m SW	Unspecified Mill	1892	727807
3	107m N	Engineering Works	1976	704851
F	109m SE	Unspecified Mill	1890	737122
F	109m SE	Unspecified Mill	1911	710435
F	111m SE	Unspecified Mill	1949	778074
F	112m SE	Unspecified Mill	1911	710435
F	113m SE	Unspecified Mill	1938	778074
F	113m SE	Unspecified Commercial/Industrial	1928	712112
F	113m SE	Unspecified Commercial/Industrial	1908	758665
F	121m SE	Unspecified Mill	1892	787873
G	126m SW	Unspecified Mill	1890	727807
H	134m E	Disused Canal	1989	732190
H	134m E	Disused Canal	1976	763039
I	143m SE	Dock Yard	1851	690012



ID	Location	Land Use	Date	Group ID
I	148m SE	Iron Foundry	1911	755200
I	148m E	Iron Foundry	1949	778415
G	149m SW	Police Station	1968	706536
I	152m E	Unspecified Depot	1976	669540
I	152m E	Unspecified Commercial/Industrial	1968	755825
I	161m SE	Iron Foundry	1930	707420
I	161m SE	Iron Foundry	1909	755200
J	166m E	Engineering Works	1976	704853
J	166m E	Corporation Yard	1968	704792
I	173m SE	Unspecified Commercial/Industrial	1891	743169
K	175m S	Unspecified Mill	1890	780749
L	181m NW	Unspecified Heap	1928	764411
K	183m S	Unspecified Mill	1892	780749
L	188m NW	Unspecified Heap	1989	755933
L	188m NW	Unspecified Heap	1976	755933
L	188m NW	Unspecified Heap	1949	755933
L	188m NW	Unspecified Heap	1968	755933
N	199m E	Unspecified Ground Workings	1891	661498
K	210m SE	Unspecified Tanks	1949	733438
M	212m N	Engineering Works	1976	704852
O	213m NE	Unspecified Ground Workings	1891	757476
N	214m E	Refuse Heap	1949	797771
O	216m NE	Unspecified Ground Workings	1930	805956
O	216m NE	Unspecified Ground Workings	1909	779182
K	217m SE	Unspecified Tanks	1938	762700
N	220m E	Refuse Heap	1930	797771
K	220m S	Unspecified Tanks	1928	794899
K	234m S	Refuse Heap	1949	762448



ID	Location	Land Use	Date	Group ID
I	234m SE	Fire Brick and Pipe Works	1891	745772
P	240m SE	Woollen Mills	1911	750419
K	241m S	Refuse Heap	1938	762448
P	241m SE	Woollen Mills	1911	750419
P	242m SE	Unspecified Mill	1949	752204
P	242m SE	Unspecified Mill	1930	708372
P	242m SE	Unspecified Mill	1909	732639
I	243m SE	Fire Brick and Pipe Works	1892	723567
K	244m S	Refuse Heap	1928	752219
P	245m SE	Unspecified Works	1989	713738
P	245m SE	Unspecified Works	1976	713738
P	245m SE	Unspecified Mill	1968	788235
P	252m SE	Woollen Mill	1892	788114
P	253m SE	Bleaching, Dyeing and Chemical Mills	1911	687381
P	254m SE	Bleaching and Dyeing Mills	1911	706214
P	254m SE	Woollen Mill	1891	789090
I	260m SE	Iron Foundry	1851	705140
Q	266m SW	Grave Yard	1851	663408
R	269m NE	Unspecified Tank	1989	697935
4	269m SW	Pump	1851	682597
I	271m SE	Unspecified Tank	1892	697938
Q	274m SW	Unspecified Tank	1851	697860
S	290m NE	Wharf	1851	665248
I	290m SE	Unspecified Tanks	1892	800751
T	291m S	Unspecified Mill	1911	754243
T	292m S	Unspecified Mill	1911	715926
T	293m S	Unspecified Mill	1890	768983
I	294m SE	Unspecified Tank	1891	697939



ID	Location	Land Use	Date	Group ID
T	299m S	Unspecified Works	1968	683248
T	300m S	Unspecified Mill	1928	754243
T	300m S	Unspecified Mill	1892	768983
I	301m SE	Unspecified Tanks	1891	800751
T	303m S	Unspecified Mill	1908	805156
U	304m S	Unspecified Tank	1892	697861
V	314m SE	Unspecified Pit	1989	772839
V	314m SE	Unspecified Pit	1976	772839
V	314m SE	Unspecified Pit	1949	772839
V	314m SE	Unspecified Pit	1968	772839
V	316m SE	Unspecified Pit	1911	727318
V	316m SE	Unspecified Pit	1911	727318
V	316m SE	Unspecified Pit	1911	727318
W	320m SW	Railway Sidings	1938	742133
U	320m S	Unspecified Pit	1938	676145
V	320m SE	Unspecified Ground Workings	1930	787952
V	320m SE	Unspecified Ground Workings	1909	788194
P	322m SE	Unspecified Ground Workings	1930	722798
P	322m SE	Unspecified Ground Workings	1909	708971
Y	327m SW	Railway Sidings	1911	767249
Y	328m SW	Unspecified Ground Workings	1851	753031
Z	330m S	Woollen Mill	1851	657547
Y	330m SW	Railway Sidings	1911	767249
Y	332m SW	Unspecified Pit	1890	747686
AA	332m W	Unspecified Mills	1949	798887
P	332m SE	Unspecified Ground Workings	1930	737813
P	332m SE	Unspecified Ground Workings	1909	758806
I	333m SE	Coal Pit	1851	679532



ID	Location	Land Use	Date	Group ID
AA	335m W	Unspecified Mills	1938	798887
Y	335m SW	Unspecified Ground Workings	1968	753031
AB	336m N	Print Works	1938	781001
Z	337m S	Unspecified Mills	1938	797870
W	337m SW	Railway Sidings	1928	738367
AC	340m E	Unspecified Quarry	1930	686201
AC	340m E	Unspecified Old Quarry	1909	713602
AA	341m W	Unspecified Commercial/Industrial	1989	725804
AA	341m W	Unspecified Commercial/Industrial	1976	725804
AA	341m W	Unspecified Mill	1968	673443
W	341m SW	Railway Sidings	1949	760705
W	341m SW	Railway Sidings	1968	760705
AC	342m E	Unspecified Old Quarry	1911	800969
AB	342m N	Unspecified Commercial/Industrial	1908	774365
AC	342m E	Unspecified Old Quarry	1911	800969
W	343m SW	Railway Sidings	1908	784940
Y	343m SW	Unspecified Pit	1928	754017
Y	343m SW	Unspecified Pit	1908	731959
AC	345m E	Unspecified Pit	1949	676144
Y	346m SW	Unspecified Heap	1938	688701
AC	346m E	Sandstone Quarry	1851	667792
Z	347m S	Unspecified Mill	1968	784578
Z	348m S	Unspecified Mill	1890	777877
AA	349m W	Unspecified Mills	1928	724761
AA	353m W	Unspecified Tank	1968	697836
Z	353m S	Unspecified Mills	1911	753641
AB	355m N	Unspecified Commercial/Industrial	1851	670537
Z	356m S	Unspecified Mills	1949	774252



ID	Location	Land Use	Date	Group ID
Z	357m S	Unspecified Mill	1892	730956
AD	358m S	Filter Tanks	1911	801691
AD	358m S	Filter Tanks	1911	801691
AD	358m S	Filter Tanks	1949	791462
Z	358m S	Unspecified Mills	1911	757792
AD	358m S	Filter Tanks	1911	725114
AB	359m N	Print Works	1949	708019
AB	359m N	Unspecified Commercial/Industrial	1968	736479
Z	360m S	Unspecified Mills	1928	757792
AA	360m W	Unspecified Tank	1908	697832
I	360m SE	Coal Pit	1851	679533
AB	360m N	Print Works	1928	779662
Y	362m SW	Railway Station	1949	770777
AA	363m W	Unspecified Mills	1908	803801
Y	364m SW	Railway Station	1911	752491
Y	365m SW	Railway Station	1911	782601
Z	366m S	Unspecified Mills	1908	715109
AD	366m S	Filter Tanks	1928	729650
AB	367m N	Print Works	1911	733961
AD	368m S	Filter Tanks	1938	720733
AB	368m N	Unspecified Works	1890	766508
AA	369m W	Unspecified Tank	1938	697862
Y	371m SW	Railway Station	1938	792274
Y	373m SW	Railway Station	1989	754755
Y	376m SW	Railway Station	1976	747275
Y	376m SW	Railway Station	1968	747275
Y	377m SW	Railway Station	1928	752491
Y	377m SW	Railway Station	1908	752491



ID	Location	Land Use	Date	Group ID
AB	379m N	Print Works	1911	745209
Y	381m SW	Railway Station	1892	798508
AB	381m N	Unspecified Tanks	1928	744638
Y	383m SW	Railway Station	1890	733109
AB	384m N	Unspecified Tanks	1938	744638
AA	385m W	Unspecified Tank	1908	697858
AE	385m E	Unspecified Pit	1989	798787
AE	385m E	Unspecified Pit	1976	798787
AE	385m E	Unspecified Pit	1968	798787
AF	387m SE	Chimney	1949	702014
AB	393m N	Unspecified Mill	1989	787079
AB	393m N	Unspecified Mill	1976	787079
AF	393m SE	Chimney	1930	702013
AA	393m W	Woollen Mill	1851	657539
AA	393m W	Unspecified Mills	1890	757258
AB	396m N	Unspecified Tanks	1949	710236
Z	402m S	Unspecified Mill	1989	730956
Z	404m S	Unspecified Mill	1976	759161
W	405m SW	Railway Sidings	1890	740884
Y	409m SW	Railway Station	1851	747500
Y	416m SW	Railway Sidings	1892	746174
Y	420m SW	Railway Building	1911	748962
AB	421m N	Unspecified Works	1892	766508
Y	425m SW	Railway Building	1949	702917
Y	425m SW	Railway Building	1938	764446
AB	430m N	Print Works	1851	802628
Y	430m SW	Railway Buildings	1911	657808
AG	431m W	Unspecified Works	1968	746344



ID	Location	Land Use	Date	Group ID
AG	432m W	Unspecified Commercial/Industrial	1949	717983
AE	433m E	Unspecified Tank	1949	697936
AG	433m W	Gas Works	1890	728354
Y	435m SW	Railway Building	1938	717871
AE	437m E	Unspecified Tank	1930	697934
AG	438m W	Unspecified Commercial/Industrial	1938	760259
Y	442m SW	Railway Buildings	1938	657806
AG	443m W	Unspecified Commercial/Industrial	1928	740409
AG	443m W	Gas Works	1908	728354
6	444m NW	Unspecified Tank	1938	697838
Y	445m SW	Railway Building	1949	717871
Y	445m SW	Railway Building	1949	760518
Y	449m SW	Railway Building	1911	748076
Y	449m SW	Railway Building	1911	775044
Y	450m SW	Railway Building	1968	760518
Y	451m SW	Railway Building	1892	794452
Y	454m SW	Railway Building	1890	800940
Y	455m SW	Railway Building	1938	708332
Y	457m SW	Railway Building	1928	708332
AB	458m N	Gasometer	1851	659035
Y	469m SW	Railway Building	1949	702909
AA	478m W	Gasometer	1851	659026
AG	481m W	Unspecified Tank	1949	712866
AG	481m W	Unspecified Tank	1968	712866
AA	486m W	Unspecified Tank	1928	743370
AA	486m W	Unspecified Tank	1908	743370
AG	486m W	Unspecified Tank	1938	721533
AG	487m W	Gasometer	1890	776421



ID	Location	Land Use	Date	Group ID
7	488m SW	Unspecified Works	1968	728789
8	489m NW	Cotton Mill	1851	805167
AG	492m W	Gasometer	1908	776421
AG	492m W	Unspecified Tank	1928	718921
9	496m N	Cuttings	1911	760690

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	61
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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 27 >](#)

ID	Location	Land Use	Date	Group ID
A	8m E	Unspecified Tank	1983	96789
A	8m E	Unspecified Tank	1989	96789
A	8m E	Unspecified Tank	1989	96789
A	8m E	Unspecified Tank	1993	96789
I	176m SE	Unspecified Tank	1930	92082
I	176m SE	Unspecified Tank	1937	92082
I	177m SE	Unspecified Tank	1964	85044
K	189m S	Unspecified Tank	1930	99459
K	189m S	Unspecified Tank	1937	99459
M	190m N	Unspecified Tank	1983	104593
M	191m N	Unspecified Tank	1975	98532
M	194m N	Unspecified Tank	1983	98195
M	194m N	Unspecified Tank	1975	102580
K	217m SE	Filter Tanks	1930	98086
K	217m SE	Filter Tanks	1937	98086



ID	Location	Land Use	Date	Group ID
K	218m SE	Filter Tanks	1910	97708
K	246m S	Unspecified Tank	1977	106481
K	247m S	Unspecified Tank	1988	106481
K	247m S	Unspecified Tank	1988	106481
R	266m NE	Unspecified Tank	1993	104107
R	266m NE	Unspecified Tank	1989	104107
R	266m NE	Unspecified Tank	1989	104107
I	289m SE	Unspecified Tank	1891	85059
S	321m NE	Tank or Trough	1891	83514
P	330m SE	Unspecified Tank	1910	102364
P	330m SE	Unspecified Tank	1928	102364
AD	366m S	Filter Tanks	1910	95083
AD	366m S	Filter Tanks	1930	95083
AD	368m S	Filter Tanks	1937	97406
AA	380m W	Unspecified Tank	1910	90935
AB	382m N	Tanks	1910	92981
AB	382m N	Tanks	1930	92981
AB	382m N	Tanks	1937	92981
Z	396m S	Filter Tanks	1910	83349
Z	404m S	Unspecified Tank	1977	85041
Z	407m S	Unspecified Tank	1977	85042
Z	410m S	Unspecified Tank	1891	85056
5	421m N	Unspecified Tank	1989	88519
AG	429m W	Gas Works	1965	106405
AG	431m W	Gas Works	1891	105445
AG	431m W	Gas Works	1910	94228
Z	433m S	Unspecified Tank	1937	85058
AE	440m E	Unspecified Tank	1928	85047



ID	Location	Land Use	Date	Group ID
AG	467m W	Tanks	1910	94759
AG	467m W	Tanks	1930	94759
AG	467m W	Tanks	1937	94759
AA	480m W	Unspecified Tank	1891	107738
AA	480m W	Unspecified Tank	1910	107738
AA	480m W	Unspecified Tank	1930	107738
AB	480m N	Unspecified Tank	1891	85057
AG	481m W	Tanks	1961	82790
AG	482m W	Unspecified Tank	1960	91938
AG	482m W	Gasometer	1965	101391
AG	486m W	Gasometer	1891	95727
AG	486m W	Gasometer	1910	95727
AG	486m W	Unspecified Tank	1930	105417
AG	486m W	Unspecified Tank	1937	105417
AG	490m W	Unspecified Tank	1960	91503
AB	490m N	Unspecified Tank	1995	91839
AG	490m W	Unspecified Tank	1985	98582
AB	491m N	Unspecified Tank	1989	91839

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

24

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 27 >](#)

ID	Location	Land Use	Date	Group ID
A	14m NE	Electricity Substation	1993	59057
A	15m NE	Electricity Substation	1989	59057



ID	Location	Land Use	Date	Group ID
A	15m NE	Electricity Substation	1989	59057
D	30m NW	Electricity Substation	1993	57152
D	30m NW	Electricity Substation	1975	57152
D	30m NW	Electricity Substation	1983	57152
D	30m NW	Electricity Substation	1989	57152
D	30m NW	Electricity Substation	1989	57152
G	173m SW	Electricity Substation	1993	57992
G	175m SW	Electricity Substation	1988	55888
K	235m SE	Electricity Substation	1977	56150
K	235m SE	Electricity Substation	1988	59198
K	235m SE	Electricity Substation	1988	59198
X	326m SW	Electricity Substation	1993	58426
X	327m SW	Electricity Substation	1988	57714
Z	396m S	Electricity Substation	1977	50209
Z	396m S	Electricity Substation	1988	50209
Z	396m S	Electricity Substation	1988	50209
AG	429m W	Gas Works	1965	59156
AG	431m W	Gas Works	1891	59440
AG	431m W	Gas Works	1910	63695
AG	482m W	Gasometer	1965	52115
AG	486m W	Gasometer	1891	61606
AG	486m W	Gasometer	1910	61606

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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



This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

17

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

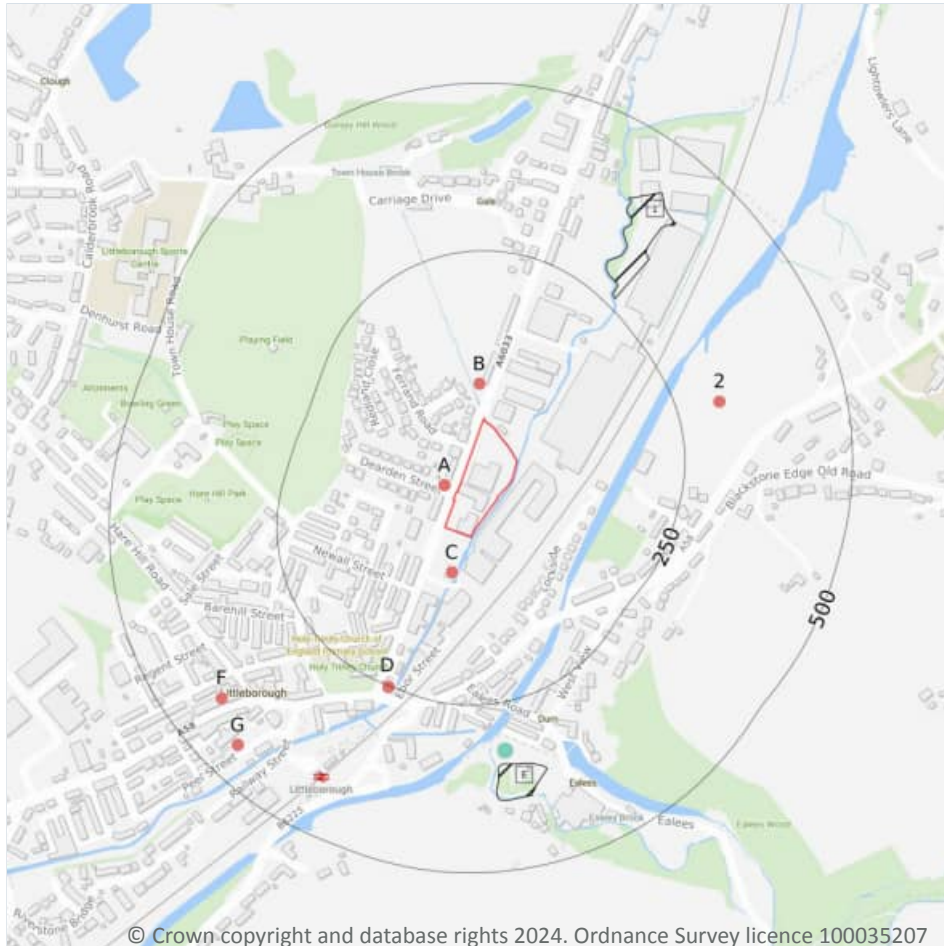
Features are displayed on the Past land use - un-grouped map on [page 27](#) >

ID	Location	Land Use	Date	Group ID
B	On site	Garage	1975	16544
B	On site	Garage	1993	20357
B	1m N	Garage	1983	21763
B	1m N	Garage	1989	21763
B	1m N	Garage	1989	21763
B	6m N	Garage	1964	17280
B	6m N	Garage	1960	17280
F	110m SE	Vehicle Dismantling Yard	1983	17808
F	110m SE	Vehicle Dismantling Yard	1989	17808
F	110m SE	Vehicle Dismantling Yard	1989	17808
F	111m SE	Vehicle Dismantling Yard	1975	20747
F	111m SE	Vehicle Dismantling Yard	1993	21827
K	173m S	Garage	1961	18126
K	173m S	Garage	1977	16746
K	173m S	Garage	1964	21449
K	174m S	Garage	1988	16746
K	174m S	Garage	1988	16746

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



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

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

1

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.

Features are displayed on the Waste and landfill map on [page 41](#) >



ID	Location	Address	BGS Number	Risk	Waste Type
E	322m S	Eales Mill, Eales, Littleborough, Lancs	501	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0
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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	2
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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 41 >](#)

ID	Location	Details		
1	264m NE	Site Address: PLYSU, Off Todmorden Road, Gale, Littleborough, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D103 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
E	341m S	Site Address: Ealees Mill, Eales, Littleborough, Lancashire Licence Holder Address: -	Waste Licence: - Site Reference: - Waste Type: Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Fothergill and Harvey Limited Licence Holder: - First Recorded 31/12/1945 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
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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
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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	96
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on [page 41 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of waste in construction
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of waste for a specified purpose
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Using waste exemption	Not on a farm	Use of mulch
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Screening and blending of waste
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
A	21m W	Townhouse Brook, Off Todmorden Road, Littleborough, OL159eb	WEX296814	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	52m N	-	WEX356448	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	52m N	-	WEX356448	Storing waste exemption	Not on a farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Use of waste in construction
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Use of waste for a specified purpose
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
B	52m N	-	WEX356448	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	52m N	-	WEX356448	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	52m N	-	WEX356448	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
B	52m N	-	WEX356448	Using waste exemption	Not on a farm	Use of mulch
B	52m N	-	WEX356448	Treating waste exemption	Not on a farm	Screening and blending of waste
B	52m N	-	WEX356448	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Use of waste in construction
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Use of waste for a specified purpose
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit



ID	Location	Site	Reference	Category	Sub-Category	Description
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
C	60m S	-	WEX356451	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	60m S	-	WEX356451	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
C	60m S	-	WEX356451	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
C	60m S	-	WEX356451	Storing waste exemption	Not on a farm	Storage of waste in secure containers
C	60m S	-	WEX356451	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	60m S	-	WEX356451	Using waste exemption	Not on a farm	Use of mulch
C	60m S	-	WEX356451	Treating waste exemption	Not on a farm	Screening and blending of waste
C	60m S	-	WEX356451	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of waste in construction
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of waste for a specified purpose
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
D	251m SW	-	WEX356463	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
D	251m SW	-	WEX356463	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	251m SW	-	WEX356463	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
D	251m SW	-	WEX356463	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	251m SW	-	WEX356463	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	251m SW	-	WEX356463	Using waste exemption	Not on a farm	Use of mulch
D	251m SW	-	WEX356463	Treating waste exemption	Not on a farm	Screening and blending of waste
D	251m SW	-	WEX356463	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of waste in construction
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of waste for a specified purpose
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Using waste exemption	Not on a farm	Use of mulch
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Screening and blending of waste
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
D	253m SW	Gng Foam Converters, Off Todmorden Road, Littleborough, OL159ah	WEX296817	Disposing of waste exemption	Not on a farm	Burning waste in the open
2	314m E	-	WEX369295	Storing waste exemption	On a farm	Storage of sludge
F	420m SW	60, Church Street, Littleborough, OL15 8au	WEX297121	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
F	420m SW	60, Church Street, Littleborough, OL15 8au	WEX162347	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of waste for a specified purpose

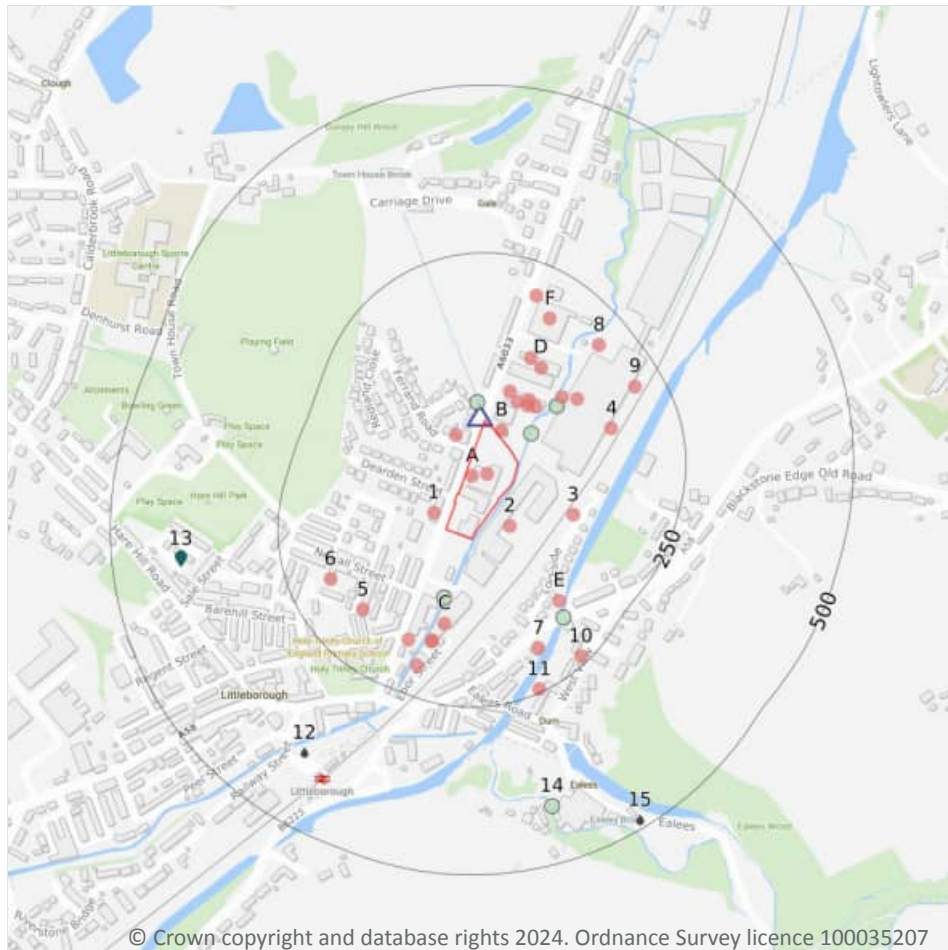


ID	Location	Site	Reference	Category	Sub-Category	Description
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of waste in construction
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of baled end-of-life tyres in construction
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of waste derived biodiesel as fuel
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Spreading waste on non-agricultural land to confer benefit
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Spreading of plant matter to confer benefit
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Treatment of waste at a water treatment works
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Recovery of waste at a waste water treatment works
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Disposing of waste exemption	Not on a farm	Deposit of waste from dredging of inland waters
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Storing waste exemption	Not on a farm	Storage of waste in a secure place
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Screening and blending of waste
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Disposing of waste exemption	Not on a farm	Burning waste in the open
G	449m SW	Peel Street, Littleborough, Littleborough, OL158aq	WEX296821	Using waste exemption	Not on a farm	Use of mulch

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- △ Current or recent petrol stations
- ◆ Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

32

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 50 >](#)

ID	Location	Company	Address	Activity	Category
A	On site	C R P	Corrosion Resistant Products Ltd, Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	General Construction Supplies	Industrial Products
A	On site	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
B	8m N	Whaley & Sons Caravan Centre	Riverside Business Centre, Todmorden Road, Littleborough, Lancashire, Greater Manchester, OL15 9EG	New Vehicles	Motoring
1	26m SW	Manchester Onsite Spray Solutions	49, Todmorden Road, Littleborough, Greater Manchester, OL15 9EA	Industrial Coatings and Finishings	Industrial Products
B	34m NW	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
2	36m SE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
B	54m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
B	57m N	Stanton Motor Garage	Unit 4, Python Industrial Estate, Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	61m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
B	68m NE	G N G Foam Converters Lancs Ltd	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Rubber, Silicones and Plastics	Industrial Products
B	70m NE	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
3	102m E	Mast (Telecommunication)	Greater Manchester, OL15	Telecommunications Features	Infrastructure and Facilities
B	109m NE	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
D	115m NE	Mast (Telecommunication)	Greater Manchester, OL15	Telecommunications Features	Infrastructure and Facilities
D	115m N	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
B	125m NE	Freudenberg Performance Materials	Unit 1b Greenvale Business Park, Todmorden Road, Littleborough, Lancashire, Greater Manchester, OL15 9AH	Textiles, Fabrics, Silk and Machinery	Industrial Products
C	132m S	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
4	149m NE	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
E	159m SE	Mooring Posts	Greater Manchester, OL15	Moorings and Unloading Facilities	Water
C	163m S	Dustolex	Surface Preparation, Ebor Street, Littleborough, Greater Manchester, OL15 9AS	Air and Water Filtration	Industrial Products
C	163m S	Quickduct Ltd	Ebor Street, Littleborough, Greater Manchester, OL15 9AS	Cooling and Refrigeration	Industrial Products
5	172m SW	Abacus Weighing Services	7, Howarth Street, Littleborough, Greater Manchester, OL15 9DN	Measurement and Inspection Equipment	Industrial Products
C	173m SW	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
F	180m N	P D S	Greenvale Business Park, Todmorden Road, Littleborough, Greater Manchester, OL15 9AZ	General Construction Supplies	Industrial Products
6	187m SW	Rochdale House Clearance	7, Phoenix Street, Littleborough, Greater Manchester, OL15 9DR	Clearance and Salvage Dealers	Recycling Services
7	190m S	Victoria Garage	Halifax Road, Littleborough, Greater Manchester, OL15 0HB	Vehicle Repair, Testing and Servicing	Repair and Servicing
8	200m NE	Business Park	Greater Manchester, OL15	Business Parks and Industrial Estates	Industrial Features
F	201m N	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
C	205m S	Works	Greater Manchester, OL15	Unspecified Works Or Factories	Industrial Features
9	209m NE	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
10	238m SE	Electricity Sub Station	Greater Manchester, OL15	Electrical Features	Infrastructure and Facilities
11	245m S	Tank	Greater Manchester, OL15	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.



4.2 Current or recent petrol stations

Records within 500m**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 50](#) >

ID	Location	Company	Address	LPG	Status
B	11m N	UK	Todmorden Road, Littleborough, Greater Manchester, OL15 9EG	Not Applicable	Obsolete

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**1**

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

Features are displayed on the Current industrial land use map on [page 50](#) >

ID	Location	Address	Details	
13	398m W	Proofings Coated Textiles Ltd, 64 Hare Hill Road, Littleborough, Lancashire, OL15 9HE	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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	2
----------------------------	----------

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 50 >](#)

ID	Location	Address	Details	
12	394m SW	ACCESSRAMP&CARPARKSWO,ADJ ACENTLITTLEBOROUGH CARPARK,L ITLEBOROUGH,GREATERMANCHES TER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991149 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/10/1991 Revocation Date: 23/10/1991
15	487m SE	OLDMILLCOTTAGEAND,MILLSTON ECOTTAGE,EALEES,LITTLEBOROUGH,LANCASHIRE,OL15OHJ	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0171/1359 Permit Version: 1 Receiving Water: UNKNOWN	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 11/05/1971 Effective Date: 11/05/1971 Revocation Date: 02/03/2008

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



4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**6**

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 50 >](#)

ID	Location	Details	
B	30m N	Incident Date: 20/09/2002 Incident Identification: 109323 Pollutant: Contaminated Water Pollutant Description: Suspended Solids	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	40m NE	Incident Date: 26/11/2002 Incident Identification: 123182 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	95m S	Incident Date: 25/09/2003 Incident Identification: 192529 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
B	96m NE	Incident Date: 12/06/2004 Incident Identification: 243857 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	180m SE	Incident Date: 11/08/2002 Incident Identification: 99330 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)
14	415m S	Incident Date: 31/05/2008 Incident Identification: 591953 Pollutant: Inorganic Chemicals/Products Pollutant Description: Acids	Water Impact: Category 1 (Major) 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
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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

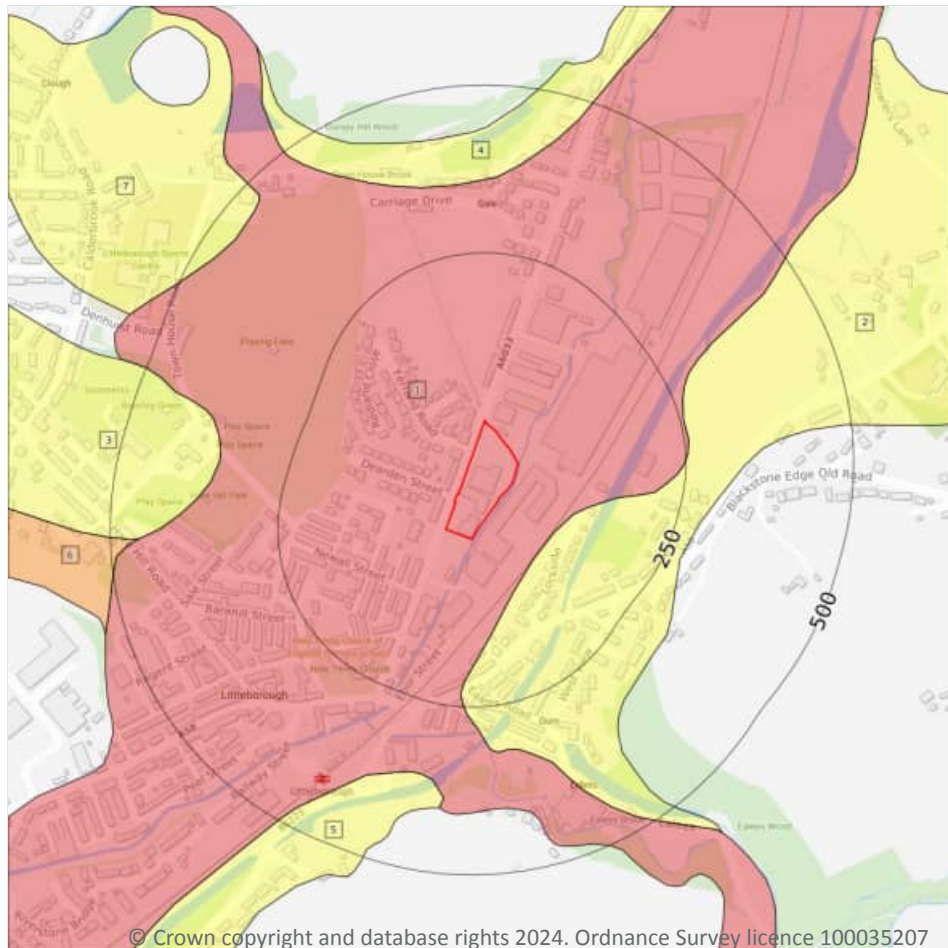
Records within 500m

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

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 59 >](#)

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	93m SE	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

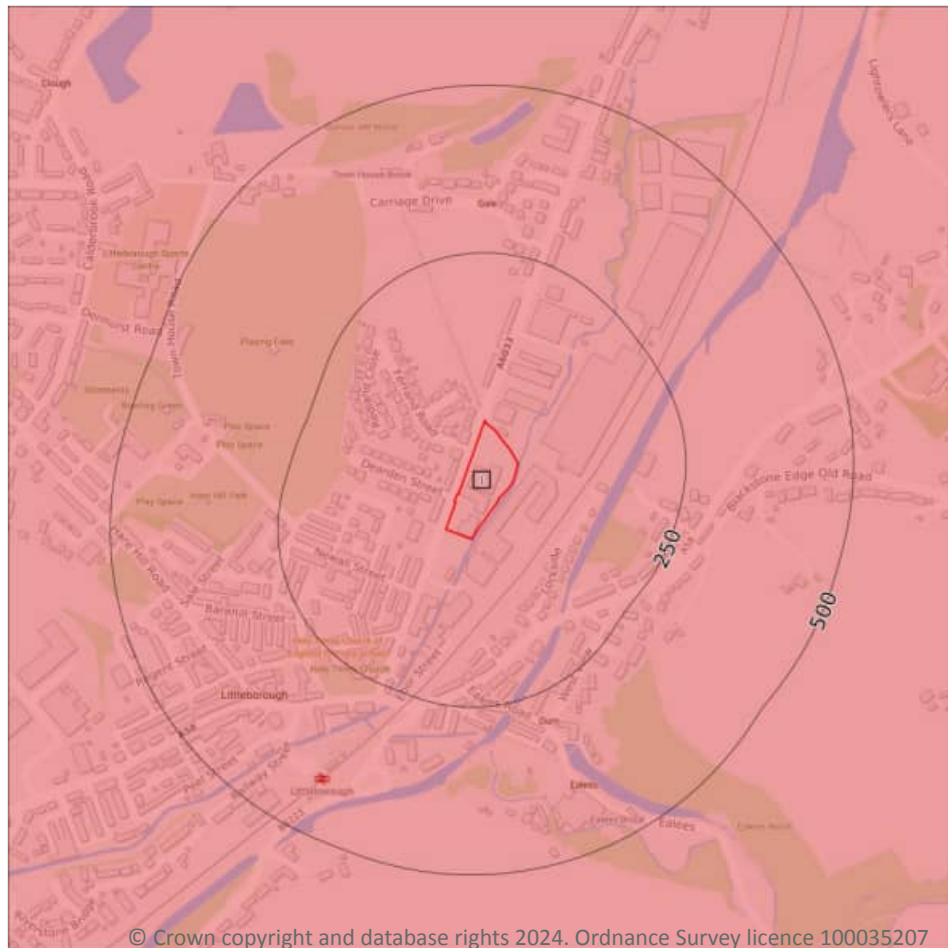


ID	Location	Designation	Description
3	352m W	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	354m N	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
5	358m 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
6	457m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
7	459m 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

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

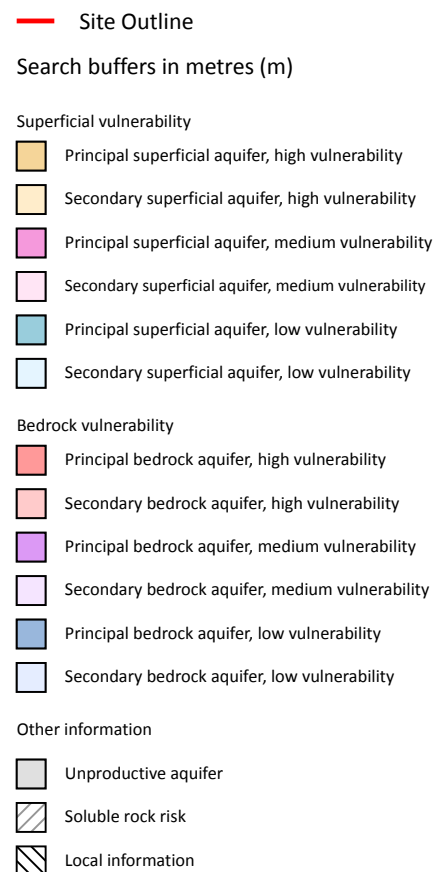
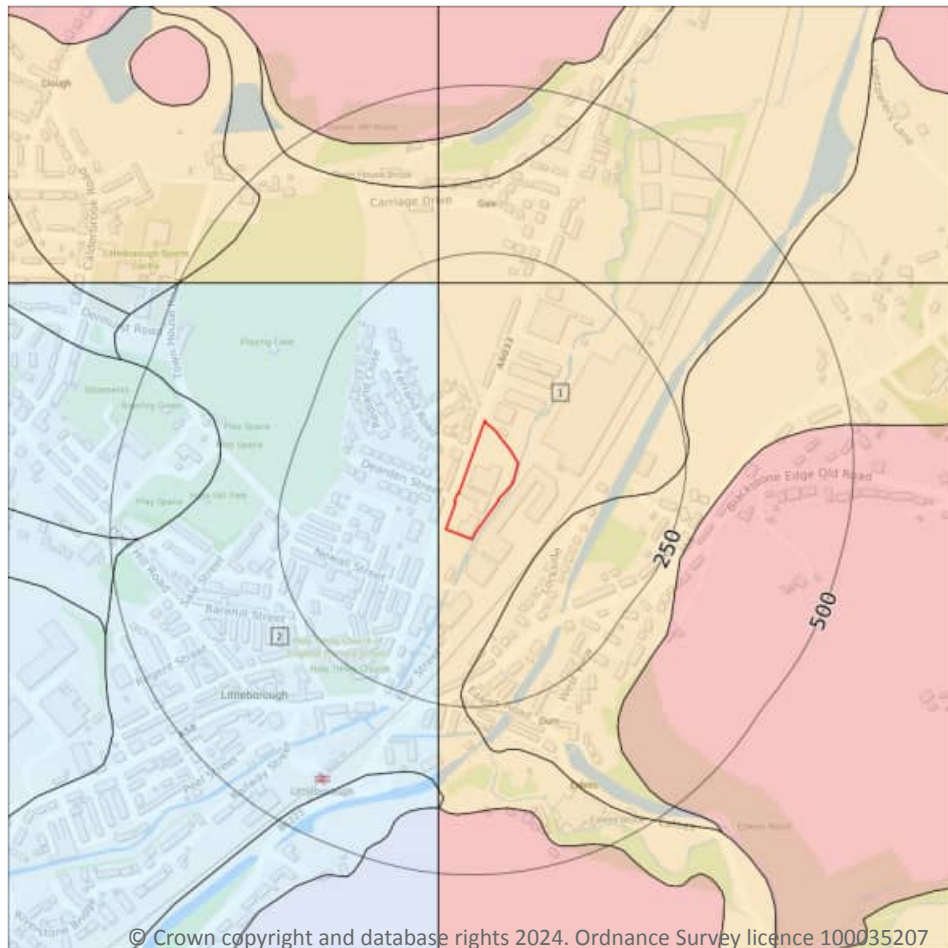
Features are displayed on the Bedrock aquifer map on [page 61](#) >

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on [page 62](#) >



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: <90% Recharge potential: High	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures
2	11m SW	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: 3-10m Patchiness value: <90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0
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This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

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

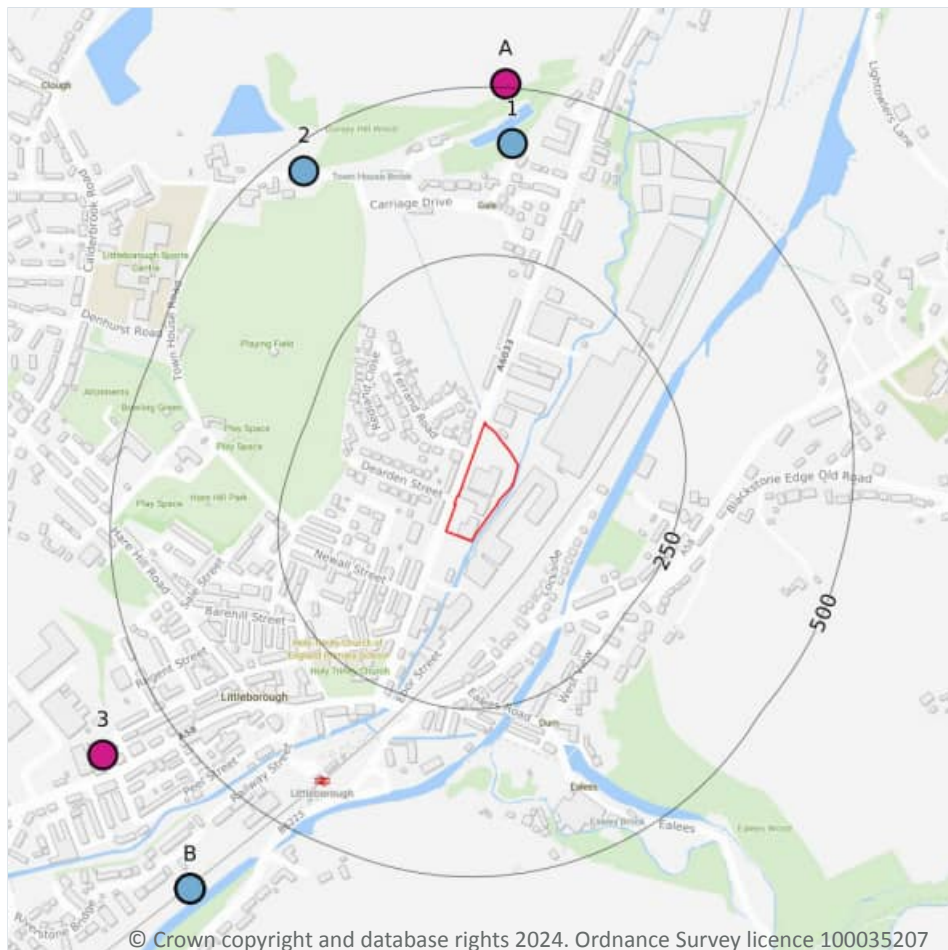
5.5 Groundwater vulnerability- local information

Records on site	0
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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

7

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 64 >](#)

ID	Location	Details	
A	506m N	Status: Historical Licence No: 2569002062 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BRICK LINED CATCHPIT AT HIGHER GALE,GALE, LITTLEBOROUGH" Data Type: Point Name: HARRISON Easting: 394100 Northing: 417300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -
A	506m N	Status: Historical Licence No: 2569002062 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BRICK LINED CATCHPIT AT HIGHER GALE,GALE, LITTLEBOROUGH Data Type: Point Name: HARRISON Easting: 394100 Northing: 417300	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 10/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 10/02/1966 Version End Date: -
3	610m SW	Status: Historical Licence No: 2569002250 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOCKTON STREET LITTLEBOROUGH Data Type: Point Name: VITA THERMOPLASTIC COMPOUNDS LTD Easting: 393500 Northing: 416300	Annual Volume (m³): 72730 Max Daily Volume (m³): 331 Original Application No: - Original Start Date: 23/01/1991 Expiry Date: - Issue No: 101 Version Start Date: 24/10/2005 Version End Date: -
-	792m NE	Status: Historical Licence No: NW/069/0002/016 Details: Dewatering Direct Source: Ground Water - North West Region Point: UNDERGROUND STRATA OF ALLUVIUM DESPOSITS AT GALE Data Type: Poly4 Name: J. Murphy & Sons Limited Easting: 394501 Northing: 417529	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 01/10/2021 Expiry Date: 31/01/2022 Issue No: 1 Version Start Date: 01/10/2021 Version End Date: -

ID	Location	Details	
-	1261m SE	Status: Historical Licence No: 2569002246 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH" Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1261m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1261m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM SHORE LANE LITTLEBOROUGH Data Type: Point Name: WHITTAKER MANAGEMENT COMPANY LTD Easting: 394720 Northing: 415550	Annual Volume (m ³): 2727.6 Max Daily Volume (m ³): 18.184 Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1994 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

65

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 64 >](#)



ID	Location	Details	
1	417m N	Status: Historical Licence No: 2569002240 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: TOWN HOUSE BROOK AND GALE HOUSE RESERVOIR OVERFLOW111 Data Type: Point Name: WALSDEN PRINTING CO LTD Easting: 394110 Northing: 417210	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1989 Expiry Date: - Issue No: 100 Version Start Date: 13/12/1996 Version End Date: -
2	462m NW	Status: Historical Licence No: 2569002240 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: TOWN HOUSE BROOK AND GALE HOUSE RESERVOIR OVERFLOW AT LI Data Type: Point Name: WALSDEN PRINTING CO LTD Easting: 393800 Northing: 417170	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/07/1989 Expiry Date: - Issue No: 100 Version Start Date: 13/12/1996 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
B	655m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH 95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH \$95" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m³): - Max Daily Volume (m³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
B	655m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH S95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH S95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH S95 Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
B	655m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
B	655m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
B	655m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393630 Northing: 416100	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	848m SE	Status: Historical Licence No: 2569002136 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH Data Type: Point Name: FOTHERGILL ENGINEERED FABRICS LTD Easting: 394500 Northing: 415900	Annual Volume (m ³): 35641 Max Daily Volume (m ³): 136 Original Application No: 0074 Original Start Date: 01/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/06/2007 Version End Date: -
-	848m SE	Status: Historical Licence No: 2569002136 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH Data Type: Point Name: FOTHERGILL ENGINEERED FABRICS LTD Easting: 394500 Northing: 415900	Annual Volume (m ³): 35641 Max Daily Volume (m ³): 136 Original Application No: 0074 Original Start Date: 01/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/06/2007 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
-	955m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH" Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -



ID	Location	Details	
-	955m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES, LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -
-	955m SW	Status: Historical Licence No: 2569002008 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ROCHDALE CANAL AT PREMISES LITTLEBOROUGH Data Type: Point Name: AKZO NOBEL CHEMICALS LTD Easting: 393450 Northing: 415860	Annual Volume (m ³): 1654780 Max Daily Volume (m ³): 4546 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/11/1994 Version End Date: -

ID	Location	Details	
-	979m NW	Status: Historical Licence No: 2569001244 Details: Make-Up or Top Up Water Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONG CLOUGH BROOK, LITTLEBOROUGH" Data Type: Point Name: LITTLEBOROUGH ANGLING SOCIETY Easting: 393300 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 13/07/1993 Version End Date: -
-	979m NW	Status: Historical Licence No: 2569002271 Details: Fish Farm/Cress Pond Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: LONG CLOUGH BROOK, LITTLEBOROUGH Data Type: Point Name: Todmorden Anglers Society Easting: 393300 Northing: 417400	Annual Volume (m ³): 72000 Max Daily Volume (m ³): 197.26 Original Application No: NPS/WR/030019 Original Start Date: 07/05/1993 Expiry Date: - Issue No: 5 Version Start Date: 24/12/2018 Version End Date: -
-	979m NW	Status: Historical Licence No: 2569002271 Details: Fish Farm/Cress Pond Throughflow Direct Source: "Surface, Non-Tidal - North West Region" Point: "LONG CLOUGH BROOK, LITTLEBOROUGH" Data Type: Point Name: BARBER Easting: 393300 Northing: 417400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 3 Version Start Date: 01/04/2000 Version End Date: -
-	979m NW	Status: Historical Licence No: 2569001244 Details: Make-Up Or Top Up Water Direct Source: Surface, Non-Tidal - North West Region Point: LONG CLOUGH BROOK, LITTLEBOROUGH Data Type: Point Name: LITTLEBOROUGH ANGLING SOCIETY Easting: 393300 Northing: 417400	Annual Volume (m ³): 72000 Max Daily Volume (m ³): 197.26 Original Application No: - Original Start Date: 07/05/1993 Expiry Date: - Issue No: 100 Version Start Date: 13/07/1993 Version End Date: -
-	1019m NE	Status: Historical Licence No: NW/069/0002/012 Details: General Use Relating To Secondary Category (Very Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: CANAL FEEDER AT LYDGATE BROOK Data Type: Point Name: Canal and River Trust Easting: 394713 Northing: 417585	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -



ID	Location	Details	
-	1019m NE	Status: Historical Licence No: NW/069/0002/012 Details: Supply To A Canal For Throughflow Direct Source: Surface, Non-Tidal - North West Region Point: CANAL FEEDER AT LYDGATE BROOK Data Type: Point Name: Canal and River Trust Easting: 394713 Northing: 417585	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: NPS/NA/000649 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1045m SE	Status: Historical Licence No: 2569002230 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "UNNAMED WATERCOURSE AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394700 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1985 Version End Date: -
-	1045m SE	Status: Historical Licence No: 2569002230 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNNAMED WATERCOURSE AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394700 Northing: 415800	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1305m N	Status: Historical Licence No: 2569002234 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "MILL RESERVOIR AT CALDERBROOK, LITTLEBOROUGH" Data Type: Point Name: CALDERBROOK JUTE CO Easting: 394100 Northing: 418100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 12/11/1986 Expiry Date: - Issue No: 100 Version Start Date: 12/11/1986 Version End Date: -



ID	Location	Details	
-	1305m N	Status: Historical Licence No: 2569002234 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: MILL RESERVOIR AT CALDERBROOK, LITTLEBOROUGH Data Type: Point Name: CALDERBROOK JUTE CO Easting: 394100 Northing: 418100	Annual Volume (m ³): 18184 Max Daily Volume (m ³): 36.37 Original Application No: - Original Start Date: 12/11/1986 Expiry Date: - Issue No: 100 Version Start Date: 12/11/1986 Version End Date: -
-	1347m SE	Status: Historical Licence No: 2569002232 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1347m SE	Status: Historical Licence No: 2569002232 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1347m SE	Status: Historical Licence No: 2569002232 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -



ID	Location	Details	
-	1347m SE	Status: Historical Licence No: 2569002232 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKERGOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1518m SE	Status: Historical Licence No: 2569002231 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "SHORE LANE BRK AT LITTLEBOROUGH, LANCS" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 395400 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 23/05/1985 Version End Date: -
-	1518m SE	Status: Historical Licence No: 2569002231 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: SHORE LANE BRK AT LITTLEBOROUGH, LANCS Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 395400 Northing: 415900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI" Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	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: 25/05/1994 Version End Date: -



ID	Location	Details	
-	1524m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI" Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI" Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	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: 25/05/1994 Version End Date: -



ID	Location	Details	
-	1524m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISES, LI Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1524m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395300 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -

ID	Location	Details	
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE\$96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -

ID	Location	Details	
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE\$96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE\$96 Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -



ID	Location	Details	
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS (2) FED BY SURFACE DRAINAGE AT PREMISE Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	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: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -
-	1604m NE	Status: Historical Licence No: 2569002039 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIRS X 2 FED BY SURFACE DRAINAGE LITTLEBOROUGH Data Type: Point Name: ALDERBURGH LTD Easting: 395400 Northing: 417700	Annual Volume (m ³): 181840 Max Daily Volume (m ³): 1136 Original Application No: 0331 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 25/05/1994 Version End Date: -

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



5.8 Potable abstractions

Records within 2000m

5

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 64](#) >

ID	Location	Details	
-	1261m SE	Status: Historical Licence No: 2569002246 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH" Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1261m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM, SHORE LANE, LITTLEBOROUGH Data Type: Point Name: SUTCLIFFE Easting: 394720 Northing: 415550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 100 Version Start Date: 03/09/1991 Version End Date: -
-	1261m SE	Status: Historical Licence No: 2569002246 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: Ground Water - North West Region Point: BOREHOLE AT WHITTAKER FARM SHORE LANE LITTLEBOROUGH Data Type: Point Name: WHITTAKER MANAGEMENT COMPANY LTD Easting: 394720 Northing: 415550	Annual Volume (m ³): 2727.6 Max Daily Volume (m ³): 18.184 Original Application No: - Original Start Date: 04/07/1991 Expiry Date: - Issue No: 101 Version Start Date: 01/04/1994 Version End Date: -



ID	Location	Details	
-	1347m SE	Status: Historical Licence No: 2569002232 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: "Surface, Non-Tidal - North West Region" Point: "SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH" Data Type: Point Name: WHITTAKER GOLF CLUB Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 19/12/2000 Version End Date: -
-	1347m SE	Status: Historical Licence No: 2569002232 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: SPRING FED STORAGE TANK AT WHITTAKER GOLF CLUB, LITTLEBOROUGH Data Type: Point Name: WHITTAKER ESTATE COMPANY LTD. Easting: 394800 Northing: 415500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1985 Expiry Date: - Issue No: 101 Version Start Date: 03/02/2004 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

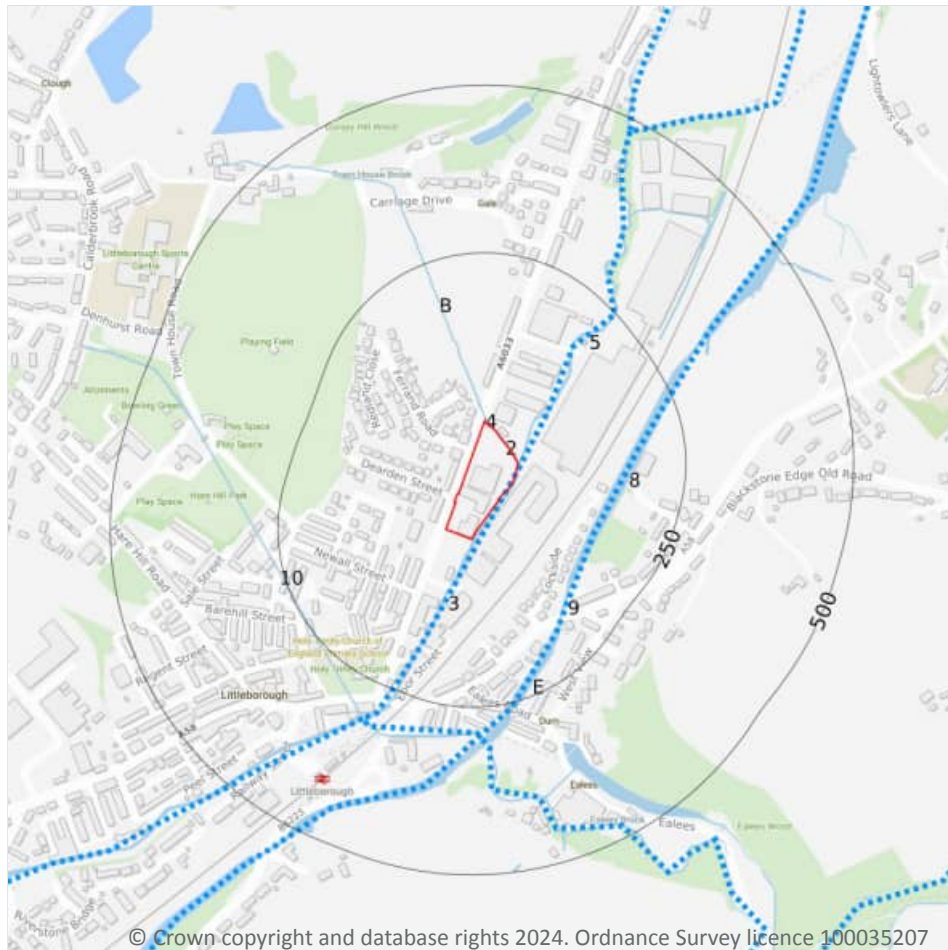
5.10 Source Protection Zones (confined aquifer)

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

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

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

6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

9

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

Features are displayed on the Hydrology map on [page 85 >](#)

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

ID	Location	Type of water feature	Ground level	Permanence	Name
3	2m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
4	3m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Town House Brook
5	4m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
B	20m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Town House Brook
8	142m E	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
9	163m SE	Lock or flight of locks. An enclosure in a canal or navigable river with gates and sluices at either end.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
E	171m SE	Canal. A manmade watercourse for inland navigation.	On ground surface	Watercourse contains water year round (in normal circumstances)	Rochdale Canal
10	247m SW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

6

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 85](#) >

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 85 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Roch (Source to Spodden)	GB112069064720	Roch Irk Medlock	Irwell

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

6.4 WFD Surface water bodies

Records identified

2

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 85 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	On site	River	Roch (Source to Spodden)	GB112069064720 ↗	Moderate	Fail	Moderate	2019
7	142m E	Canal	Rochdale Canal, western section	GB71210517 ↗	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.

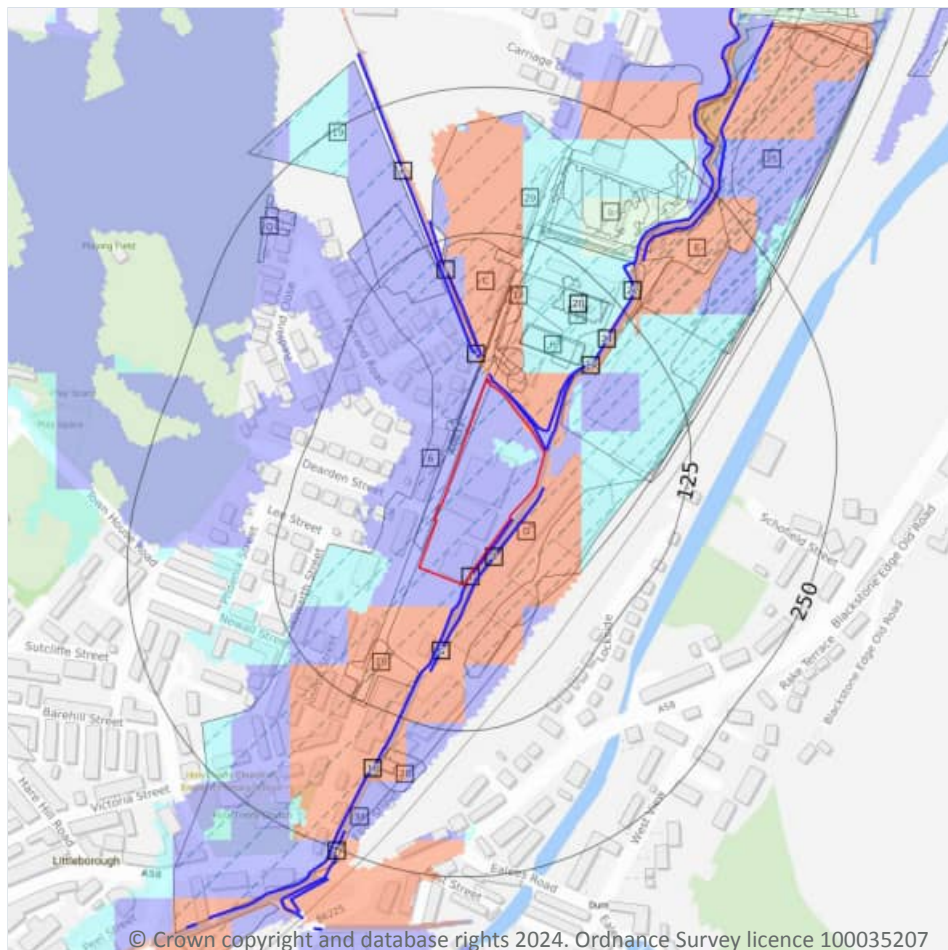
Features are displayed on the Hydrology map on [page 85](#) >

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

16

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 89](#) >



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

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

7.2 Historical Flood Events

Records within 250m	22
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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 89](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
A	On site	Littleborough	2015-12-26 2015-12-26	Main river	Overtopping of defences	Fluvial
B	On site	Todmorden Road	2019-03-16 2019-03-16	Unknown	Local drainage/surface water	Fluvial
C	1m SW	Towh	2002-02-08 2002-02-09	Main river	Channel capacity exceeded (no raised defences)	Fluvial
E	9m N	Ea01327_06_July_2012_Roch_Greenvale_Business_Park	2012-07-06 2012-07-06	Main river	Overtopping of defences	Fluvial
D	16m SE	Ea01327_18 November 2009_River Roch_Gng_Foam	2009-11-18 2009-11-19	Main river	Operational failure/breach of defence	Fluvial
D	17m SE	Ea01327_10 January 2008_River Roch_Gng Foam	2008-01-10 2008-01-11	Main river	Operational failure/breach of defence	Fluvial
6	21m NW	Ea01327_21 January 2008_River Roch_Littleborough	2008-01-21 2008-01-22	Main river	Unknown	Fluvial
E	24m NE	Greenvale Business Park	2019-03-16 2019-03-16	Unknown	Unknown	Fluvial
E	33m SE	Roch	2002-02-08 2002-02-09	Main river	Channel capacity exceeded (no raised defences)	Fluvial
H	41m N	Roch	1998-03-06 1998-03-07	Unknown	Obstruction/blockage - channel	No data



ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
H	42m N	Roch	1998-10-23 1998-10-24	Unknown	Obstruction/blockage - channel	No data
16	70m SW	Roch	2002-06-14 2002-06-15	Main river	Channel capacity exceeded (no raised defences)	Fluvial
17	75m N	Roch	1980-10-23 1980-10-24	Unknown	Obstruction/blockage - channel	No data
19	81m N	Towh	1998-10-23 1998-10-24	Main river	Channel capacity exceeded (no raised defences)	Fluvial
C	131m N	Ea01327_21 January 2008_Town House Brook_Durn	2008-01-21 2008-01-22	Main river	Unknown	Fluvial
25	132m N	Littleborough	2019-07-28 2019-07-31	Main river	Channel capacity exceeded (no raised defences)	Fluvial
28	154m S	Ebor Street	2019-03-16 2019-03-16	Main river	Channel capacity exceeded (no raised defences)	Fluvial
29	158m N	Ea01327_21 January 2008_Town House Brook_Durn	2008-01-21 2008-01-22	Main river	Unknown	Fluvial
L	176m NE	Roch	1998-10-23 1998-10-24	Unknown	Channel capacity exceeded (no raised defences)	No data
Q	210m NW	Towh	2002-06-14 2002-06-15	Main river	Channel capacity exceeded (no raised defences)	Fluvial
Q	211m NW	Towh	2000-06-01 2000-06-02	Unknown	Channel capacity exceeded (no raised defences)	No data
34	215m S	Ea01327_17 July 2003_River Roch_Eborstreetmotors	2003-07-17 2003-07-17	Main river	Operational failure/breach of defence	Fluvial

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

7.3 Flood Defences

Records within 250m

23

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.

Features are displayed on the River and coastal flooding map on [page 89](#) >



ID	Location	Update
B	On site	08/11/2022
3	On site	08/11/2022
D	2m SE	08/11/2022
A	2m NE	08/11/2022
A	2m NE	08/11/2022
B	3m N	08/11/2022
A	3m N	08/11/2022
4	7m E	08/11/2022
F	19m N	08/11/2022
F	20m N	08/11/2022
F	25m N	08/11/2022
F	25m N	08/11/2022
G	40m S	08/11/2022
G	48m S	08/11/2022
I	56m N	08/11/2022
14	59m NE	08/11/2022
18	78m S	08/11/2022
K	84m N	08/11/2022
21	90m NE	08/11/2022
22	109m NE	08/11/2022
E	163m NE	08/11/2022
E	165m NE	08/11/2022
T	233m S	08/11/2022

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



7.4 Areas Benefiting from Flood Defences

Records within 250m**3**

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.

Features are displayed on the River and coastal flooding map on [page 89](#) >

ID	Location	
20	83m N	Area benefiting from flood defences
L	155m N	Area benefiting from flood defences
E	177m NE	Area benefiting from flood defences

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

7.5 Flood Storage Areas

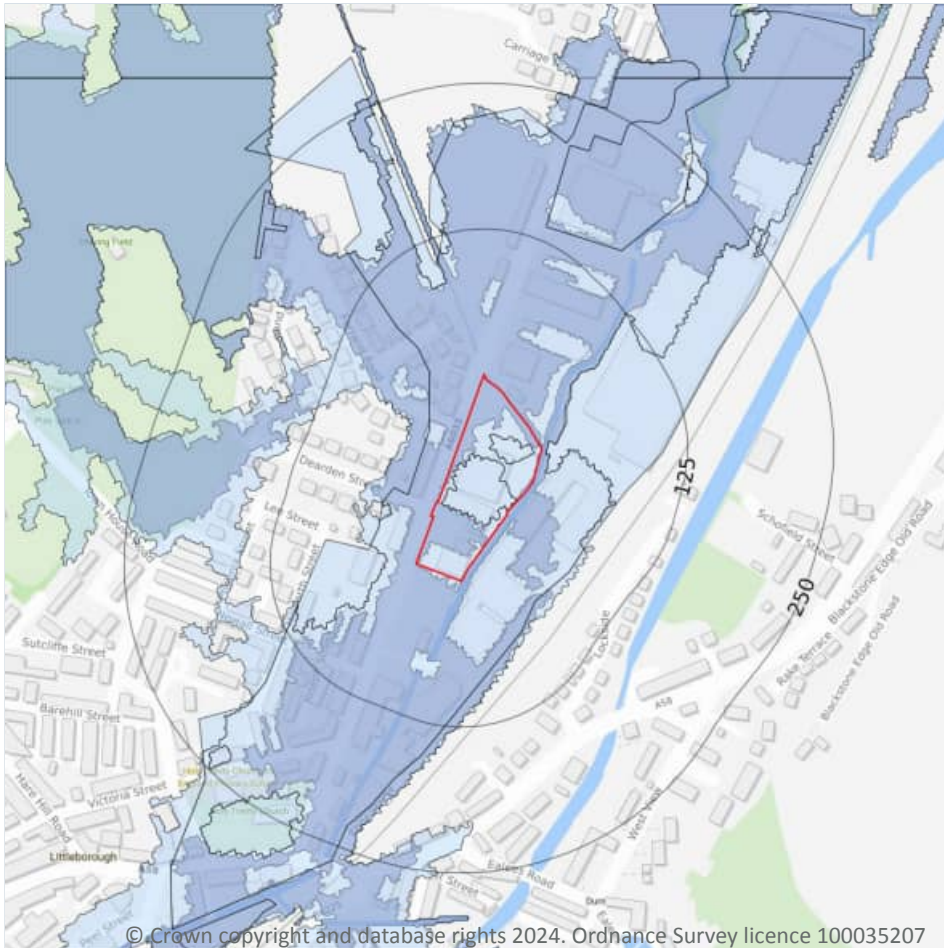
Records within 250m**0**

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 89](#) >

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.

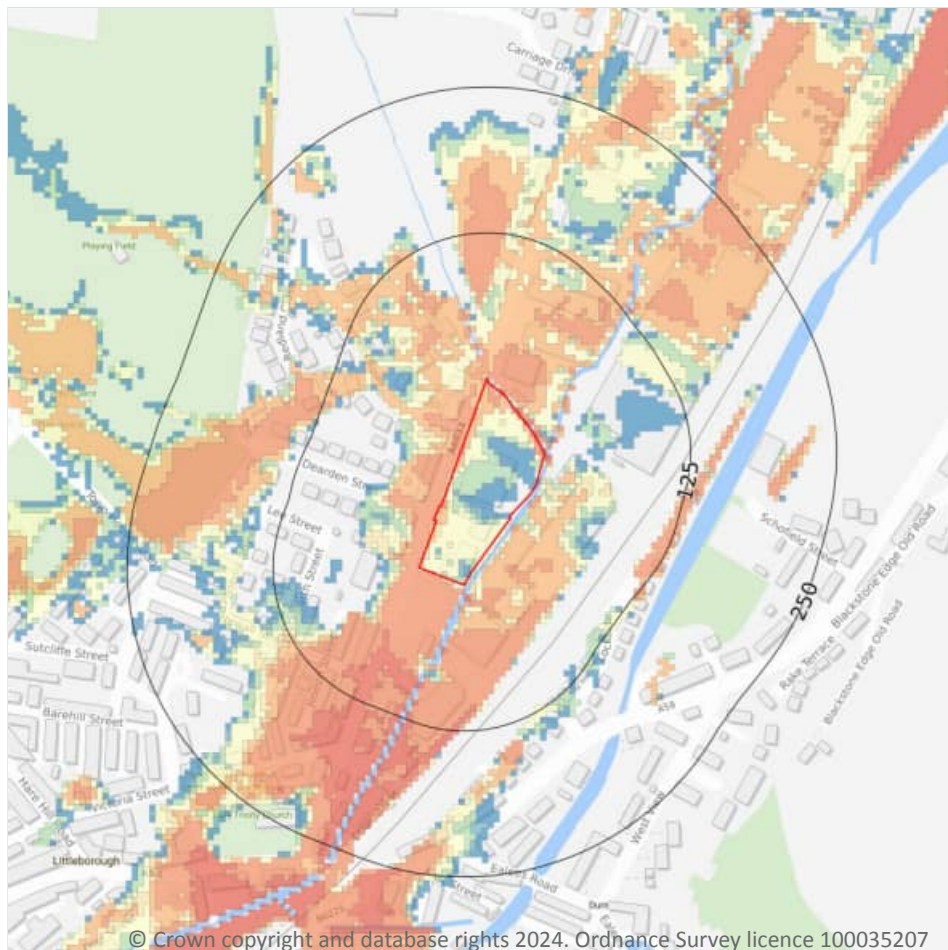
Features are displayed on the River and coastal flooding map on [page 89](#) >

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

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8.1 Surface water flooding

Highest risk on site

1 in 30 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 96 >](#)

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.

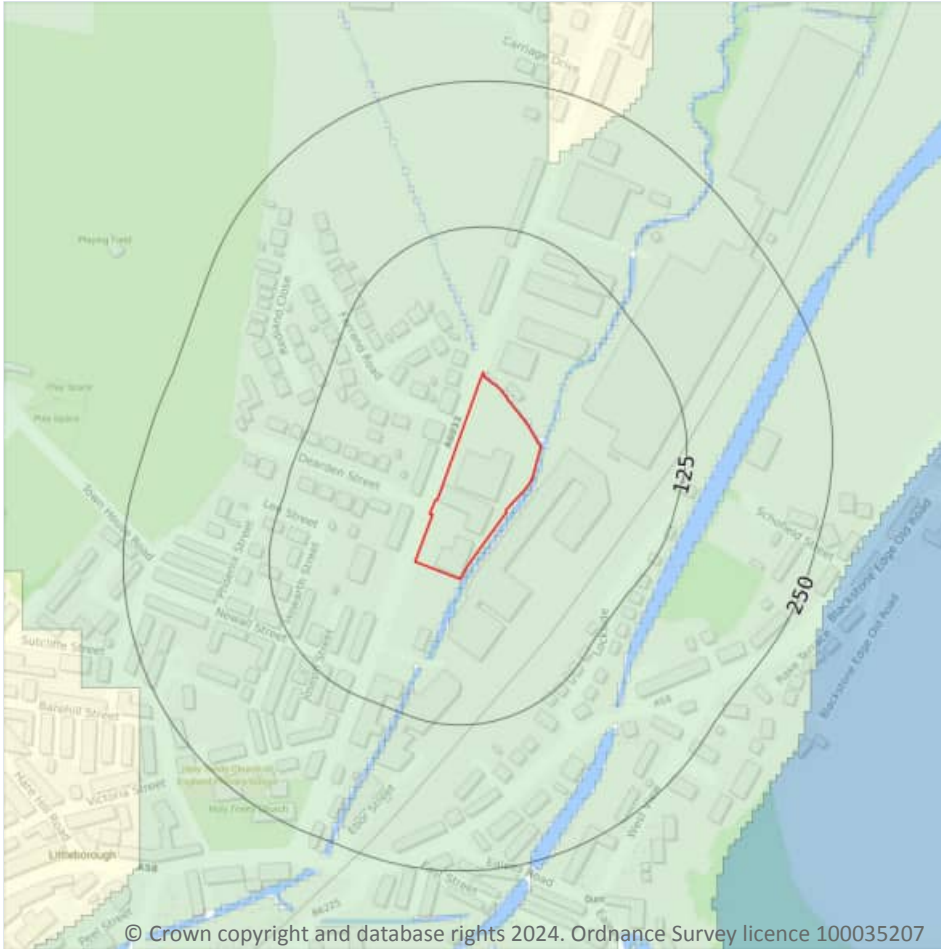
The table below shows the maximum flood depths for a range of return periods for the site.

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	Greater than 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

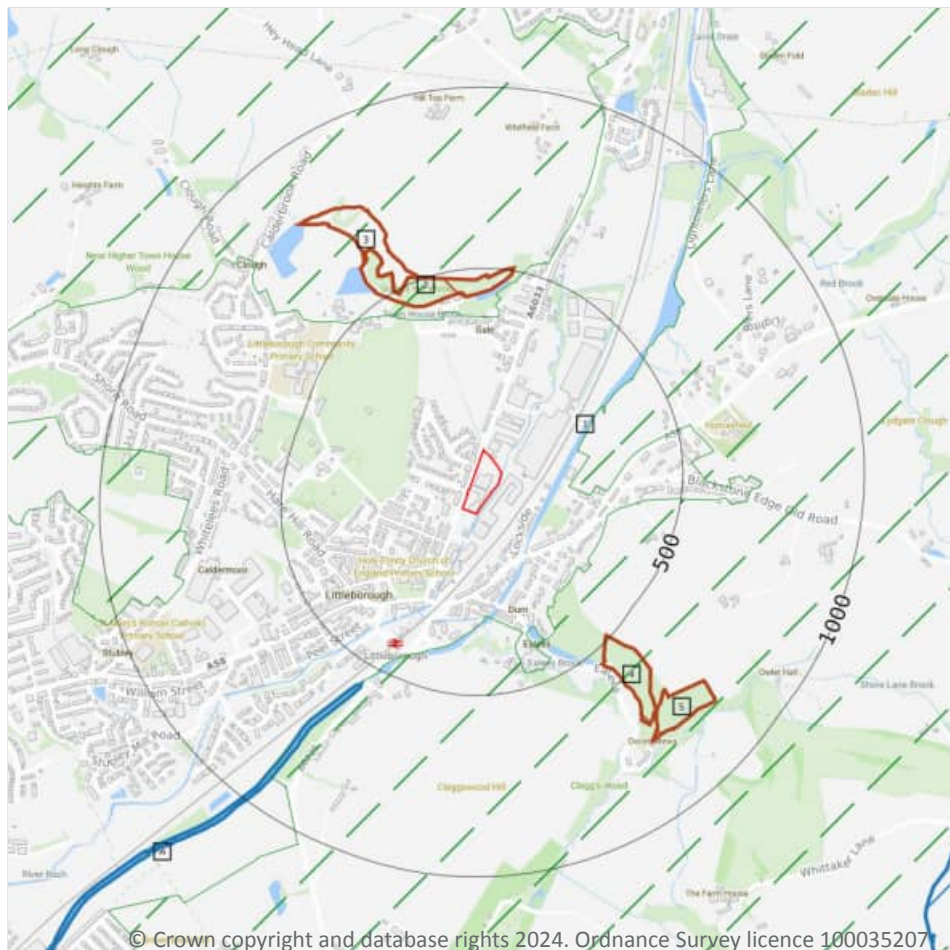
Low

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

Features are displayed on the Groundwater flooding map on [page 98](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Special Areas of Conservation (SAC)
- Special Protection Areas (SPA)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

3

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 99](#) >

ID	Location	Name	Data source
A	560m SW	Rochdale Canal	Natural England



ID	Location	Name	Data source
B	1460m E	South Pennine Moors	Natural England
-	1995m SW	Rochdale Canal	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

3

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

Features are displayed on the Environmental designations map on [page 99 >](#)

ID	Location	Name	Features of interest	Habitat description	Data source
A	560m SW	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England
B	1460m E	South Pennine Moors	Wet heathland with cross-leaved heath; Dry heaths; Blanket bog; Very wet mires often identified by an unstable `quaking` surface; Western acidic oak woodland.	Inland water bodies (Standing water, Running water); Humid grassland, Mesophile grassland; Mixed woodland; Heath, Scrub, Maquis and Garrigue, Phygrana; Non-forest areas cultivated with woody plants (including Orchards, groves, Vineyards, Dehesas); Bogs, Marshes, Water fringed vegetation, Fens; Broad-leaved deciduous woodland; Dry grassland, Steppes	Natural England

ID	Location	Name	Features of interest	Habitat description	Data source
-	1995m SW	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England

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

10.4 Special Protection Areas (SPA)

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

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

Features are displayed on the Environmental designations map on [page 99](#) >

ID	Location	Name	Species of interest	Habitat description	Data source
B	1460m E	South Pennine Moors Phase 2	Merlin; European golden plover; Short-eared owl	Inland water bodies (Standing water, Running water); Heath, Scrub, Maquis and Garrigue, Phygrana; Humid grassland, Mesophile grassland; Bogs, Marshes, Water fringed vegetation, Fens	Natural England

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0
-----------------------------	----------

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0
-----------------------------	----------

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.

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

10.7 Designated Ancient Woodland

Records within 2000m

4

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 99 >](#)

ID	Location	Name	Woodland Type
2	425m N	Unknown	Ancient & Semi-Natural Woodland
3	488m NW	Unknown	Ancient & Semi-Natural Woodland
4	489m SE	Ealees Wood	Ancient & Semi-Natural Woodland
5	709m SE	Ealees 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

1

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

Features are displayed on the Environmental designations map on [page 99](#) >

ID	Location	Name	Local Authority name
1	190m E	Merseyside and Greater Manchester Green Belt	Rochdale

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

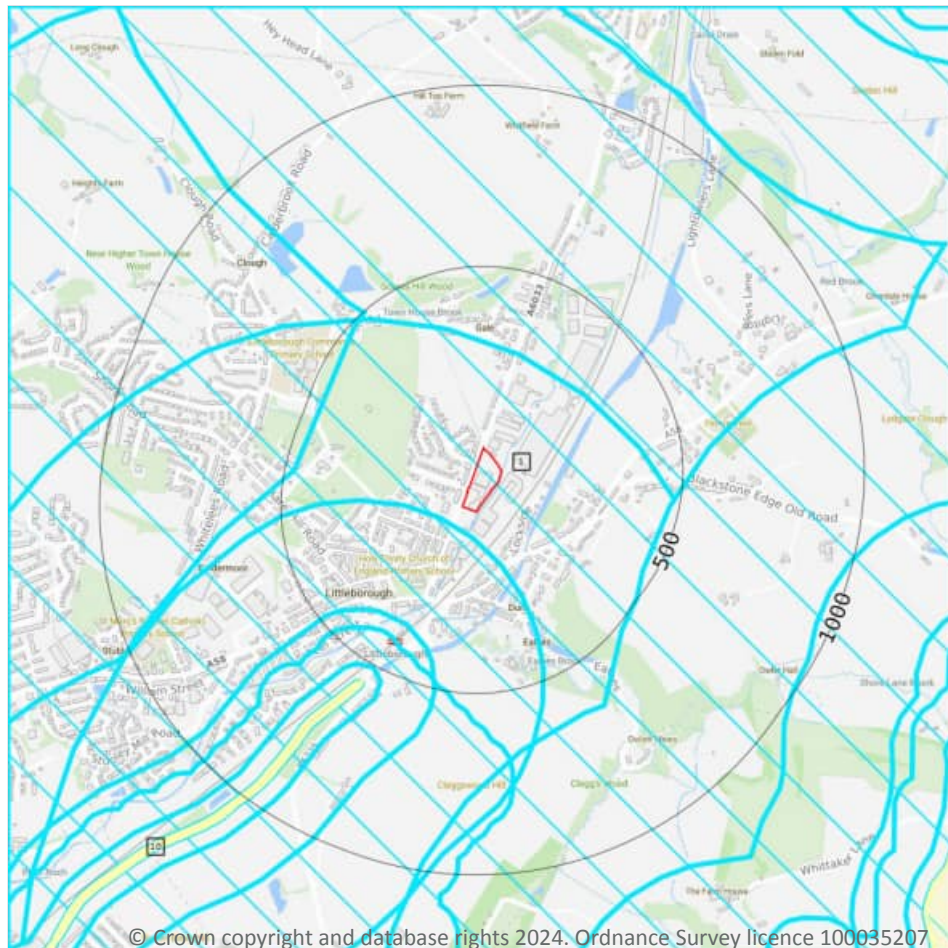
Records within 2000m

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 105](#) >

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. Wind and Solar - Solar schemes with footprint > 0.5ha, all wind turbines. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where footprint exceeds 1ha. Residential - Residential development of 50 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	3
-----------------------------	----------

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 105](#) >

ID: 10
 Location: 560m SW
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010



ID: 23
 Location: 1460m E
 SSSI name: South Pennine Moors
 Unit name: Clegg Moor
 Broad habitat: Bogs - Upland
 Condition: Unfavourable - Recovering
 Reportable features:

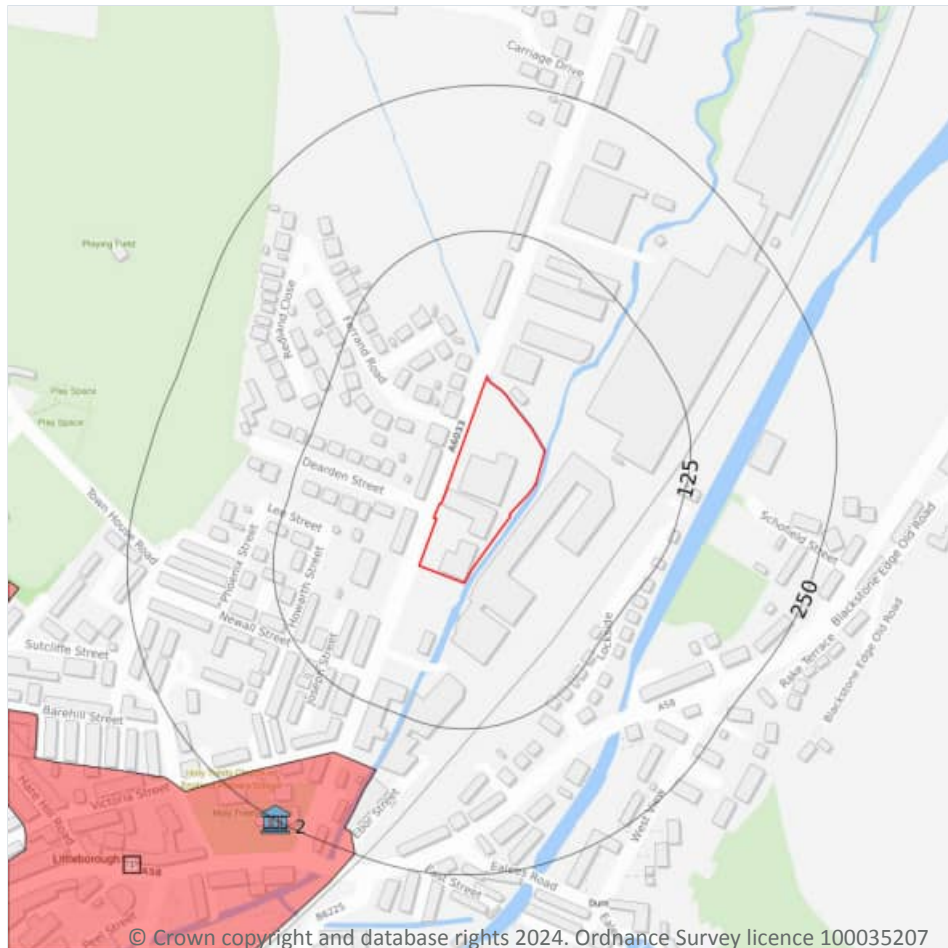
Feature name	Feature condition	Date of assessment
Aggregations of breeding birds - Golden plover, <i>Pluvialis apricaria</i>	-	-
Aggregations of breeding birds - Twite, <i>Carduelis flavirostris</i>	-	-
Assemblages of breeding birds - Upland moorland and grassland with water bodies	Favourable	25/03/2022
Assemblages of breeding birds - Upland moorland and grassland without water bodies	-	-
H4010 Northern Atlantic wet heaths with <i>Erica tetralix</i>	Unfavourable - Recovering	31/01/2014
H4030 European dry heaths	Unfavourable - Recovering	31/01/2014
H7130 Blanket bog	Unfavourable - Recovering	31/01/2014
Wet heath (upland)	-	-

ID: -
 Location: 1995m SW
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - <i>Luronium natans</i> , Floating Water-plantain	Unfavourable - Recovering	25/11/2010

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 108 >](#)

ID	Location	Name	Grade	Reference Number	Listed date
2	250m SW	Church Of The Holy Trinity	II	1068518	02/01/1967

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 108](#) >

ID	Location	Name	District	Date of designation
1	176m SW	Littleborough Town Centre	Rochdale	23/11/1977

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

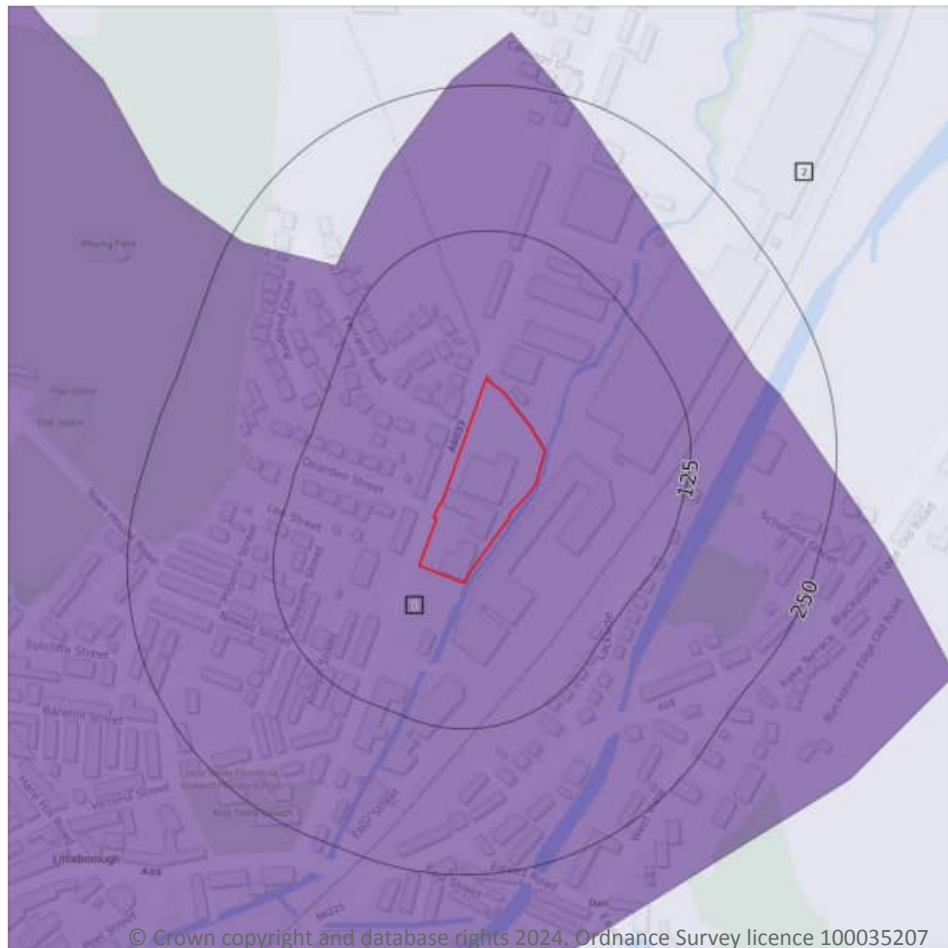
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 111](#) >

ID	Location	Classification	Description
1	On site	Urban	Non-agricultural/no quality assigned

ID	Location	Classification	Description
2	161m NW	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	0
----------------------------	----------

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0
----------------------------	----------

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

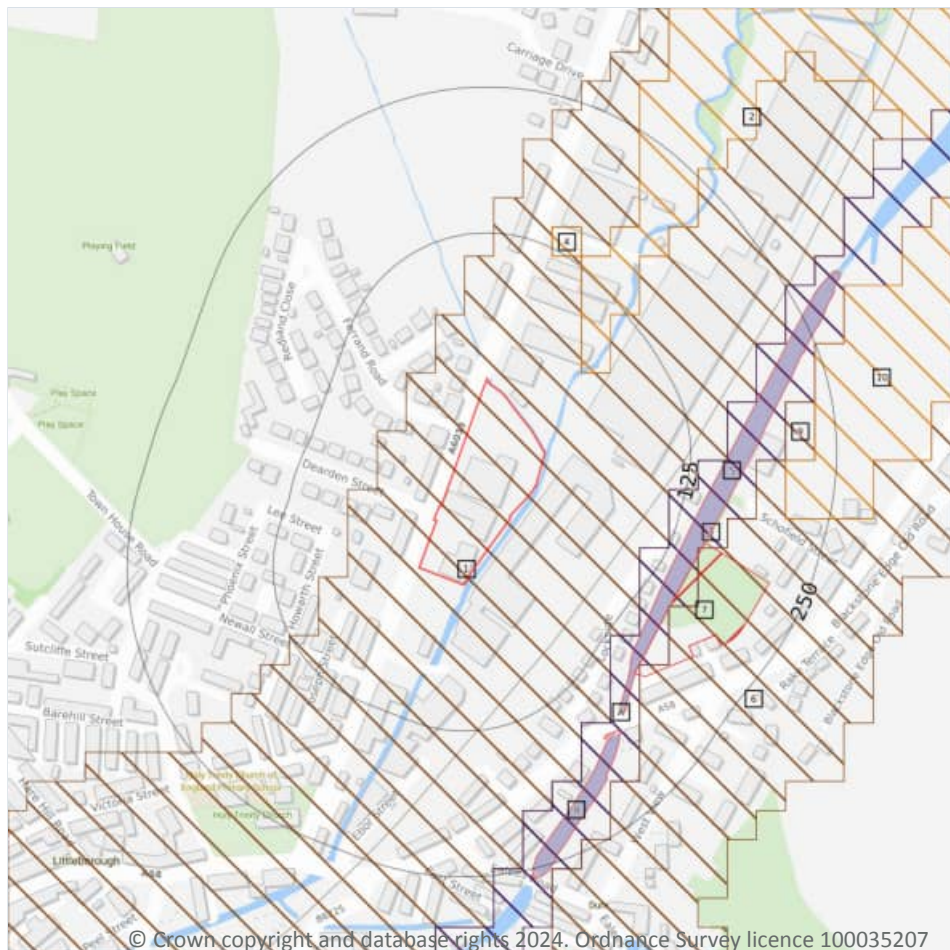
0

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

This data is sourced from Natural England.



13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

4

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 114](#) >

ID	Location	Main Habitat	Other habitats
5	135m E	Lowland fens	Main habitat: LFENS (INV > 50%)
A	171m SE	Lowland fens	Main habitat: LFENS (INV > 50%)
A	177m SE	Lowland fens	Main habitat: LFENS (INV > 50%)
8	180m SE	Lowland fens	Main habitat: LFENS (INV > 50%)



This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

7

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 114 >](#)

ID	Location	Type	Habitat
1	On site	Network Enhancement Zone 2	Not specified
2	64m NE	Network Enhancement Zone 1	Not specified
3	103m E	Primary Habitat	Lowland fens
4	119m N	Network Enhancement Zone 1	Not specified
6	149m E	Network Enhancement Zone 2	Not specified
9	206m E	Network Enhancement Zone 2	Not specified
10	206m E	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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.

Features are displayed on the Habitat designations map on [page 114 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
7	150m SE	NLUD Ref: 422500031	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.



13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



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

14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on [page 117](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD91NW

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

8

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 118](#) >

ID	Location	LEX Code	Description	Rock description
1	71m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	160m SE	WGR-VOID	Worked Ground (Undivided)	Void
3	185m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	277m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

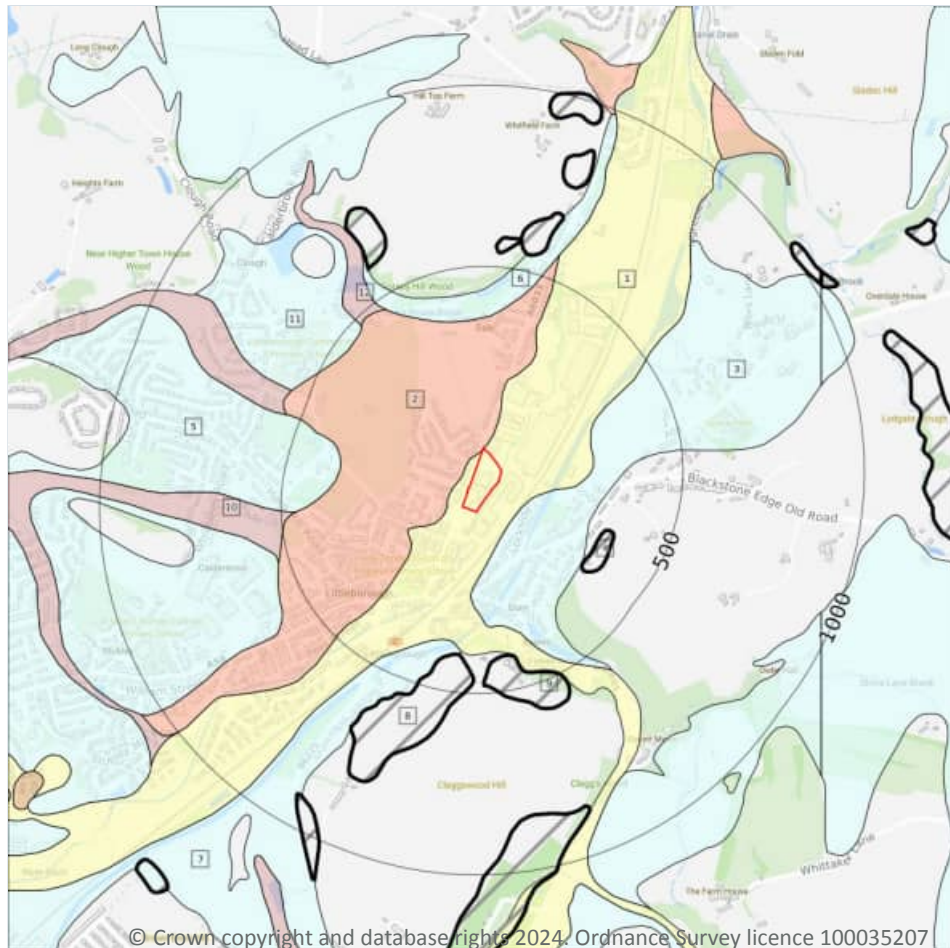


ID	Location	LEX Code	Description	Rock description
5	327m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	342m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	366m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	400m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



- Site Outline
- Search buffers in metres (m)
- Landslip (10k)
- Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m

9

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 120 >](#)

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	ALF-XSV	Alluvial Fan Deposits - Sand And Gravel	Sand And Gravel
3	93m SE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
5	352m W	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
6	353m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
7	362m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
10	457m W	HEAD-DMTN	Head - Diamicton	Diamicton
11	460m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
12	467m NW	HEAD-DMTN	Head - Diamicton	Diamicton

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.

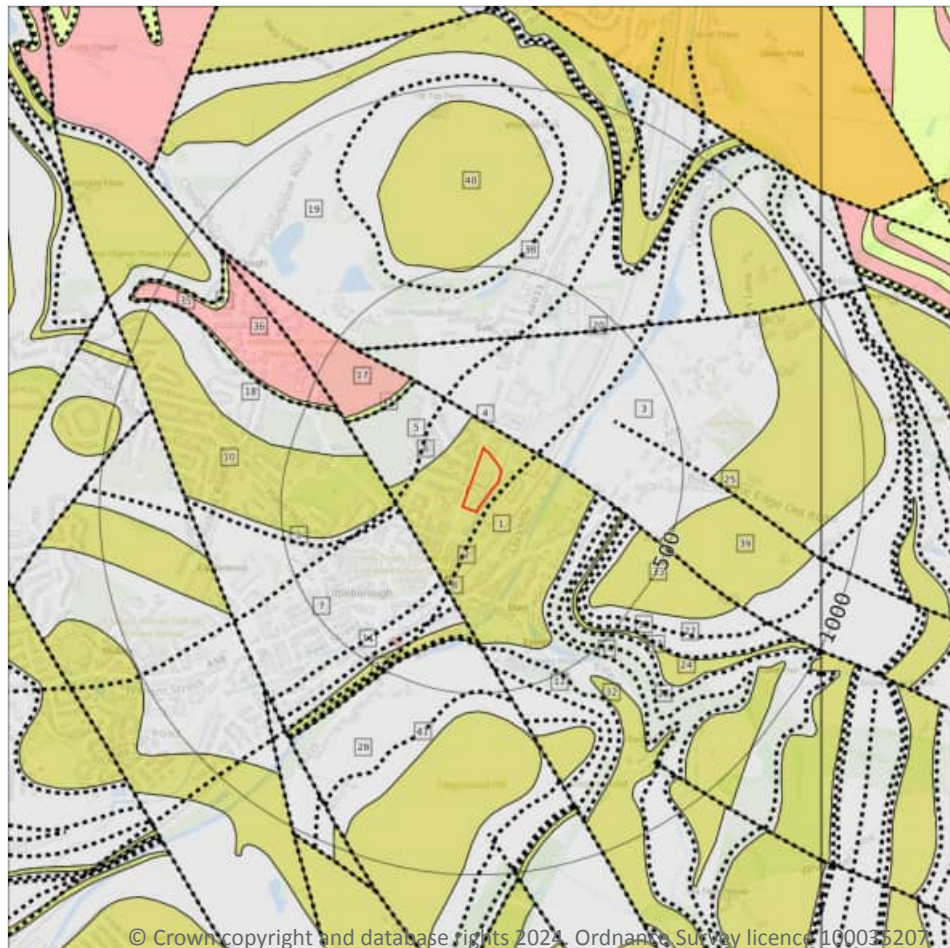
Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 120 >](#)

ID	Location	LEX Code	Description	Rock description
4	318m SE	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
8	395m S	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry
9	403m S	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

19

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 122 >](#)

ID	Location	LEX Code	Description	Rock age
1	On site	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
3	62m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
5	76m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
7	153m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	182m W	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
12	254m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
15	263m NW	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
17	276m NW	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
18	294m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	296m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	304m S	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
24	339m SE	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
27	346m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
28	353m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
33	389m SE	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
34	408m NW	MG-MDSI	Millstone Grit Group [see Also Migr] - Mudstone And Siltstone	Namurian Age
36	419m NW	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
39	471m E	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
40	489m N	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

22

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 122 >](#)



ID	Location	Category	Description
2	18m S	LANDFORM	Buried channel or valley margin
4	62m N	FAULT	Normal fault, inferred
6	152m W	LANDFORM	Buried channel or valley margin
8	153m SW	FAULT	Normal fault, inferred
9	172m W	ROCK	Coal seam, inferred
11	208m SW	ROCK	Coal seam, inferred
13	262m S	ROCK	Coal seam, inferred
14	262m E	ROCK	Coal seam, inferred
16	263m NW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
20	296m N	FAULT	Normal fault, inferred
22	306m SE	ROCK	Coal seam, inferred
23	331m SE	ROCK	Coal seam, inferred
25	340m NE	FAULT	Normal fault, inferred
26	346m S	ROCK	Coal seam, inferred
29	353m S	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
30	356m SE	ROCK	Coal seam, inferred
31	369m SE	ROCK	Coal seam, inferred
32	377m S	ROCK	Coal seam, inferred
35	408m NW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
37	435m S	ROCK	Coal seam, inferred
38	438m N	ROCK	Coal seam, inferred
41	494m S	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 125](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW076_rochdale_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

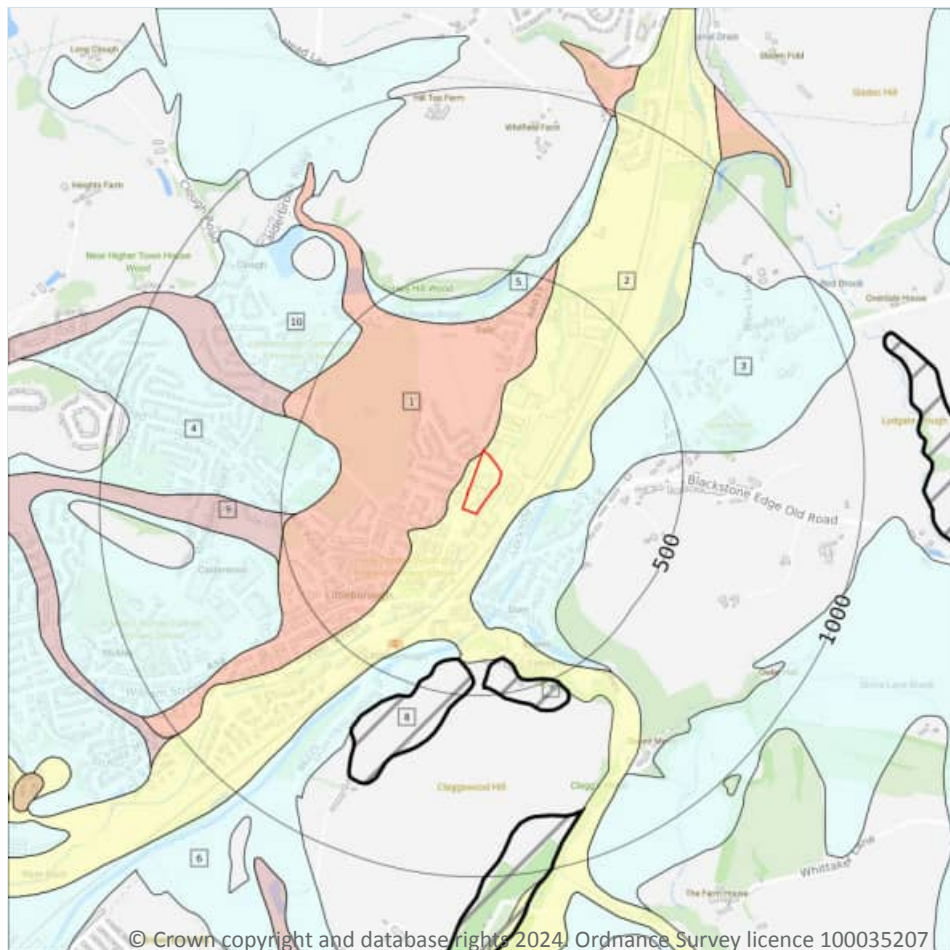
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

8

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 127 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALF-XSV	ALLUVIAL FAN DEPOSITS	SAND AND GRAVEL
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	93m SE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
4	352m W	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON



ID	Location	LEX Code	Description	Rock description
5	354m N	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	358m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
9	457m W	HEAD-DMTN	HEAD	DIAMICTON
10	459m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	2
---------------------------	----------

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	2
----------------------------	----------

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 127 >](#)

ID	Location	LEX Code	Description	Rock description
7	403m S	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY
8	403m S	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

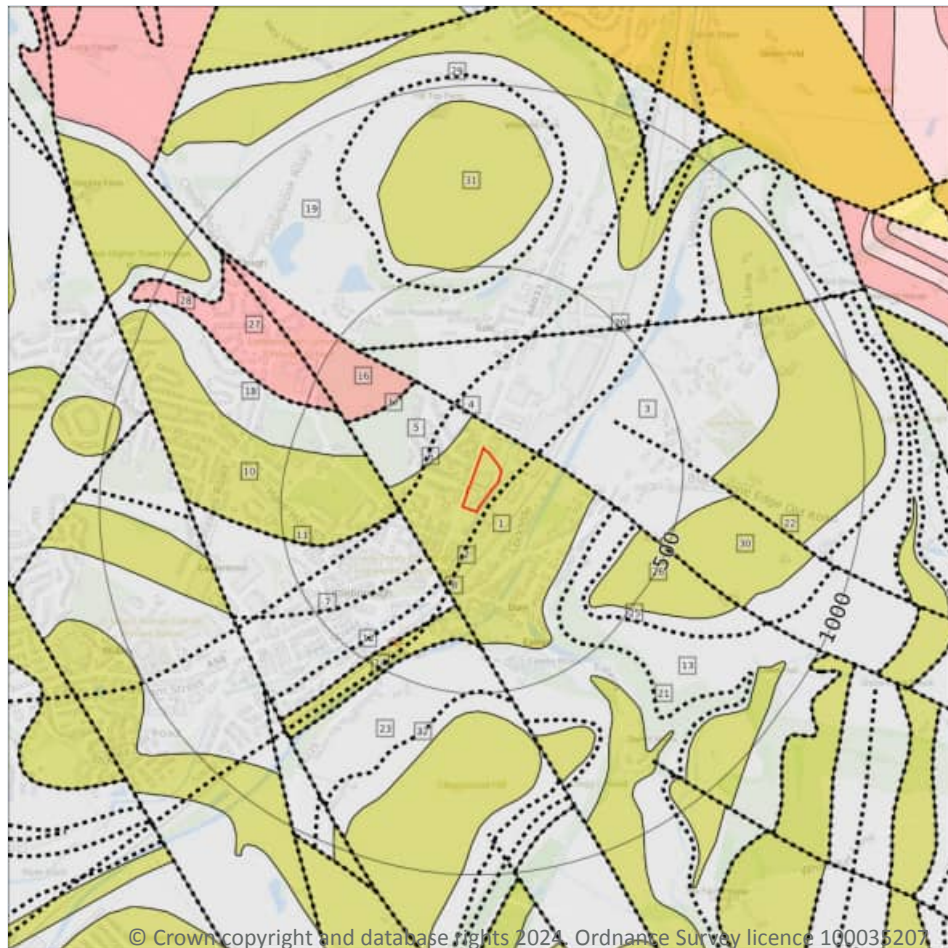
0

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

15

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 130](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
3	62m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	76m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
7	153m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	172m W	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
13	254m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	262m S	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN
16	263m NW	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
18	294m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	296m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
23	353m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	389m SE	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
27	409m NW	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
30	471m E	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
31	489m N	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

17

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.

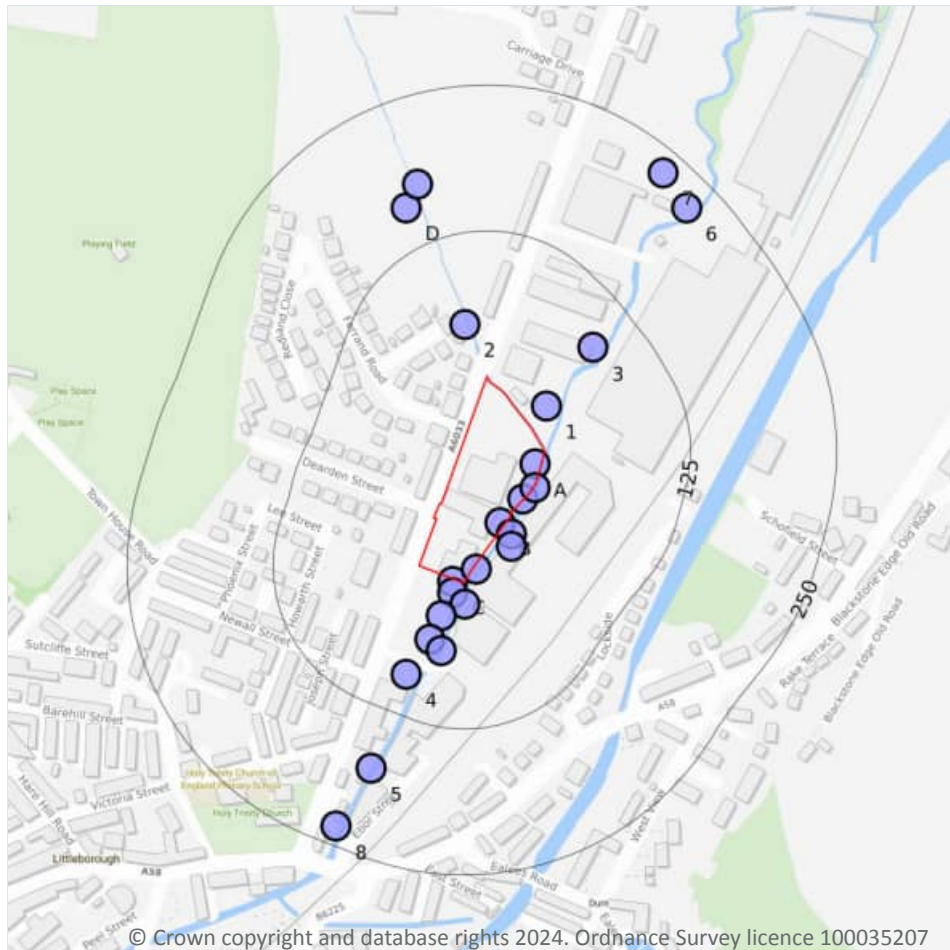
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 130](#) >

ID	Location	Category	Description
2	18m S	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
4	62m N	FAULT	Fault, inferred
6	132m NW	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
8	153m SW	FAULT	Fault, inferred
9	165m SW	ROCK	Coal seam, inferred
11	172m W	ROCK	Coal seam, inferred
12	208m SW	ROCK	Coal seam, inferred
15	262m S	ROCK	Coal seam, inferred
17	263m NW	ROCK	Coal seam, inferred
20	296m N	FAULT	Fault, inferred
21	306m SE	ROCK	Coal seam, inferred
22	340m NE	FAULT	Fault, inferred, displacement unknown
24	353m S	ROCK	Coal seam, inferred
25	369m SE	ROCK	Coal seam, inferred
28	409m NW	ROCK	Coal seam, inferred
29	438m N	ROCK	Coal seam, inferred
32	494m S	ROCK	Coal seam, 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

23

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 133](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	394110 416720	RIVER ROCH FLOOD ALLEVIATION SCHEME BH49	8.0	N	34925 ↗
A	On site	394100 416690	RIVER ROCH FLOOD ALLEVIATION SCHEME TP47	0.5	N	34913 ↗
B	On site	394080 416670	RIVER ROCH FLOOD ALLEVIATION SCHEME TP46	0.4	N	34912 ↗

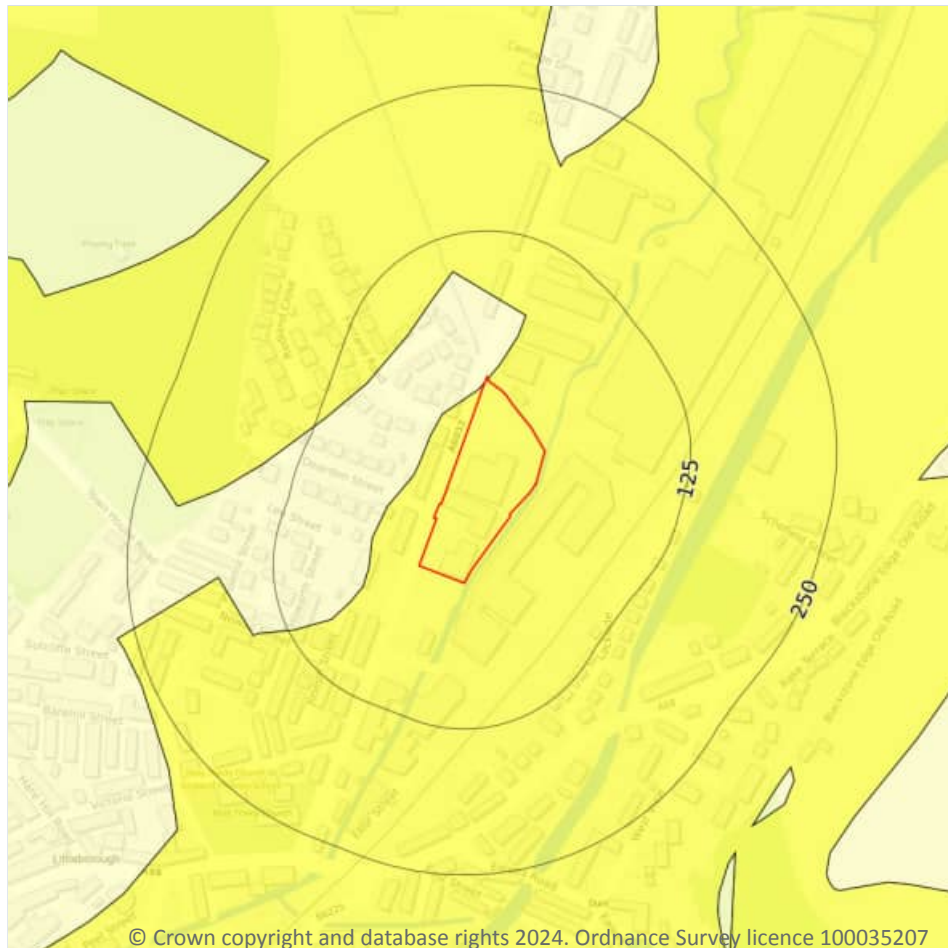


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	1m E	394110 416700	RIVER ROCH FLOOD ALLEVIATION SCHEME TP48	1.2	N	34914 ↗
C	2m S	394040 416620	RIVER ROCH FLOOD ALLEVIATION SCHEME TP43	0.4	N	34909 ↗
C	3m S	394060 416630	RIVER ROCH FLOOD ALLEVIATION SCHEME TP44	0.3	N	34910 ↗
B	10m SE	394090 416660	RIVER ROCH FAS ROCHDALE TP24	0.52	N	15943719 ↗
C	11m S	394040 416610	RIVER ROCH FLOOD ALLEVIATION BH12	8.0	N	34930 ↗
B	16m SE	394090 416650	RIVER ROCH FLOOD ALLEVIATION SCHEME TP45	0.6	N	34911 ↗
C	18m S	394050 416600	RIVER ROCH FLOOD ALLEVIATION SCHEME TP42	0.5	N	34908 ↗
1	22m NE	394120 416770	RIVER ROCH FAS ROCHDALE TP26	4.3	N	15943720 ↗
C	33m S	394030 416590	RIVER ROCH FLOOD ALLEVIATION SCHEME TP41	0.25	N	34907 ↗
2	49m N	394050 416840	RIVER ROCH FLOOD ALLEVIATION SCHEME BH50	8.0	N	34926 ↗
C	56m S	394020 416570	RIVER ROCH FLOOD ALLEVIATION SCHEME TP39	0.4	N	34906 ↗
C	61m S	394030 416560	RIVER ROCH FLOOD ALLEVIATION SCHEME BH40	9.0	N	34924 ↗
3	84m NE	394160 416820	RIVER ROCH FAS ROCHDALE TP30	2.7	N	15943723 ↗
4	91m S	394000 416540	RIVER ROCH FAS ROCHDALE TP29	1.8	N	15943722 ↗
D	161m N	394000 416940	RIVER ROCH FLOOD ALLEVIATION SCHEME TP55	3.0	N	34919 ↗
D	175m N	394010 416960	RIVER ROCH FLOOD ALLEVIATION SCHEME TP52	3.1	N	34916 ↗
5	176m S	393970 416460	RIVER ROCH FAS ROCHDALE TP23	2.5	N	15943718 ↗
6	223m NE	394240 416940	RIVER ROCH FAS ROCHDALE TP27	3.85	N	15943721 ↗
7	231m NE	394220 416970	RIVER ROCH FLOOD ALLEVIATION BH14	8.0	N	34931 ↗
8	234m SW	393940 416410	RIVER ROCH FAS ROCHDALE TP22	3.1	N	15943717 ↗

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).

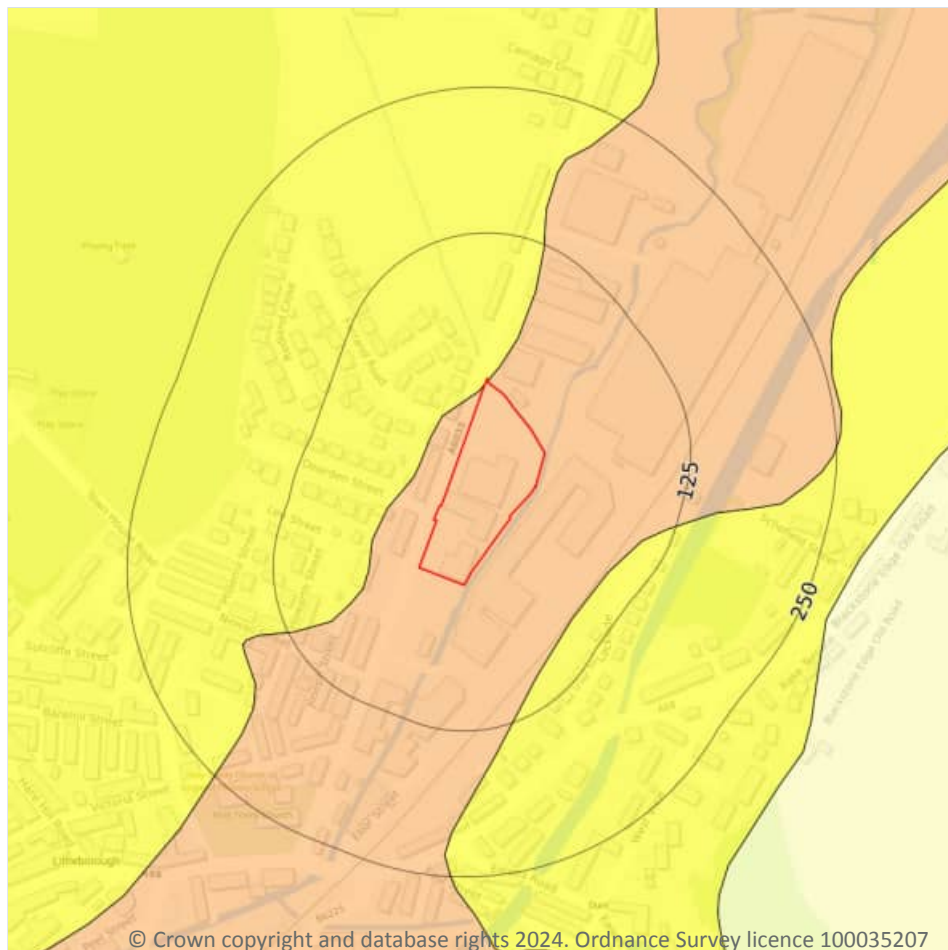
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 135 >](#)

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

2

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 136 >](#)

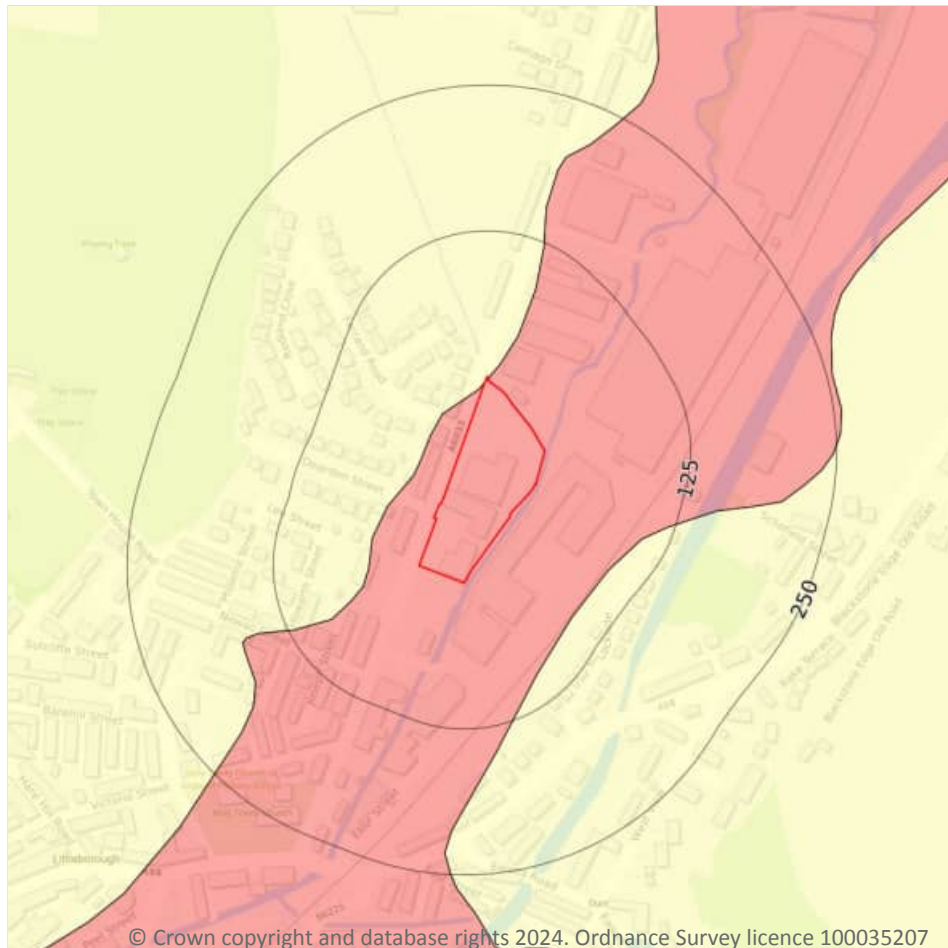
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
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 138](#) >

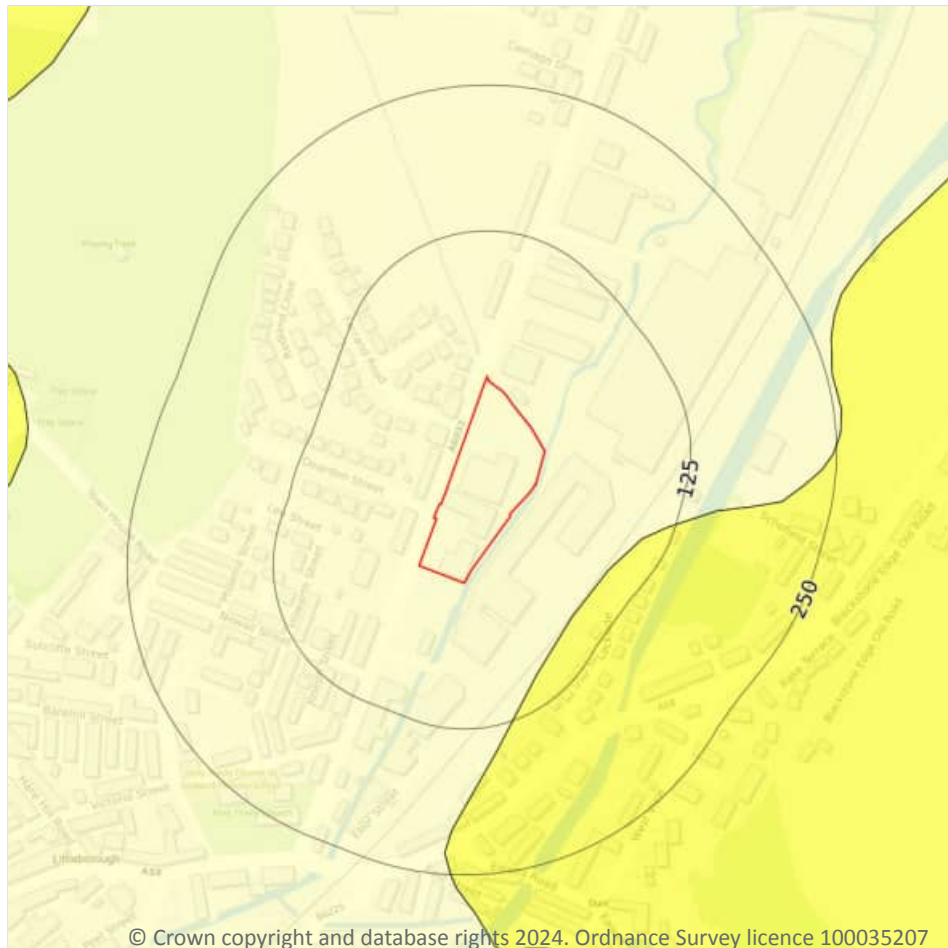
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



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

1

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

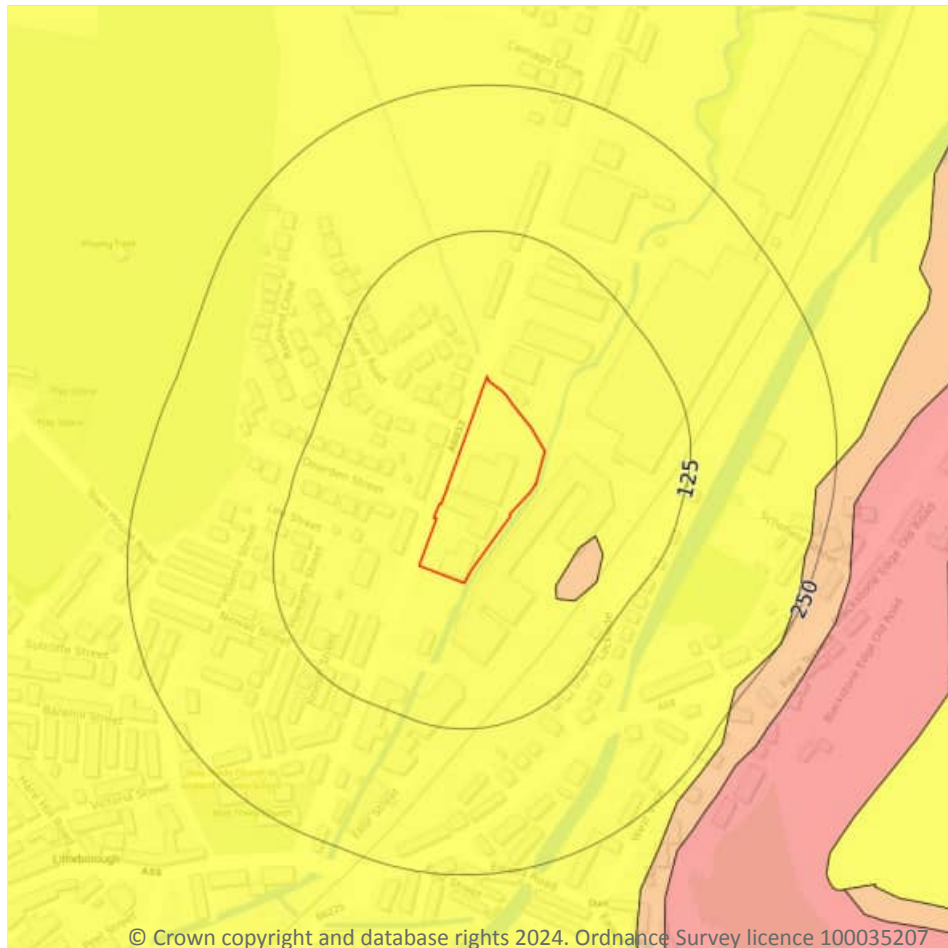
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 140 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

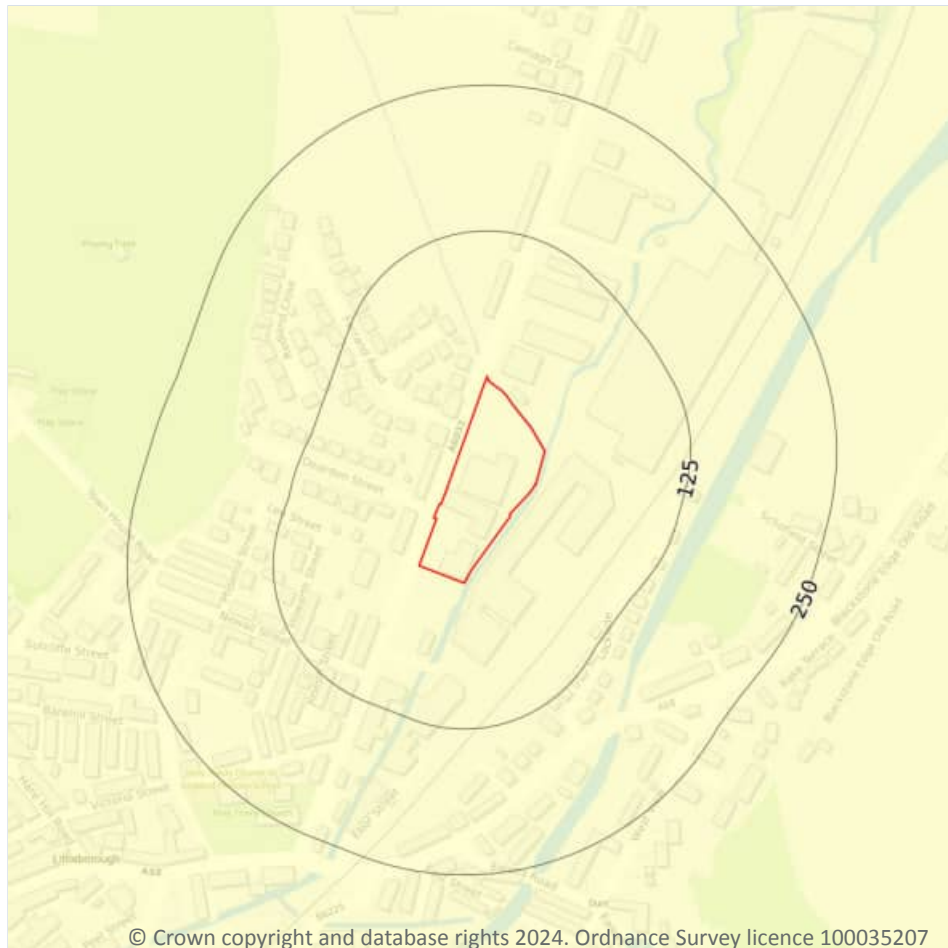
Features are displayed on the Natural ground subsidence - Landslides map on [page 141](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



- 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 142](#) >

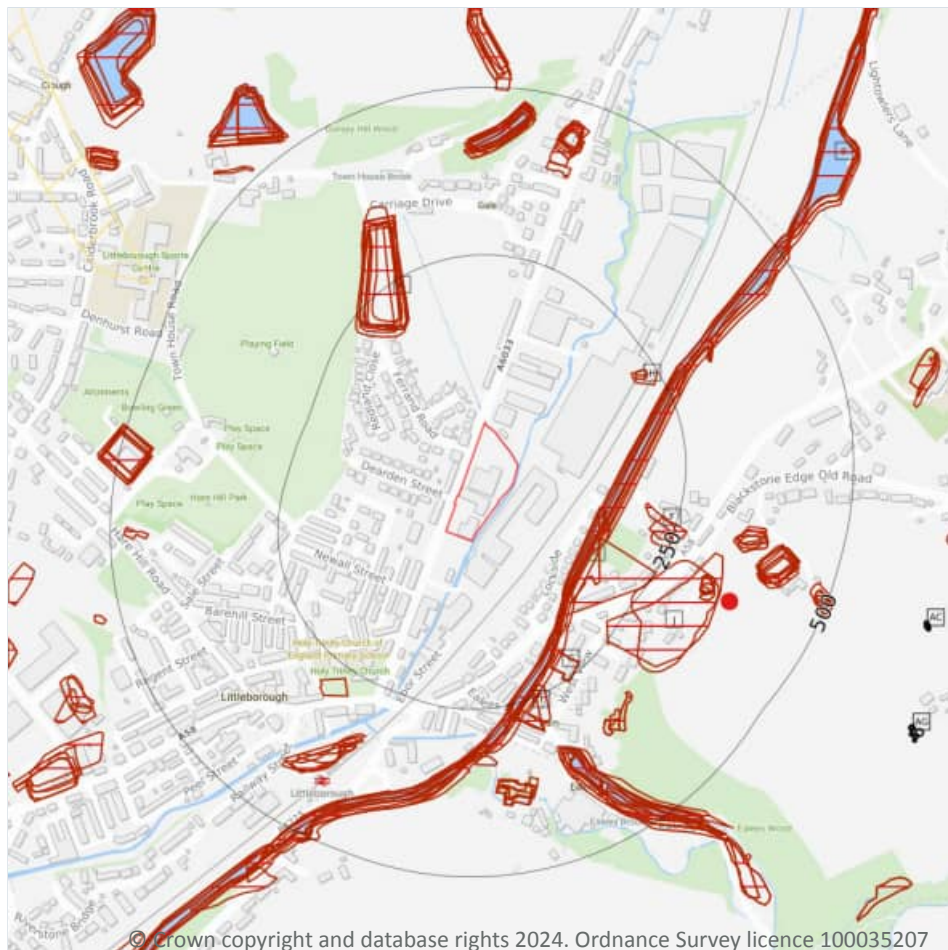
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



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

1

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 144](#) >

ID	Location	Details	Description
K	367m SE	Name: Durn Fire Brick & Pipe Works Address: LITTLEBOROUGH, Lancashire Commodity: Fireclay 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	38
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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 144 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	132m E	Canal	1928	1:10560
A	132m E	Canal	1908	1:10560
A	133m E	Canal	1890	1:10560
B	134m E	Disused Canal	1989	1:10000
B	134m E	Disused Canal	1976	1:10000
B	134m E	Canal	1949	1:10560
B	134m E	Canal	1968	1:10560
C	135m E	Canal	1911	1:10560
A	139m E	Canal	1938	1:10560
D	142m E	Canal	1930	1:10560
D	142m E	Canal	1909	1:10560
1	143m SE	Dock Yard	1851	1:10560
C	145m E	Canal	1892	1:10560
D	149m E	Canal	1891	1:10560
E	181m NW	Unspecified Heap	1928	1:10560
E	184m NW	Old Reservoir	1911	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	186m NW	Reservoir	1851	1:10560
E	188m NW	Unspecified Heap	1989	1:10000
E	188m NW	Unspecified Heap	1976	1:10000
E	188m NW	Unspecified Heap	1949	1:10560
E	188m NW	Unspecified Heap	1968	1:10560
E	190m NW	Old Reservoir	1908	1:10560
E	192m NW	Old Reservoir	1890	1:10560
E	199m NW	Old Reservoir	1911	1:10560
F	199m E	Unspecified Ground Workings	1891	1:10560
E	201m NW	Old Reservoir	1892	1:10560
G	209m SE	Ponds	1911	1:10560
G	210m SE	Ponds	1911	1:10560
H	213m NE	Unspecified Ground Workings	1891	1:10560
F	214m E	Refuse Heap	1949	1:10560
H	216m NE	Unspecified Ground Workings	1930	1:10560
H	216m NE	Unspecified Ground Workings	1909	1:10560
F	220m E	Refuse Heap	1930	1:10560
I	234m S	Refuse Heap	1949	1:10560
J	234m SE	Fire Brick and Pipe Works	1891	1:10560
I	241m S	Refuse Heap	1938	1:10560
J	243m SE	Fire Brick and Pipe Works	1892	1:10560
I	244m S	Refuse Heap	1928	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

39

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 144 >](#)



ID	Location	Land Use	Year of mapping	Mapping scale
-	628m S	Old Air Shaft	1949	1:10560
-	628m S	Air Shaft	1911	1:10560
-	629m S	Unspecified Disused Shaft	1976	1:10000
-	629m S	Unspecified Old Shaft	1968	1:10560
-	634m S	Air Shaft	1890	1:10560
-	636m S	Old Air Shaft	1938	1:10560
-	641m S	Old Air Shaft	1928	1:10560
-	641m S	Air Shaft	1908	1:10560
AC	647m E	Old Air Shaft	1911	1:10560
AC	648m E	Disused Air Shaft	1989	1:10000
AC	653m E	Old Air Shaft	1930	1:10560
AC	653m E	Old Air Shaft	1909	1:10560
-	660m S	Clay Level	1911	1:10560
-	674m S	Clay Level	1908	1:10560
AG	692m SE	Disused Air Shaft	1989	1:10000
AG	692m SE	Disused Air Shaft	1976	1:10000
AG	693m SE	Old Air Shaft	1911	1:10560
AG	698m SE	Old Air Shaft	1930	1:10560
AG	698m SE	Old Air Shaft	1909	1:10560
AG	704m SE	Disused Air Shaft	1968	1:10560
AG	704m SE	Air Shaft	1892	1:10560
AG	707m SE	Air Shaft	1891	1:10560
-	723m SW	Unspecified Disused Shaft	1989	1:10000
-	727m SW	Old Air Shaft	1949	1:10560
-	731m SW	Clay Level	1908	1:10560
-	731m E	Unspecified Old Shaft	1949	1:10560
-	733m E	Old Coal Shaft	1911	1:10560
-	734m E	Unspecified Old Shaft	1892	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	734m E	Unspecified Old Shaft	1930	1:10560
-	734m E	Unspecified Old Shaft	1909	1:10560
-	735m SW	Old Air Shaft	1938	1:10560
-	736m SW	Old Air Shaft	1928	1:10560
-	738m E	Unspecified Old Shaft	1891	1:10560
-	825m S	Unspecified Old Level	1928	1:10560
-	826m S	Unspecified Old Level	1938	1:10560
-	935m SE	Air Shaft	1892	1:10560
-	940m SE	Air Shaft	1891	1:10560
-	948m N	Colliery	1931	1:10560
-	948m N	Colliery	1909	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

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

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	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

1

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 144](#) >

ID	Location	Name	Commodity	Class	Likelihood
7	539m NW	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
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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
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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
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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.

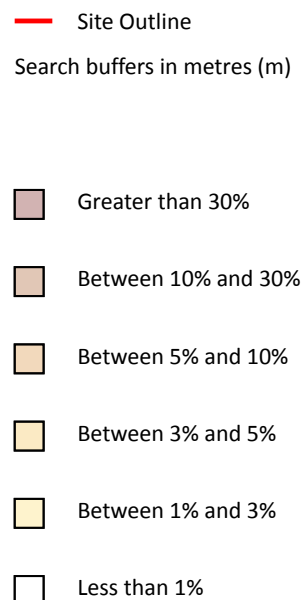
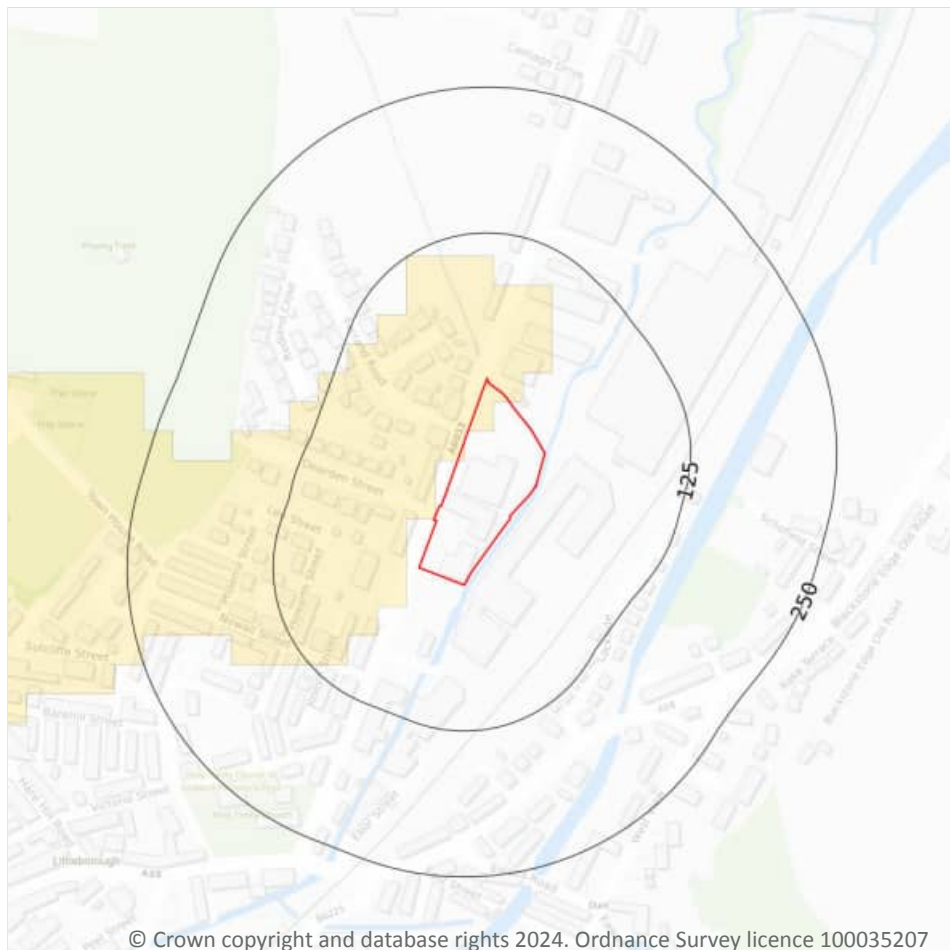
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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



20.1 Radon

Records on site

2

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

Features are displayed on the Radon map on [page 154](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	None



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

3

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
11m SW	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
43m 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

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

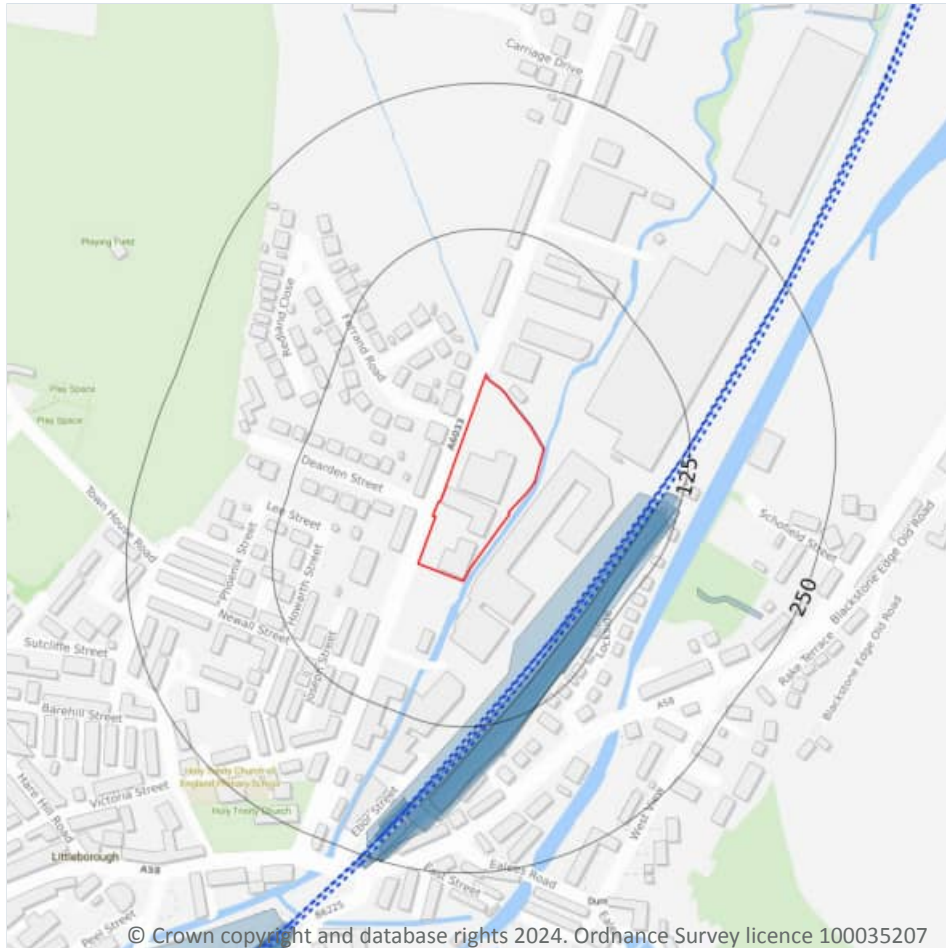
0

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

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m

22

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 157](#) >

Location	Land Use	Year of mapping	Mapping scale
67m S	Railway Sidings	1911	10560
92m E	Railway Sidings	1928	10560
92m E	Railway Sidings	1908	10560
98m SE	Railway Sidings	1938	10560
98m SE	Railway Sidings	1968	10560
98m SE	Railway Sidings	1964	2500
99m SE	Railway Sidings	1949	10560
99m SE	Railway Sidings	1960	1250
103m SE	Railway Sidings	1891	2500
104m SE	Railway Sidings	1910	2500
104m SE	Railway Sidings	1930	2500
104m SE	Railway Sidings	1937	2500
166m SE	Railway Sidings	1891	2500
191m S	Railway Sidings	1960	1250
192m S	Railway Sidings	1961	2500
195m S	Railway Sidings	1910	2500
195m S	Railway Sidings	1930	2500



Location	Land Use	Year of mapping	Mapping scale
195m S	Railway Sidings	1937	2500
211m S	Railway Sidings	1960	1250
212m S	Railway Sidings	1961	2500
216m S	Railway Sidings	1985	1250
245m S	Railway Sidings	1985	1250

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

5

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 157 >](#)

Location	Name	Type
90m S	Not given	Multi Track
90m S	Caldervale Line	rail
94m S	Caldervale Line	rail
212m S	Not given	Multi Track



Location	Name	Type
230m S	Not given	Multi Track

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> ↗.

Terms and conditions

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



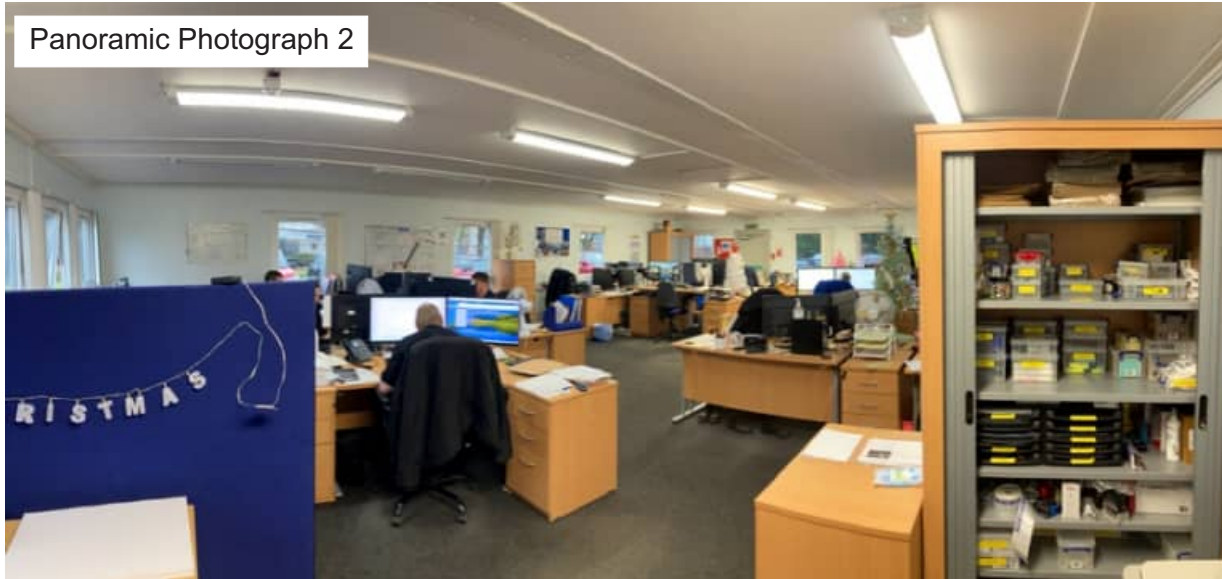
APPENDIX C

SITE PHOTOGRAPHS

Panoramic Photograph 1



Panoramic Photograph 2



Panoramic Photograph 3



Panoramic Photograph 4



Panoramic Photograph 5



Panoramic Photograph 6



Panoramic Photograph 7



Panoramic Photograph 8



Panoramic Photograph 9



Panoramic Photograph 10



Panoramic Photograph 11



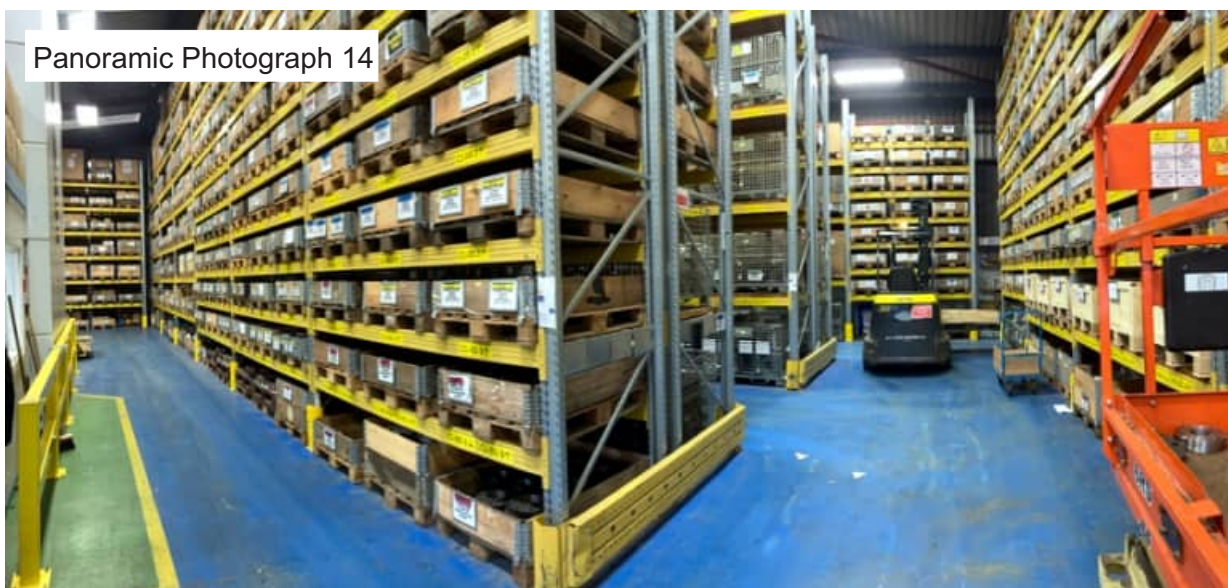
Panoramic Photograph 12



Panoramic Photograph 13



Panoramic Photograph 14



Panoramic Photograph 15



Panoramic Photograph 16



Panoramic Photograph 17



Panoramic Photograph 18



Panoramic Photograph 19



Panoramic Photograph 20



Panoramic Photograph 21



Panoramic Photograph 22



Panoramic Photograph 23



Panoramic Photograph 24



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



Photograph 9



Photograph 10



Photograph 11



Photograph 2



Photograph 13



Photograph 14



Photograph 15



Photograph 16



Photograph 17



Photograph 18



Photograph 19



Photograph 20



Photograph 21



Photograph 22



Photograph 23



Photograph 24

