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REMEDiate



REGENERATE



DESK STUDY WITH WALKOVER SURVEY

**FOR
BENTGATE HOUSE,
NEWHEY ROAD,
NEWHEY,
ROCHDALE,
OL16 4JY**

**PREPARED FOR
DAVID PERKINS**

**REPORT NO. 8044
OCTOBER 2024**

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EXECUTIVE SUMMARY

This executive summary is a brief summary only and should be read in conjunction with the full report.

Section	Subject	Summary
Site Details	Site Address	Bentgate House, Newhey Road, Newhey, Rochdale, OL16 4JY.
	Grid Reference	393319E, 411606N.
	Current Land Use	Garden to Bentgate House.
	Proposed Development	Erect a two-storey detached residential building.
Site History	On Site	Earliest survey (1851) shows that the site is located within an undeveloped field. By 1891, buildings are present along the north west boundary. By 1976, the buildings have been demolished. By 1984-1988, the site shown a garden to Bent House (now named Bentgate House).
	Beyond Site Boundary	Earliest survey (1851) shows a road is adjacent to the north east of the site and a railway within cuttings are 80m north. By 1891, Bentgate Street is adjacent to the north west and a residential building named 'Bent House' is adjacent to the south east. Ellen Road Mill (cotton) is 180m west (labelled as unspecified works by 1984-1988). A smithy is 160m east (no longer shown by 1930). By 1954-1955, there has been significant residential within 250m of the site and an allotment garden is 100m west (no longer shown by 1984-1986). By 1976, the site is bounded by gardens of residential buildings to the south west. Elizabeth Way has been constructed on an embankment as an extension from Newhey Road 80m northwest. By 2003, an industrial building is 100m north west.
Geological and Mining Appraisal	Made Ground	Artificial Deposits are indicated to be present 37m to the north west.
	Superficial Geology	North east half of the site – No drift deposits are indicated to be present. However, a thin residual layer of weathered rockhead may be present. South west half of the site – Glaciofluvial Sheet Deposits comprising sand and gravel
	Bedrock Geology	Pennine Lower Coal Measures Formation comprising mudstone, siltstone and sandstone.
	Radon	Basic Radon Protection Measures are required.
	Mining	The Coal Authority, and others, indicate that the site is located within a coal mining area. The Consultants Coal Mining Report, ref. 51003460516001 and dated 1 st November 2024, indicates that the site is within a surface area that could be affected by past recorded underground mining in one seam of coal at 199m in depth; the last mineworkings being in 1903. The Coal Authority indicated that there are no probable unrecorded shallow mineworkings beneath the site. On the basis of the Coal Authority Report no further consideration need be given to underground coal mining.
	Subsidence Hazards	Very low to negligible.
Environmental Appraisal	Industrial Land Uses	Historical – railway within a cutting from 54m north east, unspecified mills and heaps from 137m west and a smithy 159m east. Current - electricity substations 160m west and 176m south west, Sun Chemical Ltd (printing related machinery) 187m west, Unspecified Works 198m west, Milnrow Mobile Valet (vehicle cleaning services) 210m south east and Prince Automotive Ltd (distribution and haulage) 211m south.
	Landfill Sites	None recorded.
	Hydrogeology	Superficial/ drift deposits are indicated to be a Secondary A aquifer. Bedrock is indicated to be a Secondary A aquifer.
	Hydrology	There are no watercourses (river, stream or canal) or surface water features (ponds or lakes) within 250m of the site boundary.
	Flood Risk	Flood Zone 1 with a very low risk of flooding – A Flood Risk Assessment is unlikely to be required.
	Other Relevant Details	None.

Recommendations	The conceptual ground model indicates that an intrusive ground investigation is not required to assess the ground conditions for contamination unless a significant thickness of made ground is found to be present. Should this be the case, the ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis. The site is within a Radon Affected Area where between 3% and 5% of surrounding properties are above the Radon Action Level. Basic Radon Protection measures are required.
Other Considerations (for Warranty Providers, Building Control, Structural Engineers, Developers, etc.)	Listed below are various items that are likely to be required at some point during the development and it would be cost effective to have them carried out simultaneously. This is not an exhaustive list. • Boreholes and laboratory testing to assess the ground conditions for foundation design. • BRE Digest 365 Soakaway Tests. • Waste Classification and WAC testing for removal of waste to landfill. • CBR Testing for road design and construction. • Water Pipeline Risk Assessment.

DESK STUDY WITH WALKOVER SURVEY FOR BENTGATE HOUSE, NEWHEY ROAD, NEWHEY, ROCHDALE, OL16 4JY

CLIENT: DAVID PERKINS

ARCHITECTS: JEFFREY JORDAN ARCHITECTS

1. INTRODUCTION

This report has been prepared in accordance an email, dated 11th September 2024, from the Architect on behalf of the Client.

The brief was set out in our estimate, ref. E7297 dated 22nd August 2024, and comprises a walkover survey and a desk study report including a historical, geological, mining and environmental appraisal together with a conceptual ground model.

1.1 Site Location and Description

The site is located at Bentgate House, Newhey Road, Newhey, Rochdale, OL16 4JY, as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 393319E, 411606N.

As shown on Figure 2, the site comprises an irregular shaped plot of land of 0.05ha. It is bound by Newhey Road to the north east, by a garage in the northern half of the south east, by the residential building named 'Bentgate House' in the south east half of the south east boundary, by the rear gardens of 1 and 3 Bentgate Close to the south west and by Bentgate Street to the north west.

1.2 Proposed Development and Purpose of the Desk Study

We understand that it is proposed to erect a two-storey detached residential building, as shown on Figure 3.

The purpose of the desk study is to obtain information regarding the sites historical, geological and environmental setting in order to produce a conceptual ground model, to assess the ground conditions, to undertake a preliminary assessment of contamination sources, pathways and receptors relating to potential hazards that exist or will potentially exist on the site and to assess the need for ground investigation.

1.3 Walkover Survey

The walkover survey was undertaken on 13th September 2024. Photographs taken during the site walkover are appended, with their locations and any surface features observed indicated in Figure 2.

At the time of the walkover, the site was a garden for the residential building named 'Bentgate House'. The ground surface was noted to be flat and predominantly of grass, with a gravel driveway in the south west for 'Bentgate House'. A garage was present in the south east of the site. Five overhead cables were noted running across the site from a pole in the north west corner of the garden to 'Bentgate House'. The site could be accessed off Bentgate Close to the south.

No visual or olfactory contamination was noted during the walkover survey.

2. DESK STUDY

2.1 Historical Appraisal

The history of the site has been interpreted from the study of old Ordnance Survey plans supplied by GroundSure, as follows:

TABLE 1 SMALL SCALE SURVEYS TABLE 2 LARGE SCALE SURVEYS

Date	Scale	Date	Scale
1851	1:10,560	1891	1:2,500
1890-1892	1:10,560	1910	1:2,500
1892*	1:10,560	1930	1:2,500
1907-1908	1:10,560	1954	1:1,250 **
1910*	1:10,560	1955	1:1,250 **
1910*	1:10,560	1955	1:2,500
1928*	1:10,560	1968	1:2,500
1928-1932	1:10,560	1967-1971*	1:1,250 **
1938	1:10,560	1974-1975	1:1,250 **
1954	1:10,560	1976	1:1,250 **
1967	1:10,560	1984-1988	1:1,250 **
1976	1:10,000	1989*	1:1,250 **
2001	1:10,000	1988-1992	1:1,250 **
2010	1:10,000	1993*	1:1,250 **
2024	1:10,000	1993-1995	1:1,250 **
		1992-1995	1:1,250 **
		2003	1:1,250

* Site not covered by survey.

** Published scale, appended extract reproduced at 1:2,000 scale.

Extracts of the above surveys are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1851	The site is located within an undeveloped field.	A road is adjacent to the north east of the site. A railway within cuttings are 80m north.
1891	Buildings are present along the north west boundary.	Bentgate Street is adjacent to the north west. Bent House is adjacent to the south east. Ellen Road Mill (cotton) is 180m west. A smithy is 160m east. Several residential buildings have been built within 250m of the site.
1910-1930	No significant changes are noted during this time.	More residential buildings have been built within 250m of the site. By 1930, the smithy is no longer labelled.
1954-1955	No significant changes are noted during this time.	An allotment garden is 100m west. There has been significant residential development within 250m to the south of the site.
1976	The buildings in the north west of the site have been demolished.	The site is now bounded by the gardens of residential buildings to the south west. Elizabeth Way has been constructed on an embankment as an extension from Newhey Road 80m north west.

1984-1988	The site is now shown as a garden to Bent House and a garage is present in and adjacent to the east boundary.	The allotment gardens are no longer shown. Ellen Road Mill is now labelled as unspecified works and an electricity substation is adjacent to the east.
2003	No significant changes are noted during this time.	Another industrial building is 100m north west.
2024	No significant changes are noted during this time.	No significant changes are noted during this time.

We are not aware of any other significant changes within the site and its immediate surrounding area.

2.2 Geological Appraisal

This following appraisal is based upon the appended Groundsure Enviro & Geo Insight Report (Sections 14 to 17).

2.2.1 Artificial Ground (Made Ground)

No Made Ground is indicated to be present within the site or in its immediate vicinity. However, as the site has been developed, some may be present.

Made Ground, described as 'Artificial Deposits', is indicated to be 37m to the north west of the site boundary, the depth of which is unknown, which appears to relate to the embankment for Elizabeth Way.

2.2.2 Superficial Geology (Drift Deposits)

No drift deposits are indicated to be present beneath the north east half of the site. However, a thin residual layer of weathered rockhead may be present.

The drift deposits beneath the south west half of the site are anticipated to be Glaciofluvial Sheet Deposits of the Devensian Period, generally comprising sand and gravel, the depth of which is unknown. The drift deposits are indicated as having a high to very high permeability.

2.2.3 Bedrock Geology

The bedrock underlying the site is anticipated to be mudstone, siltstone and sandstone, belonging to the Pennine Lower Coal Measures Formation of the Langsettian Sub-age. The bedrock is indicated as having a low to moderate permeability.

2.2.4 Potential Hazards in Natural Ground

The hazard rating for shrinking/ swelling clays, running sands, collapsible deposits and landslides is very low and the hazard rating for compressible deposits and ground dissolution of soluble rocks is negligible.

2.3 Mining, Radon, Soil Chemistry and Railway Infrastructure Appraisal

This following appraisal is based upon the appended Groundsure Enviro & Geo Insight Report (Sections 18 to 21).

2.3.1 Mining and Ground Workings

Ordnance Survey mapping identifies surface excavations which may, or may not, have been subsequently backfilled with unknown material. The Ordnance Survey indicates that there are nineteen historical surface excavations within 250m of the site boundary, the nearest being cuttings 54m to the north east.

In addition, Ordnance Survey mapping identifies underground workings in the form of tunnels, shafts and similar features. The Ordnance Survey indicates that there are six historical underground workings within 1km of the site boundary, the nearest being a colliery 706m to the north.

The boundaries of permitted, withdrawn and refused mineral planning permissions for England and Wales, from the 1930s to the mid-1980s, are maintained by the British Geological Survey. There is one historical mineral planning area within 500m of the site boundary, which is related to the surfacing mineral working of clay and shale 488m to the east.

The British Geological Survey maintain records of mining of minerals other than coal, and indicates that there is no potential for non-coal mining beneath the site or within 1km of the site boundary.

The Coal Authority, and others, indicate that the site is located within a coal mining area. The appended Consultants Coal Mining Report, ref. 51003460516001 and dated 1st November 2024, indicates that the site is within a surface area that could be affected by past recorded underground mining in one seam of coal at 199m in depth; the last mineworkings being in 1903.

The Coal Authority indicated that there are no probable unrecorded shallow mineworkings beneath the site.

The Coal Authority also indicates that there is no current mining or proposals to mine coal beneath the site. It should be noted that on 23rd December 2015 all underground coal mining ceased in the U.K.

Furthermore, there are no known coal mine entries within 100m of the site boundary that the Coal Authority has knowledge of.

The Coal Authority Mining Report only refers to records in the possession of the Coal Authority. It should be noted that it did not become a statutory requirement to maintain and preserve plans of abandoned mines until the Mines (Coal) Regulations Act of 1872, by which date much unrecorded mining had taken place and of those plans which were made it is likely that not all will have survived.

From the information given above no further consideration need to be given to underground coal mining.

According to the report the site is not in an area affected by significant non-coal mining, natural cavities, mining cavities, brine extraction, gypsum extraction, tin mining or clay mining.

2.3.2 Radon

The British Geological Survey and Public Health England have estimated the percentage of dwellings exceeding the “Radon Action Level” of 200 Becquerels/m³ for the UK based on geological assessments and long term measurements of radon in more than 560,000 households.

The site is in a Radon Affected Area where between 3% and 5% of surrounding properties are above the Radon Action Level. Basic radon protection measures are required.

2.3.3 Soil Chemistry

The British Geological Survey have estimated likely background concentrations of potentially harmful arsenic, cadmium, chromium, lead and nickel in the topsoil. Data for on-site topsoil is given. In addition data for the land within 50m of the site boundary is given.

2.3.4 Railway Infrastructure

There are two historical railway and tunnel features within 250m of the site boundary, both of which are railway sidings 179m north west.

There are five active railways within 250m of the site boundary, the nearest being a metrolink 75m to the north.

There are no underground railways, railway tunnels or historical railways within 250m of the site boundary.

The site is not within 250m of Crossrail 1, Crossrail 2, or the High Speed 2 (HS2) rail project.

2.4 Environmental Appraisal

This following appraisal is based upon the appended Groundsure Enviro & Geo Insight Report (Sections 1 to 13).

2.4.1 Historical Industrial Land Use

Historical potentially contaminative industrial land uses are recorded by the Ordnance Survey. There are twenty potentially contaminative industrial land uses identified within 250m of the site boundary. The majority of these are related to a railway within a cutting from 54m north east, unspecified mills and heaps from 137m to the west and a smithy 159m to the east.

There are two historical energy features within 250m of the site boundary, which are both electricity substations 154m to the west and 176m to the south west.

There are no historical tanks, petrol stations, garages, or military land within 250m of the site boundary.

2.4.2 Landfill

According to the report there are no active or recently closed landfill sites within 250m of the site boundary.

2.4.3 Waste

Local Authority records and detailed Ordnance Surveys indicate no waste sites within 250m of the site boundary.

According to the Environment Agency and Natural Resources Wales there are no active or recently closed waste sites within 250m of the site boundary.

The Environment Agency and Natural Resources Wales have no records of activities involving the storage, treatment, use or disposal of wastes that are exempt from needing a permit (within specific limits and conditions) within 250m of the site boundary.

2.4.4 Current Land Use

Current potentially contaminative industrial land uses are recorded by the Ordnance Survey. There are six potentially contaminative industrial land uses identified within 250m of the site boundary. These include electricity substations 160m to the west and 176m to the south west, Sun Chemical Ltd (printing related machinery) 187m to the west, Unspecified Works 198m to the west, Milnrow Mobile Valet (vehicle cleaning services) 210m to the south east and Prince Automotive Ltd (distribution and haulage) 211m to the south.

According to Experian, there are no current or recent petrol stations within 250m of the site boundary.

2.4.5 Contaminated Land

There are no sites determined as contaminated under Part 2a of the Environmental Protection Act (1990) within 250m of the site boundary.

2.4.6 Control of Major Accident Hazards (COMAH)

Records of Control of Major Accident Hazards (COMAH), including Notification of Installations Handling Hazardous Substances (NIHHS) and other historical data, indicate that there are no dangerous or hazardous sites within 250m of the site boundary.

2.4.7 Regulated Explosives Sites

Up to April 2015 there were no sites within 250m of the site boundary registered and licensed by the Health and Safety Executive under the 2005 Manufacture and Storage of Explosives Regulations.

2.4.8 Hazardous Substance Storage and Usage

There are no Local Authority records of consents granted for sites to hold certain quantities of hazardous substances at or above defined limits in accordance with the 2015 Planning (Hazardous Substances) Regulations within 250m of the site boundary.

2.4.9 Historical Licenced Industrial Activities (IPC)

There are no historical Integrated Pollution Control (IPC) records of substances released to the air, land and water according to the Environment Agency and Natural Resources Wales within 250m of the site boundary.

2.4.10 Licenced Industrial Activities (Part A(1))

The Environment Agency and Natural Resources Wales indicate that there are no records of Part A(1) installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for release to the environment within 250m of the site boundary.

2.4.11 Licensed Pollutant Release (Part A(2) and Part B)

Local Authority records indicate there is one Part A(2) and Part B installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for the release of substances to the environment within 250m of the site boundary, which is related to the manufacture of coating materials 199m to the west.

2.4.12 Radioactive Substance Authorisations

The Environment Agency and Natural Resources Wales indicate that there are no records of storage, use, accumulation and disposal of radioactive substances regulated under the 1993 Radioactive Substances Act within 250m of the site boundary.

2.4.13 Licensed Discharges to Controlled Waters

According to Environment Agency and Natural Resources Wales records there has been one discharge of treated or untreated effluent to controlled water under the 1991 Water Resources Act within 250m of the site boundary, which is related to trade discharges into the River Beal 202m to the west.

2.4.14 Pollutant Release to Surface Waters (Red List)

The Environment Agency and Natural Resources Wales records indicate that there have been no discharges of specified substances under the 1991 Environmental Protection (Prescribed Processes and Substances) Regulations within 250m of the site boundary.

2.4.15 Pollutant Release to Public Sewers

According to Environment Agency and Natural Resources Wales records there have been no discharges of special category effluents to public sewers within 250m of the site boundary.

2.4.16 List 1 and List 2 Dangerous Substances

The Environment Agency and Natural Resources Wales records indicate that there have been no discharges of substances on List 1 or List 2 of the European Directive E2006/11/EC respectively, regulated under the 2015 Environmental Damage (Prevention and Remediation) Regulations, within 250m of the site boundary.

2.4.17 Pollution Incidents

According to the Environment Agency and Natural Resources Wales there are no records of substantiated pollution incidents within 250m of the site boundary.

2.4.18 Pollution Inventory Substances

The Environment Agency and the Scottish Environment Protection Agency indicate that there have been two reports on annual emissions of certain regulated substances to air, controlled waters and land within 250m of the site boundary, the nearest being 99m to the north.

2.4.19 Pollution Inventory Waste Transfers

According to the Environment Agency and the Scottish Environment Protection Agency there have been no reports on annual transfers and recovery/ disposal of controlled wastes within 250m of the site boundary.

2.4.20 Pollution Inventory Radioactive Waste

The Environment Agency and the Scottish Environment Protection Agency indicate that there have been no reports on annual releases of radioactive substances within 250m of the site boundary.

2.4.21 Hydrogeology

The following designation of aquifers is in accordance with the Environment Agency's April 2010 Groundwater Protection Policy.

Superficial/ drift deposits are anticipated to be present and comprise Glaciofluvial Sheet Deposits. These are indicated to be a Secondary A aquifer which comprises permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers.

The bedrock is anticipated to be mudstone, siltstone and sandstone, which is indicated to be a Secondary A aquifer.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as "Medium" – an area which may transmit pollution and/ or protect from pollution.

British Geological Survey and Environment Agency data indicates that the site is not within a 1km grid where solution features may be present that will enable rapid movement of a pollutant to groundwater.

Environment Agency data indicates that the site is not in an area where additional local information indicates that groundwater is vulnerable to pollution.

According to data provided by the Environment Agency and Natural Resources Wales, there are four groundwater abstraction licences within 1km of the site boundary, the nearest being 787m to the north, nine surface water abstraction licences within 1km of the site boundary, the nearest being 315m to the north west, and three potable water abstraction licences within 2km of the site boundary, the nearest being 586m to the north.

A Type 2 Source Protection Zone and Type 3 Source Protection Zone (total catchment), set up to protect potable water abstraction points within 500m of the site boundary, is present according to the Environment Agency and Natural Resource Wales.

2.4.22 Hydrology

The Ordnance Survey indicate that there are no watercourses (river, stream or canal) or surface water features (ponds or lakes) within 250m of the site boundary.

The Water Framework Directive (WFD) indicates that the site is within the Beal catchment of the River Beal, this watercourse being 307m to the west and the groundwater body is known as the Northern Manchester Carboniferous Aquifers.

2.4.23 Flooding

Flooding data is maintained by the Environment Agency and Natural Resources Wales. The Risk of Flooding from Rivers and Sea (RoFRaS) database indicates that within 50m of the site boundary the highest risk of flooding is "Very Low".

In the period since records began in 1946, there are no records of historical floods within 250m of the site boundary.

There are no flood defences, areas benefitting from flood defences or flood storage areas present within 250m of the site boundary.

The site is in a Flood Zone 1 and is not within 50m of a Flood Zone 2 or a Flood Zone 3.

According to Ambient Risk Analytics surface water "FloodMap" there is a negligible risk of surface water flooding on the site and a 1 in 30 year (0.1m-0.3m) risk of surface water flooding within 50m of the site boundary.

Groundwater flooding is caused when the water table rises in areas where this is usually at shallow depth. Ambient Risk Analytics indicate that there is a low risk of groundwater flooding on the site and within 50m of the site boundary.

Given the above, a Flood Risk Assessment is unlikely to be required.

2.4.24 Environmental Designations

Natural England, Natural Resources Wales and Scottish Natural Heritage indicate that there are environmental sensitive sites within 2km of the site boundary.

The site is located within an SSSI Impact Risk Zone and areas of Green Belt Land are present from 87m to the north.

2.4.25 Visual and Cultural Designations

Historic England, Cadw and Historic Environment Scotland indicate that there is a Scheduled Ancient Monument 236m to the west.

There are no World Heritage Sites, Areas of Outstanding Natural Beauty, National Parks, Listed Buildings, Conservation Areas or Registered Parks and Gardens within 250m of the site boundary.

2.4.26 Agricultural Designations

Natural England indicate that the Agricultural Land (quality) Classification for the site and the land within 250m of the site boundary is Grade 4, poor.

Natural England and Natural Resources Wales indicate that there is no open access land within 250m of the site boundary.

The Forestry Commission indicate that there are no tree felling licences within 250m of the site boundary.

Natural England indicate that there are no environmental stewardship schemes within 250m of the site boundary.

Natural England indicate that there are no countryside stewardship schemes within 250m of the site boundary.

2.4.27 Habitat Designations

Natural England indicate that within 250m of the boundary there is one priority habitat, which is 192m to the north. There are no habitat networks, open mosaic habitats or limestone pavement orders.

2.5 Conceptual Ground Model

A conceptual ground model of a site and its environs uses available information to form a preliminary assessment of contamination sources, pathways and receptors, and the significance of hazards that exist or will potentially exist on the site. Its purpose is to identify the relationships between sources of contamination, pathways and receptors to allow exposure scenarios to be determined and thereby aid in the design of any intrusive investigation. It also forms the basis of the risk assessment.

2.5.1 Sources

Potential sources of contamination identified in the desk study are:

- General contaminants including asbestos in Made Ground (if present) and past and present contaminative processes undertaken on and adjacent to the site including earthworks, construction and demolition.
- Hydrocarbon contamination from on-site spillage and leakage of oils and fuels associated with the car parking area on site.

2.5.2 Pathways

Potential pathways from source and receptor for the proposed development are:

- Direct skin contact with and ingestion of contaminated soil by site workers during construction and by end users of the site in the gardens and landscaped areas.
- Inhalation of dust, vapours and/ or gases by site workers during construction and by the end users of the site in enclosed spaces.
- Migration of contaminants to the underlying aquifer and to adjacent properties.
- Consumption of contaminated fruit and/ or vegetables grown in the garden areas.
- Uptake of contaminated groundwater by plants grown in the gardens and landscaped areas.

2.5.3 Receptors

Potential receptors for the proposed development are:

- Site operatives during demolition, earthworks and/ or construction.
- The end users of the site, with young children being the most sensitive.
- Fruit and vegetables grown in the gardens for consumption.
- Vegetation, bushes and trees planted as part of the development of the site.
- Controlled waters including surface water, groundwater, and the underlying aquifer.
- Maintenance operatives entering on-site confined spaces after development.
- Adjacent properties.

Conclusions

An appraisal of the sources, pathways and receptors has been considered and we have produced a conceptual ground model based upon the available information, as follows:

TABLE 4 CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Made Ground (if present)	Contaminants in Made Ground	<u>Gen. Contaminants</u> Arsenic Cadmium Chromium Lead Mercury Molybdenum Nickel Selenium Boron Copper Zinc Cyanide Sulphide Sulphate pH Phenols Polynuclear Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH)	Ingestion of soil	Site Operatives	Very Low
			Ingestion of dust	End Users	
			Ingestion of contaminated vegetable produce		
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		
			Uptake via contaminated groundwater	Vegetation	Very Low
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters Adjacent Properties	Very Low
			Direct contact	Structures and Services	Very Low
Asbestos on/ in ground	Asbestos fibres	Asbestos fibres	Inhalation of fibres	Site Operatives End Users	Very Low

Vehicles	Fuel/ oil spillage and/ or leakage from machinery, fuel/ oil tanks and/ or vehicles	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX)	Ingestion of soil Ingestion of dust Ingestion of contaminated vegetable produce Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Very Low
			Uptake via contaminated groundwater	Vegetation	Very Low
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters Adjacent Properties	Very Low
			Direct contact	Structures and Services	Very Low
Radioactive minerals	Ground Gas (Carcinogen)	Radon Gas	Inhalation of gas	End Users	Basic Radon Protection Measures are required.

The conceptual ground model indicates that an intrusive ground investigation is not required to assess the ground conditions for contamination unless a significant thickness of made ground is found to be present. Should this be the case, the ground investigation should obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis.

The site is within a Radon Affected Area where between 3% and 5% of surrounding properties are above the Radon Action Level. Basic Radon Protection measures are required.

2.6 General

No consideration has been given to flora and fauna as this was outside our brief.

We recommend that consultation should be undertaken with and written approval obtained from the Local Authority Environmental Health Officer, the Local Authority Building Control Officer and The Coal Authority prior to commencing development.

We trust that this report fulfils your present requirements but if you have any queries or we can be of further assistance please contact the undersigned or Mr David Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 8044
OCTOBER 2024

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PRELIMINARY RISK RATING GUIDANCE

PRELIMINARY RISK RATING GUIDANCE

The following table based on CIRIA C552 'Contaminated Land Risk Assessment. A Guide to Good Practice' has been used when developing the Conceptual Ground Model and the preliminary risk ratings. The method requires an assessment of the magnitude of the probability or likelihood of the risk occurring and the magnitude of the potential consequence or severity of the risk occurring to formulate a preliminary risk rating (Table A).

Table A DESCRIPTION OF RISK AND LIKELY ACTION REQUIRED

Preliminary Risk Rating	Action Required
Very High Risk	Extensive Ground Investigation Required. There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or there is evidence that severe harm to a designated receptor is currently happening. This risk, if realised, is likely to result in a substantial liability. Urgent investigation (if not undertaken already) and remediation are likely to be required.
High Risk	Extensive Ground Investigation Required. Harm is likely to arise to a designated receptor from an identified hazard. Realisation of the risk is likely to present a substantial liability. Urgent investigation (if not undertaken already) is required and remedial works may be necessary in the short-term and are likely over the longer-term.
Moderate	Ground Investigation Required. It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that any such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the long-term.
Low Risk	Nominal Ground Investigation Required. It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realised, would at worst normally be mild.
Very Low Risk	No Ground Investigation Required.* There is a low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.
Negligible Risk	No Ground Investigation Required.* There is a very low possibility that harm could arise to a receptor. In the event of such harm being realised it is not likely to be severe.

* No further action is required unless unforeseen contaminated ground conditions are encountered.

PHOTOGRAPHS

Site: BENTGATE HOUSE, NEWHEY ROAD, NEWHEY, ROCHDALE, OL16 4JY
Client: DAVID PERKINS
Architect: JEFFREY JORDAN ARCHITECTS

Job Number:
8044
Sheet:
1 / 2
Survey Date:
13/09/24

WALKOVER PHOTOGRAPHS

1



2



3



4



5



6





SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Photographs

Site: BENTGATE HOUSE, NEWHEY ROAD, NEWHEY, ROCHDALE, OL16 4JY

Client: DAVID PERKINS

Architect: JEFFREY JORDAN ARCHITECTS

Job Number:

8044

Sheet:

2 / 2

Survey Date:

13/09/24

WALKOVER PHOTOGRAPHS

7



8



ENVIRO+GEO INSIGHT REPORT

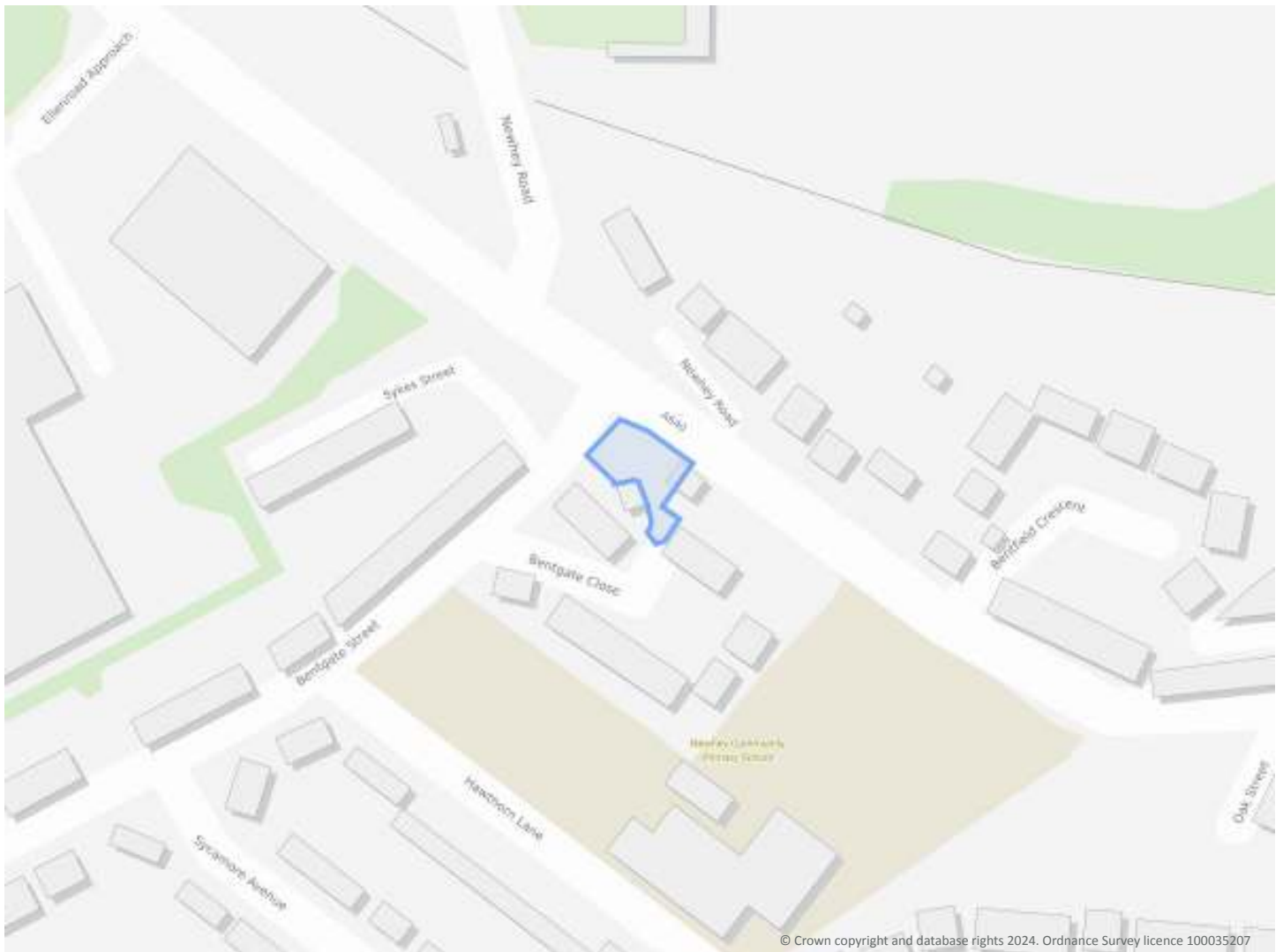
Bentgate House, Newhey Road, Milnrow, OL16 4JY

Order Details

Date: 11/09/2024
Your ref: CMAPS-CM-1184369-4199-110924
Our Ref: CMAPS-CM-1184369-4199-110924EDRGeo

Site Details

Location: 393319 411606
Area: 0.05 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 >	0	0	20	60	-
19 >	1.2 >	Historical tanks >	0	0	0	5	-
19 >	1.3 >	Historical energy features >	0	0	7	6	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	0	0	2	-
21	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
22 >	2.1 >	Historical industrial land uses >	0	0	27	88	-
27 >	2.2 >	Historical tanks >	0	0	0	9	-
27 >	2.3 >	Historical energy features >	0	0	8	7	-
28	2.4	Historical petrol stations	0	0	0	0	-
28 >	2.5 >	Historical garages >	0	0	0	5	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	3.1 >	Active or recent landfill >	0	0	0	1	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
31	3.5	Historical waste sites	0	0	0	0	-
31 >	3.6 >	Licensed waste sites >	0	0	0	1	-
32 >	3.7 >	Waste exemptions >	0	0	0	6	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
34 >	4.1 >	Recent industrial land uses >	0	0	6	-	-
35	4.2	Current or recent petrol stations	0	0	0	0	-
35	4.3	Electricity cables	0	0	0	0	-
35	4.4	Gas pipelines	0	0	0	0	-
36	4.5	Sites determined as Contaminated Land	0	0	0	0	-



36	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
36	4.7	Regulated explosive sites	0	0	0	0	-
36	4.8	Hazardous substance storage/usage	0	0	0	0	-
36	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
37	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
37 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	0	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37 >	4.13 >	Licensed Discharges to controlled waters >	0	0	1	10	-
39	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
39	4.15	Pollutant release to public sewer	0	0	0	0	-
40	4.16	List 1 Dangerous Substances	0	0	0	0	-
40	4.17	List 2 Dangerous Substances	0	0	0	0	-
40 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	0	5	-
41	4.19	Pollution inventory substances	0	0	0	0	-
41	4.20	Pollution inventory waste transfers	0	0	0	0	-
41	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
42 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
44 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
45 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
46	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
47 >	5.6 >	Groundwater abstractions >	0	0	0	0	18
52 >	5.7 >	Surface water abstractions >	0	0	0	6	8
56 >	5.8 >	Potable abstractions >	0	0	0	0	3
57 >	5.9 >	Source Protection Zones >	0	0	0	2	-
57	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
58	6.1	Water Network (OS MasterMap)	0	0	0	-	-



58	6.2	Surface water features	0	0	0	-	-
59 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
59 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
59 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
61	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
61	7.2	Historical Flood Events	0	0	0	-	-
61	7.3	Flood Defences	0	0	0	-	-
62	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
62	7.5	Flood Storage Areas	0	0	0	-	-
63	7.6	Flood Zone 2	None (within 50m)				
63	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
64 >	8.1 >	Surface water flooding >	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding >					
66 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
67	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
68	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
68	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
68	10.4	Special Protection Areas (SPA)	0	0	0	0	0
68	10.5	National Nature Reserves (NNR)	0	0	0	0	0
69	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
69	10.7	Designated Ancient Woodland	0	0	0	0	0
69	10.8	Biosphere Reserves	0	0	0	0	0
69	10.9	Forest Parks	0	0	0	0	0
70	10.10	Marine Conservation Zones	0	0	0	0	0
70 >	10.11 >	Green Belt >	0	0	1	3	0
70	10.12	Proposed Ramsar sites	0	0	0	0	0



70	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
71	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
71	10.15	Nitrate Sensitive Areas	0	0	0	0	0
71	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
72 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
73	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
74	11.1	World Heritage Sites	0	0	0	-	-
75	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
75	11.3	National Parks	0	0	0	-	-
75	11.4	Listed Buildings	0	0	0	-	-
75	11.5	Conservation Areas	0	0	0	-	-
76 >	11.6 >	Scheduled Ancient Monuments >	0	0	1	-	-
76	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
77 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
78	12.2	Open Access Land	0	0	0	-	-
78	12.3	Tree Felling Licences	0	0	0	-	-
78	12.4	Environmental Stewardship Schemes	0	0	0	-	-
78	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
79 >	13.1 >	Priority Habitat Inventory >	0	0	1	-	-
80	13.2	Habitat Networks	0	0	0	-	-
80	13.3	Open Mosaic Habitat	0	0	0	-	-
80	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
81 >	14.1 >	10k Availability >	Identified (within 500m)				
82 >	14.2 >	Artificial and made ground (10k) >	0	1	1	8	-
84 >	14.3 >	Superficial geology (10k) >	1	0	2	5	-

85	14.4	Landslip (10k)	0	0	0	0	-
86 >	14.5 >	Bedrock geology (10k) >	1	0	1	8	-
87 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	0	4	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
88 >	15.1 >	50k Availability >	Identified (within 500m)				
89	15.2	Artificial and made ground (50k)	0	0	0	0	-
89	15.3	Artificial ground permeability (50k)	0	0	-	-	-
90 >	15.4 >	Superficial geology (50k) >	1	0	1	5	-
91 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
91	15.6	Landslip (50k)	0	0	0	0	-
91	15.7	Landslip permeability (50k)	None (within 50m)				
92 >	15.8 >	Bedrock geology (50k) >	1	0	1	6	-
93 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
93 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	0	4	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
95 >	16.1 >	BGS Boreholes >	0	1	3	-	-
Page	Section	Natural ground subsidence >					
97 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
98 >	17.2 >	Running sands >	Very low (within 50m)				
100 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
101 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
102 >	17.5 >	Landslides >	Very low (within 50m)				
103 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
105	18.1	BritPits	0	0	0	0	-
106 >	18.2 >	Surface ground workings >	0	0	19	-	-
107 >	18.3 >	Underground workings >	0	0	0	0	6
107	18.4	Underground mining extents	0	0	0	0	-
107 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-

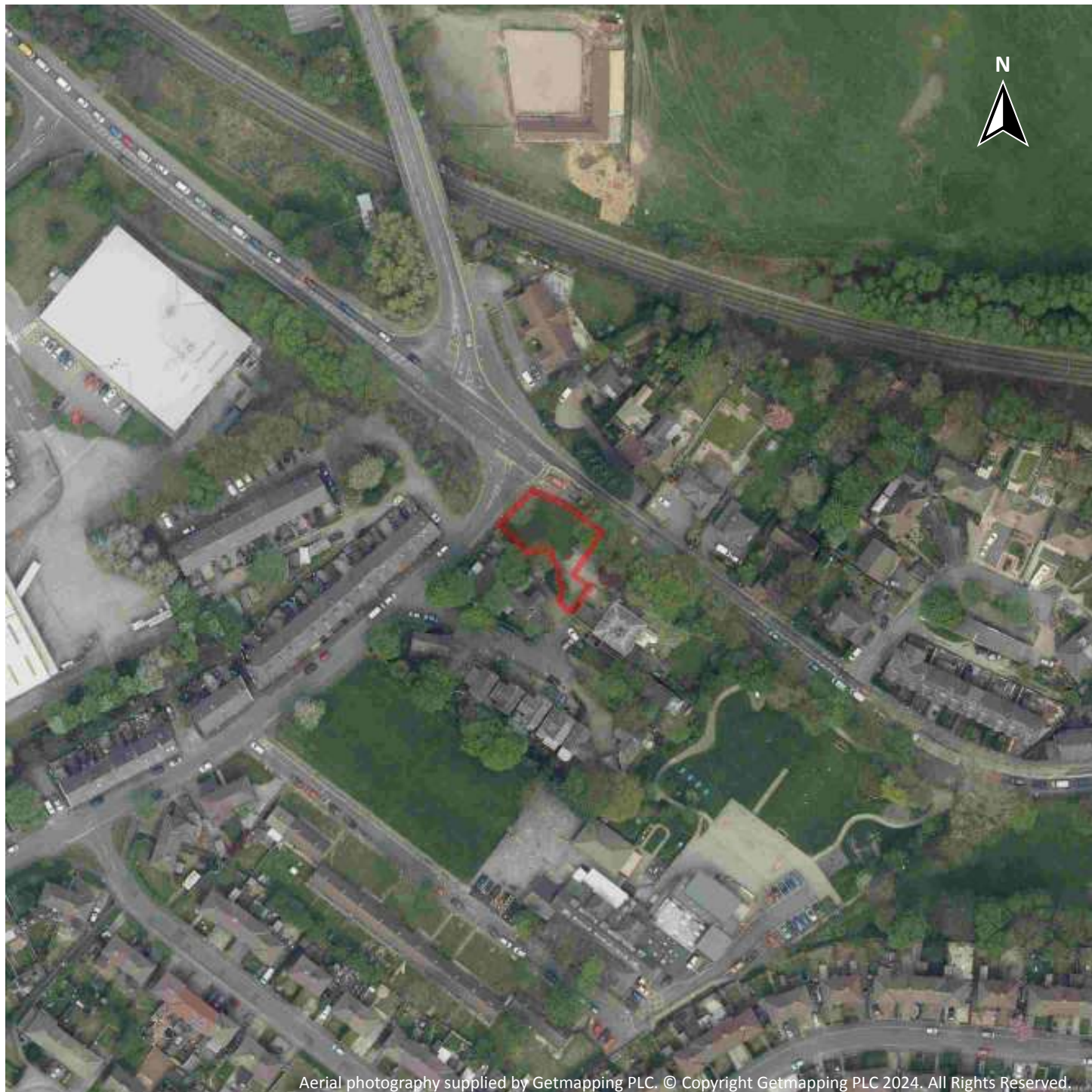


108	18.6	Non-coal mining	0	0	0	0	0
108	18.7	JPB mining areas	None (within 0m)				
108	18.8	The Coal Authority non-coal mining	0	0	0	0	-
108	18.9	Researched mining	0	0	0	0	-
109	18.10	Mining record office plans	0	0	0	0	-
109	18.11	BGS mine plans	0	0	0	0	-
109 >	18.12 >	Coal mining >	Identified (within 0m)				
109	18.13	Brine areas	None (within 0m)				
110	18.14	Gypsum areas	None (within 0m)				
110	18.15	Tin mining	None (within 0m)				
110	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
111	19.1	Natural cavities	0	0	0	0	-
111	19.2	Mining cavities	0	0	0	0	0
111	19.3	Reported recent incidents	0	0	0	0	-
111	19.4	Historical incidents	0	0	0	0	-
112	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
113 >	20.1 >	Radon >	Between 3% and 5% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
115 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
115	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
115	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
116	22.1	Underground railways (London)	0	0	0	-	-
116	22.2	Underground railways (Non-London)	0	0	0	-	-
117	22.3	Railway tunnels	0	0	0	-	-
117 >	22.4 >	Historical railway and tunnel features >	0	0	2	-	-
117	22.5	Royal Mail tunnels	0	0	0	-	-



117	22.6	Historical railways	0	0	0	-	-
118 >	22.7 >	Railways >	0	0	5	-	-
118	22.8	Crossrail 1	0	0	0	0	-
118	22.9	Crossrail 2	0	0	0	0	-
118	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 0.05ha



Recent site history - 2018 aerial photograph



Capture Date: 01/07/2018

Site Area: 0.05ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.05ha



Recent site history - 2011 aerial photograph



Capture Date: 02/05/2011

Site Area: 0.05ha



Recent site history - 2000 aerial photograph



Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 19/06/2000

Site Area: 0.05ha



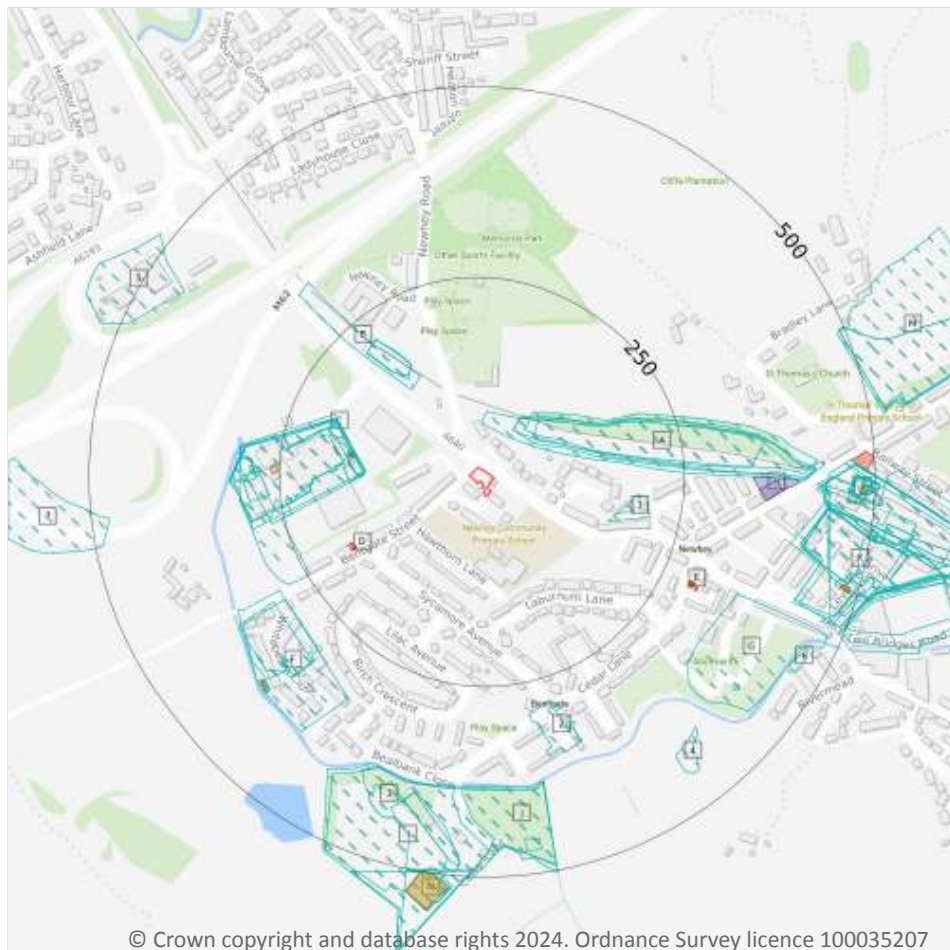
OS MasterMap site plan



Site Area: 0.05ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

80

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	54m NE	Cuttings	1851	791299



ID	Location	Land use	Dates present	Group ID
A	65m NE	Cuttings	1891 - 1938	708998
A	66m NE	Cuttings	1954	763167
A	75m NE	Cuttings	1976	757463
A	75m NE	Cuttings	1967	762523
B	134m NW	Cuttings	1851	747905
C	137m W	Unspecified Heaps	1938	684677
C	137m W	Unspecified Heap	1928	717817
C	137m W	Unspecified Mill	1928 - 1938	720909
C	137m W	Unspecified Mill	1976	766321
C	139m W	Unspecified Mill	1967	800664
C	139m W	Unspecified Heap	1954	773078
B	147m NW	Cuttings	1908 - 1938	768360
B	151m NW	Cuttings	1954	798449
1	159m E	Smithy	1891	680339
C	160m W	Unspecified Mill	1954	799088
C	164m W	Unspecified Heap	1954	785572
C	167m W	Unspecified Mill	1891 - 1908	745113
C	172m W	Unspecified Heap	1928	718108
C	194m W	Unspecified Heap	1954	774013
C	264m W	Unspecified Warehouse	1976	692399
C	275m W	Unspecified Tank	1891 - 1938	767639
C	275m W	Unspecified Tank	1954	772697
C	280m W	Chimney	1967 - 1976	735894
2	280m S	Unspecified Mills	1891	670064
C	281m W	Unspecified Heap	1928 - 1938	723220
C	286m W	Unspecified Heap	1954	729310
F	291m SW	Unspecified Mill	1954	765156
F	292m SW	Unspecified Mill	1891 - 1938	745182



ID	Location	Land use	Dates present	Group ID
F	306m SW	Unspecified Mill	1967	784541
F	335m SW	Unspecified Tank	1891 - 1938	796524
G	337m SE	Cotton Mill	1851	654908
F	338m SW	Chimney	1967	702104
F	376m SW	Unspecified Tanks	1908 - 1938	740280
F	379m SW	Unspecified Tanks	1954	771719
I	381m S	Sewage Works	1967 - 1976	738975
I	382m S	Sewage Works	1908 - 1928	769605
I	382m S	Sewage Works	1928 - 1938	728016
J	384m S	Sewage Works	1954	735301
3	395m S	Filter Beds	1908	685238
I	399m S	Railway Sidings	1928 - 1938	800537
K	399m E	Unspecified Mill	1954	752918
I	400m S	Railway Sidings	1954	796449
G	408m SE	Unspecified Tank	1891 - 1908	772066
4	409m SE	Refuse Heap	1928 - 1938	771218
K	412m E	Unspecified Mill	1967	762693
K	412m E	Unspecified Mill	1976	758290
K	415m E	Unspecified Disused Mill	1908	780905
K	415m E	Unspecified Mill	1928 - 1938	802024
K	415m E	Unspecified Mill	1891	805145
L	424m E	Railway Station	1851	741520
L	428m E	Railway Sidings	1954	802355
L	430m E	Railway Sidings	1928 - 1938	710991
L	430m E	Railway Sidings	1908	766024
L	430m E	Railway Sidings	1891	790493
L	434m E	Railway Sidings	1967	803993
L	437m E	Railway Sidings	1910	729393



ID	Location	Land use	Dates present	Group ID
K	439m E	Unspecified Disused Mill	1910	791858
L	439m E	Railway Sidings	1892	710151
K	442m E	Unspecified Mill	1892	801296
5	446m NW	Unspecified Works	1976	683432
J	452m S	Disused Filter Bed	1967	653841
6	455m SE	Refuse Heap	1928	656805
L	465m E	Railway Station	1908 - 1938	783035
L	466m E	Railway Station	1892	708656
K	468m E	Cotton Mill	1851	654900
L	469m E	Railway Station	1967 - 1976	736274
L	471m E	Railway Station	1891	722292
L	471m E	Railway Station	1954	795307
7	477m W	Cuttings	1976	653321
M	489m NE	Brick Works	1910	710104
N	491m S	Sewage Works	1891	786791
K	491m SE	Unspecified Mill	1892	804799
M	493m NE	Brick Works	1908	725412
M	493m NE	Brick Works	1928 - 1938	783667
K	495m SE	Unspecified Mill	1910	790852
N	495m S	Filter Beds	1891	707354
N	497m S	Filter Beds	1928 - 1938	746685
K	497m E	Unspecified Works	1976	683415
N	499m S	Filter Beds	1907	734700

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

5

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
C	251m W	Unspecified Tank	1988 - 1996	95702
F	379m SW	Unspecified Tank	1954 - 1955	106643
K	476m E	Unspecified Tank	1988 - 1995	92445
K	477m E	Unspecified Tank	1971	93004
N	499m S	Tanks	1891	80797

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

13

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
C	154m W	Electricity Substation	1995 - 1996	53595
C	155m W	Electricity Substation	1988	59961
C	174m W	Electricity Transformer	1976	49989
D	176m SW	Electricity Substation	1995	51052
D	176m SW	Electricity Substation	1996	60938
D	176m SW	Electricity Substation	1988	50569



ID	Location	Land use	Dates present	Group ID
D	178m SW	Electricity Substation	1976	52678
E	287m SE	Electricity Substation	1988	58060
E	288m SE	Electricity Substation	1954	56125
E	288m SE	Electricity Substation	1995	52261
E	291m SE	Electricity Substation	1971	55481
E	296m SE	Electricity Substation	1955 - 1968	62814
L	469m E	Electricity Substation	1985	47700

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	2
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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
H	340m E	Garage	1954 - 1968	18286
H	349m E	Garage	1985 - 1992	18131

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

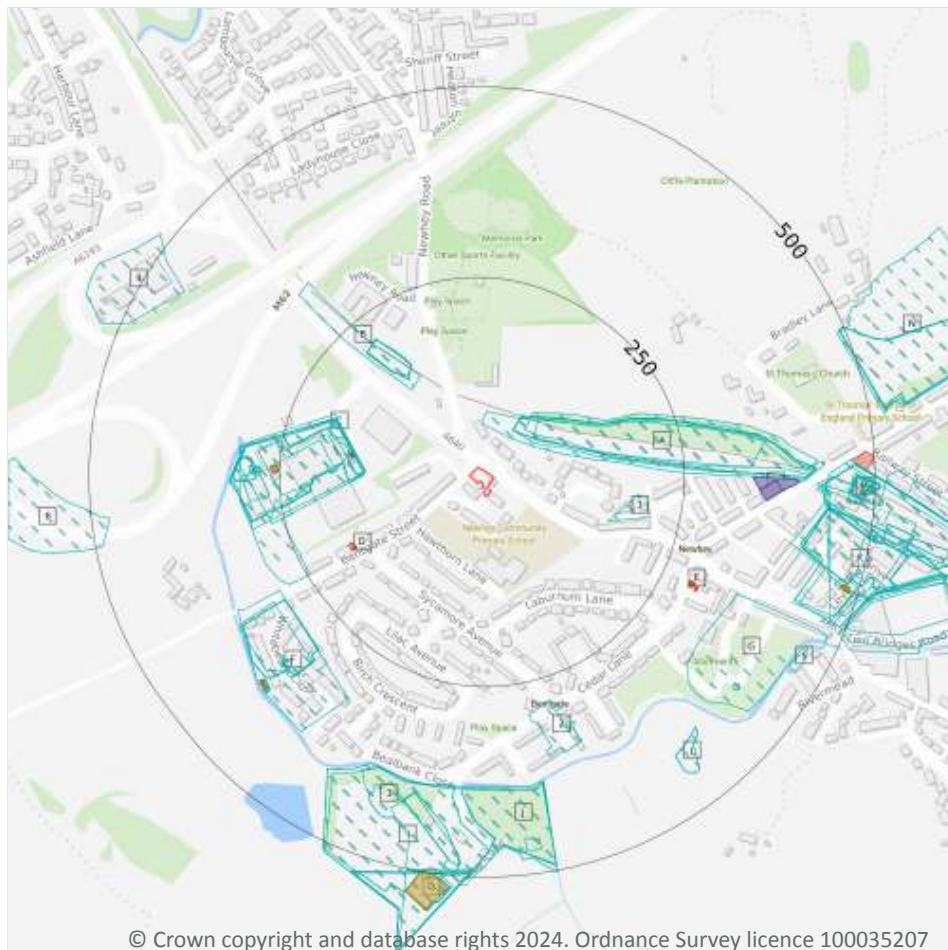
0

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

115

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 22](#) >

ID	Location	Land Use	Date	Group ID
A	54m NE	Cuttings	1851	791299
A	65m NE	Cuttings	1938	708998
A	65m NE	Cuttings	1928	708998

ID	Location	Land Use	Date	Group ID
A	65m NE	Cuttings	1908	708998
A	65m NE	Cuttings	1891	708998
A	66m NE	Cuttings	1954	763167
A	75m NE	Cuttings	1976	757463
A	75m NE	Cuttings	1967	762523
B	134m NW	Cuttings	1851	747905
C	137m W	Unspecified Heaps	1938	684677
C	137m W	Unspecified Mill	1938	720909
C	137m W	Unspecified Heap	1928	717817
C	137m W	Unspecified Mill	1928	720909
C	137m W	Unspecified Mill	1976	766321
C	139m W	Unspecified Mill	1967	800664
C	139m W	Unspecified Heap	1954	773078
B	147m NW	Cuttings	1938	768360
B	147m NW	Cuttings	1928	768360
B	147m NW	Cuttings	1908	768360
B	151m NW	Cuttings	1954	798449
1	159m E	Smithy	1891	680339
C	160m W	Unspecified Mill	1954	799088
C	164m W	Unspecified Heap	1954	785572
C	167m W	Unspecified Mill	1908	745113
C	172m W	Unspecified Heap	1928	718108
C	177m W	Unspecified Mill	1891	745113
C	194m W	Unspecified Heap	1954	774013
C	264m W	Unspecified Warehouse	1976	692399
C	275m W	Unspecified Tank	1938	767639
C	275m W	Unspecified Tank	1928	767639
C	275m W	Unspecified Tank	1908	767639

ID	Location	Land Use	Date	Group ID
C	275m W	Unspecified Tank	1891	767639
C	275m W	Unspecified Tank	1954	772697
C	280m W	Chimney	1976	735894
C	280m W	Chimney	1967	735894
2	280m S	Unspecified Mills	1891	670064
C	281m W	Unspecified Heap	1938	723220
C	281m W	Unspecified Heap	1928	723220
C	286m W	Unspecified Heap	1954	729310
F	291m SW	Unspecified Mill	1954	765156
F	292m SW	Unspecified Mill	1938	745182
F	292m SW	Unspecified Mill	1928	745182
F	292m SW	Unspecified Mill	1908	745182
F	292m SW	Unspecified Mill	1891	745182
F	306m SW	Unspecified Mill	1967	784541
F	335m SW	Unspecified Tank	1928	796524
F	335m SW	Unspecified Tank	1908	796524
F	335m SW	Unspecified Tank	1938	796524
F	335m SW	Unspecified Tank	1891	796524
G	337m SE	Cotton Mill	1851	654908
F	338m SW	Chimney	1967	702104
F	376m SW	Unspecified Tanks	1938	740280
F	376m SW	Unspecified Tanks	1928	740280
F	376m SW	Unspecified Tanks	1908	740280
F	379m SW	Unspecified Tanks	1954	771719
I	381m S	Sewage Works	1976	738975
I	381m S	Sewage Works	1967	738975
I	382m S	Sewage Works	1908	769605
I	382m S	Sewage Works	1938	728016

ID	Location	Land Use	Date	Group ID
J	382m S	Sewage Works	1928	769605
J	384m S	Sewage Works	1954	735301
3	395m S	Filter Beds	1908	685238
I	399m S	Railway Sidings	1938	800537
I	399m S	Railway Sidings	1928	800537
K	399m E	Unspecified Mill	1954	752918
I	400m S	Railway Sidings	1954	796449
G	408m SE	Unspecified Tank	1908	772066
G	408m SE	Unspecified Tank	1891	772066
L	409m SE	Refuse Heap	1938	771218
L	409m SE	Refuse Heap	1928	771218
K	412m E	Unspecified Mill	1967	762693
K	412m E	Unspecified Mill	1976	758290
K	415m E	Unspecified Mill	1938	802024
K	415m E	Unspecified Mill	1928	802024
K	415m E	Unspecified Disused Mill	1908	780905
K	415m E	Unspecified Mill	1891	805145
M	424m E	Railway Station	1851	741520
M	428m E	Railway Sidings	1954	802355
M	430m E	Railway Sidings	1938	710991
M	430m E	Railway Sidings	1928	710991
M	430m E	Railway Sidings	1908	766024
M	430m E	Railway Sidings	1891	790493
M	434m E	Railway Sidings	1967	803993
M	437m E	Railway Sidings	1910	729393
K	439m E	Unspecified Disused Mill	1910	791858
M	439m E	Railway Sidings	1892	710151
K	442m E	Unspecified Mill	1892	801296



ID	Location	Land Use	Date	Group ID
4	446m NW	Unspecified Works	1976	683432
J	452m S	Disused Filter Bed	1967	653841
5	455m SE	Refuse Heap	1928	656805
M	465m E	Railway Station	1910	783035
M	466m E	Railway Station	1892	708656
K	468m E	Cotton Mill	1851	654900
M	469m E	Railway Station	1976	736274
M	469m E	Railway Station	1967	736274
M	471m E	Railway Station	1938	783035
M	471m E	Railway Station	1928	783035
M	471m E	Railway Station	1908	783035
M	471m E	Railway Station	1891	722292
M	471m E	Railway Station	1954	795307
6	477m W	Cuttings	1976	653321
N	489m NE	Brick Works	1910	710104
O	491m S	Sewage Works	1891	786791
K	491m SE	Unspecified Mill	1892	804799
N	493m NE	Brick Works	1928	783667
N	493m NE	Brick Works	1908	725412
N	493m NE	Brick Works	1938	783667
K	495m SE	Unspecified Mill	1910	790852
O	495m S	Sewage Works	1938	728016
O	495m S	Sewage Works	1928	728016
O	495m S	Filter Beds	1891	707354
O	497m S	Filter Beds	1938	746685
O	497m S	Filter Beds	1928	746685
K	497m E	Unspecified Works	1976	683415
O	499m S	Filter Beds	1907	734700

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

9

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
C	251m W	Unspecified Tank	1996	95702
C	251m W	Unspecified Tank	1995	95702
C	252m W	Unspecified Tank	1988	95702
F	379m SW	Unspecified Tank	1955	106643
F	379m SW	Unspecified Tank	1954	106643
K	476m E	Unspecified Tank	1988	92445
K	477m E	Unspecified Tank	1995	92445
K	477m E	Unspecified Tank	1971	93004
O	499m S	Tanks	1891	80797

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

15

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

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
C	154m W	Electricity Substation	1996	53595
C	154m W	Electricity Substation	1995	53595
C	155m W	Electricity Substation	1988	59961
C	174m W	Electricity Transformer	1976	49989
D	176m SW	Electricity Substation	1996	60938



ID	Location	Land Use	Date	Group ID
D	176m SW	Electricity Substation	1995	51052
D	176m SW	Electricity Substation	1988	50569
D	178m SW	Electricity Substation	1976	52678
E	287m SE	Electricity Substation	1988	58060
E	288m SE	Electricity Substation	1954	56125
E	288m SE	Electricity Substation	1995	52261
E	291m SE	Electricity Substation	1971	55481
E	296m SE	Electricity Substation	1955	62814
E	296m SE	Electricity Substation	1968	62814
M	469m E	Electricity Substation	1985	47700

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	5
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 22 >](#)

ID	Location	Land Use	Date	Group ID
H	340m E	Garage	1954	18286
H	340m E	Garage	1955	18286
H	340m E	Garage	1968	18286



ID	Location	Land Use	Date	Group ID
H	349m E	Garage	1985	18131
H	350m E	Garage	1992	18131

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on [page 30](#) >

ID	Location	Details	
C	404m SW	Operator: United Utilities Water Limited Site Address: United Utilities Water Limited, Newhey, Milnrow, Rochdale, Lancashire, OL16 4LQ	WML Number: 53916 EPR Reference: 649660 Landfill type: A06: Landfill taking other wastes Status: Closure IPPC Reference: - EPR Number: EA/EPR/PP3791CQ

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



3.2 Historical landfill (BGS records)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

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

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

3.5 Historical waste sites

Records within 500m**0**

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

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

3.6 Licensed waste sites

Records within 500m**1**

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

Features are displayed on the Waste and landfill map on [page 30](#) >

ID	Location	Details		
C	481m S	Site Name: Crompton Effluent Treatment Works Site Address: Newhey, Milnrow, Rochdale, Lancashire, OL16 4LQ Correspondence Address: Wastewater Services, Lingley Green Avenue, Great Sankey, Warrington, Cheshire, WA5 3LP	Type of Site: Landfill taking other wastes Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: NWW010 EPR reference: - Operator: United Utilities Water Plc Waste Management licence No: 53916 Annual Tonnage: 0.001	Issue Date: 01/12/1980 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	6
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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 30 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	265m W	Milnrow Motorway Maintenance Compound, Elizabethan Way, Milnrow, Rochdale, OL16 4lg	WEX168951	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	265m W	Milnrow Motorway Maintenance Compound, Elizabethan Way, Milnrow, Rochdale, OL16 4lg	WEX168951	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	304m NE	Bradley Farm, Church Street, Newhey, Rochdale, OL16 3qs	WEX023904	Disposing of waste exemption	On a farm	Burning waste in the open
B	304m NE	Bradley Farm, Church Street, Newhey, Rochdale, OL16 3qs	WEX023904	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
D	421m E	Countryside Properties Site Office, Shaw Street, Rochdale, OL16 3sw	WEX086340	Using waste exemption	Not on a farm	Use of waste in construction



ID	Location	Site	Reference	Category	Sub-Category	Description
D	421m E	Countryside Properties Site Office, Shaw Street, Rochdale, OL16 3sw	WEX086340	Treating waste exemption	Not on a farm	Screening and blending of waste

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



4 Current industrial land use



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

4.1 Recent industrial land uses

Records within 250m

6

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 34](#) >

ID	Location	Company	Address	Activity	Category
A	160m W	Electricity Sub Station	Greater Manchester, OL16	Electrical Features	Infrastructure and Facilities
1	176m SW	Electricity Sub Station	Greater Manchester, OL16	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	187m W	Sun Chemical Ltd	Elizabethan Way, Milnrow, Greater Manchester, OL16 4LE	Printing Related Machinery	Industrial Products
A	198m W	Works	Greater Manchester, OL16	Unspecified Works Or Factories	Industrial Features
2	210m SE	Milnrow Mobile Valet	8, Elm Grove, Milnrow, Greater Manchester, OL16 4LH	Vehicle Cleaning Services	Personal, Consumer and Other Services
3	211m S	Prince Automotive Ltd	27, Lilac Avenue, Milnrow, Greater Manchester, OL16 4LN	Distribution and Haulage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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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 34 >](#)

ID	Location	Address	Details	
A	199m W	Sun Chemicals Ltd, Elizabethan Way, Newhey, Rochdale, Lancashire, OL16 4LE	Process: Manufacture of Coating Materials Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m**0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m**11**

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 34 >](#)



ID	Location	Address	Details	
A	202m W	ELLENROAD RING MILL SITE, ELLEN ROAD, ELIZABETH WAY, MILNROW, ROCHDALE, GREATER MANCHESTER	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016992023 Permit Version: 1 Receiving Water: RIVER BEAL	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 17/07/1986 Revocation Date: -
B	277m NW	ELLENROAD ENGINE HOUSE, ELIZABETHAN WAY, MILNROW, GREATER MANCHESTER, OL16 4LG	Effluent Type: TRADE DISCHARGES - BOILER BLOWDOWN EFFLUENT Permit Number: 016991034 Permit Version: 1 Receiving Water: RIVER BEAL	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 30/09/1985 Revocation Date: 08/06/2010
B	277m NW	ELLENROAD ENGINE HOUSE, ELIZABETHAN WAY, MILNROW, GREATER MANCHESTER, OL16 4LG	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016991034 Permit Version: 1 Receiving Water: RIVER BEAL	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 30/09/1985 Revocation Date: 08/06/2010
B	277m NW	ELLENROAD ENGINE HOUSE, ELIZABETHAN WAY, MILNROW, GREATER MANCHESTER, OL16 4LG	Effluent Type: TRADE DISCHARGES - COOLING WATER Permit Number: 016991034 Permit Version: 2 Receiving Water: RIVER BEAL	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/09/1985 Effective Date: 09/06/2010 Revocation Date: -
C	385m S	SHAW ROAD CSO, NEWHEY, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982938 Permit Version: 2 Receiving Water: RIVER BEAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 26/03/2010 Effective Date: 01/09/2013 Revocation Date: -
C	385m S	GORDON/WALSELEY STREET CSO, ROCHDALE, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016993492 Permit Version: 1 Receiving Water: TO THE RIVER BEAL	Status: REVOKED - UNSPECIFIED Issue date: 26/09/2003 Effective Date: 26/09/2003 Revocation Date: 26/09/2003
C	389m S	SHAW ROAD CSO, NEWHEY, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982938 Permit Version: 1 Receiving Water: RIVER BEAL	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 23/06/1995 Revocation Date: 31/08/2013



ID	Location	Address	Details	
E	403m SW	CEDAR LANE CSO (31031), NEWHEY, ROCHDALE, GREATER MANCHESTER, OL16 4LQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01OLD0150 Permit Version: 1 Receiving Water: RIVER BEAL	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 31/12/1994
E	403m SW	CEDAR LANE CSO (31031), NEWHEY, ROCHDALE, GREATER MANCHESTER, OL16 4LQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01OLD0150 Permit Version: 2 Receiving Water: RIVER BEAL	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 18/03/2010
E	405m SW	CEDAR LANE CSO (31031), NEWHEY, ROCHDALE, GREATER MANCHESTER, OL16 4LQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01OLD0150 Permit Version: 4 Receiving Water: RIVER BEAL	Status: VARIED UNDER EPR 2010 Issue date: 11/05/2022 Effective Date: 11/05/2022 Revocation Date: -
E	412m SW	CEDAR LANE CSO (31031), NEWHEY, ROCHDALE, GREATER MANCHESTER, OL16 4LQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01OLD0150 Permit Version: 3 Receiving Water: RIVER BEAL	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 19/03/2010 Effective Date: 19/03/2010 Revocation Date: 10/05/2022

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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



4.16 List 1 Dangerous Substances

Records within 500m

0

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

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

4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

5

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

Features are displayed on the Current industrial land use map on [page 34 >](#)

ID	Location	Details	
4	347m SW	Incident Date: 20/07/2003 Incident Identification: 175186 Pollutant: Sewage Materials Pollutant Description: Sludge	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
5	381m S	Incident Date: 30/07/2005 Incident Identification: 334149 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
6	394m NW	Incident Date: 11/06/2013 Incident Identification: 1121300 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 1 (Major) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
D	398m SE	Incident Date: 11/05/2001 Incident Identification: 5213 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
D	398m SE	Incident Date: 11/05/2001 Incident Identification: 5213 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

4.21 Pollution inventory radioactive waste

Records within 500m

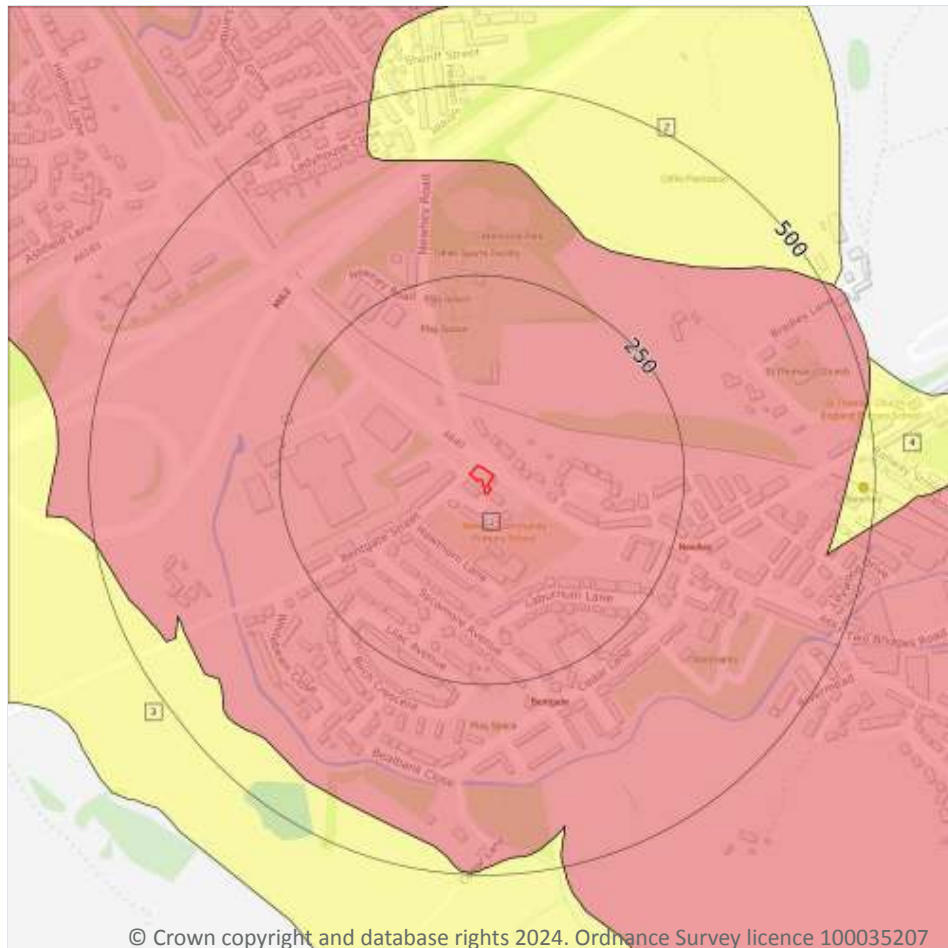
0

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

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



5 Hydrogeology - Superficial aquifer



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

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5.1 Superficial aquifer

Records within 500m

4

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 42](#) >

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	329m NE	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	426m SW	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	449m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

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5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

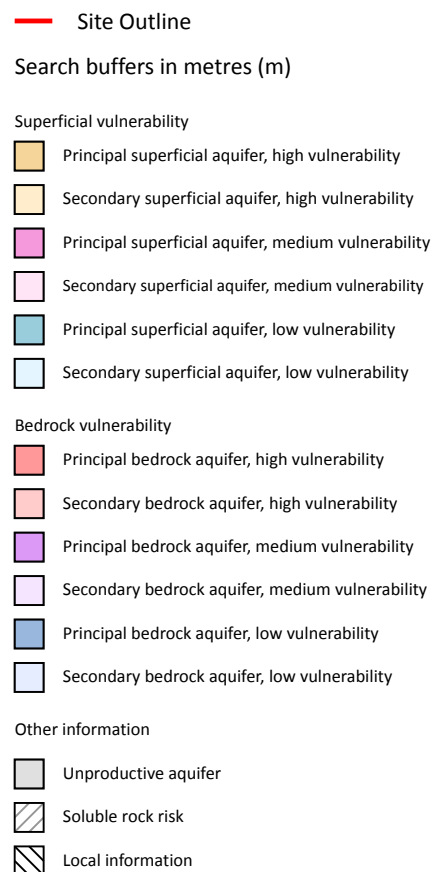
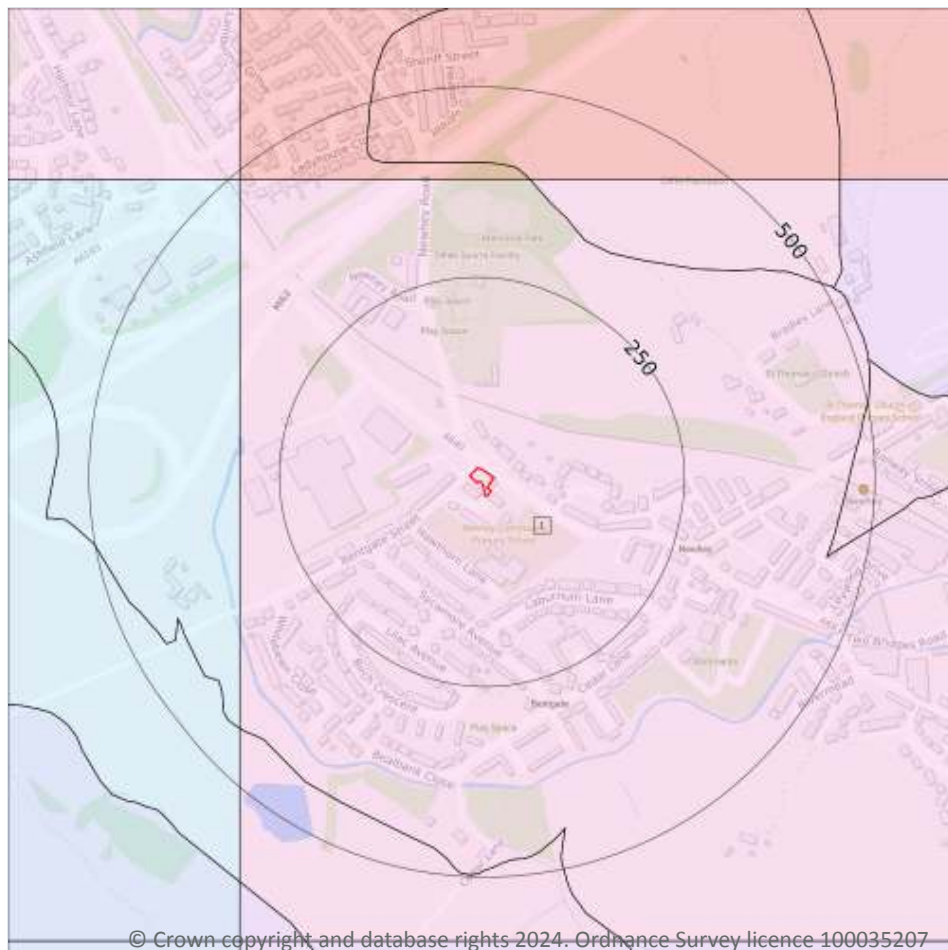
Features are displayed on the Bedrock aquifer map on [page 44](#) >

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

1

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 45](#) >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: <3m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

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

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

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

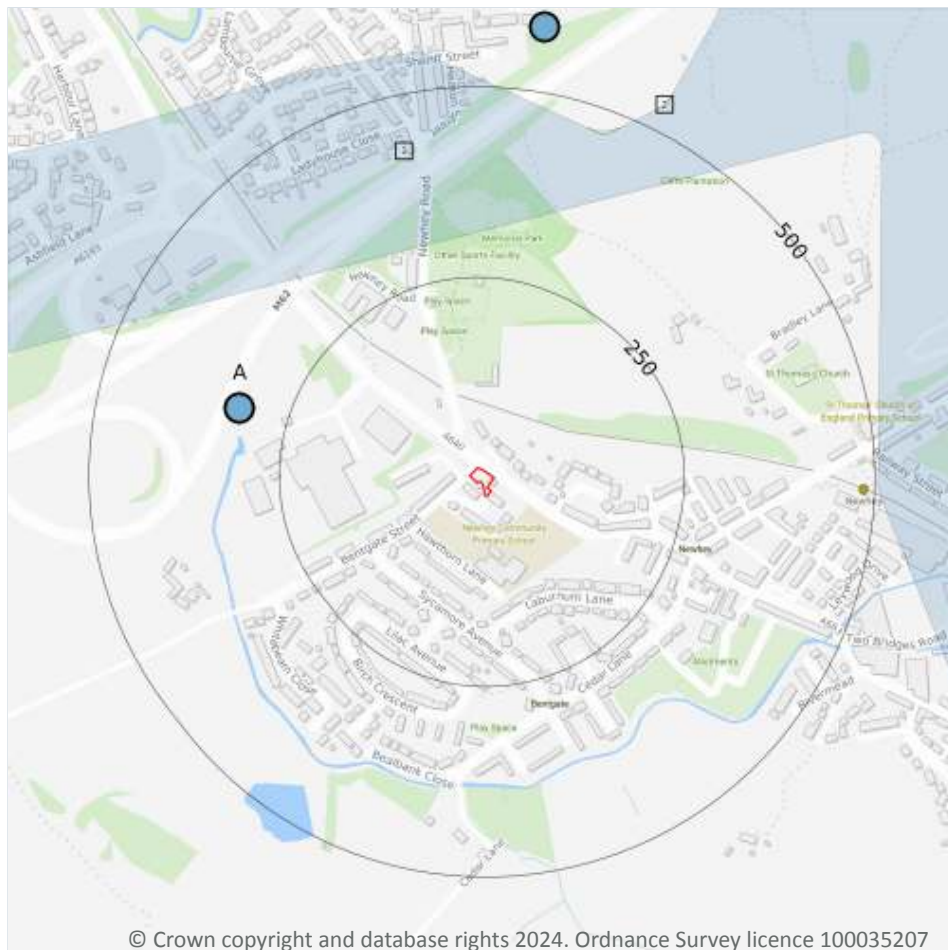
5.5 Groundwater vulnerability- local information

Records on site	0
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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

18

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 47 >](#)

ID	Location	Details	
-	787m N	Status: Active Licence No: 2569002206 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: COLLIERY SHAFT @ PREMISES, BUTTERWORTH HALL, MILNROW Data Type: Point Name: United Utilities Water Ltd Easting: 393200 Northing: 412400	Annual Volume (m ³): 3982296 Max Daily Volume (m ³): 13638 Original Application No: 1567 Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1994 Version End Date: -
-	787m N	Status: Historical Licence No: 2569002206 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "COLLIERY SHAFT @ PREMISES, BUTTERWORTH HALL, MILNROW" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 393200 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1994 Version End Date: -
-	961m NE	Status: Historical Licence No: 2569002209 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "COLLECTING CHAMBER AT LAND ADJOINING LARK HILL FARM, NEWHEY" Data Type: Point Name: WOOD Easting: 394000 Northing: 412300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/11/1970 Expiry Date: - Issue No: 100 Version Start Date: 03/11/1970 Version End Date: -
-	961m NE	Status: Historical Licence No: 2569002209 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: COLLECTING CHAMBER AT LAND ADJOINING LARK HILL FARM, NEWHEY Data Type: Point Name: WOOD Easting: 394000 Northing: 412300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 03/11/1970 Expiry Date: - Issue No: 100 Version Start Date: 03/11/1970 Version End Date: -

ID	Location	Details	
-	1140m E	Status: Historical Licence No: 2569002258 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT TOP-'O'-'TH'-HILL FARM, HAUGH, MILNROW" Data Type: Point Name: J BUTLER (WHOLESALE MEATS) LTD Easting: 394400 Northing: 411200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/07/1994 Expiry Date: - Issue No: 101 Version Start Date: 19/07/1994 Version End Date: -
-	1140m E	Status: Historical Licence No: 2569002258 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT TOP-'O'-'TH'-HILL FARM, HAUGH, MILNROW Data Type: Point Name: J BUTLER (WHOLESALE MEATS) LTD Easting: 394400 Northing: 411200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/07/1994 Expiry Date: - Issue No: 101 Version Start Date: 19/07/1994 Version End Date: -
-	1493m SW	Status: Historical Licence No: 2569002204 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, OLD BARN FARM,BURNEDGE, ROCHDALE" Data Type: Point Name: CRYER Easting: 392200 Northing: 410600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 24/04/1969 Version End Date: -
-	1493m SW	Status: Historical Licence No: 2569002204 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, OLD BARN FARM,BURNEDGE, ROCHDALE Data Type: Point Name: CRYER Easting: 392200 Northing: 410600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 24/04/1969 Version End Date: -



ID	Location	Details	
-	1587m W	Status: Historical Licence No: 2569002086 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT BROADSHAW FARM, MILNROW, ROCHDALE" Data Type: Point Name: CROSTON Easting: 391800 Northing: 411100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/02/1966 Version End Date: -
-	1587m W	Status: Historical Licence No: 2569002086 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT BROADSHAW FARM, MILNROW, ROCHDALE Data Type: Point Name: CROSTON Easting: 391800 Northing: 411100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 02/02/1966 Version End Date: -
-	1757m NE	Status: Active Licence No: 2569002253 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT TUNSHILL MILNROW ROCHDALE Data Type: Point Name: TUNSHILL GOLF CLUB Easting: 394180 Northing: 413150	Annual Volume (m ³): 4546 Max Daily Volume (m ³): 54.55 Original Application No: 7126 Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1757m NE	Status: Historical Licence No: 2569002253 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT TUNSHILL, MILNROW, ROCHDALE" Data Type: Point Name: TUNSHILL GOLF CLUB Easting: 394180 Northing: 413150	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 18/06/1992 Version End Date: -

ID	Location	Details	
-	1757m NE	Status: Historical Licence No: 2569002253 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT TUNSHILL, MILNROW, ROCHDALE Data Type: Point Name: TUNSHILL GOLF CLUB Easting: 394180 Northing: 413150	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 18/06/1992 Version End Date: -
-	1902m W	Status: Historical Licence No: 2569002159 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "WELL AT FARM, LOWER LANE, MILNROW, ROCHDALE" Data Type: Point Name: HARTLE Easting: 391400 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1966 Version End Date: -
-	1902m W	Status: Historical Licence No: 2569002159 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: WELL AT FARM, LOWER LANE, MILNROW, ROCHDALE Data Type: Point Name: HARTLE Easting: 391400 Northing: 411600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1966 Version End Date: -
-	1902m W	Status: Historical Licence No: 2569002159 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: WELL AT FARM LOWER LANE MILNROW ROCHDALE Data Type: Point Name: HARTLE Easting: 391400 Northing: 411600	Annual Volume (m ³): 5123.34 Max Daily Volume (m ³): 31.822 Original Application No: - Original Start Date: 01/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -

ID	Location	Details	
-	1905m W	Status: Historical Licence No: 2569002060 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT CASTLE FARM, LOWER LANE, MILNROW" Data Type: Point Name: SANDERSON Easting: 391400 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/02/1966 Version End Date: -
-	1905m W	Status: Historical Licence No: 2569002060 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT CASTLE FARM, LOWER LANE, MILNROW Data Type: Point Name: SANDERSON Easting: 391400 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 11/02/1966 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

14

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 47 >](#)

ID	Location	Details	
A	315m W	Status: Historical Licence No: 2569002064 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "R BEAL AT NEWHEY, MILNROW, ROCHDALE" Data Type: Point Name: THE SECRETARY Easting: 393000 Northing: 411700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/06/1993 Version End Date: -



ID	Location	Details	
A	315m W	Status: Historical Licence No: 2569002064 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "R BEAL AT NEWHEY, MILNROW, ROCHDALE" Data Type: Point Name: THE SECRETARY Easting: 393000 Northing: 411700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/06/1993 Version End Date: -
A	315m W	Status: Historical Licence No: 2569002064 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: R BEAL AT NEWHEY, MILNROW, ROCHDALE Data Type: Point Name: THE SECRETARY Easting: 393000 Northing: 411700	Annual Volume (m ³): 327312 Max Daily Volume (m ³): 2954.9 Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/06/1993 Version End Date: -
A	315m W	Status: Historical Licence No: 2569002064 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R BEAL AT NEWHEY, MILNROW, ROCHDALE Data Type: Point Name: ELLENROAD TRUST LTD Easting: 393000 Northing: 411700	Annual Volume (m ³): 327312 Max Daily Volume (m ³): 2954.9 Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 11/09/2008 Version End Date: -
A	315m W	Status: Historical Licence No: 2569002064 Details: Non-Evaporative Cooling Direct Source: Surface, Non-Tidal - North West Region Point: R BEAL AT NEWHEY, MILNROW, ROCHDALE Data Type: Point Name: ELLENROAD TRUST LTD Easting: 393000 Northing: 411700	Annual Volume (m ³): 3520 Max Daily Volume (m ³): 350 Original Application No: NPS/WR/015275 Original Start Date: 18/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 30/01/2014 Version End Date: -

ID	Location	Details	
A	315m W	Status: Historical Licence No: 2569002233 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R BEAL AT MILNROW Data Type: Point Name: SUN CHEMICAL LTD Easting: 393000 Northing: 411700	Annual Volume (m ³): 66370 Max Daily Volume (m ³): 181.80 Original Application No: 2725 Original Start Date: 13/08/1986 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2005 Version End Date: -
B	586m N	Status: Historical Licence No: 2569002207 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIB OF BUTTERWORTH HALL BRK AT Data Type: Point Name: SONOCO INDUSTRIAL PACKAGING Easting: 393400 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/06/1970 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1990 Version End Date: -
B	586m N	Status: Historical Licence No: 2569002207 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIB OF BUTTERWORTH HALL BRK AT Data Type: Point Name: SONOCO INDUSTRIAL PACKAGING Easting: 393400 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/06/1970 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1990 Version End Date: -
B	586m N	Status: Historical Licence No: 2569002207 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIB OF BUTTERWORTH HALL BRK AT Data Type: Point Name: SONOCO INDUSTRIAL PACKAGING Easting: 393400 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/06/1970 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1990 Version End Date: -



ID	Location	Details	
-	1155m NW	Status: Historical Licence No: 2569002175 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SPRINGS AT PREMISESMILNROW Data Type: Point Name: HOLROYD MACHINES TOOLS & ROTORS Easting: 392700 Northing: 412600	Annual Volume (m ³): 16365.6 Max Daily Volume (m ³): 54.552 Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
-	1155m NW	Status: Historical Licence No: 2569002175 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SPRINGS AT PREMISESMILNROW Data Type: Point Name: Precision Components Limited Easting: 392700 Northing: 412600	Annual Volume (m ³): 16365 Max Daily Volume (m ³): 54.55 Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 101 Version Start Date: 30/11/2009 Version End Date: -
-	1705m E	Status: Historical Licence No: 2569002154 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: COMPENSATION REL FROM OGDEN RES ABST FROM WELL PIT NEWHEY Data Type: Point Name: P W Greenhalgh Finishing Limited Easting: 394950 Northing: 412150	Annual Volume (m ³): 472874 Max Daily Volume (m ³): 1819 Original Application No: NPS/WR/036977 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/02/2022 Version End Date: -
-	1705m E	Status: Historical Licence No: 2569002154 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: COMPENSATION REL FROM OGDEN RES ABST FROM WELL PIT NEWHEY Data Type: Point Name: P W Greenhalgh Finishing Limited Easting: 394950 Northing: 412150	Annual Volume (m ³): 472874 Max Daily Volume (m ³): 1819 Original Application No: NPS/WR/036977 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/02/2022 Version End Date: -

ID	Location	Details	
-	1705m E	Status: Historical Licence No: 2569002154 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: COMPENSATION REL FROM OGDEN RES ABST FROM WELL PIT NEWHEY Data Type: Point Name: P W Greenhalgh Finishing Limited Easting: 394950 Northing: 412150	Annual Volume (m ³): 472874 Max Daily Volume (m ³): 1819 Original Application No: NPS/WR/036977 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 17/02/2022 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

3

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 47 >](#)

ID	Location	Details	
B	586m N	Status: Historical Licence No: 2569002207 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY UNNAMED TRIB OF BUTTERWORTH HALL BRK AT Data Type: Point Name: SONOCO INDUSTRIAL PACKAGING Easting: 393400 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 26/06/1970 Expiry Date: - Issue No: 100 Version Start Date: 01/02/1990 Version End Date: -
-	787m N	Status: Active Licence No: 2569002206 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: COLLIERY SHAFT @ PREMISES, BUTTERWORTH HALL, MILNROW Data Type: Point Name: United Utilities Water Ltd Easting: 393200 Northing: 412400	Annual Volume (m ³): 3982296 Max Daily Volume (m ³): 13638 Original Application No: 1567 Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1994 Version End Date: -



ID	Location	Details	
-	787m N	Status: Historical Licence No: 2569002206 Details: Potable Water Supply - Direct Direct Source: Ground Water - North West Region Point: "COLLIERY SHAFT @ PREMISES, BUTTERWORTH HALL, MILNROW" Data Type: Point Name: UNITED UTILITIES WATER PLC Easting: 393200 Northing: 412400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 31/03/1994 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	2
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination. Features are displayed on the Abstractions and Source Protection Zones map on [page 47 >](#)

ID	Location	Type	Description
1	300m N	2	Outer catchment
2	467m N	3	Total catchment

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

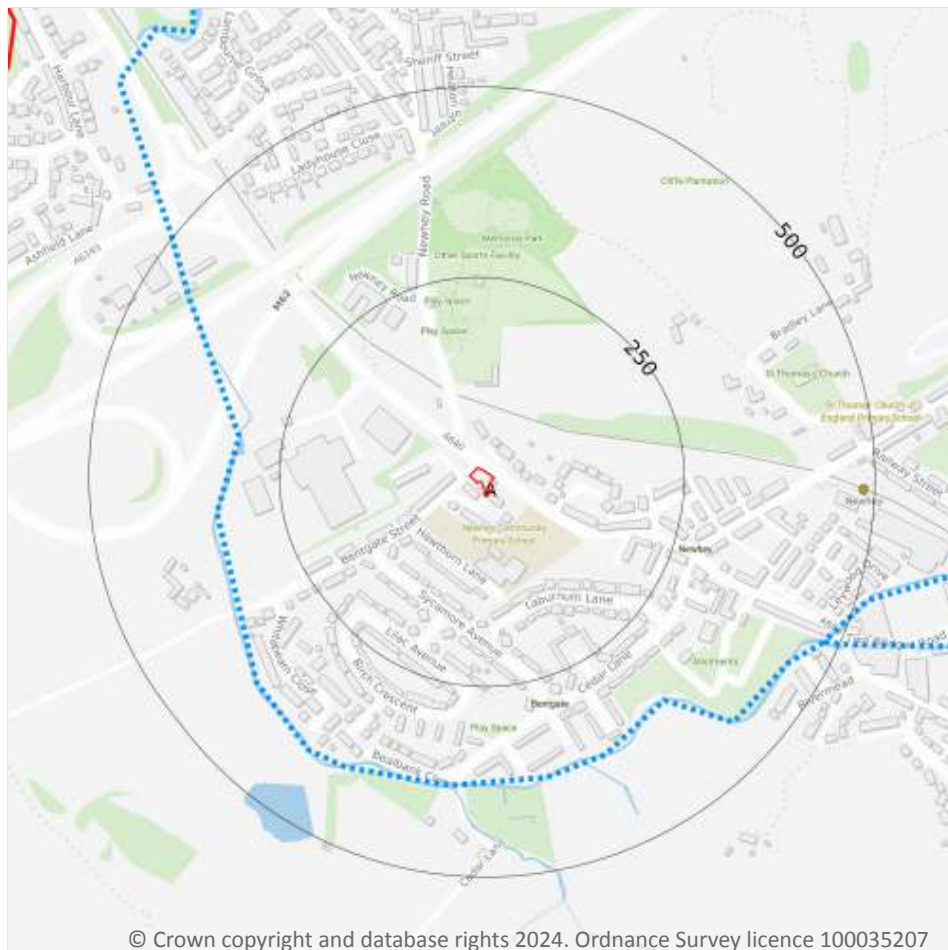
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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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

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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.

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

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

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Beal	GB112069064690	Roch Irk Medlock	Irwell

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

6.4 WFD Surface water bodies

Records identified

1

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

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

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	307m W	River	Beal	GB112069064690 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site

1

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



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

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

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

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

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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



7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

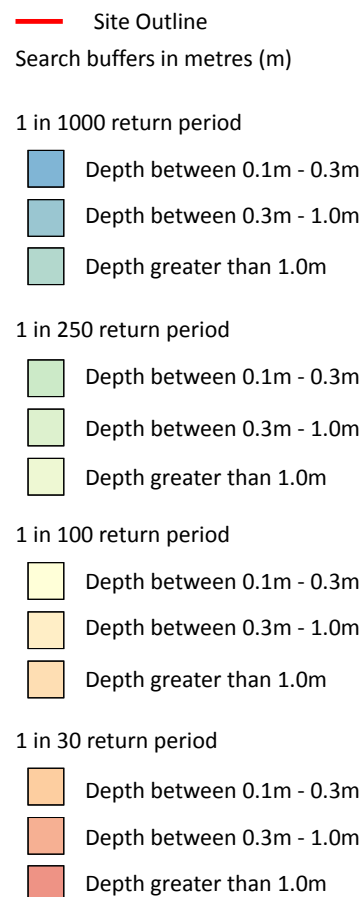
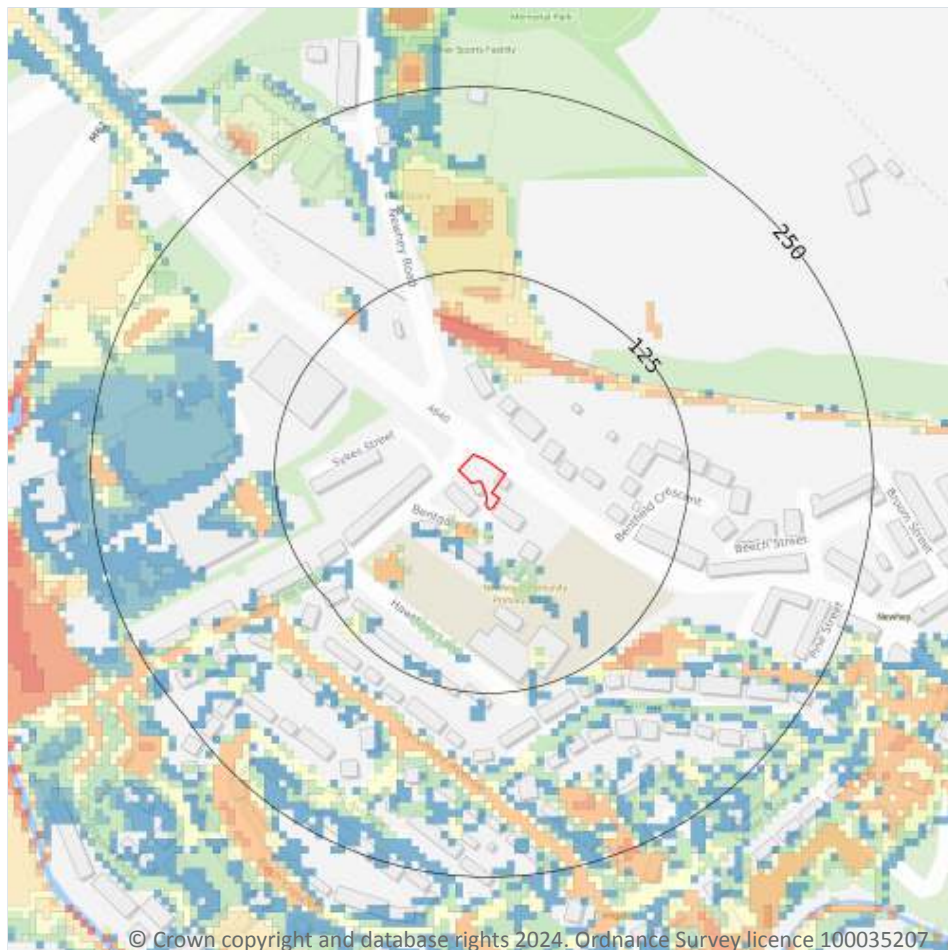
0

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

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 64 >](#)

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

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

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

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

Features are displayed on the Groundwater flooding map on [page 66](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



— Site Outline
Search buffers in metres (m)
Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**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**0**

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

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

4

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

Features are displayed on the Environmental designations map on [page 67 >](#)

ID	Location	Name	Local Authority name
1	87m N	Merseyside and Greater Manchester	Rochdale
2	316m W	Merseyside and Greater Manchester	Rochdale
3	355m SE	Merseyside and Greater Manchester	Rochdale
4	359m SW	Merseyside and Greater Manchester	Oldham

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.



ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Discharges - Any discharge of water or liquid waste of more than 5m³/day to ground (ie to seep away) or to surface water, such as a beck or stream.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

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



11 Visual and cultural designations



- 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**0**

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

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

11.5 Conservation Areas

Records within 250m**0**

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



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

11.6 Scheduled Ancient Monuments

Records within 250m

1

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.

Features are displayed on the Visual and cultural designations map on [page 74 >](#)

ID	Location	Ancient monument name	Reference number
1	236m W	Ellenroad Ring Mill	1001958

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

11.7 Registered Parks and Gardens

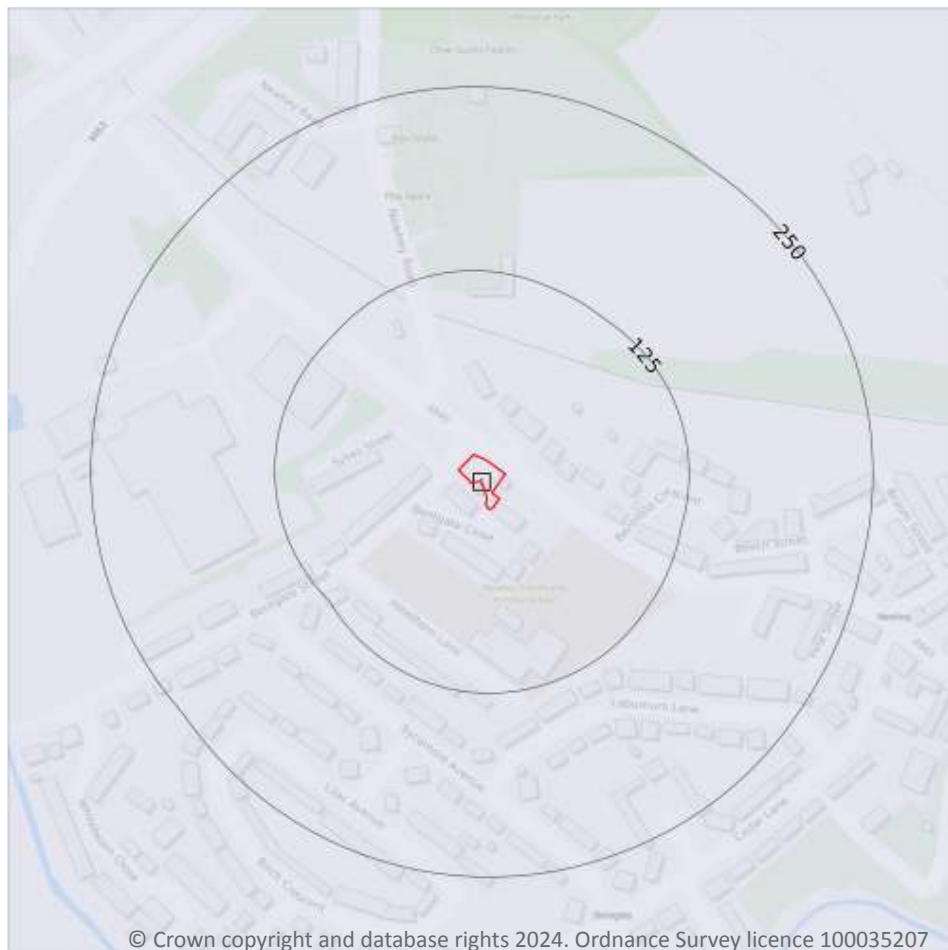
Records within 250m

0

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

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

12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

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

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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

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

1

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 79](#) >

ID	Location	Main Habitat	Other habitats
1	192m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



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

14.1 10k Availability

Records within 500m

1

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

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

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD91SW

This data is sourced from the British Geological Survey.



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

Records within 500m	10
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Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 82 >](#)

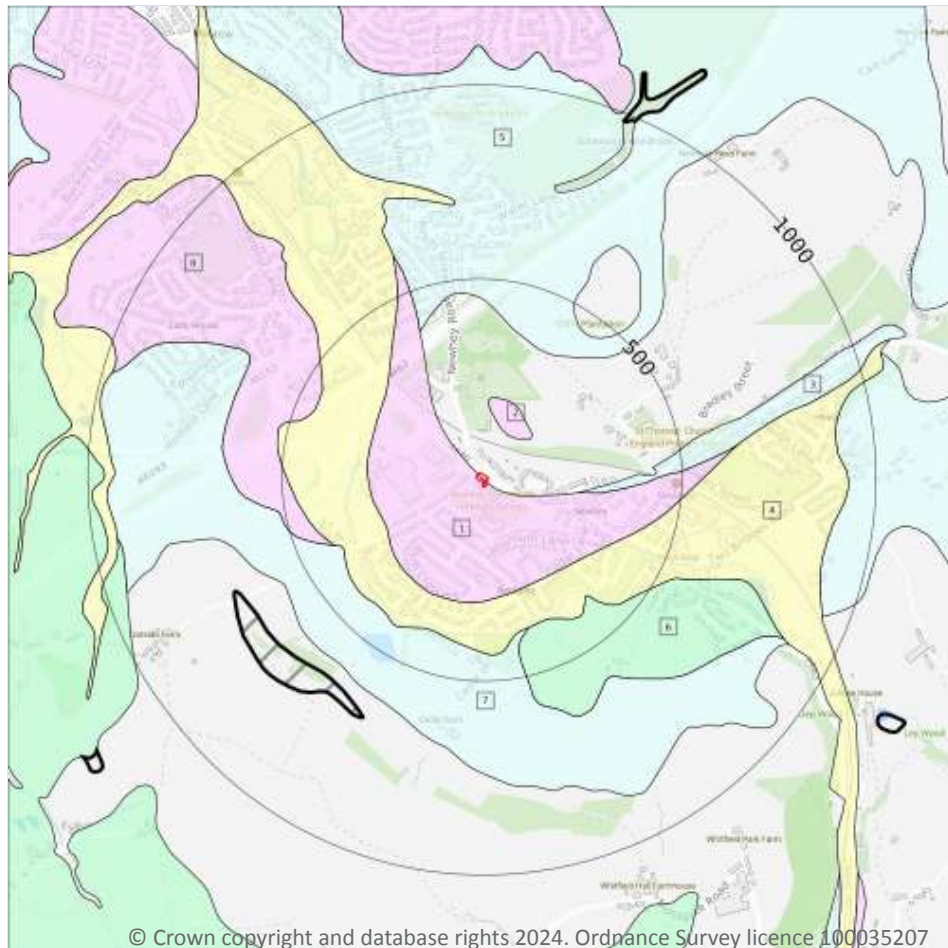
ID	Location	LEX Code	Description	Rock description
1	37m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	73m N	WGR-VOID	Worked Ground (Undivided)	Void
3	299m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	306m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	306m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	371m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	393m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	430m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	475m W	WGR-VOID	Worked Ground (Undivided)	Void
A	493m N	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

8

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 84](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	119m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	235m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
4	263m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
5	353m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	377m SE	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
7	380m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
8	406m SW	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

14.5 Bedrock geology (10k)

Records within 500m

10

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 86](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	211m E	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
3	344m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
4	445m NW	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
5	445m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
8	449m NE	OL-SDST	Old Lawrence Rock - Sandstone	Langsettian Sub-age
9	459m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	490m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	490m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	493m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And 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

4

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.

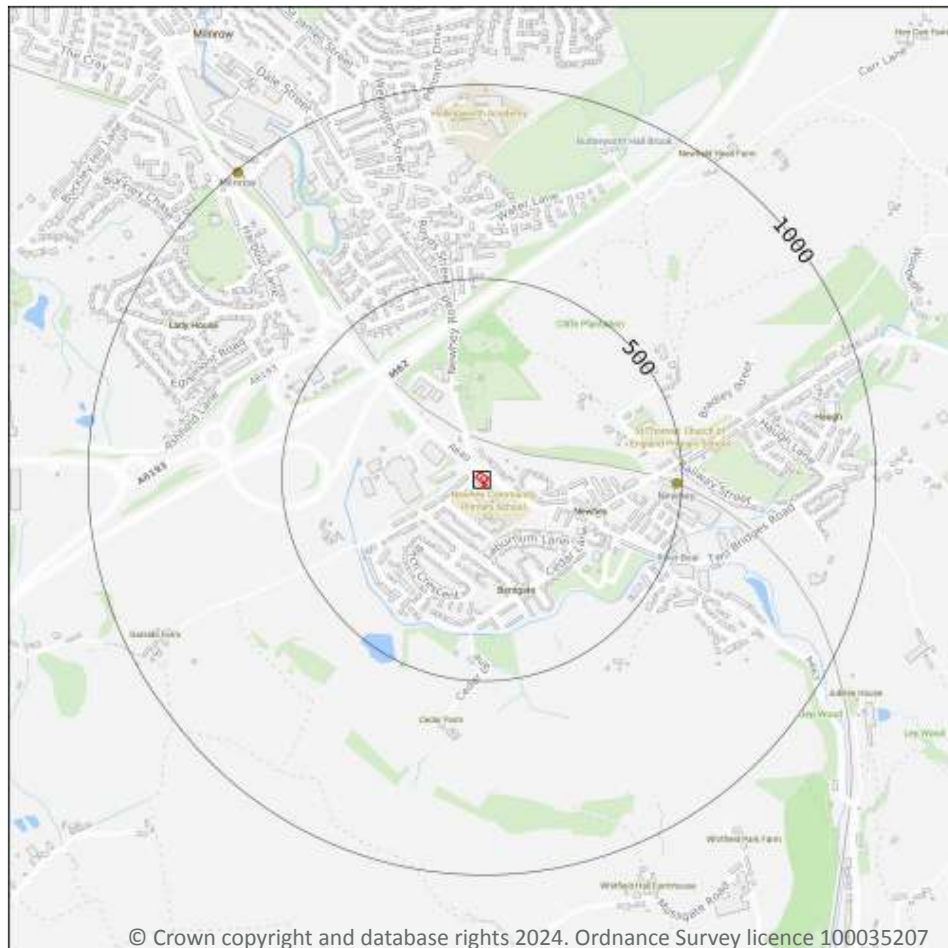
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 86](#) >

ID	Location	Category	Description
6	445m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
7	445m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
12	490m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	493m E	FAULT	Normal fault, inferred; crossmarks on downthrow side

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 88](#) >

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

This data is sourced from the British Geological Survey.



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

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

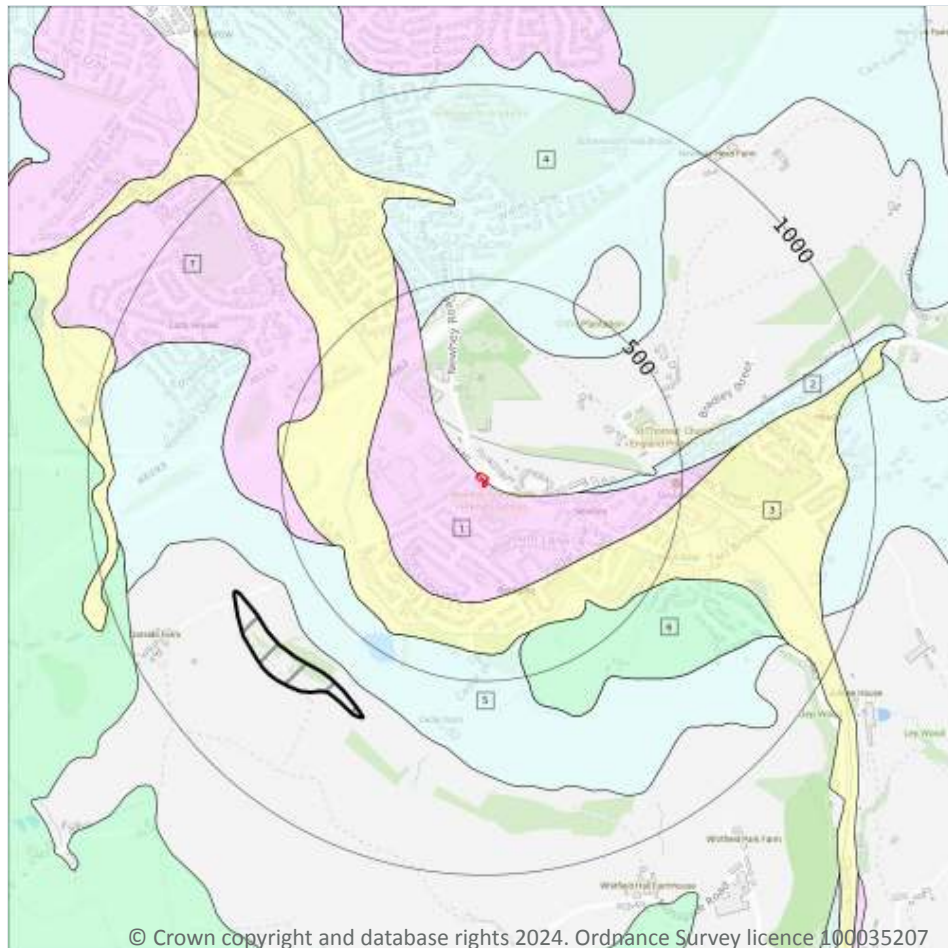
0

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

7

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

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

ID	Location	LEX Code	Description	Rock description
1	On site	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	235m E	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
3	263m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	354m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON



ID	Location	LEX Code	Description	Rock description
5	387m SW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	388m SE	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
7	406m SW	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **1**

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m **0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

8

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 92](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	212m E	OL-SDST	OLD LAWRENCE ROCK - SANDSTONE	WESTPHALIAN
3	344m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	446m NW	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
5	446m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	490m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	490m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	494m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1
---------------------------	----------

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	4
----------------------------	----------

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 92 >](#)

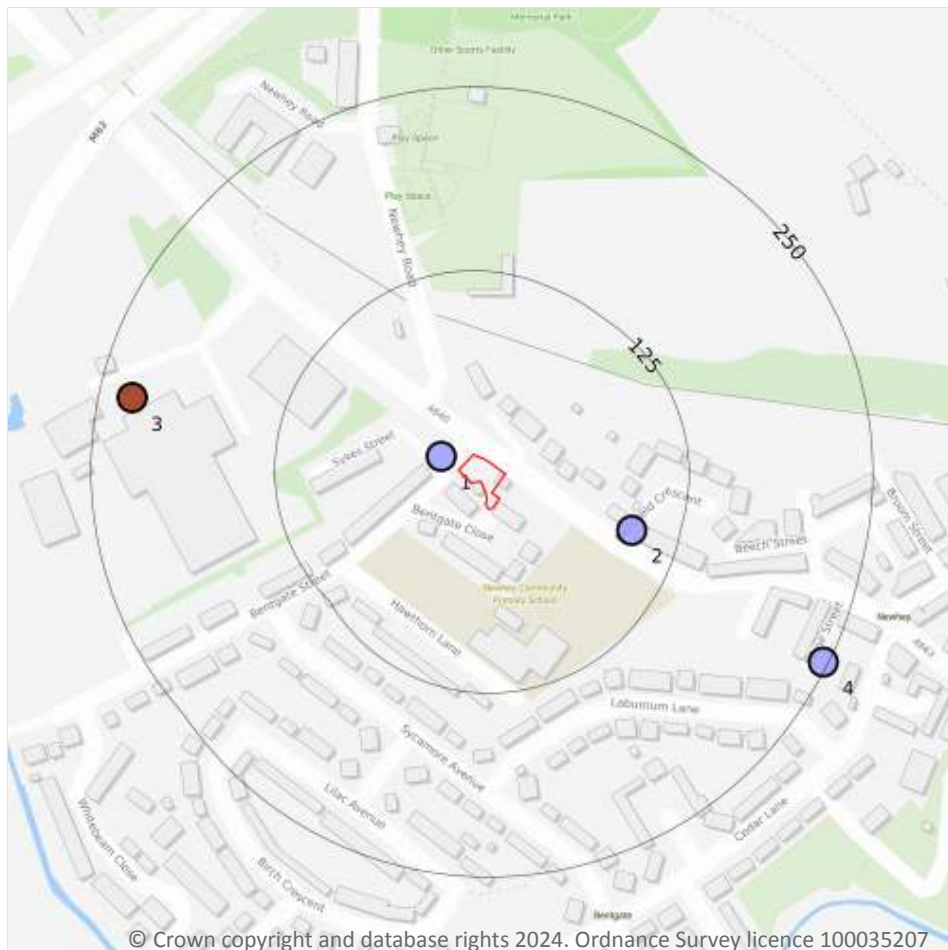
ID	Location	Category	Description
6	446m NW	FAULT	Fault, inferred
7	446m NW	FAULT	Fault, inferred
10	490m E	FAULT	Fault, inferred
12	494m E	FAULT	Fault, inferred



This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

4

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

Features are displayed on the Boreholes map on [page 95](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	15m NW	393290 411620	NEWHEY TRUNK SEWER ROCHDALE BH4	6.0	N	35291 ↗
2	93m E	393420 411570	NEWHEY TRUNK SEWER ROCHDALE BH5	6.0	N	35292 ↗
3	228m W	393080 411660	ELLEN ROAD RING MILL LTD	-1.0	N	35343 ↗

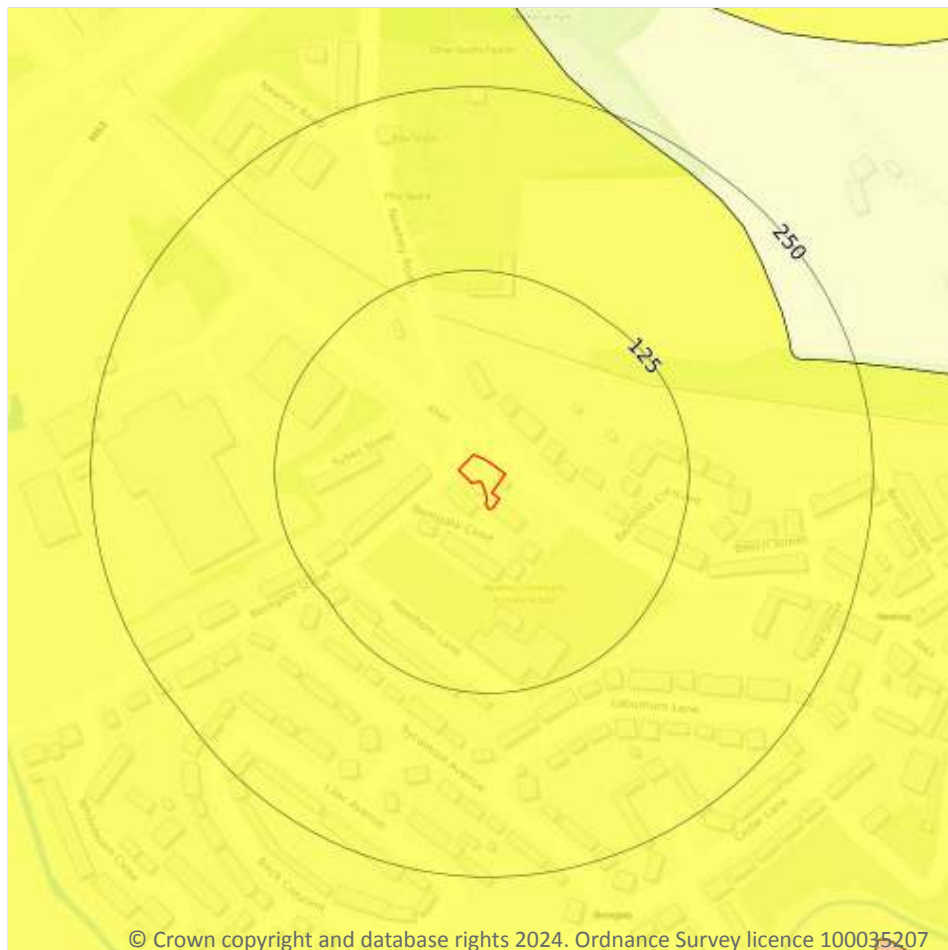


ID	Location	Grid reference	Name	Length	Confidential	Web link
4	247m SE	393550 411480	NEWHEY TRUNK SEWER ROCHDALE BH6	6.0	N	35293 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

1

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

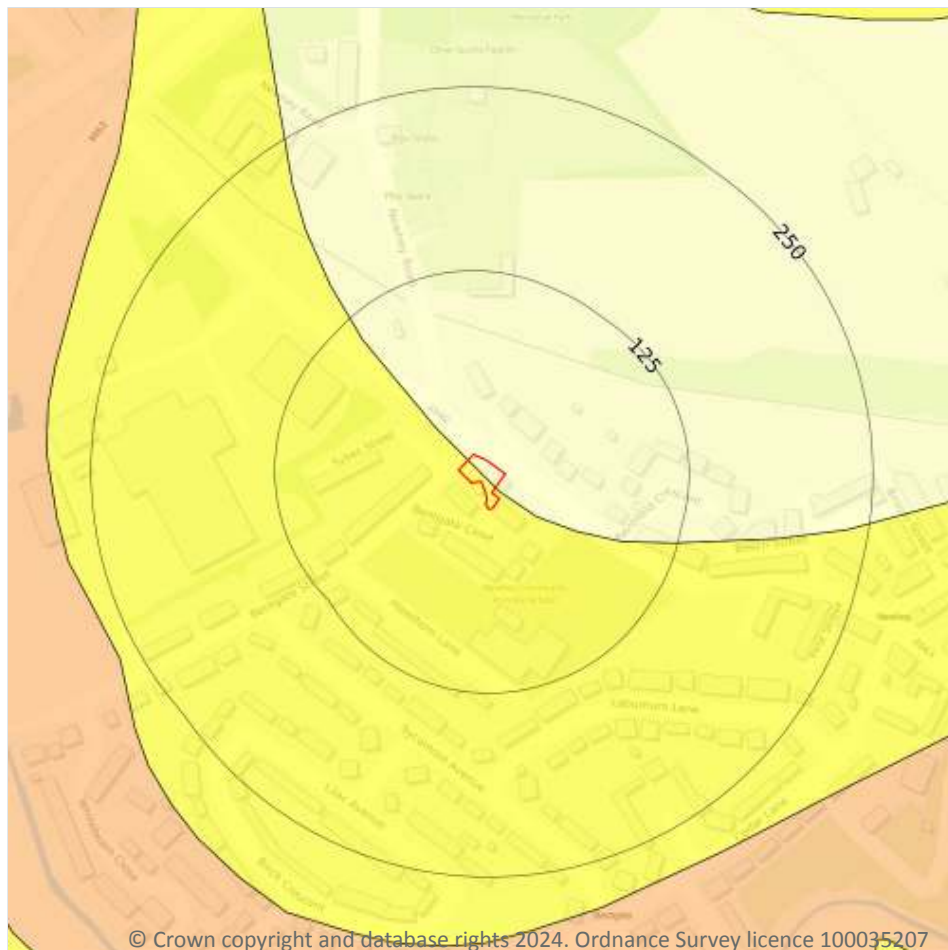
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 97 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



- 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 98](#) >

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

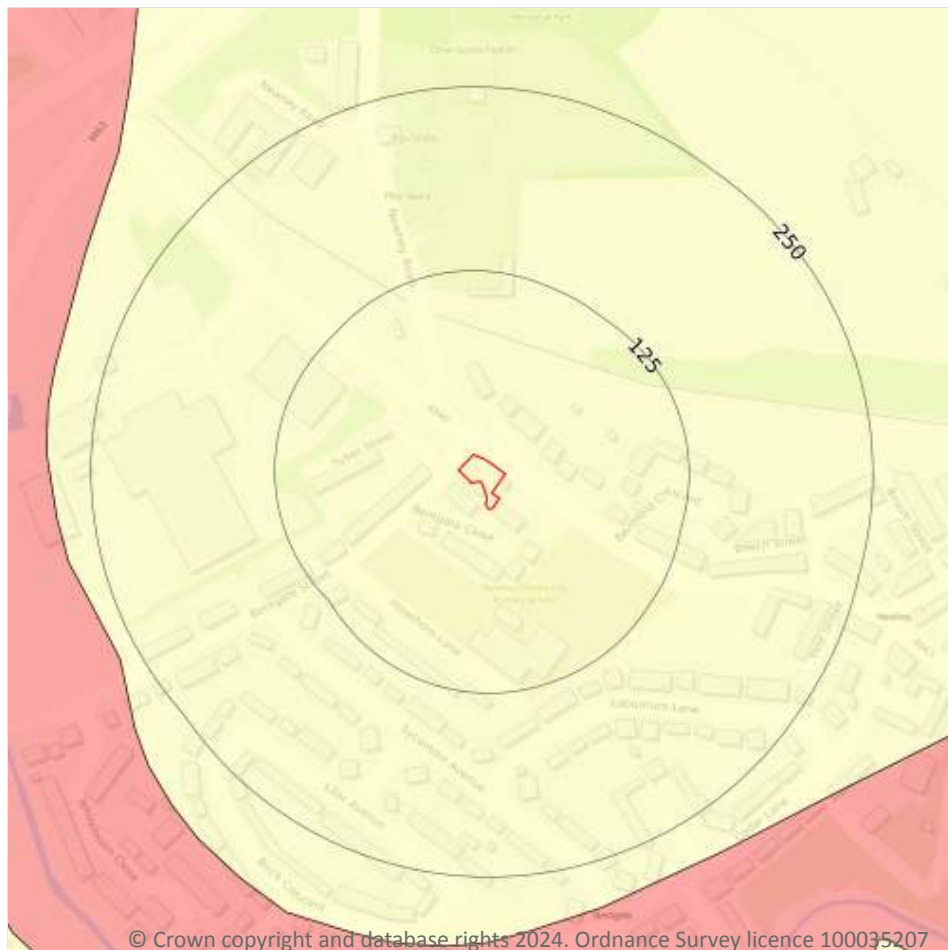


Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

1

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

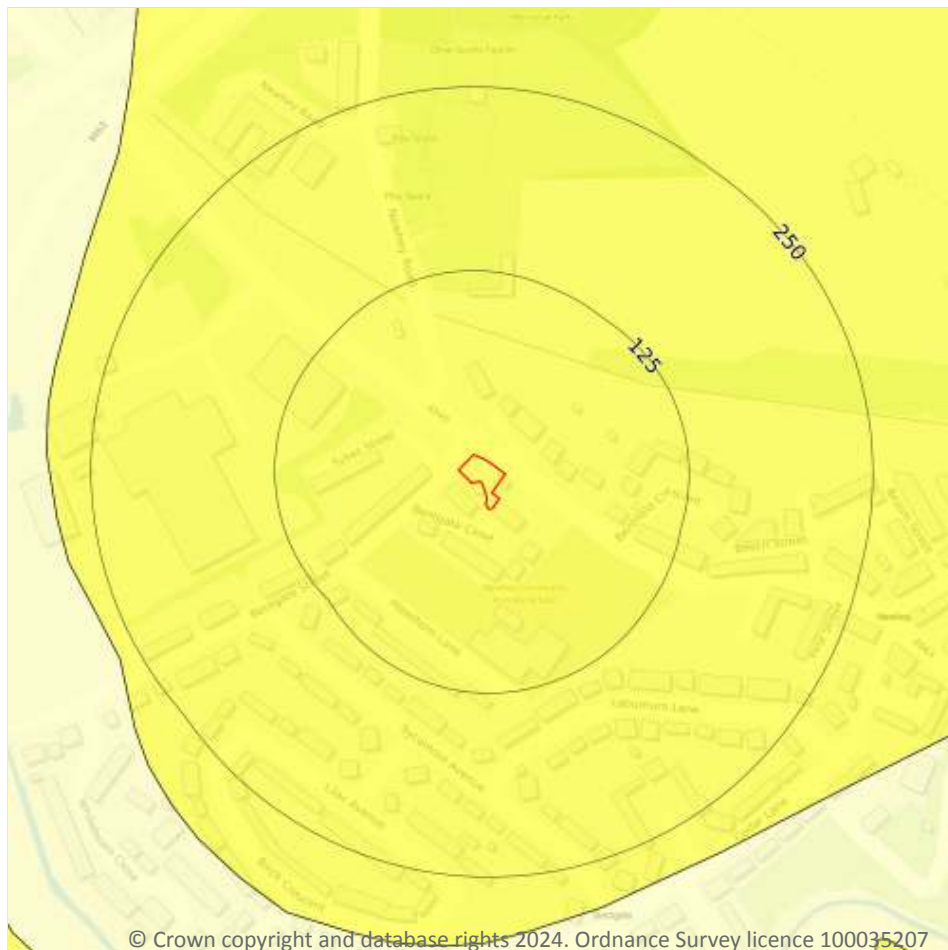
Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 100](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

1

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

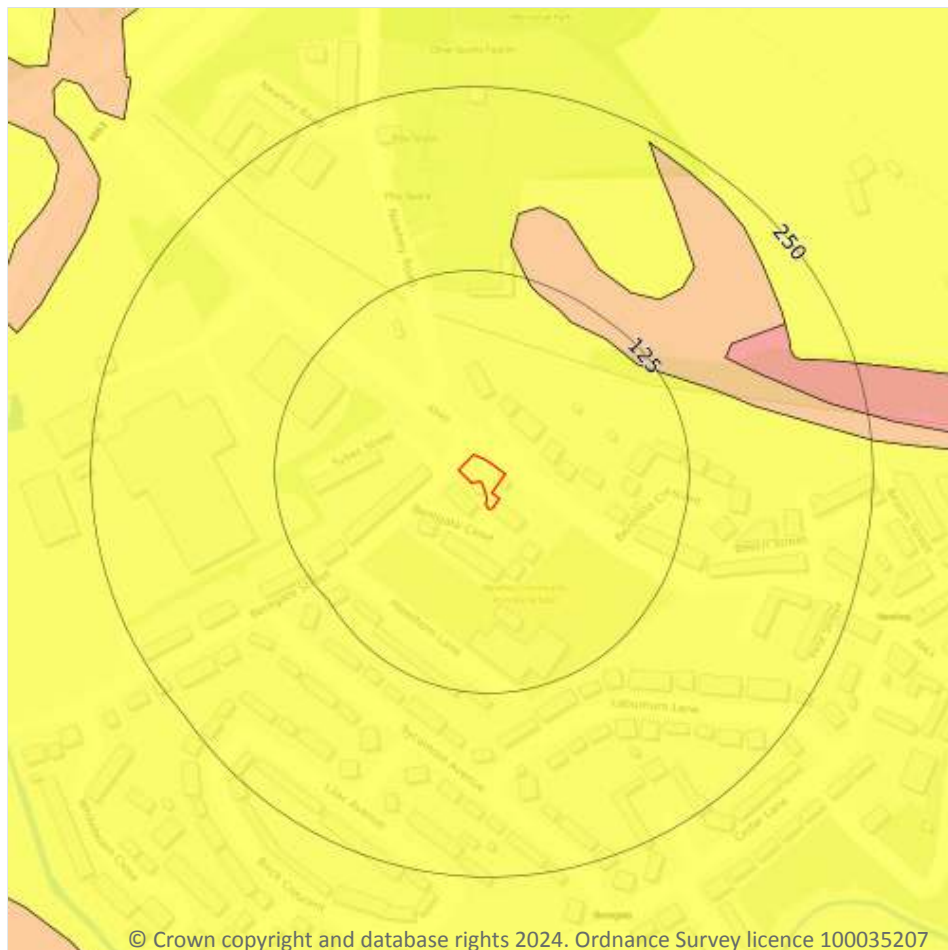
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 101 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

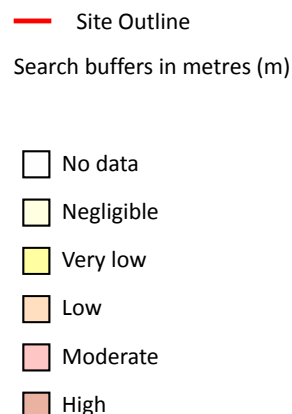
Features are displayed on the Natural ground subsidence - Landslides map on [page 102 >](#)

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



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17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

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

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

19

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

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

ID	Location	Land Use	Year of mapping	Mapping scale
A	54m NE	Cuttings	1851	1:10560
A	65m NE	Cuttings	1938	1:10560
A	65m NE	Cuttings	1928	1:10560
A	65m NE	Cuttings	1908	1:10560
A	65m NE	Cuttings	1891	1:10560
A	66m NE	Cuttings	1954	1:10560
A	75m NE	Cuttings	1976	1:10000
A	75m NE	Cuttings	1967	1:10560
B	134m NW	Cuttings	1851	1:10560
C	137m W	Unspecified Heaps	1938	1:10560
C	137m W	Unspecified Heap	1928	1:10560
C	139m W	Unspecified Heap	1954	1:10560
B	147m NW	Cuttings	1938	1:10560
B	147m NW	Cuttings	1928	1:10560
B	147m NW	Cuttings	1908	1:10560
B	151m NW	Cuttings	1954	1:10560
C	164m W	Unspecified Heap	1954	1:10560
C	172m W	Unspecified Heap	1928	1:10560
C	194m W	Unspecified Heap	1954	1:10560

This data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m**6**

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 105 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
-	706m N	Colliery	1891	1:10560
-	716m N	Colliery	1938	1:10560
-	716m N	Colliery	1928	1:10560
-	716m N	Colliery	1908	1:10560
-	722m N	Disused Colliery	1954	1:10560
-	832m NE	Tunnel	1976	1:10000

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m**0**

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m**1**

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

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

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
J	488m E	Bradley Top	Clay, shale	Surface mineral working	Valid	18/6/42

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m**0**

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m**0**

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site**1**

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site**0**

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

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



18.14 Gypsum areas

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

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

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

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



This data is sourced from Groundsure.

19.5 National karst database

Records within 500m

0

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

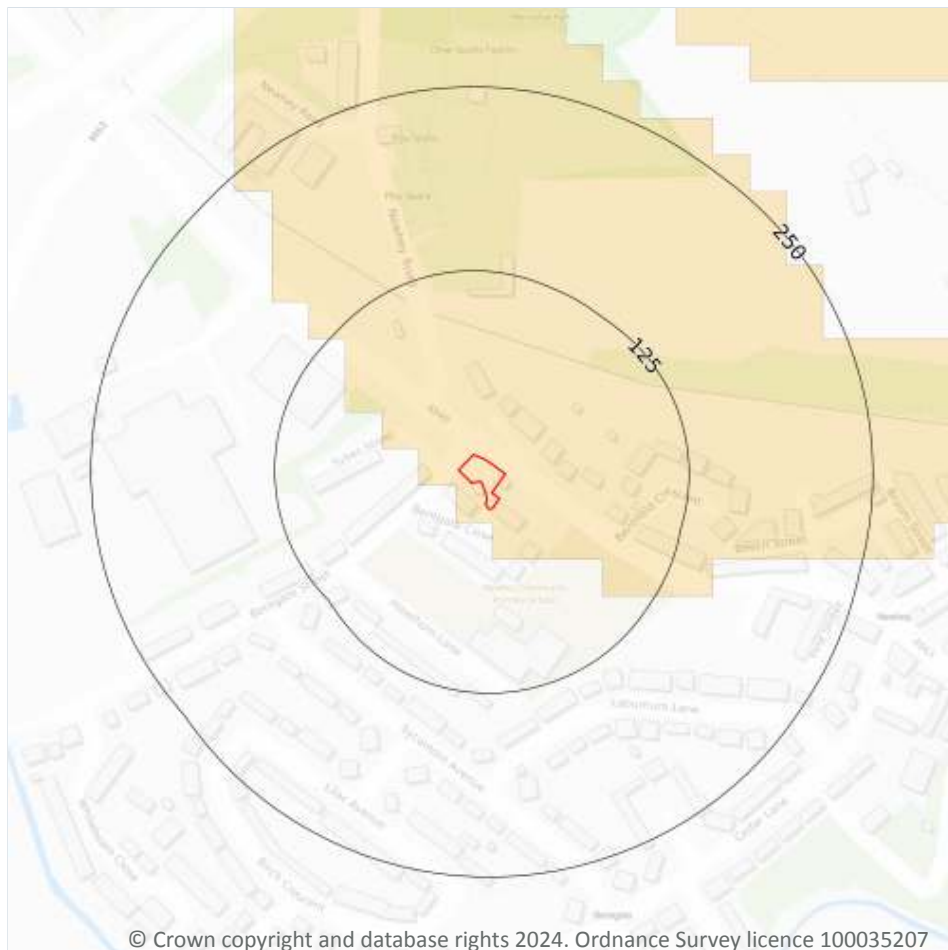
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

This data is sourced from the British Geological Survey.



20 Radon



- Site Outline**
- Search buffers in metres (m)**
- Greater than 30%
 - Between 10% and 30%
 - Between 5% and 10%
 - Between 3% and 5%
 - Between 1% and 3%
 - Less than 1%

20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 113](#) >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 3% and 5%	Basic



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

2

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	25 - 35 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
4m S	25 - 35 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	1.8 - 2.2 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)**
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- 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

2

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 116 >](#)

Location	Land Use	Year of mapping	Mapping scale
179m NW	Railway Sidings	1976	1250
179m NW	Railway Sidings	1954	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 116 >](#)

Location	Name	Type
75m N	Metrolink	light_rail
79m N	Metrolink	light_rail
82m N	Not given	Multi Track
114m NW	Not given	Multi Track
221m NW	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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



This data is sourced from HS2 Ltd.



Data providers

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

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



COAL AUTHORITY MINING REPORT



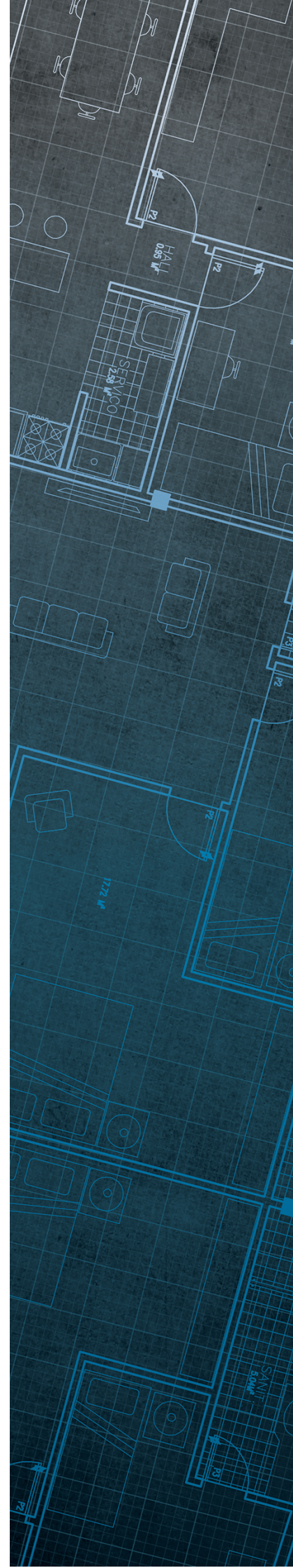
The Coal
Authority

Consultants Coal Mining Report

Bentgate House
Newhey Road
Milnrow
Rochdale
OL16 4JY

Date of enquiry:	1 November 2024
Date enquiry received:	1 November 2024
Issue date:	1 November 2024

Our reference:	51003460516001
Your reference:	8044



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

SUB SURFACE LIMITED

Enquiry address

Bentgate House
Newhey Road
Milnrow
Rochdale
OL16 4JY

How to contact us

0345 762 6848 (UK)
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200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

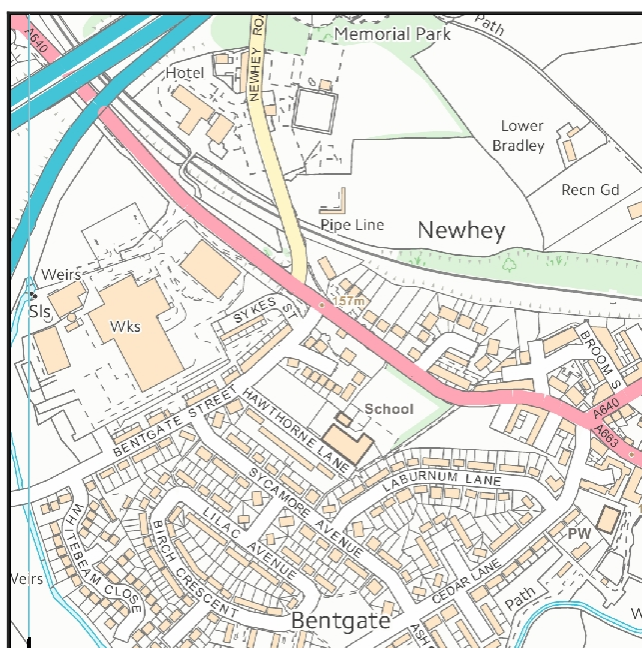
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Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	LOWER MOUNTAIN	Coal	A0DO	199	Beneath Property			60	1903
unnamed	LOWER MOUNTAIN	Coal	AODM	201	South-East			60	1900

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

None recorded within 100 metres of the enquiry boundary.

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

11022	NW1260	NW1259
-------	--------	--------

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

None recorded within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Future development

If development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before beginning work on site. All proposals should apply specialist engineering practice required for former mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or coal mines without first obtaining the permission of the Coal Authority.

MINE GAS: Please note, if there are no recorded instances of mine gas within 500m of the enquiry boundary, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded. Developers should be aware that the investigation of coal seams, mine workings or mine entries may have the potential to generate and/or displace underground gases. Associated risks both to the development site and any neighbouring land or properties should be fully considered when undertaking any ground works. The need for effective measures to prevent gases migrating onto any land or into any properties, either during investigation or remediation work, or after development must also be assessed and properly addressed. In these instances, the Coal Authority recommends that a more detailed Gas Risk Assessment is undertaken by a competent assessor.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission. Please note, if there are no recorded instances of mine gas reported, this does not mean that mine gas is not present within the vicinity. The Coal Authority Mine Gas data is limited to only those sites where a Mine Gas incident has been recorded.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices

Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land

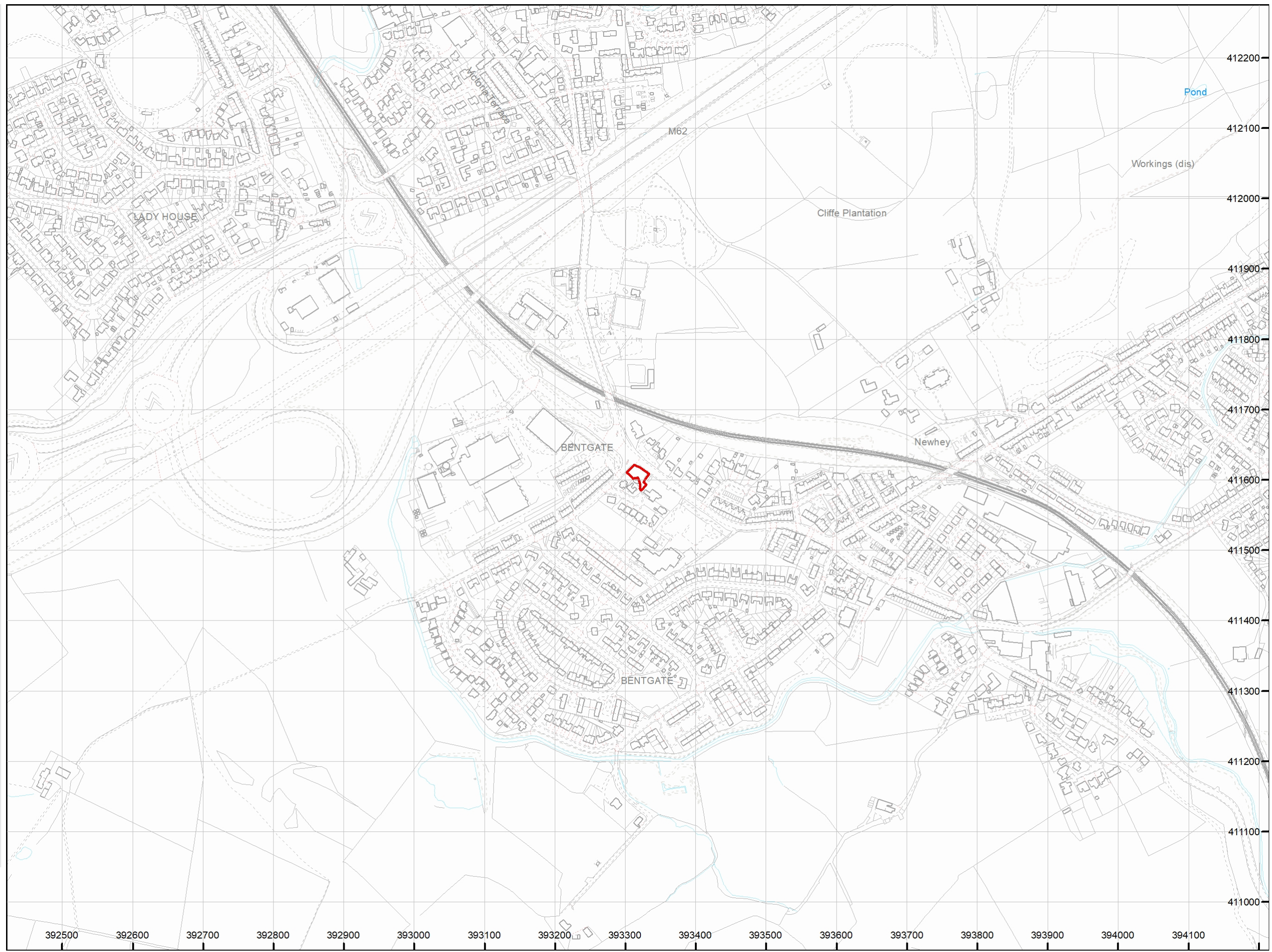
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

Approximate position of the enquiry boundary shown 

How to contact us
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www.groundstability.com



SMALL SCALE SURVEY PLANS



Site Details:

Bentgate House, Newhey Road,
Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

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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Site Details:

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Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

Map date: 1890-1892

Scale: 1:10,560

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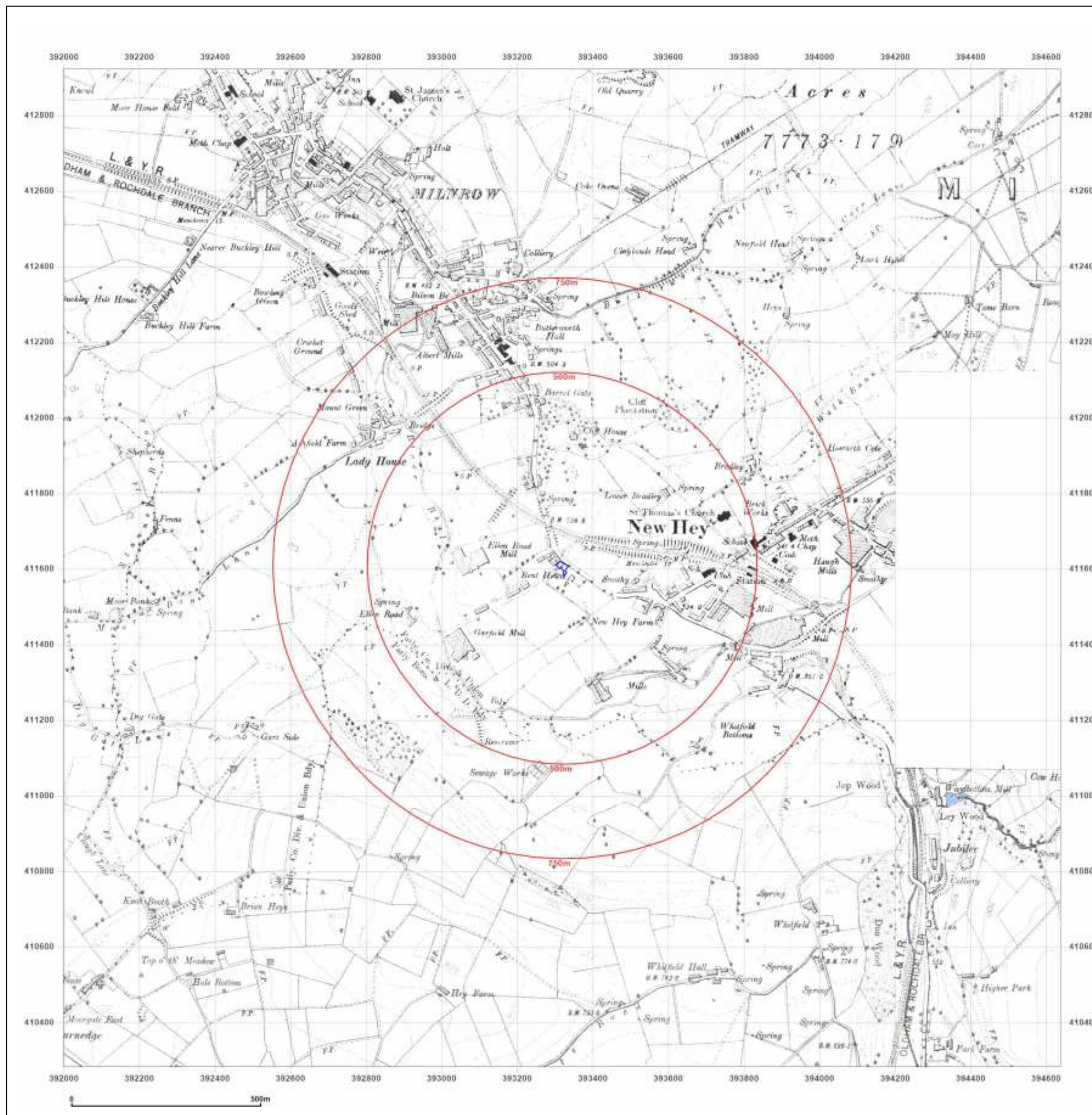


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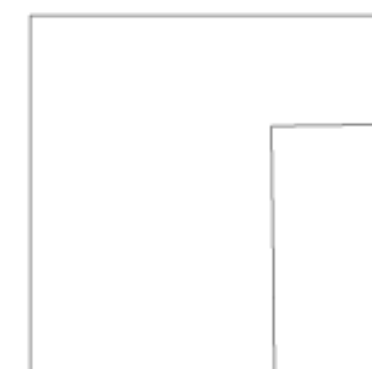
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Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

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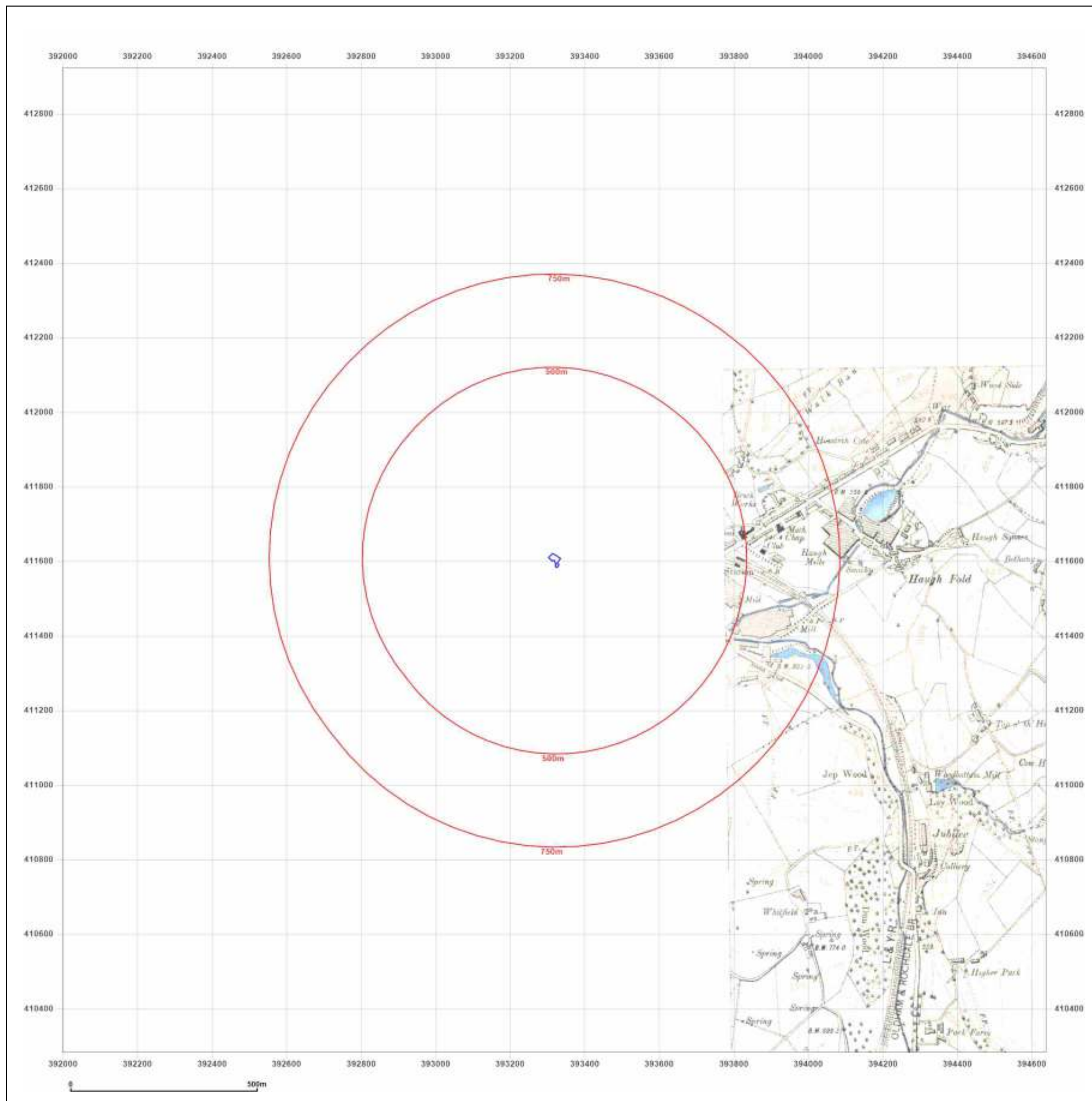


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Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

Map date: 1907-1908

Scale: 1:10,560

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Revised N/A
Edition N/A
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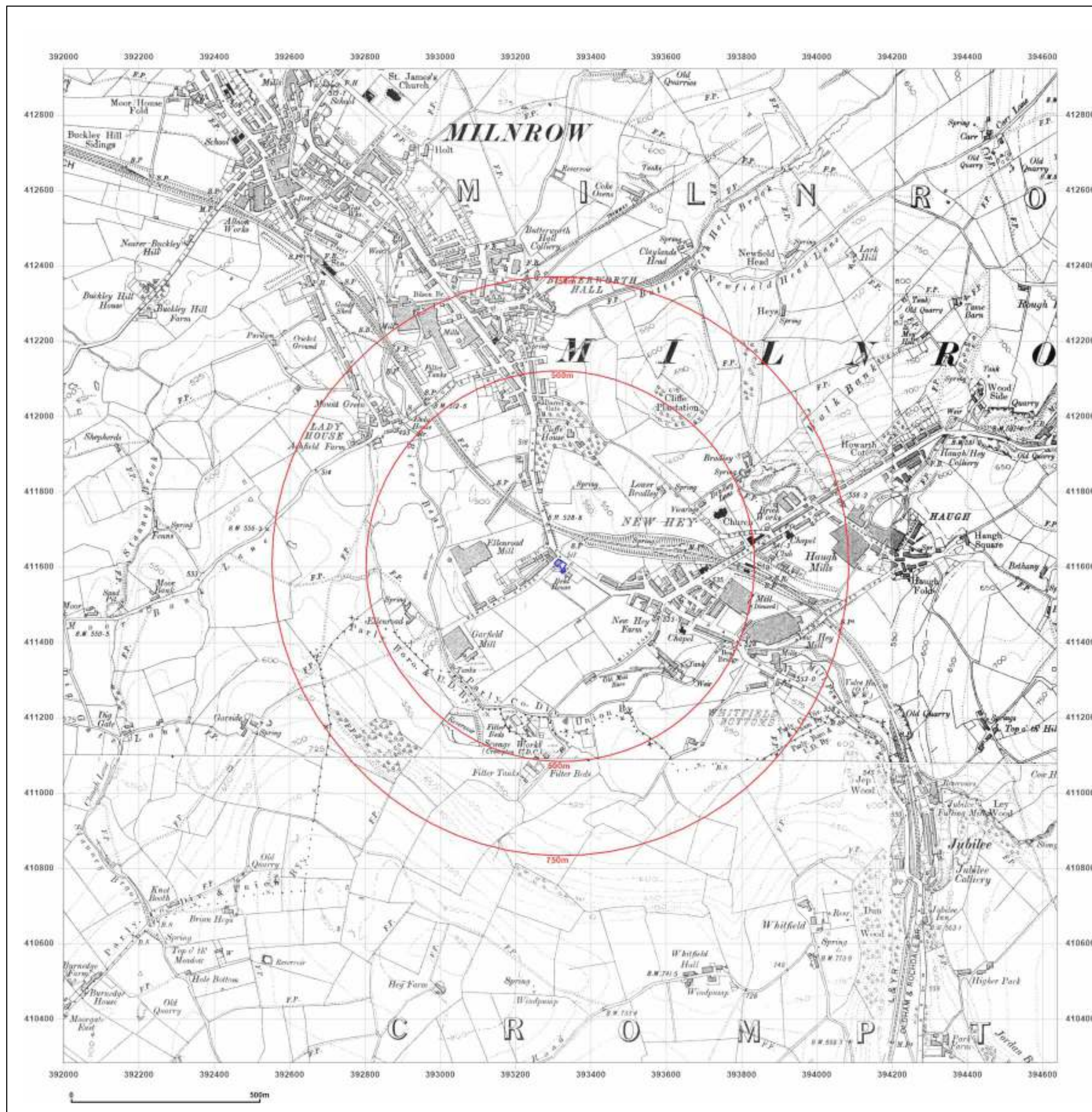


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Grid Ref: 393317, 411602

Map Name: County Series

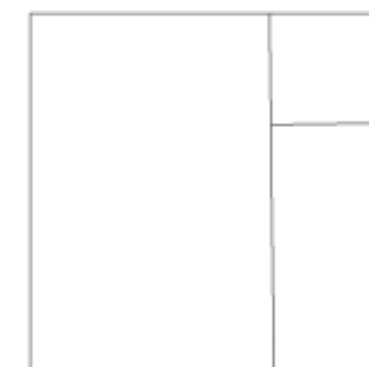
Map date: 1910

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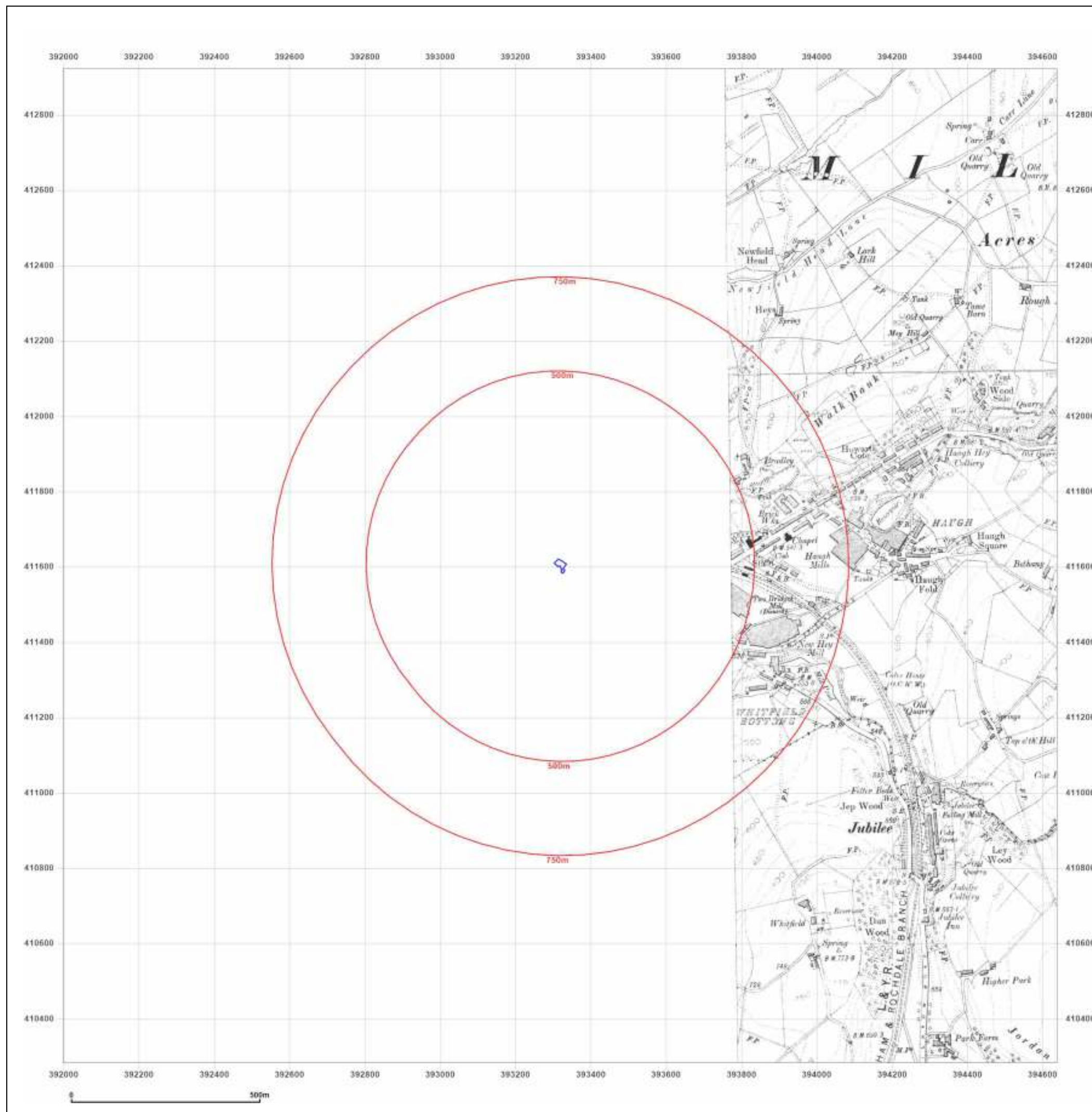


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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

Map date: 1928-1932

Scale: 1:10,560

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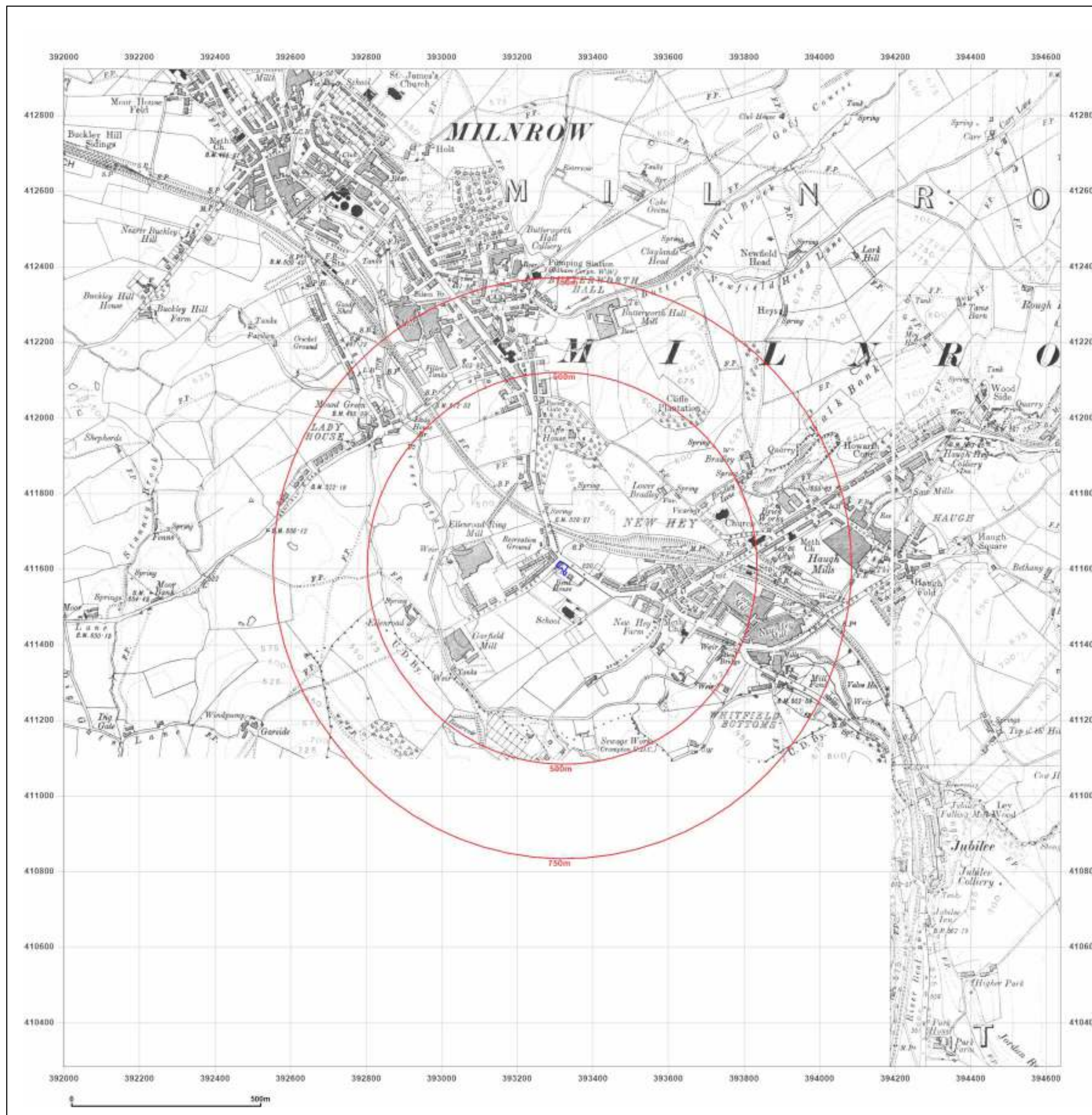


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

Map date: 1938

Scale: 1:10,560

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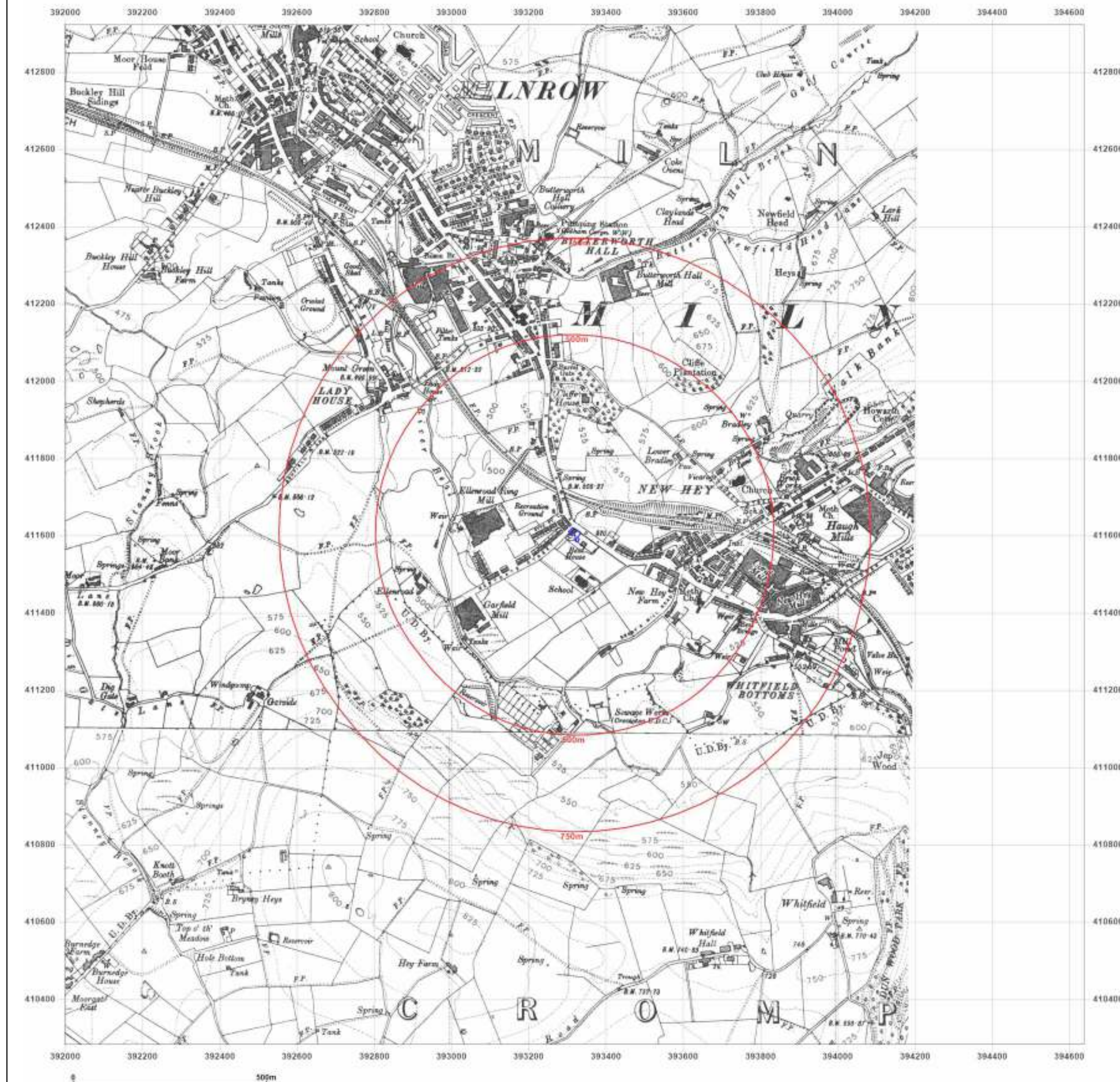


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: Provisional

Map date: 1954

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Printed at: 1:10,560



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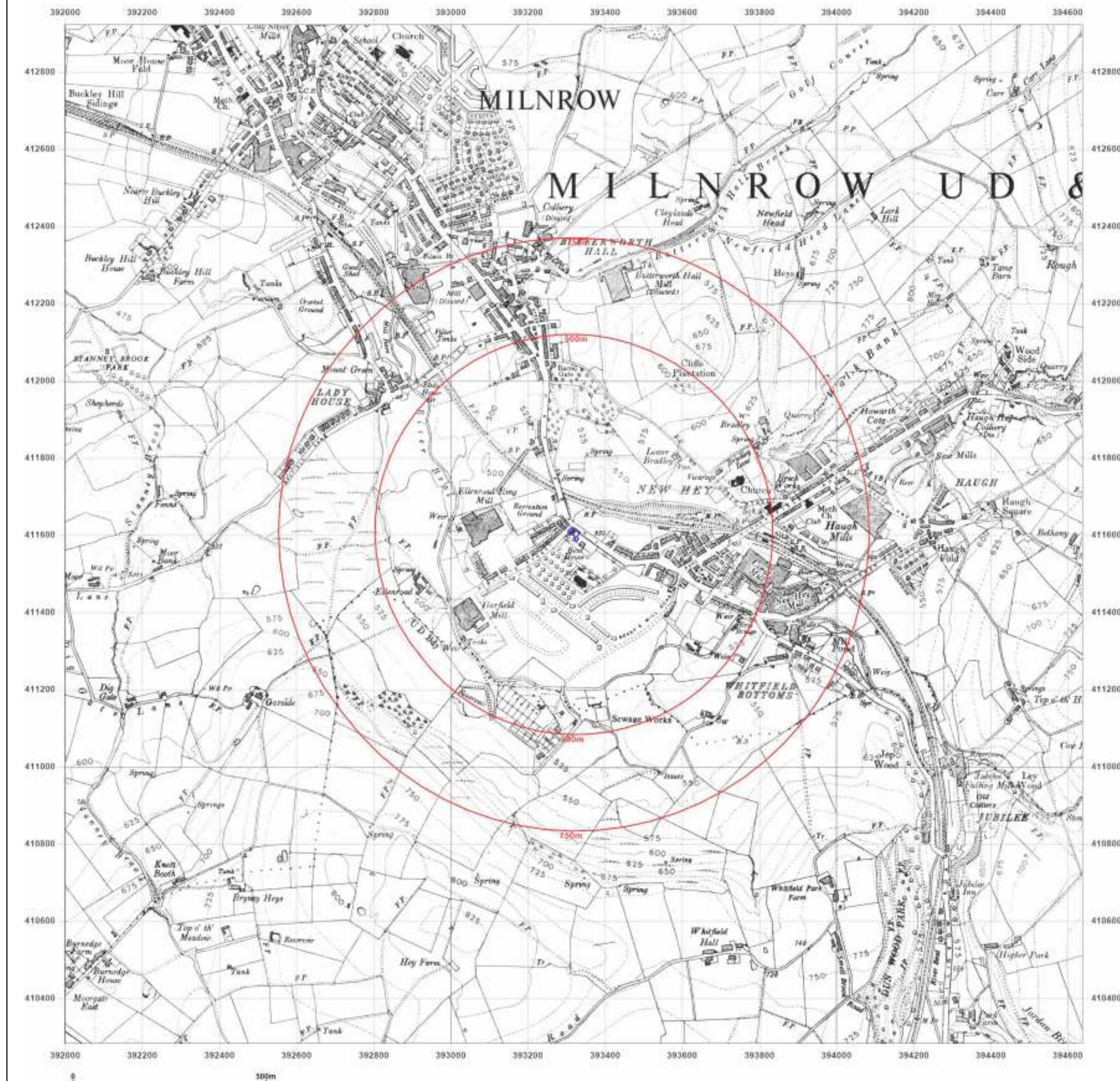


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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: Provisional

Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967
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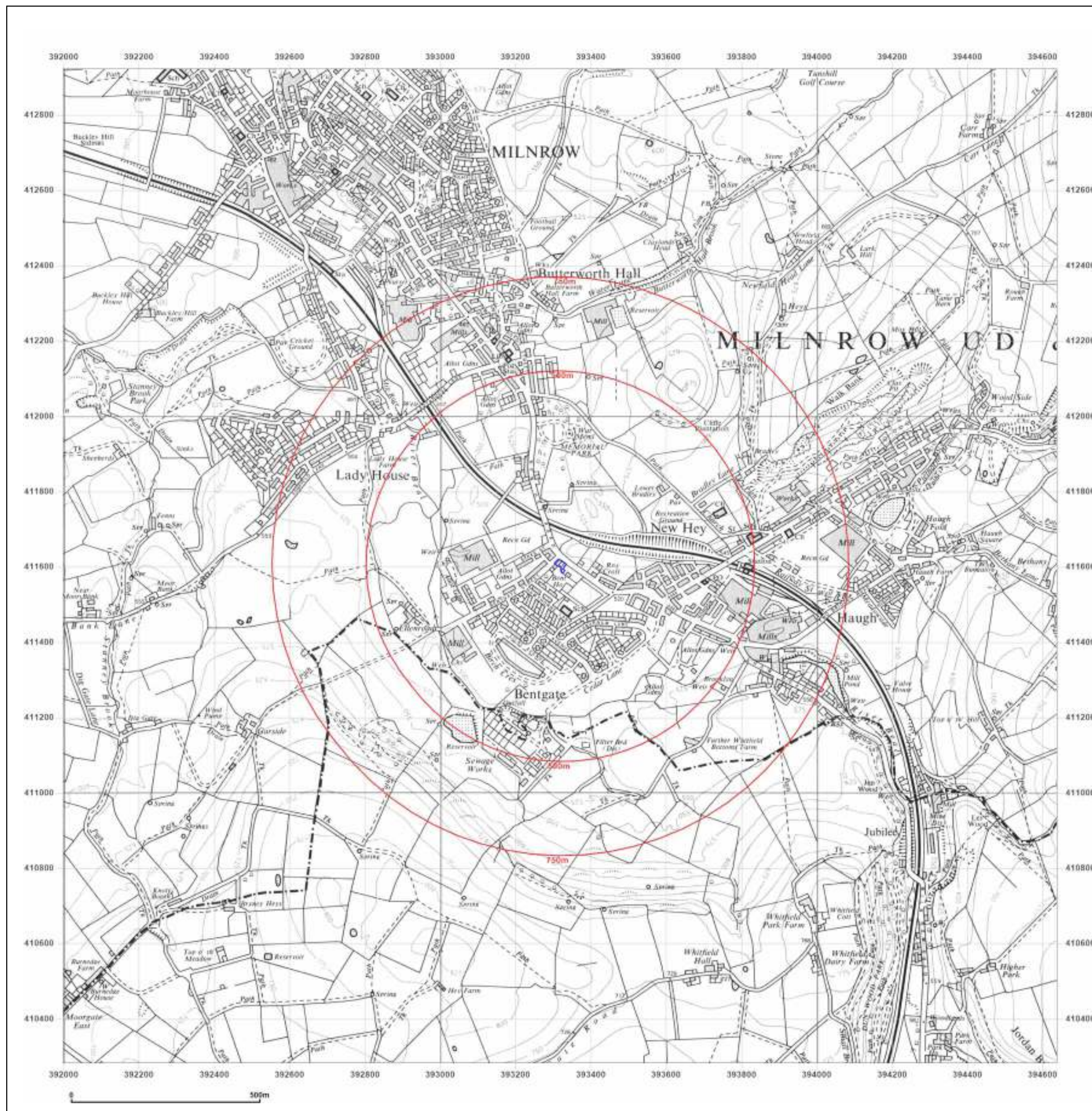


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Site Details:

Bentgate House, Newhey Road,
Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1976

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1976
Edition N/A
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Site Details:

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Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



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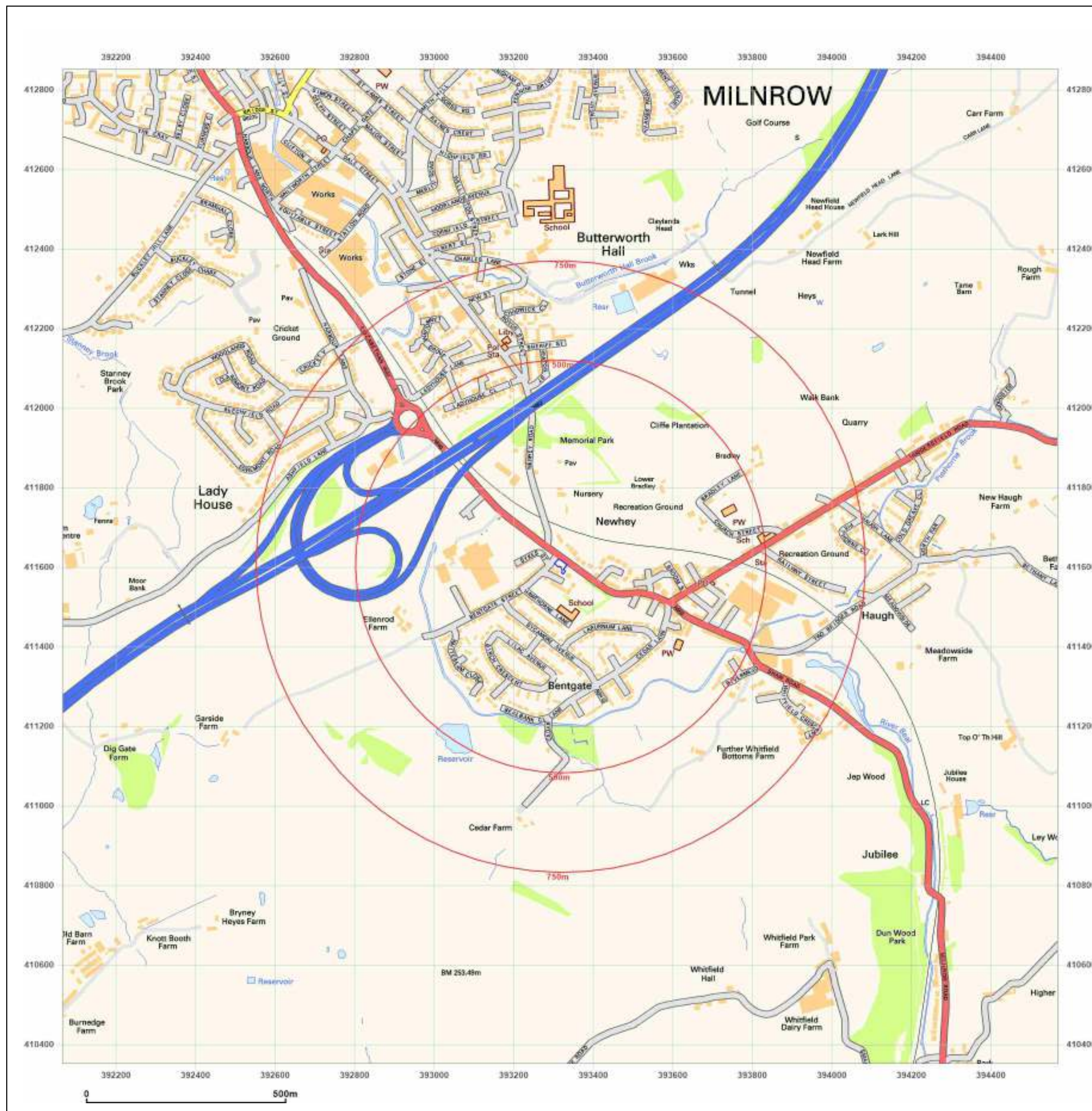


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Site Details:

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Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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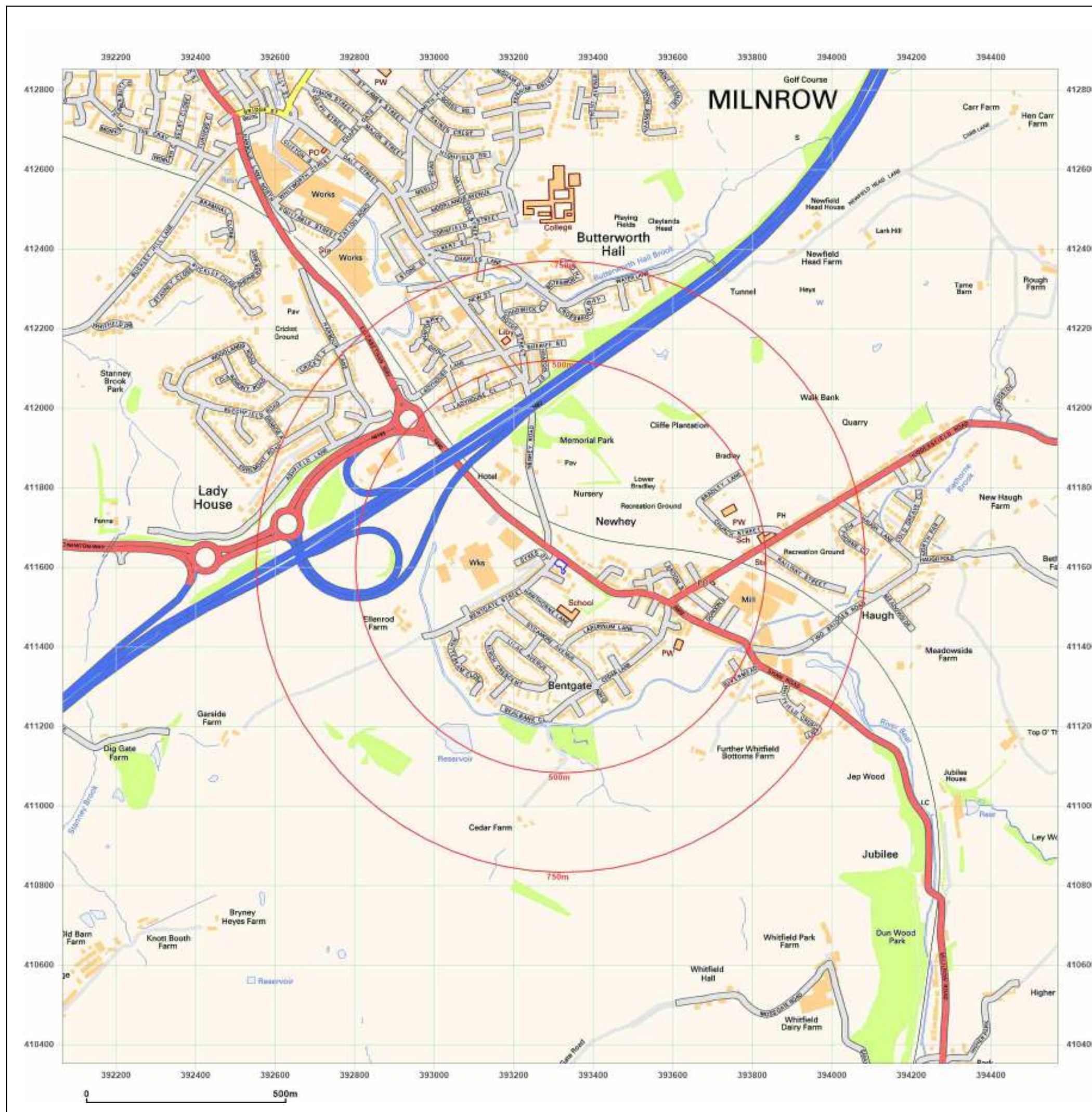


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Site Details:

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Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 2024

Scale: 1:10,000

Printed at: 1:10,000



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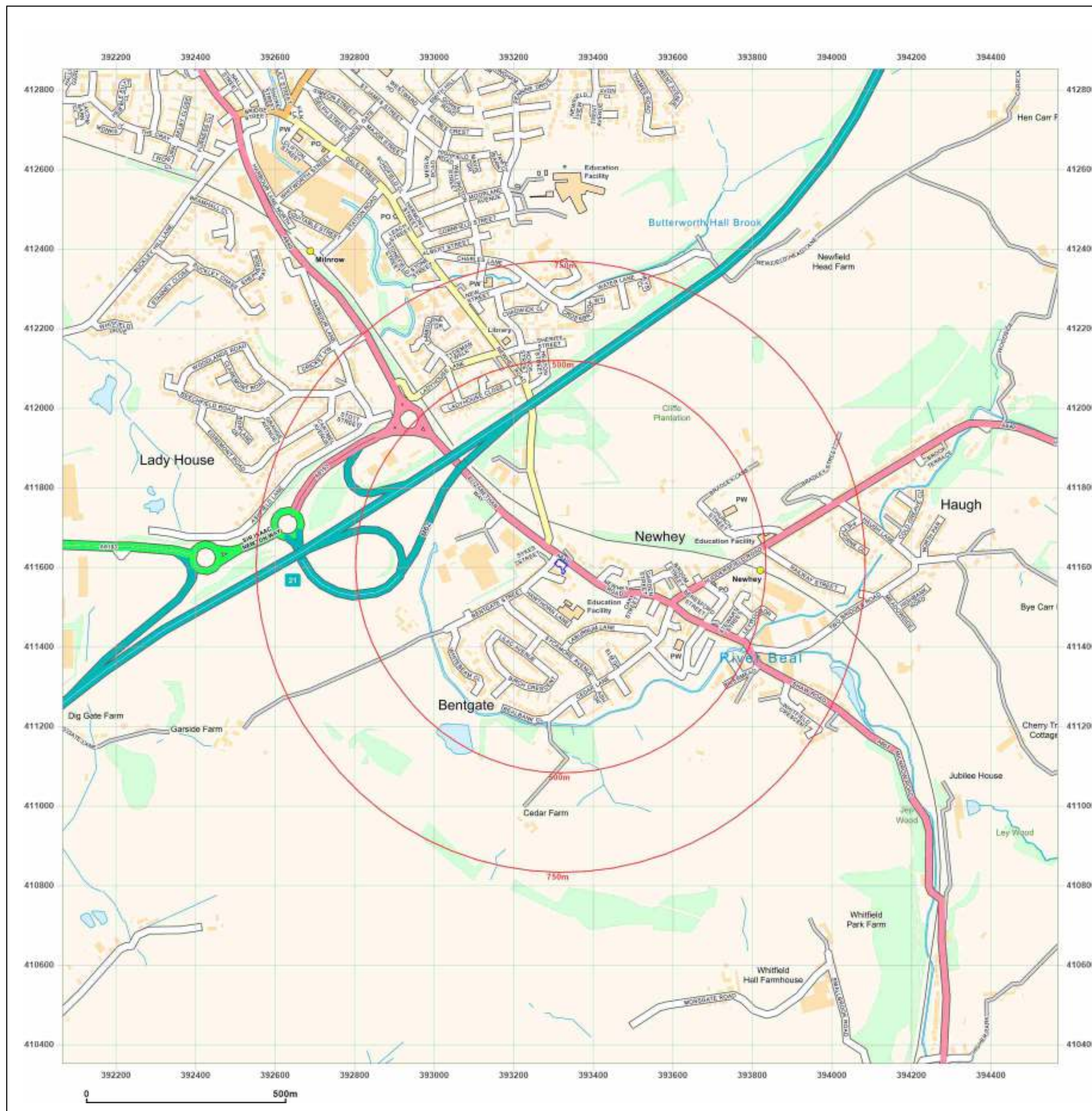


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LARGE SCALE SURVEY PLANS

Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

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



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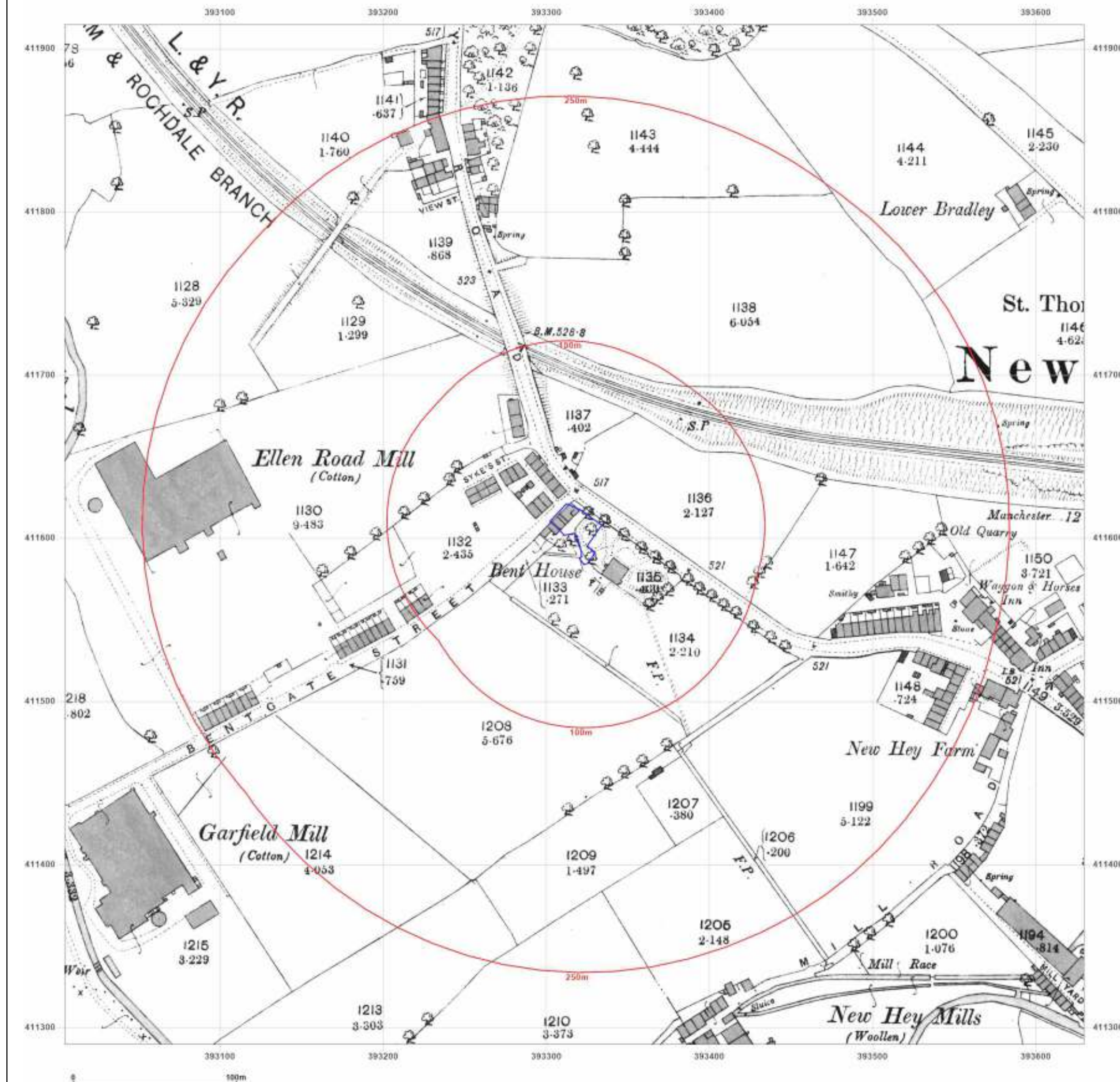


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

Map date: 1910

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1910
Revised 1910
Edition N/A
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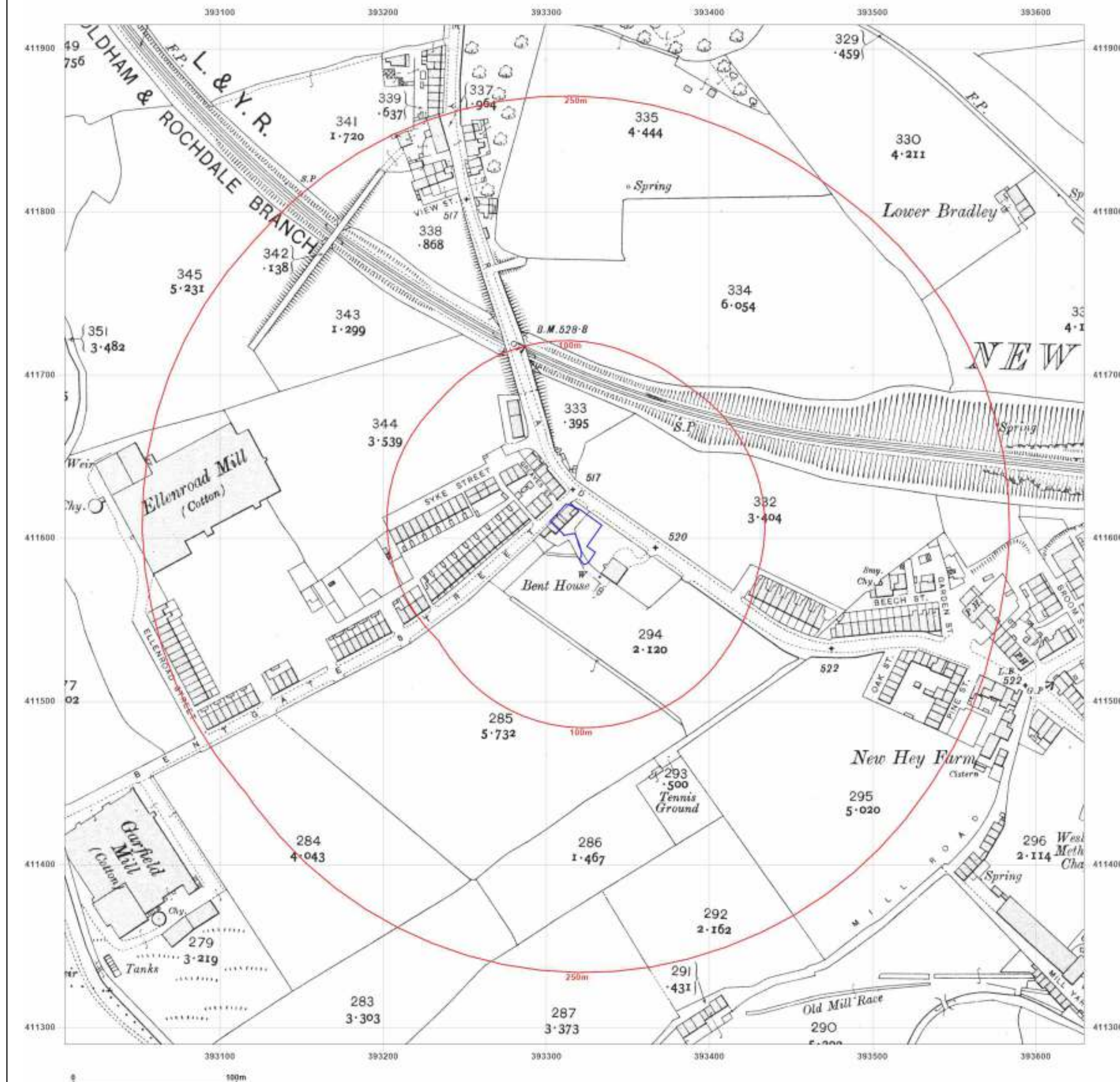


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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1930
Edition N/A
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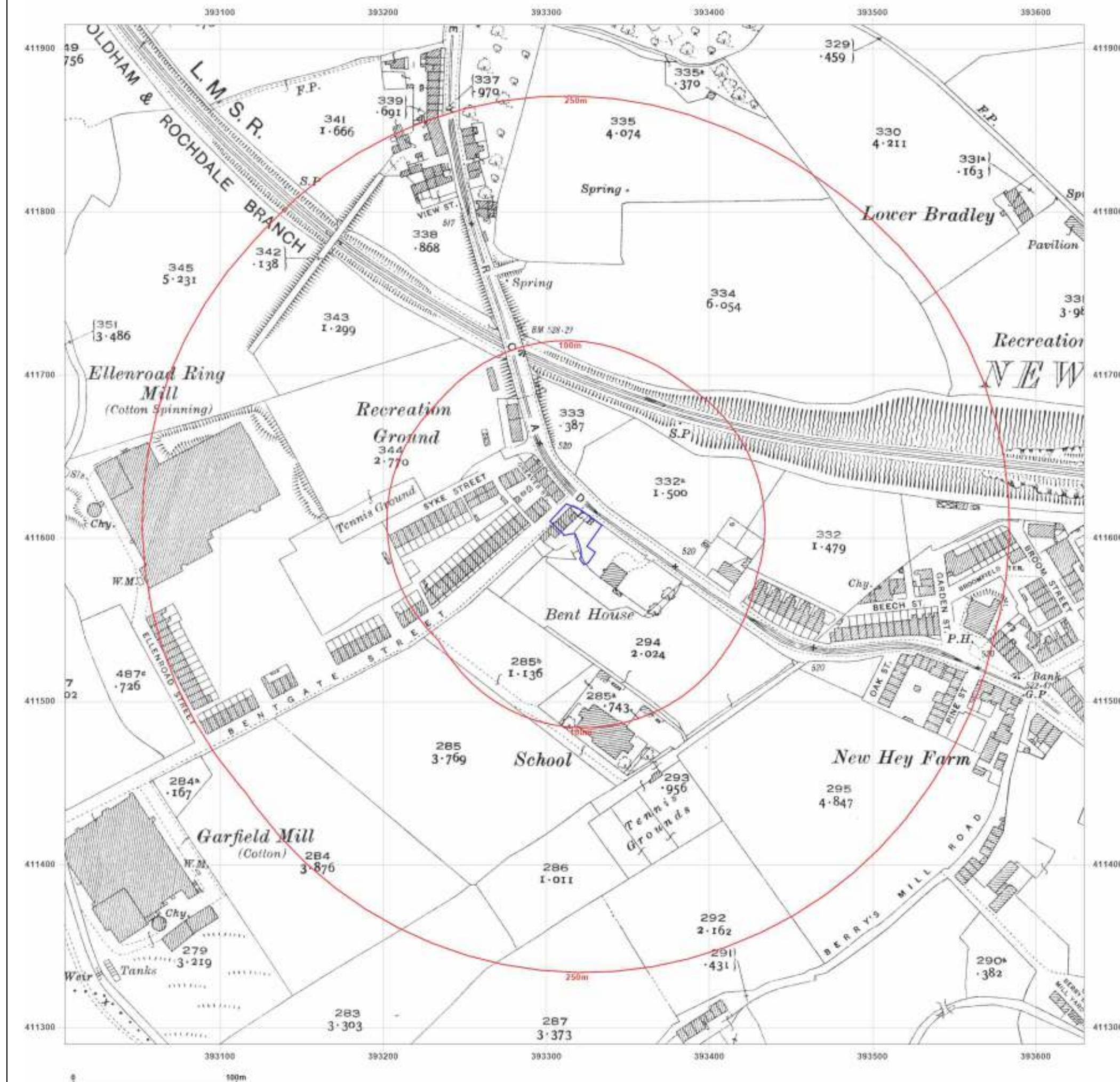


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1954

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1954 Revised 1954 Edition N/A Copyright N/A Levelled 1928	Surveyed 1954 Revised 1954 Edition N/A Copyright N/A Levelled 1928



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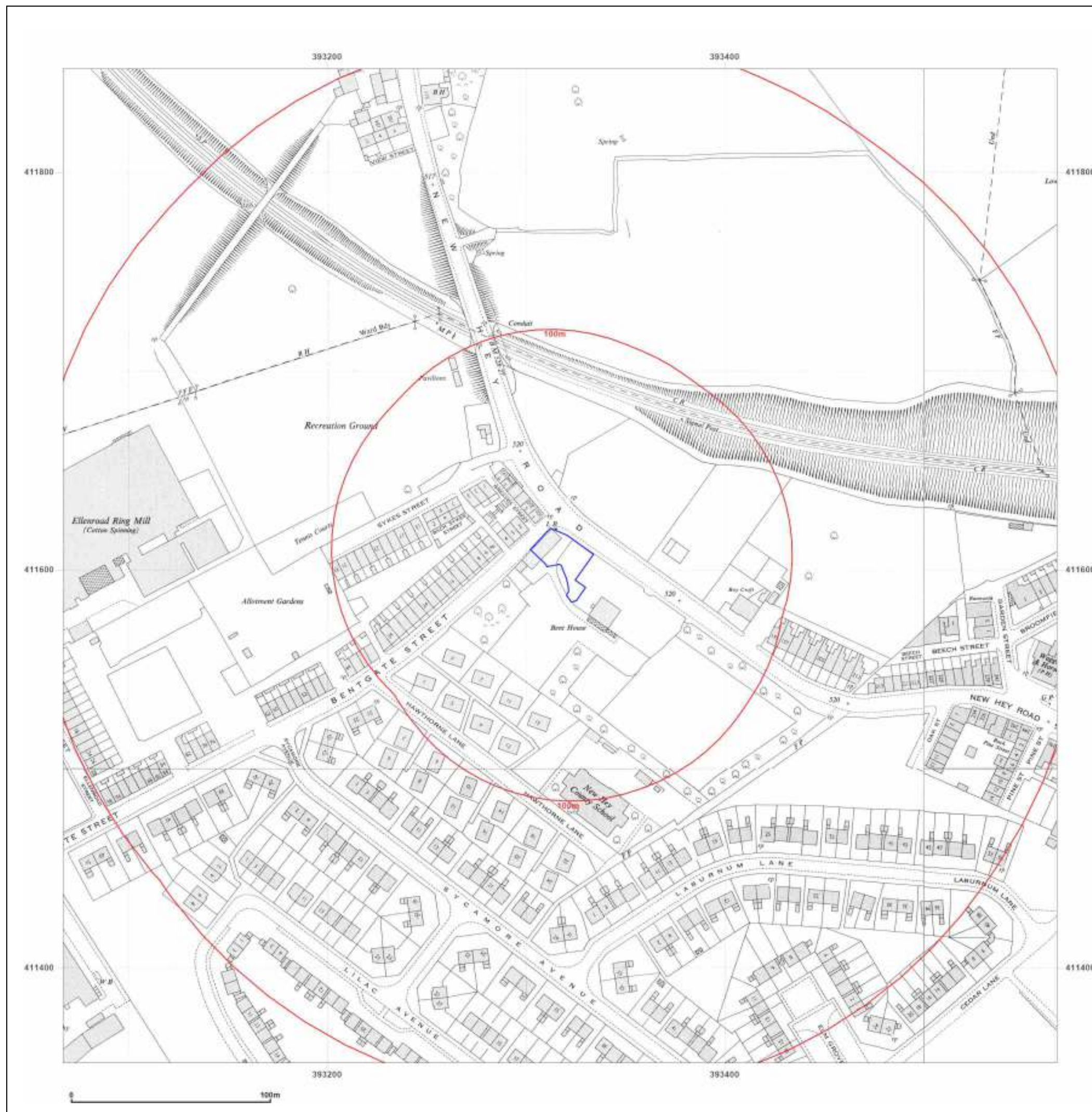


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Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1955

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1954 Revised N/A Edition N/A Copyright 1955 Levelled 1928	Surveyed 1954 Revised N/A Edition N/A Copyright 1955 Levelled 1928



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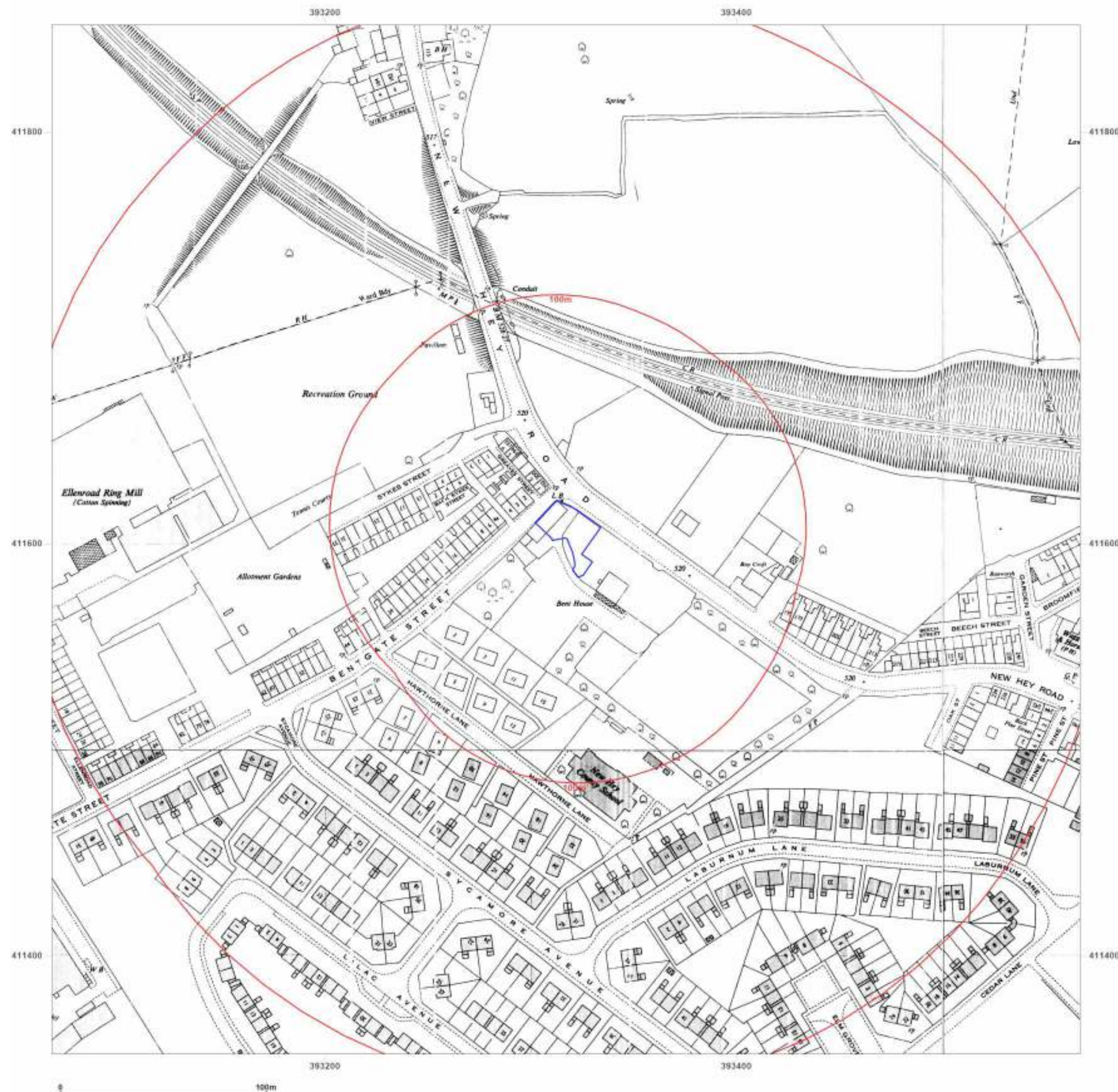


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Site Details:

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Milnrow, OL16 4JY

Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1955

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1954
Revised 1954
Edition 1955
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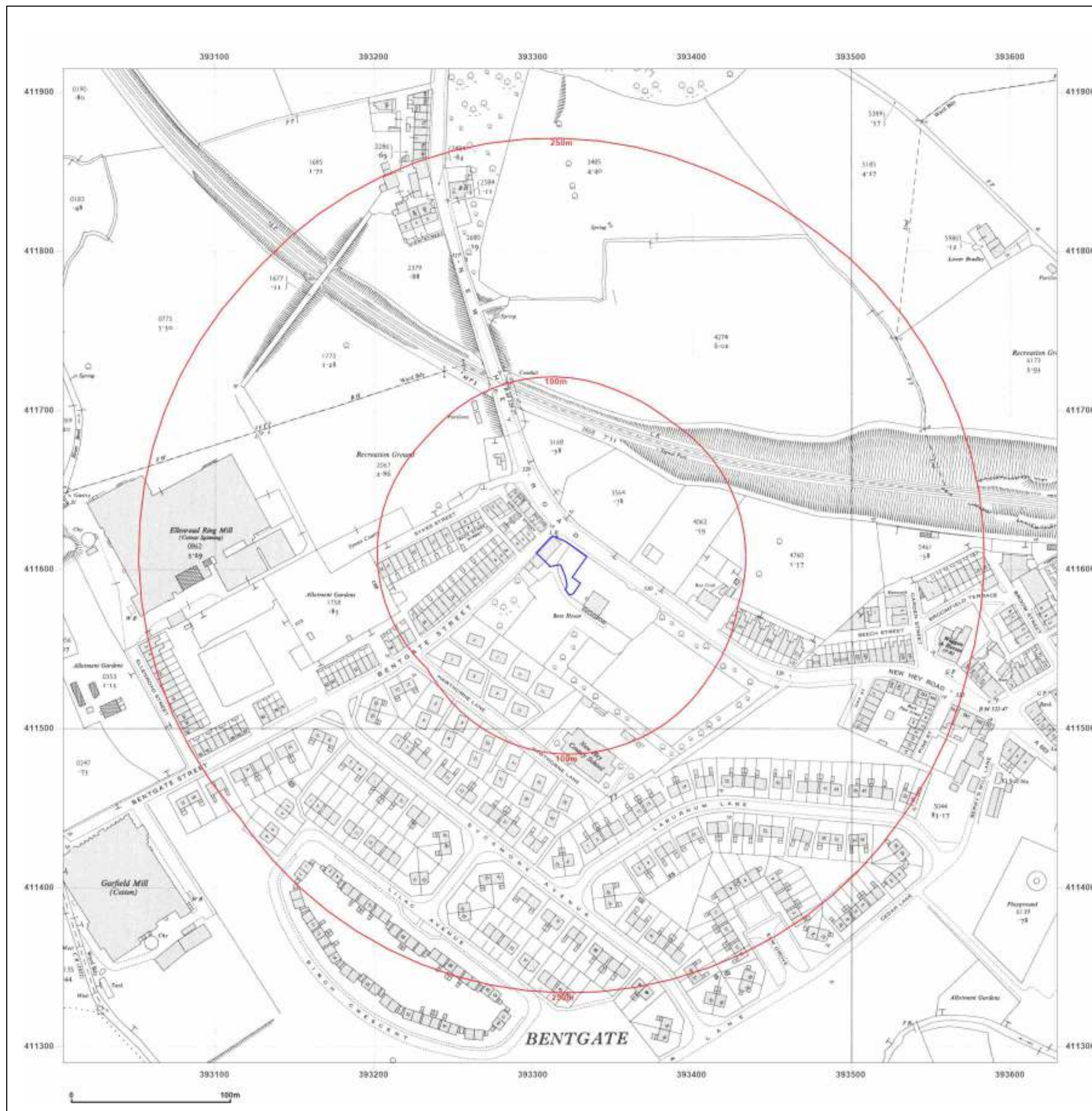


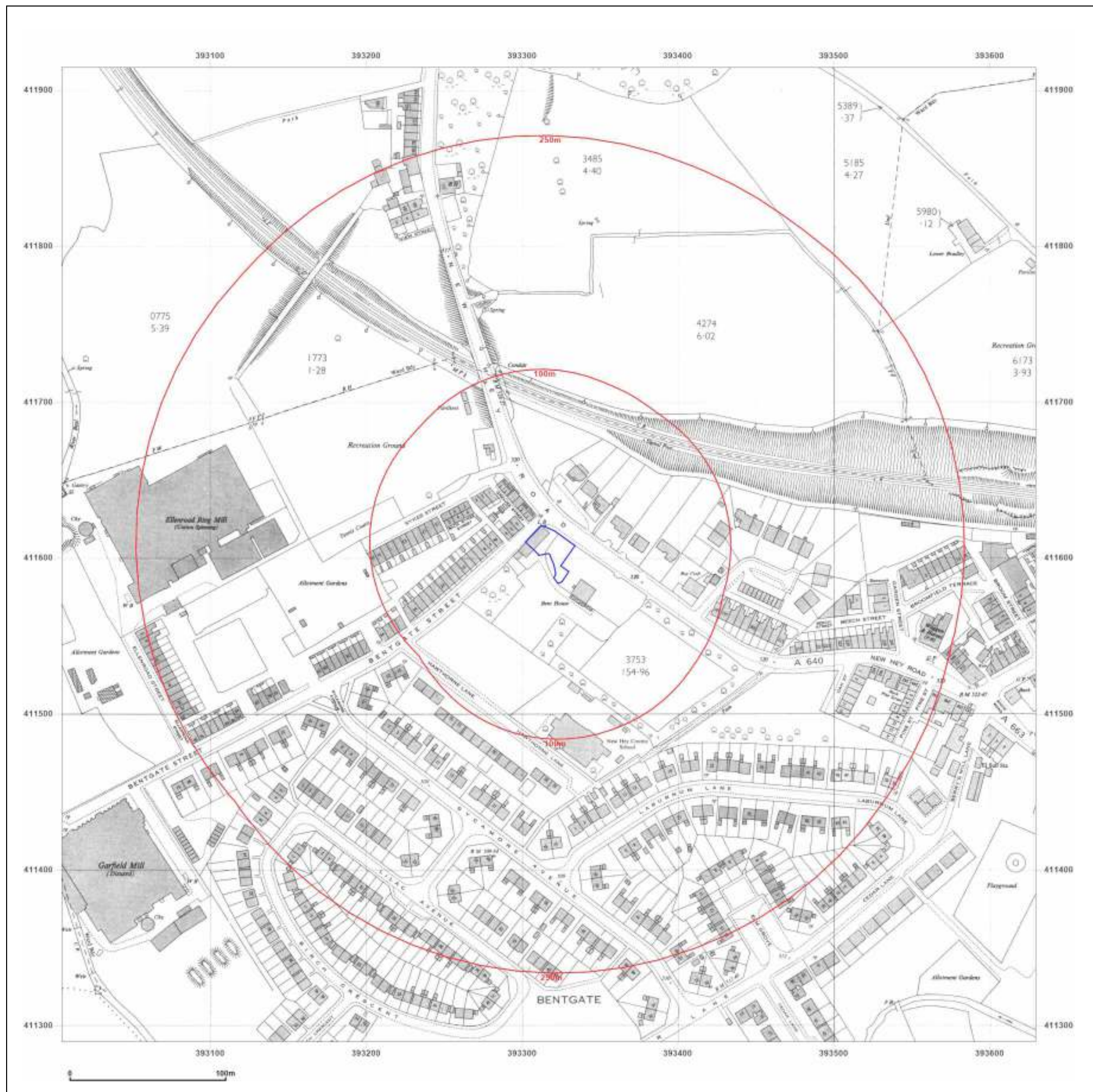
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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid
Map date: 1968
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1966
Revised 1966
Edition N/A
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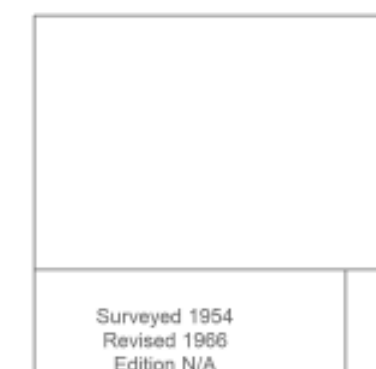
Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1967-1971

Scale: 1:1,250

Printed at: 1:2,000



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Revised 1966
Edition N/A
Copyright 1967
Levelled 1962

Surveyed 1954
Revised 1970
Edition N/A
Copyright 1971
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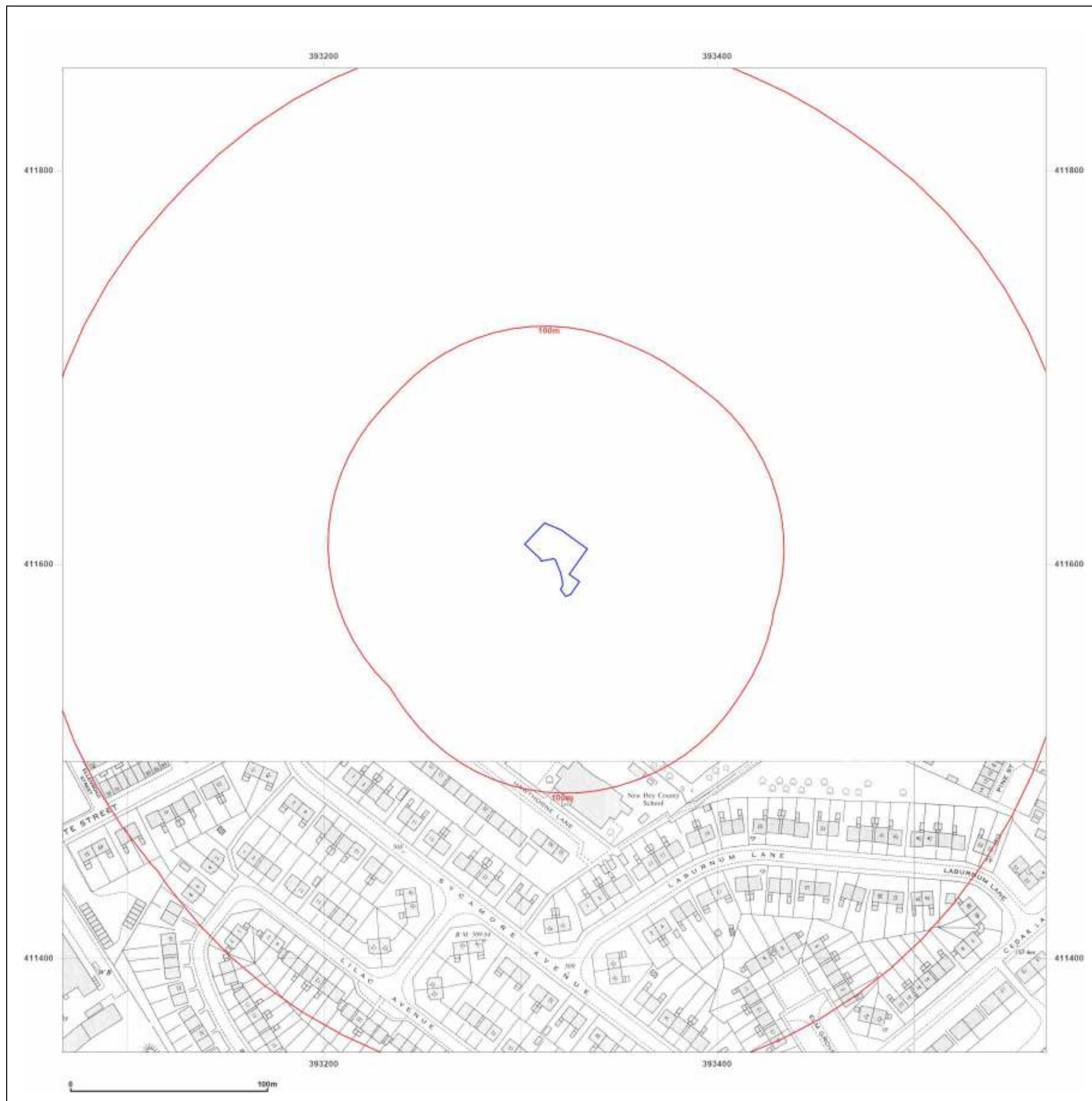


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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1974-1975

Scale: 1:1,250

Printed at: 1:2,000



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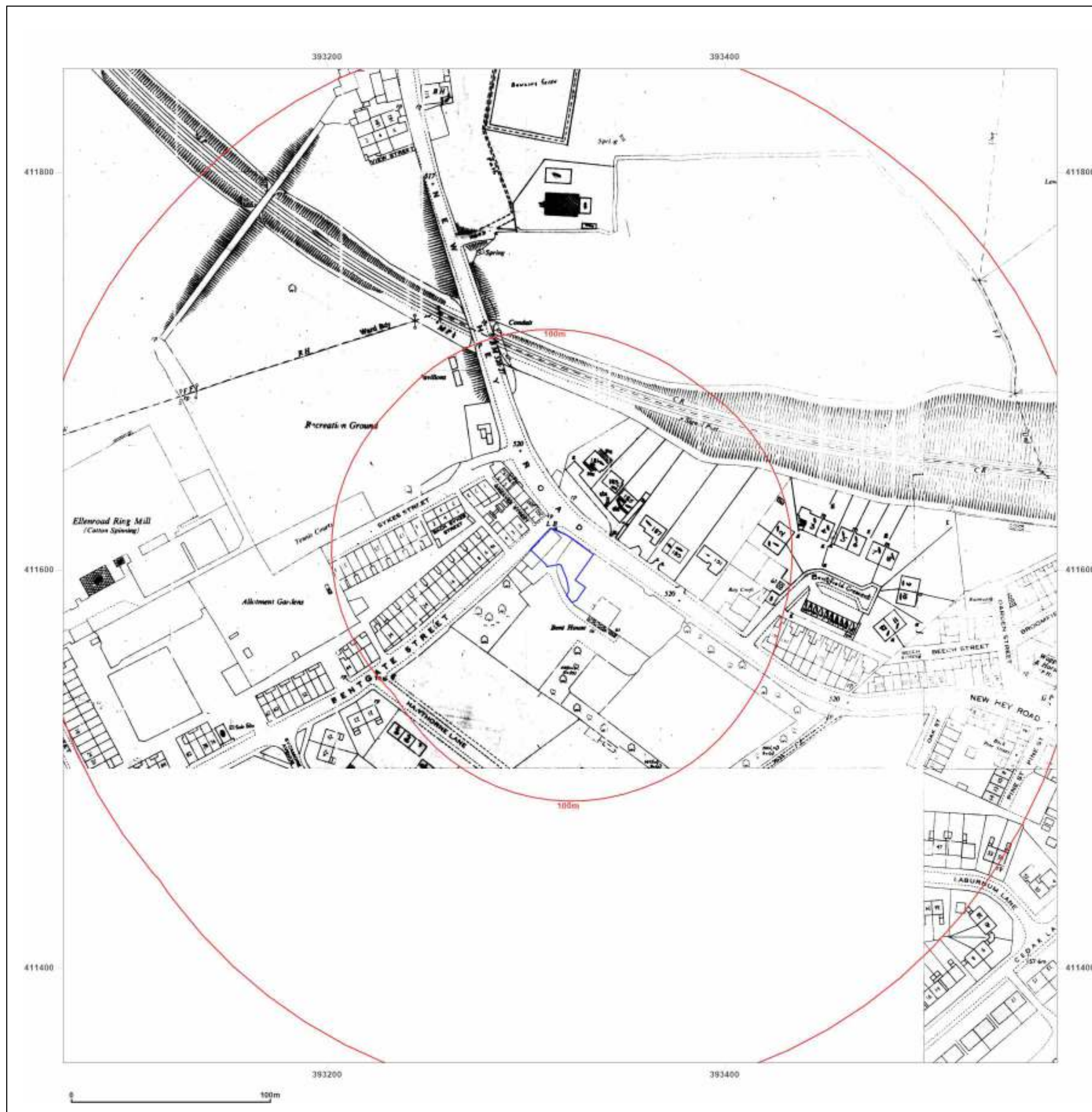


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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1976

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1954
Revised 1975
Edition N/A
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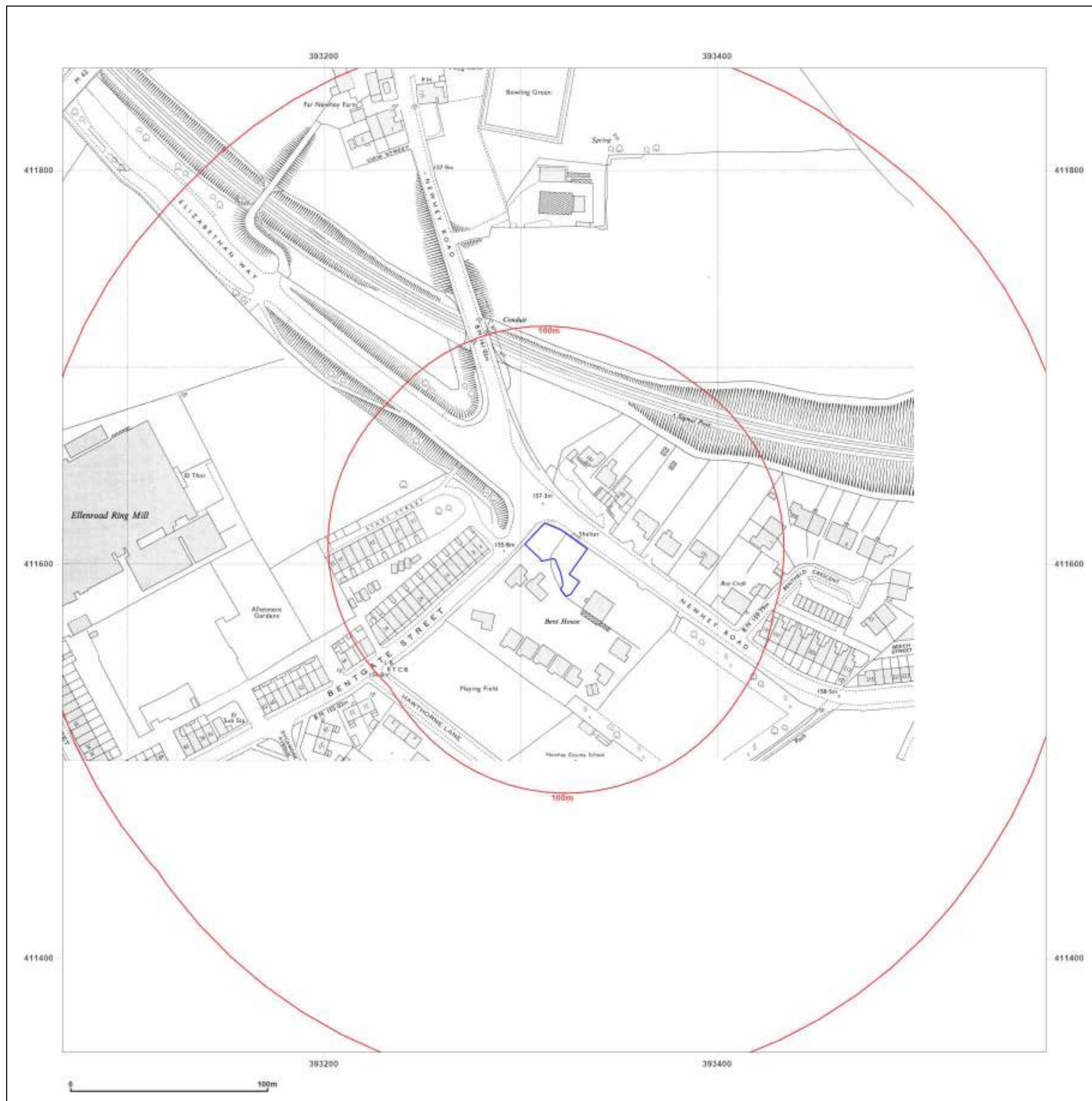


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1984-1988

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed N/A Revised N/A Edition N/A Copyright 1984 Levelled 1962	Surveyed 1962 Revised 1988 Edition N/A Copyright 1988 Levelled 1962



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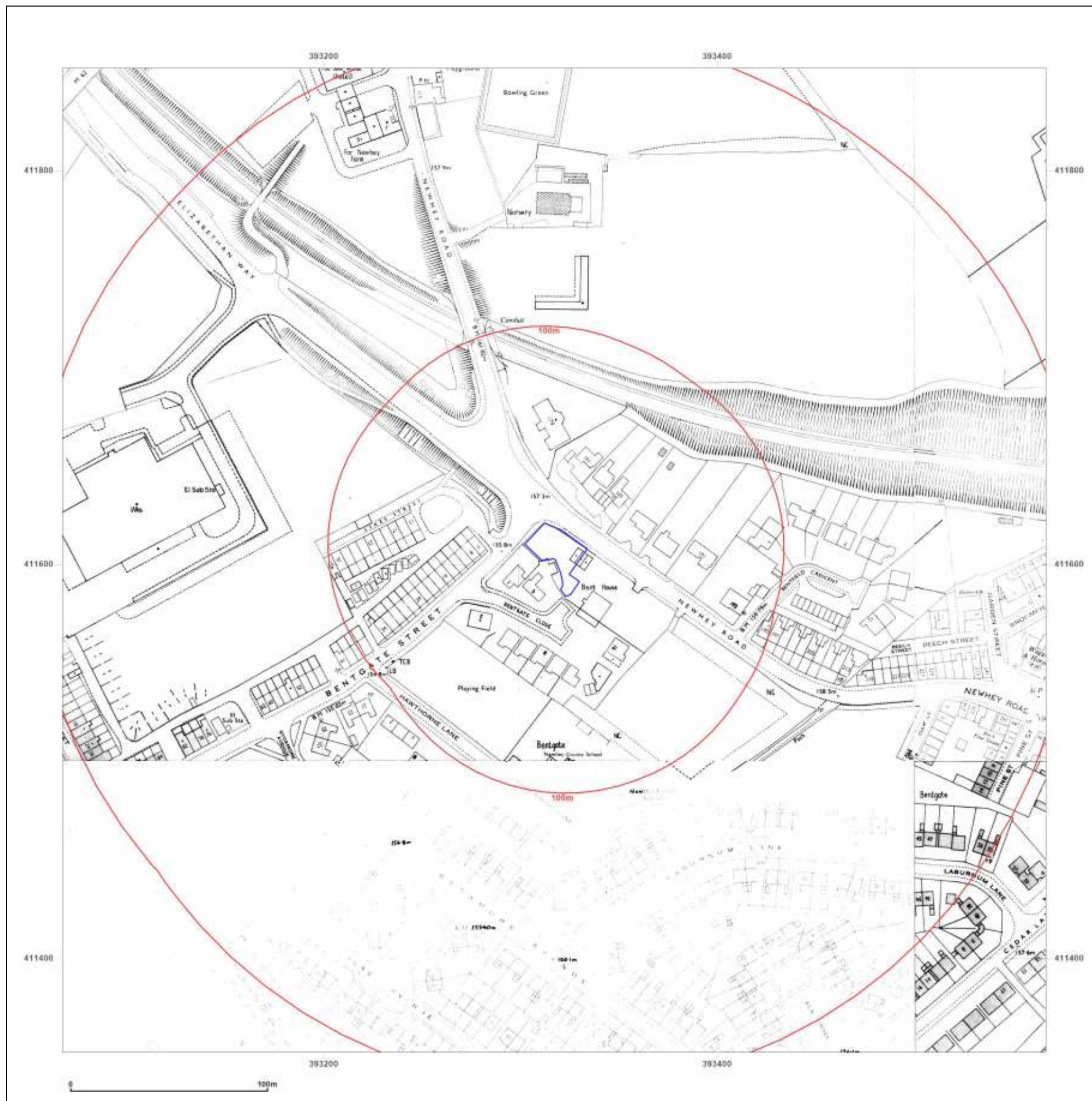


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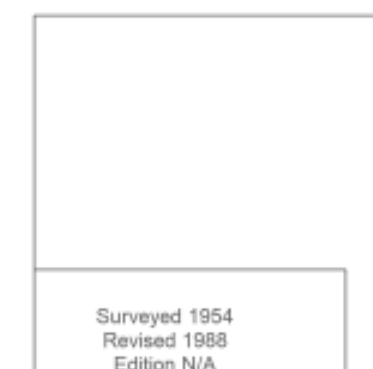
Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1989

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1954
Revised 1988
Edition N/A
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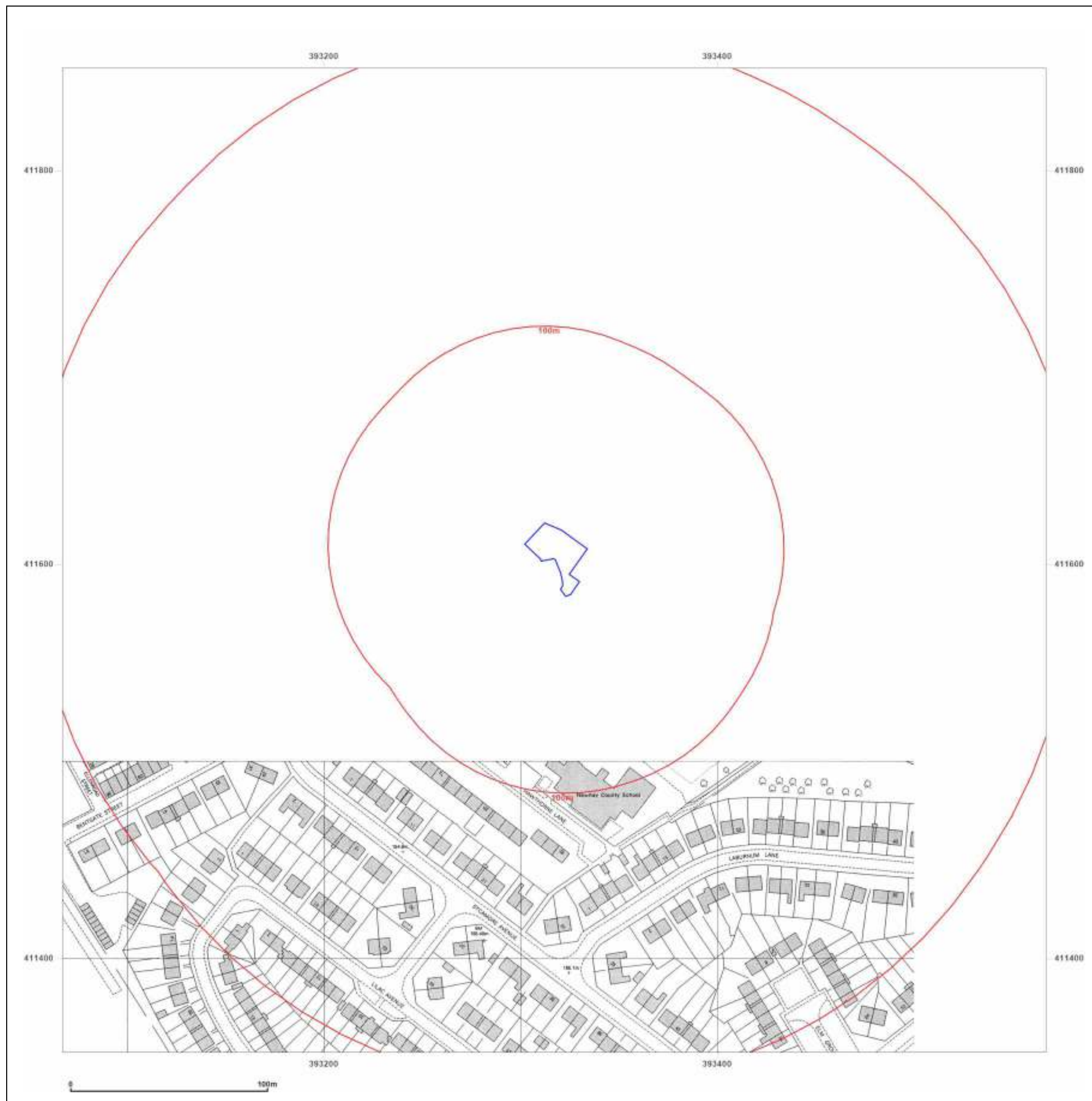


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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1988-1992

Scale: 1:1,250

Printed at: 1:2,000



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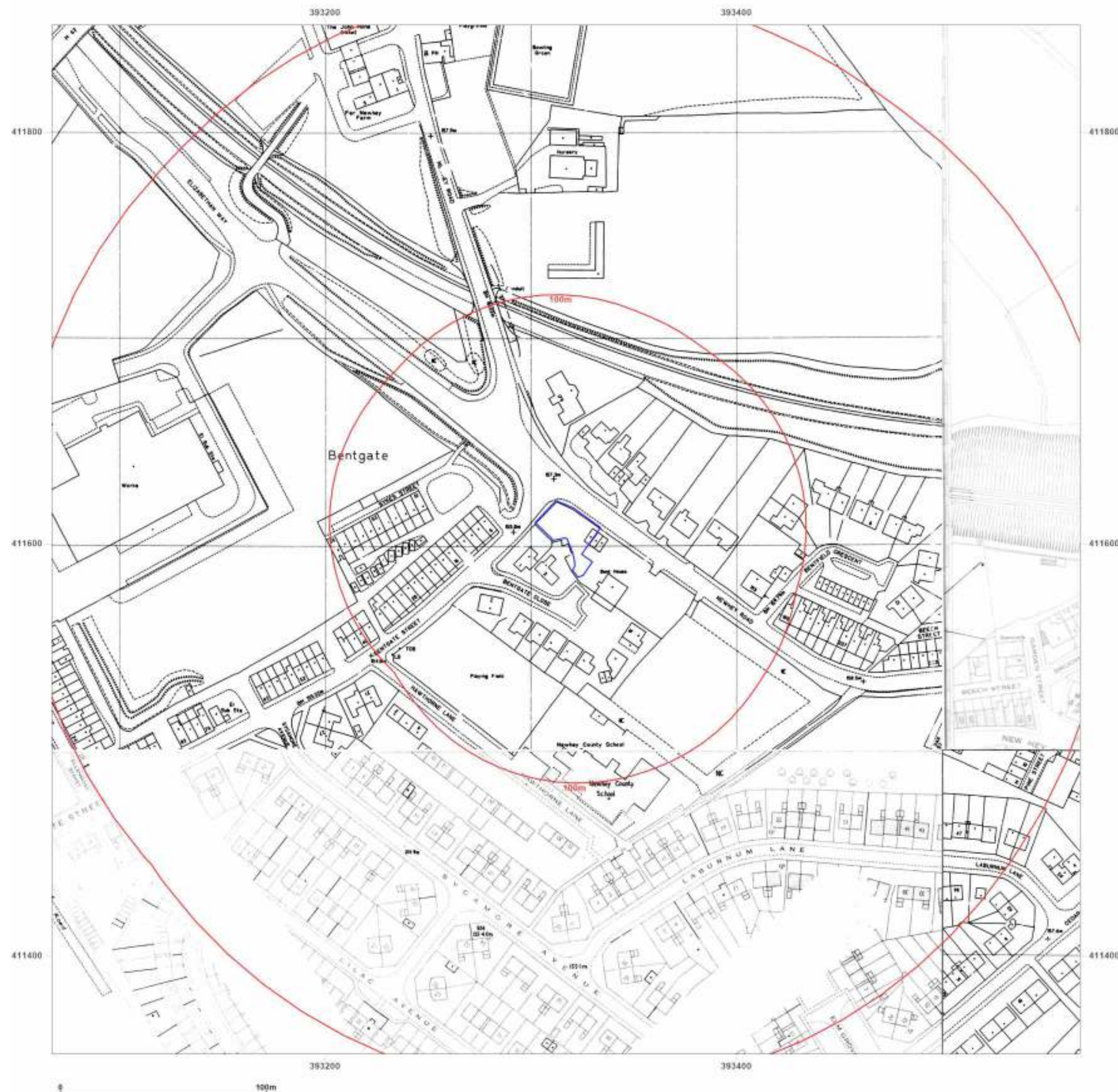


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Site Details:

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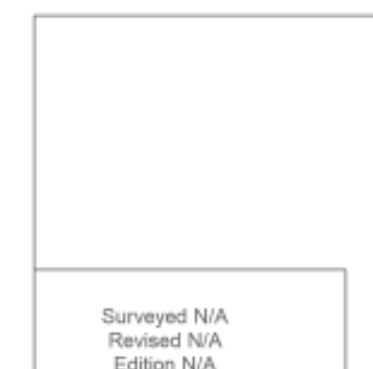
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Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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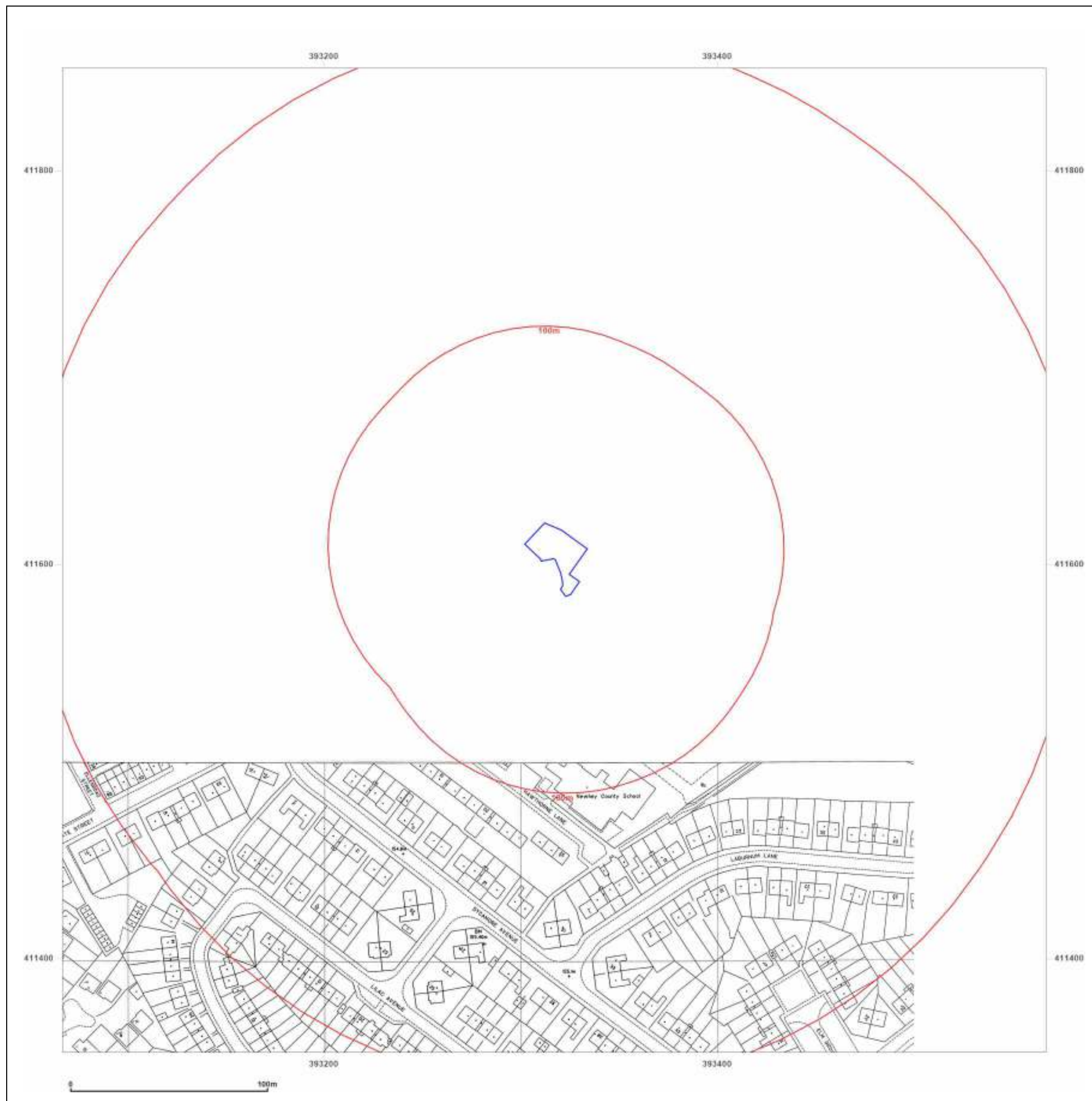


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1993-1995

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1993 Revised N/A Edition N/A Copyright 1993 Levelled N/A	Surveyed 1995 Revised N/A Edition N/A Copyright 1995 Levelled N/A



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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: National Grid

Map date: 1992-1995

Scale: 1:1,250

Printed at: 1:2,000



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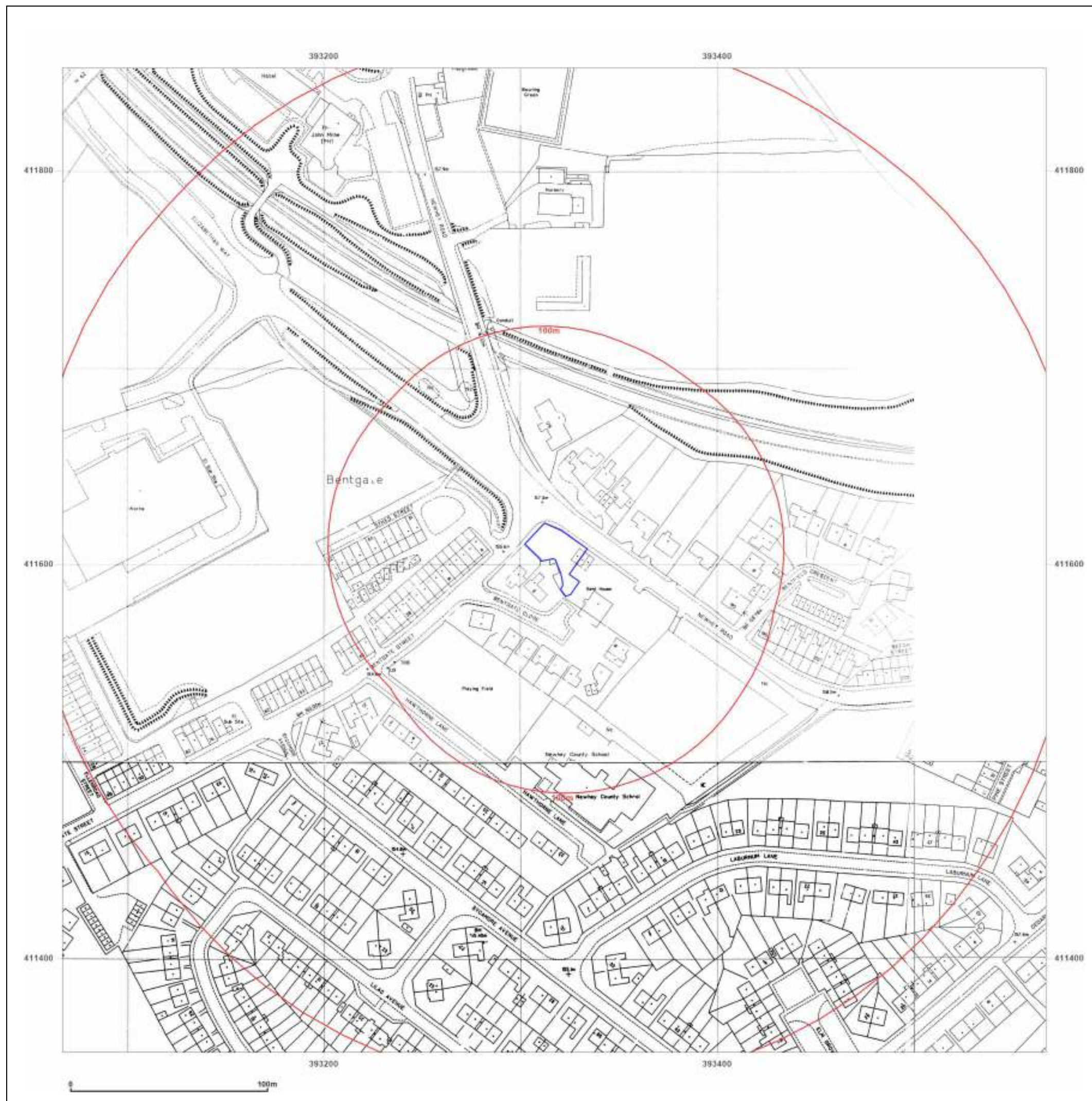


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Site Details:

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Client Ref: CMAPS-CM-1184369-4199-110924
Report Ref: CMAPS-CM-1184369-4199-110924HIS
Grid Ref: 393317, 411602

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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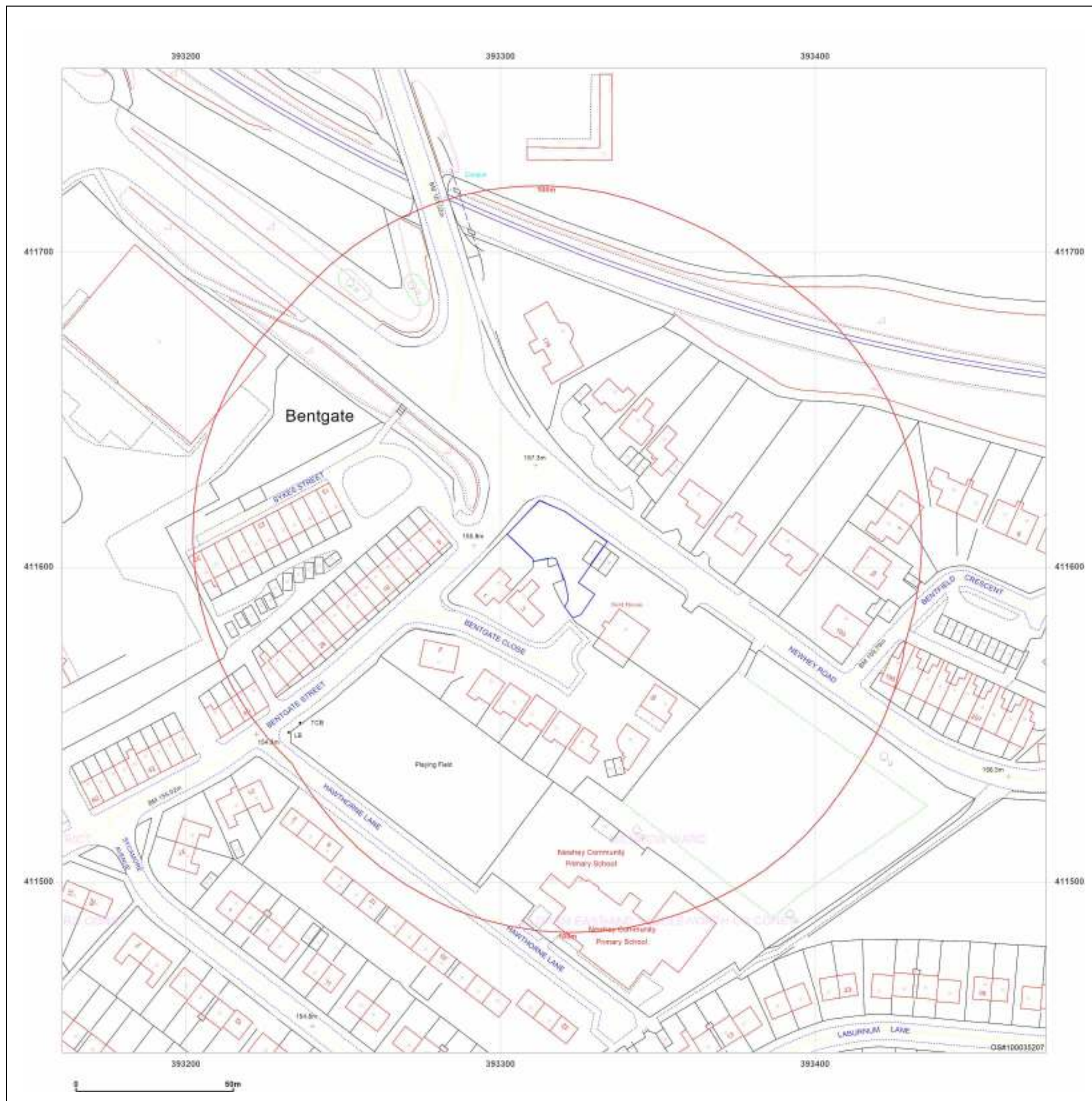


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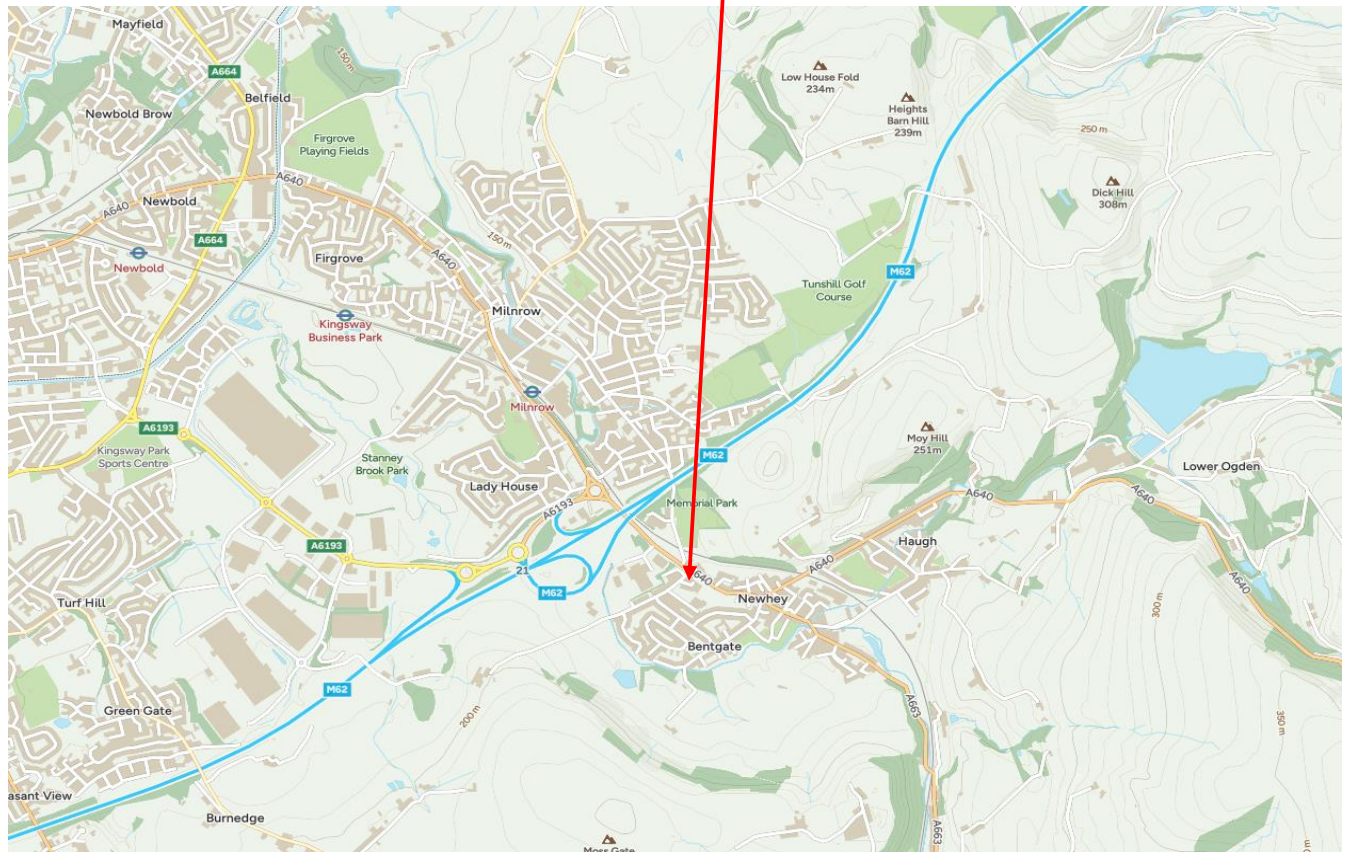
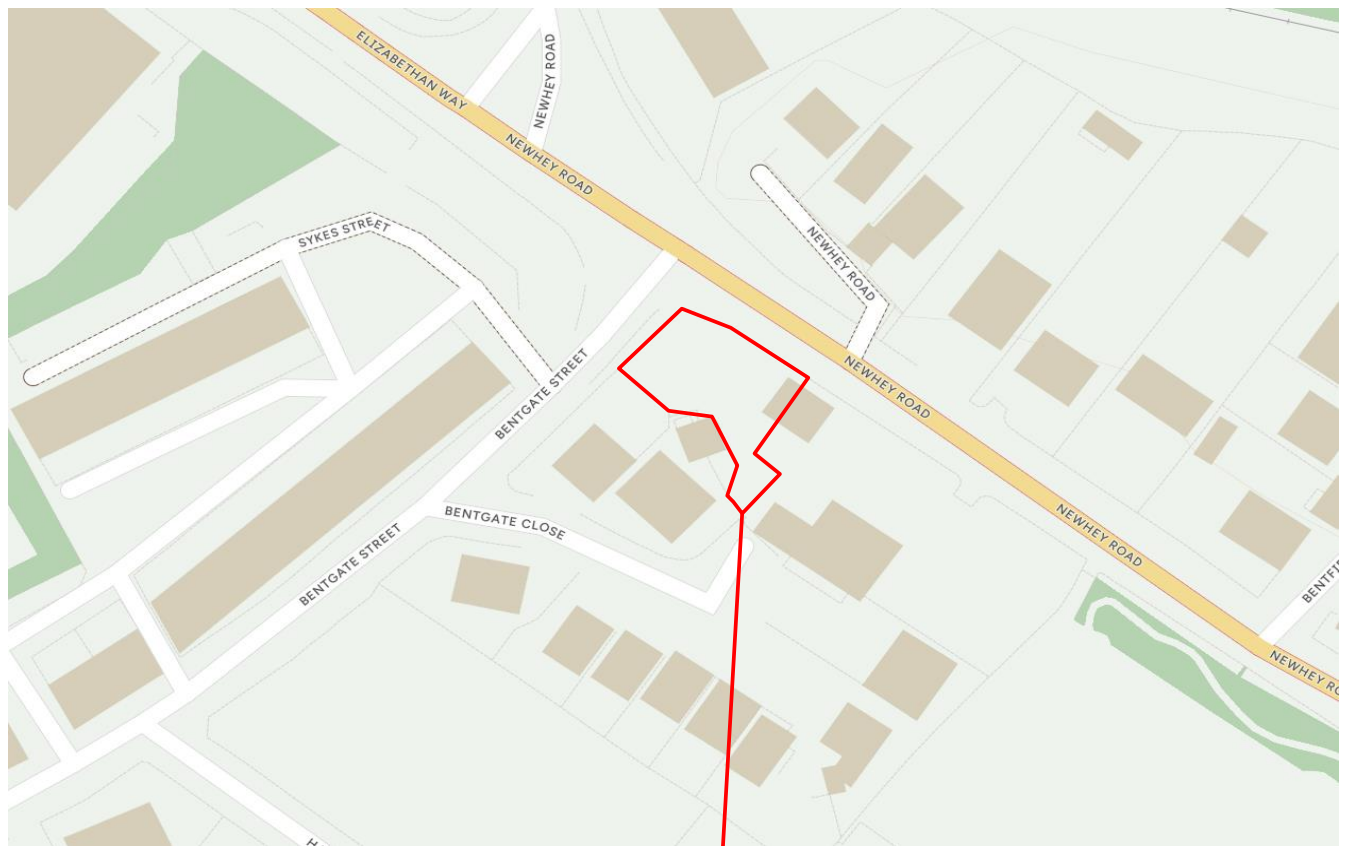
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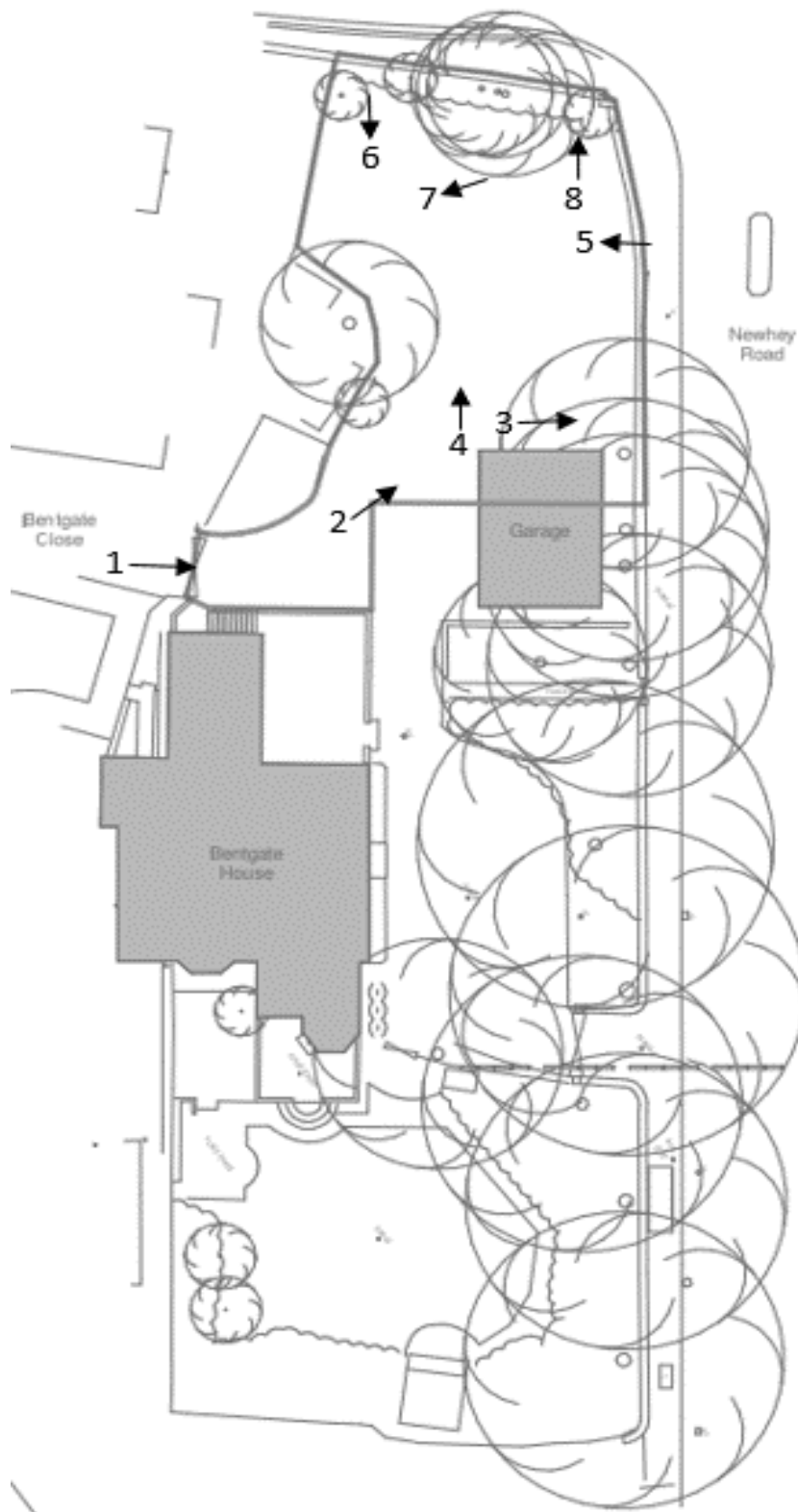


FIGURES



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Site: BENTGATE HOUSE, NEWHEY ROAD, NEWHEY, ROCHDALE, OL16 4JY	Date Drawn: 07-Oct-24	Date Checked: —	Orientation: 	Job Number: 8044
Client: DAVID PERKINS	Drawn By: SS	Checked By: —	Scale: —	Figure Number: 1



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Site:
BENTGATE HOUSE, NEWHEY ROAD, NEWHEY, ROCHDALE,
OL16 4JY

Client:
DAVID PERKINS

Walkover Survey

Date Drawn:
07-Oct-24

Drawn By:
SS

Date Checked:

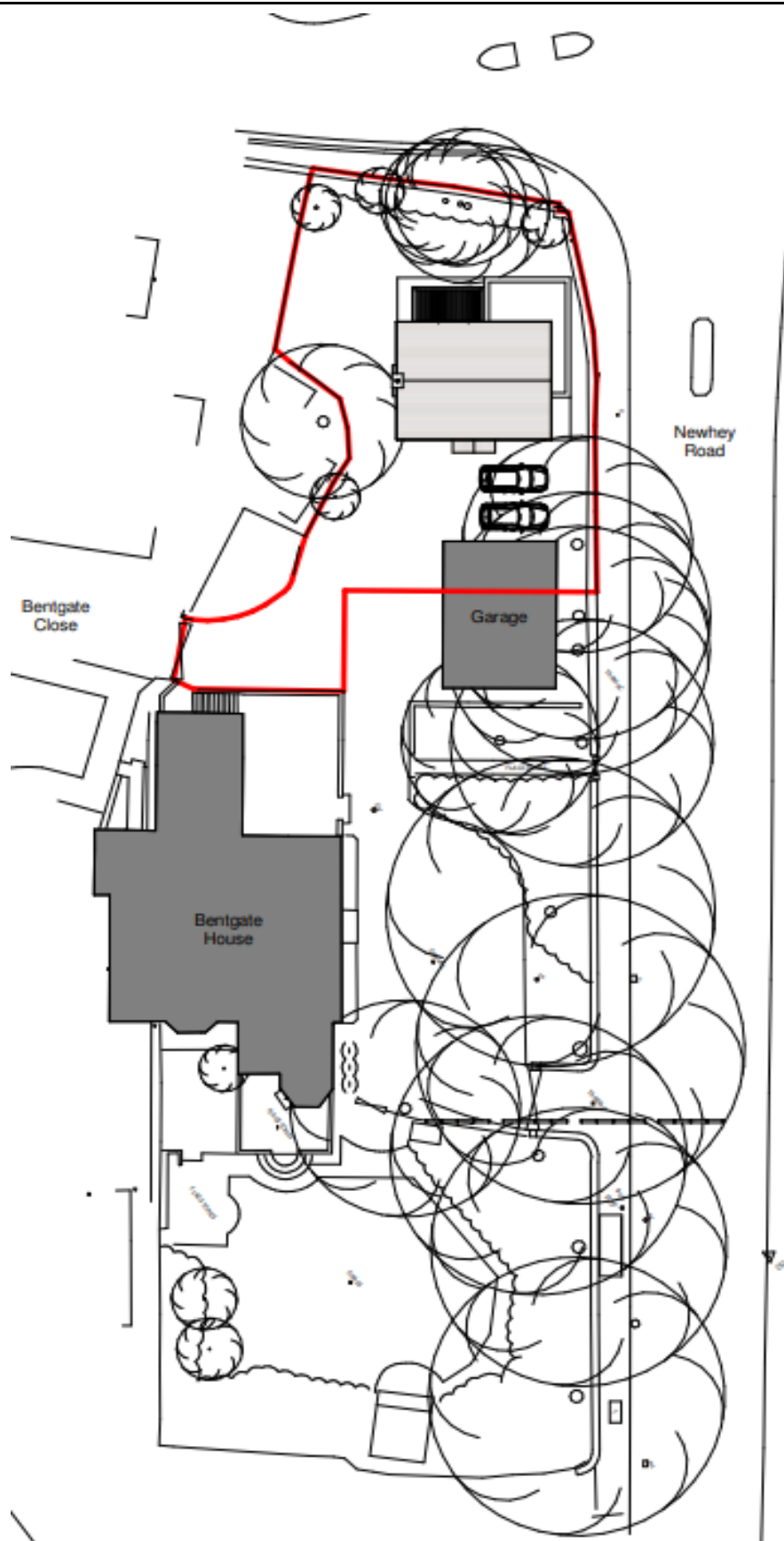
Checked By:

Orientation:

Scale:

Job Number:
8044

Figure Number:
2



SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Proposed Development			
Site: BENTGATE HOUSE, NEWHEY ROAD, NEWHEY, ROCHDALE, OL16 4JY	Date Drawn: 07-Oct-24	Date Checked: —	Orientation: 	Job Number: 8044
Client: DAVID PERKINS	Drawn By: SS	Checked By: —	Scale: —	Figure Number: 3