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DESK STUDY WITH WALKOVER SURVEY

**AT
LAND NORTH SIDE OF ROSE STREET,
MIDDLETON,
MANCHESTER,**

**PREPARED FOR
SECRET GARDEN DEVELOPMENTS LTD**

**REPORT NO. 7653
REVISION 1
MARCH 2023**

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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	Land North Side of Rose Street, Middleton, Manchester, M24
	Grid Reference	388074, 405923.
	Current Land Use	Disused land and former allotments with derelict sheds and domestic garages.
	Proposed Development	Erect several residential properties with front and rear gardens, landscaped areas, bin stores, EV charging points, parking spaces, and shared hardstanding access road.
Site History	On Site	At the time of the earliest survey (1848), the site is situated in undeveloped fields. By 1922 the site was divided up into allotment gardens with numerous glasshouses and sheds added over time. By 1968 there are six domestic garages depicted along the western boundary.
	Beyond Site Boundary	At the time of the earliest survey (1848), Tonge Lane 62m to the north (renamed Oldham Road 1893), Kenyon Lane 20m to the west. Terraced housing 6m to the north, a Sand Pit 55m to the west (named Old Sand Pit by 1893 and labelled football field by 1909) possibly infilled between 1993 and 2005. There is a pond 157m to the east, a Colliery 215m to the north (infilled by 1968). By 1893, three ponds depicted 210m north-northeast (reservoir by 1909 and infilled by 1953), 178m west-southwest (infilled by 1909), and 175m west (infilled by 1932). A football field (football & athletic ground by 1909, playing fields by 1932) is shown 104m to the west and within the Old Sand Pit. By 1909, there is a tram depot 146m to the north and the nearest tramway is 66m to the north (gone by 1953). By 1922, residential development within 250m with the nearest being on Kenyon Lane adjacent to the west. There is an elevated embankment 85m to the southeast (gone by 1953). By 1932, Holy Innocents' Mission Church (gone by 1991) shown 15m to the south and tennis ground (gone by 1953) 47m to the south. By 1953, Rear gardens of Collinge Avenue are shown adjacent to the eastern boundary. There is a Smithy (gone by 1967) 160m to the northeast and an electricity substation 75m to the northwest. By 1968, a garage (last seen 1991) is depicted 200m to the east-northeast.
Geological and Mining Appraisal	Made Ground	No made ground indicated to be present. However, as the site has been partially developed, some may be present.
	Superficial Geology	Diamicton of the Devensian Period, comprising gravely, sandy, silty clay.
	Bedrock Geology	Mudstone, siltstone, and sandstone, belonging to the Pennine Lower Coal Measures Formation of the Langsettian sub-age.
	Radon	No radon protection measures are required.
	Mining	Coal Authority Consultants Coal Mining Report, ref.51003332980001 and dated 11 th January 2023, indicates that the site is within a surface area that could be affected by probable unrecorded shallow mine workings.
	Subsidence Hazards	Very low to negligible
Environmental Appraisal	Landfill Sites	Historic landfill site 55m west of the site.
	Hydrogeology	Superficial deposits are indicated to be a Secondary A aquifer.
		Bedrock is indicated to be a Secondary A aquifer.
	Hydrology	None recorded
	Flood Risk	Flood Zone 1 with a negligible risk of flooding. Flood Risk Assessment unlikely to be required.
	Industrial Land Uses	Two electricity substations 82m northwest and 185m west, Homebrewkits.co.uk 128m to the northwest, Middleton Ambulance Station 185m to the west, and a Chimney 230m to the northeast
	Other Relevant Details	None

Recommendations	An intrusive ground investigation is required to assess the ground conditions for contamination. 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 conceptual ground model indicates that ground gas standpipes should be installed and monitored over an extended period of time. A detailed Geological Appraisal and Coal Mining Assessment should be carried out to further assess the potential subsidence risk from worked shallow coal seams and whether a rotary borehole investigation is 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 LAND ON THE NORTH SIDE OF,
ROSE STREET, MIDDLETON, MANCHESTER**

CLIENT: SECRET GARDEN DEVELOPMENTS LIMITED

1. INTRODUCTION

This report has been prepared in accordance with an email, dated 6th January 2023, from the Engineer on behalf of the Client.

The brief was set out in our estimate, ref. E6180 and dated 6th January 2023, 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 north of Rose Street, Middleton, Manchester, M24, as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 388074, 405923.

As shown on Figure 2, the about 0.31 hectare roughly rectangular shaped site is bounded to the northwest by a property off Rose Street and beyond by the rear of 10, 12, 14, and 16 Queen Street, to the northeast by the rear of 24 and 26 Queen Street and 5, 7, 9, and 10 Collinge Avenue. Bounded to the southwest by the rear of 21-47 Kenyon Lane, and Portal Court to the southeast.

1.2 Proposed Development and Purpose of the Desk Study

We understand that it is proposed to erect nine residential properties with front and rear gardens, landscaped areas, associated shared hardstanding, parking spaces, bin storage, bin collection locations, and EV charging points, 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 12th January 2023. Surface features observed were recorded on a plan of the site together with the positions and directions of photographs taken. The resulting Walkover Survey Plan and site photographs are appended.

At the time of the walkover, the site comprised a derelict plot of land / former allotment. There are mounds of vegetation in the southeast and southwest, general waste (including asbestos cement sheeting) found in the southwest that we understand from the Client is derived from the removal/clearance of the former garages on site (Photos 6, 17, 18, 19, 37, 38, 39 and 46).

Stacked felled trees are present roughly in the centre of the site (Photos 3, 4, 8, 10), and mounds of vegetation are found predominantly in the southeast (Photos 16, 17, 18, 20, 21, 23, 25, 35 and 47). The ground surface is predominantly flat with a slight slope to the northwest, and undulating in areas.

In the northwest of the site were several domestic garages accessed off Rose Street of various construction some with asbestos cement sheet roofs. Cars were present in some of the garages.

The ground surface is mostly exposed earth with occasional concrete slabs where domestic garages and sheds used to be (Photos 1, 5, 21, 26, 27) asbestos cement pieces and fragments were also observed across the whole of the site. Standing water is present in several areas as plant machinery have churned up the surface whilst clearing the site (Photos 9, 10, 14, 32, 35, 36 and 47). The site could be accessed off Rose Street to the west (Photo 1 and 2).

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

2. DESK STUDY

2.1 Historical Appraisal

The past 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

Date	Scale
1848	1:10,560
1891	1:10,560
1906-1907	1:10,560
1915-1916	1:10,560
1923	1:10,560
1932-1933	1:10,560
1938	1:10,560
1955-1956	1:10,560
1965-1966	1:10,560
1975	1:10,000
1980-1982	1:10,000
2001	1:10,000
2010	1:10,000
2023	1:10,000

TABLE 2 LARGE SCALE SURVEYS

Date	Scale
1893	1:2,500
1909	1:2,500
1922	1:2,500
1932	1:2,500
1953-1954	1:2,000
1954-1955	1:2,000
1955	1:2,500
1968-1969	1:2,500
1967-1970	1:2,000
1973-1975	1:2,000
1976*	1:2,000
1975-1977*	1:2,000
1982-1984*	1:2,000
1991-1992	1:2,000
1989-1992	1:2,000
1991-1992	1:2,000
1992-1993	1:2,000
1993	1:2,000
1994*	1:2,000
1994*	1:2,000
1995*	1:2,000
1995*	1:2,000
2003	1:1,250

* Site not covered by the survey.

Extracts of the above surveys are appended.

7653 Rev. 1— Land north of Rose Street

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1848	At the time of the earliest survey the site is situated in undeveloped fields.	Tonge Lane (renamed Oldham Road 1893) 62m to the north. Kenyon Lane 20m to the west. Terraced housing 6m to the north. A Sand pit depicted 55m to the west. A pond 157m east. A School 95m to the northwest. Tonge Colliery 215m to the north and Hilton Fold Farm 200m to the northwest. Excavation 245m to the south.
1893	No significant changes on site at this time.	Queen Street 21m to the north, three ponds depicted 175m west, 178m west-southwest, and 210m north-northeast. A refuse heap 75m southeast. A football field is shown 104m to the west within the old sand pit. Some residential development in the northwest and south.
1909	No significant changes on site at this time.	A tram depot is shown 146m to the north and the nearest tramway is 66m to the north on Oldham Road. There is a bowling green 60m to the west. Ponds 160m northeast.
1922	The site is now divided into allotment gardens.	Rose Street now shown. An elevated mound is depicted 75m to the southeast where the refuse heap was shown. Residential development within 250m with the nearest being on Kenyon Lane adjacent to the west. The school is now a Sunday School.
1932	Glasshouses are depicted in the southeast of the site.	Holy Innocents' Mission Church shown 15m to the south, and tennis ground 47m to the south. Pond 175m west no longer shown.
1953-1954	Several sheds and glasshouses depicted across the site.	Collinge Avenue to the east with rear gardens adjacent to the site. Allotment gardens shown 76m to the west-northwest, and a Smithy 160m to the northeast. Moorclose County Secondary School shown 117m to the south. There is an electricity substation 75m to the northwest. Reservoir 210m north northeast no longer shown, infilled and developed.
1968	The sheds and glasshouses are no longer shown and six domestic garages are shown along the western boundary.	The pond 157m to the east has been infilled. The excavation to the south is larger, now 215m. A garage is depicted 200m to the east-northeast.
1973-1984	No significant changes on site at this time.	No significant changes at this time.
1991-1993	No significant changes on site at this time.	Portal Court is shown 8m to the south. Mills are now depicted within 250m, the nearest building being 123m to the northeast.

2023	No significant changes on site at this time.	At some time between 1993 and 2005 the old sand pit/playing fields some 55m west was infilled and partially built upon with houses on Tonge Meadow.
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We are not aware of any other significant changes within the site and its immediate surrounding area.

2.1.1 Client Supplied Information

We understand from the Client that the Vendor has provided anecdotal evidence that no allotment activity has taken place on the site since at least 1977 and that apart from the localised area used for garages the sites has been primarily used only as extended gardens with limited vegetable cultivation for private use only. This anecdotal evidence is supported by a review of historic Google Earth™ images dating back to 1985, which show fence lines that appear to align with the residential properties fronting on to Kenyon Lane.

The Client has also provided photographs and a hazardous waste consignment as evidence that the fragments of visible asbestos containing material (ACM) noted during the walkover has been collected and bagged (45 x 20kg bags) and removed from site by a licensed waste carrier (Foxhall Environmental Limited). Copies of the photographs and the consignment note are appended. According to the Client, at the time of writing this report the only asbestos on site is within one intact complete garage and one intact complete shed)

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.

2.2.2 Superficial Geology (Drift Deposits)

The drift deposits beneath the site are anticipated to be Diamicton of the Devensian Period, generally comprising poorly sorted gravelly sandy silty clay, the depth of which is unknown. The drift deposits are indicated as having a low to high permeability.

2.2.3 Bedrock Geology

The bedrock beneath 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.

A coal seam is inferred to be present about 6 metres to the west. The dip and direction of dip of the rock strata, including the coal seam, is unknown. Given the location of the coal seam in relation to the site boundary there is a possibility that it underlies the site at relatively shallow depth

The rock strata within the site are indicated to be displaced by a geological fault in the southwest trending northwest to southeast.

2.2.4 Potential Hazards in Natural Ground

The hazard rating for on-site shrinking/ swelling clays, running sands, collapsible deposits/ strata, and landslides is very low, and the rating for compressible deposits/ strata, and 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

The British Geological Surveys “BritPits” database contains details of currently active and closed surface and underground mineral workings. There is one records of BritPits within 250 metres of the site boundary, being about 122 metres to the southwest of the site boundary, which is Tonge Hall Sand Pit.

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 thirty-nine historical surface excavations within 250 metres of the site boundary, the nearest being an unspecified pit about 44 metres to the southwest of the site boundary.

The British Geological Survey maintain records of mining of minerals other than coal, including vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and other commodities, including ball clay, jet, black marble, graphite and chert. The British Geological Survey indicate that there is no potential for non-coal mining beneath the site or within 1,000 metres of the site boundary.

The Coal Authority, and others, indicate that there is a potential for coal mining beneath the site.

A Coal Authority Consultants Mining Report, ref. 51003332980001 and dated 11th January 2023, is appended. The Coal Authority Consultants 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.

The Coal Authority indicates that they have records of mine workings from colliery abandonment plans in the 1.0 metre thick Cannel Coal seam, and the 0.80 metre thick Lower Bent Coal seam at 89 and 122 metres depth respectively. The above coal seams are indicated to down dip at 16.0 degrees to the southwest. The locations of the above collieries are not given. In addition, the Coal Authority indicate that there are probably unrecorded shallow mine workings beneath the site.

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.

The Coal Authority Plan to the Report indicates that there is an abandoned mineshaft about 40 metres to the east. It should be noted that the Coal Authority records may be incomplete and hence mine entries may be present for which the Coal Authority has no knowledge.

Coal Authority records indicate that the Cannel Coal seam crops out within 10.4 metres of the southwest site boundary, with a 284 degree bearing, as shown on the Coal Authority Plan to the Report. The Coal Authority indicate that the Cannel Coal seam is of a workable thickness.

Coal Authority have records that indicate that a geological fault is present within and/or in close vicinity of the site boundary as shown on the Coal Authority Plan to the Report.

The Coal Authority have no records of opencast mines within 500 metres of the site boundary.

The Coal Authority indicate that they have no plans to mine coal beneath the site and there are no coal mining licences within 200 metres of the site.

In view of the above we would recommend undertaking a detailed Geological Appraisal and Coal Mining Risk Assessment to further assess the situation and determine whether a rotary borehole investigation is required.

According to the report the site is not in an area affected by significant natural cavities, underground workings, historical mineral planning areas, 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 479,000 households.

The site is unlikely to be affected by radon gas as < 1% of surrounding properties are above the Radon Action Level. No 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 50 metres of the site boundary is given.

2.3.4 Railway Infrastructure

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

There are four historical railways within 250 metres of the site boundary, the nearest being railways sidings about 140 metres to the northwest of the site boundary.

The site is not within 500 metres of Crossrail 1, Crossrail 2, or 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-five potentially contaminative industrial land uses identified within 250m of the site boundary. Those that represent the most significant risk to the site are an Unspecified Pit 44m to the southwest, a Refuse Heap 68m to the west, a Refuse Heap 68m to the southeast, Old Sand Pit 68m to the southwest, a Sand Pit 78m to the southeast, Unspecified Mills 125m to the northeast, and a Colliery 202m to the north.

There is one historical energy feature within 250m of the site boundary, which is an electricity substation 76m to the northwest.

There are two historical garages within 250m of the site boundary, with the nearest being 156m to the northeast.

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

2.4.2 Potentially Contaminated Land Associated with Historical Land Use

Our historical appraisal indicates potentially contaminative land uses which are not included in the above section. The identified potentially contaminative land use is former Allotment Gardens on site.

2.4.3 Landfill

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

The British Geological Survey undertook a survey for the Department of the Environment (DoE) of operational and closed landfill sites in 1973. The survey indicated that there were no landfill sites within 250 metres of the site boundary.

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

The Environment Agency and Natural Resources Wales have one record of known historical (closed) landfill sites, where there is no PPC permit or current waste management licence, within 250 metres of the site boundary, those within 250 metres of the site being about 154m to the east of the site boundary.

Our historical appraisal has identified five unregistered landfills in the form of pits and ponds infilled with unknown material, which may be a source of ground gas, within 250 metres of the site boundary. The old sand pit some 55m to the west is on historic landfill possibly backfilled as late as 1993 to 2005 when it was partially built on and is known to the Local Authority Planning Department, who have concerns with regard to landfill gas migration.

2.4.4 Waste

Local Authority records and detailed Ordnance Surveys indicate that there are no historic waste sites within 250 metres of the site boundary.

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

The Environment Agency and Natural Resources Wales have ten 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 250 metres of the site boundary, the nearest being the storage of non-agricultural waste in a secure place, about 194 metres to the northeast of the site boundary.

2.4.5 Current Industrial Land Use

Current potentially contaminative industrial land uses are recorded by the Ordnance Survey and Experian. There are five potentially contaminative industrial land uses identified within 250m of the site boundary, which include two electricity substations (infrastructure and facilities) 82m to the northwest and 185m to the west, homebrewkits.co.uk (consumer products) 128m to the northwest, Middleton Ambulance Station 185m to the west, and a Chimney 230m to the northeast.

According to Experian, there is one current or recent petrol stations within 250m of the site boundary, which is 215m to the northeast.

National Grid data indicates that there are currently no high voltage underground electricity transmission cables or high pressure underground gas transmission pipelines within 250 metres of the site boundary.

2.4.6 Sites Determined as Contaminated Land

There are no sites determined as contaminated under Section 78R of the Environmental Protection Act (1990) within 250 metres of the site boundary.

2.4.7 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 is one dangerous or hazardous sites within 250 metres of the site boundary, which is about 107m to the northeast of the site boundary.

2.4.8 Regulated Explosives Sites

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

2.4.9 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 250 metres of the site boundary.

2.4.10 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 250 metres of the site boundary.

2.4.11 Licenced Industrial Activities (Part 1(A))

The Environment Agency and Natural Resources Wales indicate that there are two records of Part 1(A) installations regulated under the 2016 Environmental Permitting (England and Wales) Regulations for release to the environment within 250 metres of the site boundary, the nearest being Vita Cellular Foams (UK) Limited issued in 2006 and last noted as effective in 2022, about 249 metres to the northeast of the site boundary.

2.4.12 Part A(2) and Part B Authorisations

Local Authority records indicate there are two 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 250 metres of the site boundary, the nearest being Morton Pits Service Station unloading of petrol into storage, about 208 metres to the northeast of the site boundary.

2.4.13 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 250 metres of the site boundary.

2.4.14 Licensed Discharges to Controlled Waters

According to Environment Agency and Natural Resources Wales records there have been no discharges of treated or untreated effluent to controlled water under the 1991 Water Resources Act within 500 metres of the site boundary.

2.4.15 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 250 metres of the site boundary.

2.4.16 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 250 metres of the site boundary.

2.4.17 List I and List II Dangerous Substances

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

2.4.18 Pollution Incidents

According to the Environment Agency and Natural Resources Wales there is one record of substantiated pollution incidents within 250 metres of the site boundary, which was about 165 metres to the northeast of the site boundary. The incident occurred in 2003 comprising atmospheric pollutants and effects from the release of soot/smoot. The impact to water, land, and air was category 4 (no impact).

2.4.19 Pollution Inventory Substances

The Environment Agency and the Scottish Environment Protection Agency indicate that there have been no reports on annual emissions of certain regulated substances to air, controlled waters and land within 250 metres of the site boundary.

2.4.20 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 250 metres of the site boundary.

2.4.21 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 250 metres of the site boundary.

2.4.22 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 Diamicton which are indicated to be a Secondary A aquifer comprising 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 are indicated to be a Secondary A aquifer comprising 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 vulnerability of groundwater in the superficial geology to a pollutant found within the site and its immediate surrounding area has been assessed as “Medium” – an area with an intermediate ability to transmit pollution to groundwater.

The vulnerability of groundwater in the bedrock geology to a pollutant found within the site and its immediate surrounding area has been assessed as “Low”, an area able to provide protection from pollution

British Geological Survey and Environment Agency data indicates that the site is not within a 1km grid where solution features are 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 six surface water abstraction licences, the nearest being 478m to the northeast, four groundwater abstraction licences, the nearest being 373m to the northeast, and no potable water abstraction licences within 2000 metres of the site boundary.

There are no Source Protection Zones, set up to protect a water source within 500 metres of the site of boundary, present according to the environmental data report.

2.4.23 Hydrology

The Ordnance Survey indicate that there are no watercourses (river, stream or canal) within 250 metres of the site boundary.

There are no surface water features (ponds or lakes) within 250 metres of the site boundary according to the Ordnance Survey.

The Water Framework Directive (WFD) indicates that the site is within the catchment of the River Irk, this watercourse being about 375 metres to the north of the site boundary and the groundwater body is known as the Northern Manchester Carboniferous Aquifers.

2.4.24 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 50 metres of the site boundary the highest risk of flooding is “Low”.

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

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

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

According to Ambiantal Risk Analytics surface water “FloodMap” there is a negligible risk of flooding on the site and within 50 metres 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 50 metres of the site boundary.

Given the above we anticipate that a Flood Risk Assessment is unlikely to be required.

2.4.25 Environmental Designations

Natural England, Natural Resources Wales and Scottish Natural Heritage indicate that there are environmental sensitive sites within 2000 metres of the site boundary.

The site is within an SSSI Impact Risk Zone, there is one record of Sites of Special Scientific Interest (SSSI), which is 766m to the east, one record of Special Areas of Conservation (SAC), which is 766m to the east, two records of Local Nature Reserves (LNR), with the nearest being 1228m to the west, two records of Designated Ancient Woodland, with the nearest being 1748m to the north, two records of Green Belt Land, with the nearest being 624m to the east, and two records of Nitrate Vulnerable Zones, with the nearest being on site.

2.4.26 Visual and Cultural Designations

Historic England, Cadw and Historic Environment Scotland indicate that within 250 metres of the site boundary there are no World Heritage Sites, Areas of Outstanding Natural Beauty, National Parks, Listed Buildings, Conservation Areas, Scheduled Ancient Monuments or Registered Parks and Gardens.

2.4.27 Agricultural Designations

Natural England indicate that the Agricultural Land (quality) Classification for the site and the land within 250 metres of the site is urban-land.

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

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

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

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

2.4.28 Habitat Designations

Natural England indicate that there are no priority habitats, habitat networks, open mosaic habitats or limestone pavement orders within 250 metres of the site boundary.

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 associated with Made Ground (if present) and past and present contaminative processes undertaken on and adjacent to the site including earthworks, construction, demolition, and allotments/gardens.
- Pesticides may be present derived from the sites usage as allotments and later as gardens, however we would consider the risk to be very low and limited to the location so the former sheds and outbuildings where pesticide chemicals could have been stored.
- Hydrocarbon contamination from on-site spillage and leakage of oils and fuels associated with on-site parking and domestic garages.
- On-site spillage and leakage of hydrocarbons (oils and fuels) from machinery.
- Asbestos cement sheet pieces and fragments observed on site which have since been removed but may have resulted in the dispersal of free fibre contamination.

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.
- Dissolved contaminants and ground gases via infiltration surface water/migrating groundwater.
- Accumulation of ground gases in enclosed spaces.

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.
- Adjacent properties.

2.5.4 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:

TABLE4 CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Made Ground (if present on site)	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	Low
			Ingestion of dust	End Users	
			Ingestion of contaminated vegetable produce		
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		Low
			Uptake via contaminated groundwater	Vegetation	
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	
			Direct contact	Structures and Services	Low
Asbestos on/ in ground	Asbestos fibres	Asbestos fibres	Inhalation of fibres	Site Operatives End Users	Moderate

Vehicles (parked in domestic garages, parking spaces and on site)	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) Chlorinated Solvents	Ingestion of soil Ingestion of dust Ingestion of contaminated vegetable produce Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Low
			Uptake via contaminated groundwater	Vegetation	Low
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Low
			Direct contact	Structures and Services	Low
Landfill (unregistered)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Moderate
Mining (1)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Low
Mining (2)	Subsidence	-	-	Structures and services	Moderate
Mine Entry	Settlement and/or Collapse			Structures and services	Very Low
Historic allotments and later private gardens	Use of/ spillage/ leachate of Pesticides	Pesticides	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	Very Low
			Direct contact	Structures and Services	Very Low

The conceptual ground model indicates that an intrusive ground investigation is required to assess the ground conditions. The ground investigation should also obtain soil samples for contamination analysis and asbestos detection and, where possible, groundwater and surface water samples for contamination analysis.

In addition the conceptual ground model indicates that ground gases might be present and hence gas standpipes should be installed and monitored over an extended period of time to allow for an assessment to be made.

In view of the findings of the Coal Authority Consultants Mining Report we would recommend that a detailed Geological Appraisal and Coal Mining Risk Assessment is carried out to further assess the potential subsidence risk from worked shallow coal seams and whether a rotary borehole investigation is required.

2.6 General

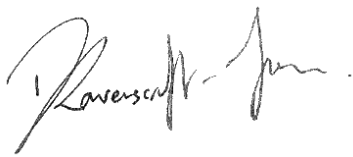
No consideration has been given to flora and fauna as this was outside our brief.

This Phase I walkover survey and desk study is to be followed by a Phase II ground investigation. It should be noted that dependent upon the findings of the ground investigation a Phase III remediation statement and Phase IV validation with report may be required.

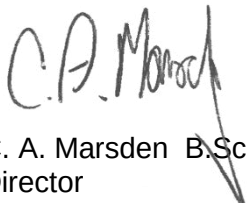
We recommend that consultation should be undertaken with, and the written approval obtained from, the Local Authority Environmental Health Officer, the Local Authority Building Control Officer and the Coal Authority prior to commencing development.

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 Ms Anna Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 7653
REVISION 1
MARCH 2023



P.P. W. J. Pearson B.Sc.(Hons.), M.Sc.
Geotechnical Engineer
For and on behalf of
Sub Surface Consultants Limited



C. A. Marsden B.Sc.(Hons.), C.Eng., M.I.C.E.
Director
For and on behalf of
Sub Surface Consultants Limited.

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



SUB SURFACE

SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS

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

Photographs

Site: LAND NORTH SIDE OF ROSE STREET, MIDDLETON, MANCHESTER, M24

Client: MICK HEWITT

Job Number:

7653

Sheet:

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Survey Date:

12/01/23

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Site:	LAND NORTH SIDE OF ROSE STREET, MIDDLETON, MANCHESTER, M24
Client:	MICK HEWITT

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Job Number:

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Survey Date:

12/01/23

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CLIENT SUPPLIED PHOTOGRAPHS

SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs	
Site:	LAND NORTH SIDE OF ROSE STREET, MIDDLETON, MANCHESTER, M24		Job Number: 7653
Client:	SECRET GARDEN DEVELOPMENTS LIMITED		Sheet: 1/2
			Survey Date: 06/03/23

CLIENT SUPPLIED PHOTOGRAPHS

Removal of asbestos waste on 6th March 2023



S S SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907		Photographs	
Site:	LAND NORTH SIDE OF ROSE STREET, MIDDLETON, MANCHESTER, M24	Job Number:	7653
Client:	SECRET GARDEN DEVELOPMENTS LIMITED	Sheet:	2/2
		Survey Date:	—

CLIENT SUPPLIED PHOTOGRAPHS

Area depicted in Photograph 32 of the walkover survey, following rubbish removal.



WASTE CONSIGNMENT NOTES

The Hazardous Waste Regulations 2005: Consignment Note

PART A Notification details

- 1 Consignment note code: KENYON/04865
- 2 The waste described below is to be removed from (name, address, postcode, telephone, e-mail, facsimile):
Kenyon Lane,, Kenyon Lane, Middleton, United Kingdom, M24 2DQ
- 3 The waste will be taken to (name, address and postcode):
Foxhall Environmental Ltd Foxhall Farm Owler Lane Birstall WF17 9BW
- 4 The waste producer was (if different from 2) (name, address, postcode, telephone, e-mail, facsimile):

PART B Description of the waste

If continuation sheet used, tick here ☐

1 The process giving rise to the waste(s) was: Removal	2 SIC (2007) for process giving rise to the waste: 39.00 /						
3 WASTE DETAILS (where more than one waste type is collected all of the information given below must be completed for each EWC identified)							
Description of waste	List of wastes (EWC code)(6 digits)	Quantity (kg)	The chemical/biological components in the waste and their concentrations are:		Physical form (gas, liquid, solid, powder, sludge or mixed)	Hazard code(s)	Container type, number and size
			Component	Concentration (% or mg/kg)			
Asbestos	1 7 0 6 0 5	45 bags	Chrysotile	Less than 25%	Solid	HP5/7	VanVan

The information given below is to be completed for each EWC identified

EWC code	UN identification numbers(s)	Proper shipping name(s)	UN Class(es)	Packing group(s)	Special handling requirements
1 7 0 6 0 5	2590	Chrysotile	9	III	Manual Only

PART C Carrier's certificate

(If more than one carrier is used, please attach schedule for the subsequent carriers. If schedule of carriers is attached tick here: ☐)

I certify that today I collected the consignment and that the details in A2, A3 and B3 are correct and I have been advised of any specific handling requirements

Where this note comprises part of a multiple collection the round number and collection number are:

/

1 Carrier name: Scott Fosse
On behalf of (name, address, postcode, telephone, e-mail, facsimile)

Foxhall Environmental Services Ltd, Owler Lane, Birstall, WF17 9BW, +443301188777, info@foxhall-ltd.co.uk

2 Carrier registration no./reason for exemption: CBDU220386

3 Vehicle registration no. (or mode of transport, if not road): DA18 VRK

Signature

Date: 06-03-2023

Time 11:56

PART D Consignor's certificate

I certify that the information in A, B and C has been completed and is correct, that the carrier is registered or exempt and was advised of the appropriate precautionary measures. All of the waste is packaged and labelled correctly and the carrier has been advised of any special handling requirements.

I confirm that I have fulfilled my duty to apply the waste hierarchy as required by Regulation 12 of the Waste (England and Wales) Regulations 2011.

1 Consignor name: mick hewitt
On behalf of (name, address, postcode, telephone, e-mail, facsimile):

Signature

Date 06-03-2023

Time 11:57

PART E Consignee's certificate (where more than one waste type is collected all of the information given below must be completed for each EWC)

Individual EWC code(s) received	Quantity of each EWC code received (kg)	EWC code accepted/rejected	Waste management operation (R or D code)
1 7 0 6 0 5	45 bags	Accepted	D5

1 I received this waste at the address given in A3 on:

Date 06-03-2023

Time 13:30

2 Vehicle registration no. (or mode of transport is not road): DA18 VRK

Name: brad brannan
On behalf of (name, address, postcode, telephone, e-mail, facsimile)

3 Where waste is rejected please provide details:

Foxhall Environmental Services Ltd, Owler Lane, Birstall, WF17 9BW,

I certify that waste/permit exempt waste operation number:

Foxhall FP3297LP

authorises the management of the waste described in B at the address given in A3.

Signature

Where the consignment forms part of a multiple collection, as identified in part C, I certify that the total number of consignments forming the collection are:

Date 06-03-2023

Time 13:31

ENVIRO+GEO INSIGHT REPORT

Land North Side of Rose Street, Middleton, Manchester, M24

Order Details

Date: 06/01/2023
Your ref: CMAPS-CM-1079532-4199-060123
Our Ref: CMAPS-CM-1079532-4199-060123EDRGeo

Site Details

Location: 388074 405923
Area: 0.31 ha
Authority: [Rochdale Metropolitan Borough Council](#)



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Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.12 groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	0	2	23	133	-
19	1.2	Historical tanks	0	0	0	37	-
21	1.3	Historical energy features	0	0	2	13	-
22	1.4	Historical petrol stations	0	0	0	0	-
22	1.5	Historical garages	0	0	2	6	-
23	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
24	2.1	Historical industrial land uses	0	2	40	183	-
33	2.2	Historical tanks	0	0	0	59	-
35	2.3	Historical energy features	0	0	9	33	-
37	2.4	Historical petrol stations	0	0	0	0	-
37	2.5	Historical garages	0	0	3	7	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
39	3.3	Historical landfill (LA/mapping records)	0	0	0	3	-
39	3.4	Historical landfill (EA/NRW records)	0	0	1	2	-
40	3.5	Historical waste sites	0	0	0	0	-
40	3.6	Licensed waste sites	0	0	0	2	-
41	3.7	Waste exemptions	0	0	10	8	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
44	4.1	Recent industrial land uses	0	0	5	-	-
45	4.2	Current or recent petrol stations	0	0	1	0	-
45	4.3	Electricity cables	0	0	0	0	-
45	4.4	Gas pipelines	0	0	0	0	-
46	4.5	Sites determined as Contaminated Land	0	0	0	0	-



46	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	1	0	-
46	4.7	Regulated explosive sites	0	0	0	0	-
46	4.8	<u>Hazardous substance storage/usage</u>	0	0	0	1	-
47	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	0	2	-
47	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	2	6	-
49	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	2	4	-
50	4.12	Radioactive Substance Authorisations	0	0	0	0	-
51	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	1	-
51	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
51	4.15	Pollutant release to public sewer	0	0	0	0	-
51	4.16	List 1 Dangerous Substances	0	0	0	0	-
52	4.17	List 2 Dangerous Substances	0	0	0	0	-
52	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	1	2	-
52	4.19	Pollution inventory substances	0	0	0	0	-
53	4.20	Pollution inventory waste transfers	0	0	0	0	-
53	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
54	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
55	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
56	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
57	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
57	5.5	Groundwater vulnerability- local information	None (within 0m)				
58	5.6	<u>Groundwater abstractions</u>	0	0	0	4	0
60	5.7	<u>Surface water abstractions</u>	0	0	0	2	4
61	5.8	Potable abstractions	0	0	0	0	0
62	5.9	Source Protection Zones	0	0	0	0	-
62	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
63	6.1	Water Network (OS MasterMap)	0	0	0	-	-

63	6.2	Surface water features	0	0	0	-	-
64	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
64	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
65	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
66	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
66	7.2	Historical Flood Events	0	0	0	-	-
66	7.3	Flood Defences	0	0	0	-	-
67	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
67	7.5	Flood Storage Areas	0	0	0	-	-
68	7.6	Flood Zone 2	None (within 50m)				
68	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
69	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
70	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
71	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	0	1
72	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
72	10.3	<u>Special Areas of Conservation (SAC)</u>	0	0	0	0	1
72	10.4	Special Protection Areas (SPA)	0	0	0	0	0
73	10.5	National Nature Reserves (NNR)	0	0	0	0	0
73	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	2
73	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	2
74	10.8	Biosphere Reserves	0	0	0	0	0
74	10.9	Forest Parks	0	0	0	0	0
74	10.10	Marine Conservation Zones	0	0	0	0	0
74	10.11	<u>Green Belt</u>	0	0	0	0	2
75	10.12	Proposed Ramsar sites	0	0	0	0	0



75	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
75	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
75	10.15	Nitrate Sensitive Areas	0	0	0	0	0
76	10.16	<u>Nitrate Vulnerable Zones</u>	1	1	0	0	0
77	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
78	10.18	<u>SSSI Units</u>	0	0	0	0	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
79	11.1	World Heritage Sites	0	0	0	-	-
79	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
79	11.3	National Parks	0	0	0	-	-
79	11.4	Listed Buildings	0	0	0	-	-
80	11.5	Conservation Areas	0	0	0	-	-
80	11.6	Scheduled Ancient Monuments	0	0	0	-	-
80	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
81	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
82	12.2	Open Access Land	0	0	0	-	-
82	12.3	Tree Felling Licences	0	0	0	-	-
82	12.4	Environmental Stewardship Schemes	0	0	0	-	-
82	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
83	13.1	Priority Habitat Inventory	0	0	0	-	-
83	13.2	Habitat Networks	0	0	0	-	-
83	13.3	Open Mosaic Habitat	0	0	0	-	-
83	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
84	14.1	<u>10k Availability</u>	Identified (within 500m)				
85	14.2	<u>Artificial and made ground (10k)</u>	0	1	4	12	-
87	14.3	<u>Superficial geology (10k)</u>	1	0	1	3	-

88	14.4	Landslip (10k)	0	0	0	0	-
89	14.5	<u>Bedrock geology (10k)</u>	2	0	4	10	-
90	14.6	<u>Bedrock faults and other linear features (10k)</u>	1	1	8	11	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
92	15.1	<u>50k Availability</u>	Identified (within 500m)				
93	15.2	Artificial and made ground (50k)	0	0	0	0	-
93	15.3	Artificial ground permeability (50k)	0	0	-	-	-
94	15.4	<u>Superficial geology (50k)</u>	1	0	1	3	-
95	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
95	15.6	Landslip (50k)	0	0	0	0	-
95	15.7	Landslip permeability (50k)	None (within 50m)				
96	15.8	<u>Bedrock geology (50k)</u>	2	0	4	8	-
97	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
98	15.10	<u>Bedrock faults and other linear features (50k)</u>	1	1	6	10	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
99	16.1	<u>BGS Boreholes</u>	0	0	16	-	-
Page	Section	Natural ground subsidence					
101	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
102	17.2	<u>Running sands</u>	Very low (within 50m)				
103	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
104	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
105	17.5	<u>Landslides</u>	Very low (within 50m)				
106	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
108	18.1	Natural cavities	0	0	0	0	-
109	18.2	<u>BritPits</u>	0	0	1	2	-
109	18.3	<u>Surface ground workings</u>	0	2	37	-	-
111	18.4	Underground workings	0	0	0	0	0
111	18.5	Historical Mineral Planning Areas	0	0	0	0	-



111	18.6	Non-coal mining	0	0	0	0	0
112	18.7	Mining cavities	0	0	0	0	0
112	18.8	JPB mining areas	None (within 0m)				
112	18.9	<u>Coal mining</u>	Identified (within 0m)				
112	18.10	Brine areas	None (within 0m)				
113	18.11	Gypsum areas	None (within 0m)				
113	18.12	Tin mining	None (within 0m)				
113	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
114	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
116	20.1	<u>BGS Estimated Background Soil Chemistry</u>	2	7	-	-	-
117	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
117	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
118	21.1	Underground railways (London)	0	0	0	-	-
118	21.2	Underground railways (Non-London)	0	0	0	-	-
119	21.3	Railway tunnels	0	0	0	-	-
119	21.4	<u>Historical railway and tunnel features</u>	0	0	4	-	-
119	21.5	Royal Mail tunnels	0	0	0	-	-
120	21.6	Historical railways	0	0	0	-	-
120	21.7	Railways	0	0	0	-	-
120	21.8	Crossrail 1	0	0	0	0	-
120	21.9	Crossrail 2	0	0	0	0	-
120	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 22/04/2019

Site Area: 0.31ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.31ha



Recent site history - 2011 aerial photograph



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Capture Date: 01/05/2011

Site Area: 0.31ha



Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.31ha

OS MasterMap site plan



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Site Area: 0.31ha



1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

158

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 13**

ID	Location	Land use	Dates present	Group ID
A	44m SW	Unspecified Pit	1915	780562



ID	Location	Land use	Dates present	Group ID
A	44m SW	Unspecified Pit	1932	776907
A	57m SW	Unspecified Pit	1907	735822
1	68m W	Refuse Heap	1955 - 1965	747081
B	68m SE	Refuse Heap	1891	764651
A	68m SW	Old Sand Pit	1891	682524
B	78m SE	Sand Pit	1907	643927
B	78m SE	Unspecified Heap	1915 - 1923	694519
B	78m SE	Refuse Heap	1932	700937
A	121m SW	Unspecified Pit	1955 - 1982	701911
A	123m SW	Unspecified Pit	1938	715744
D	125m NE	Unspecified Mills	1975 - 1982	770443
A	125m SW	Sand Pits	1851	664414
E	138m N	Tram Depot	1907 - 1923	749621
E	140m NW	Railway Sidings	1915 - 1923	731445
G	202m N	Colliery	1851	645241
2	217m E	Refuse Heap	1915 - 1923	782394
H	221m S	Unspecified Heap	1955 - 1965	782820
D	224m NE	Unspecified Mills	1938	767272
D	226m NE	Unspecified Mills	1907 - 1932	704156
D	233m NE	Cotton Mills	1955 - 1965	750222
G	243m N	Unspecified Mill	1891	771543
G	245m N	Brick Works	1907	668968
G	247m N	Unspecified Disused Mill	1932	675755
G	248m N	Unspecified Mill	1907 - 1923	784513
H	251m S	Unspecified Pit	1891	690953
G	256m N	Refuse Heap	1891 - 1975	745517
D	257m N	Unspecified Mill	1938	722171
3	259m SW	Unspecified Pit	1907	690954



ID	Location	Land use	Dates present	Group ID
D	267m N	Unspecified Mills	1975	768583
I	269m NE	Old Clay Pit	1891	640054
D	286m NE	Unspecified Tank	1965	674852
K	309m NW	Unspecified Mill	1891	731726
G	310m N	Unspecified Pits	1938	659182
L	314m NE	Unspecified Mill	1938	707869
M	317m NW	Unspecified Mill	1907 - 1915	766528
M	317m NW	Unspecified Mill	1923 - 1932	775358
G	321m N	Unspecified Tanks	1932 - 1938	764392
G	324m N	Unspecified Ground Workings	1955 - 1965	728739
I	335m NE	Unspecified Ground Workings	1907 - 1923	787453
L	335m NE	Unspecified Mill	1932	701760
L	337m NE	Unspecified Mill	1907 - 1923	694640
K	339m NW	Refuse Heap	1923	735963
L	339m NE	Unspecified Mill	1975 - 1982	743249
L	339m NE	Cotton Mill	1955 - 1965	745012
N	339m SW	Colour Works	1891	657670
M	342m NW	Unspecified Mill	1938	703837
K	346m NW	Refuse Heap	1915	711068
K	346m NW	Refuse Heap	1932	752241
D	353m NE	Refuse Heap	1923 - 1932	767025
D	354m NE	Refuse Heap	1938	763384
O	356m NW	Unspecified Mill	1891	747984
O	361m N	Unspecified Disused Mill	1907	675754
Q	365m W	Unspecified Ground Workings	1955	722346
R	366m SW	Unspecified Works	1975 - 1982	704845
5	370m N	Mills	1851	655367
D	373m NE	Refuse Heap	1938	784249



ID	Location	Land use	Dates present	Group ID
D	373m NE	Refuse Heap	1923	737189
D	374m NE	Unspecified Tank	1965	674853
D	375m NE	Unspecified Mill	1923 - 1932	738501
N	375m SW	Unspecified Pit	1982	733977
N	376m SW	Unspecified Pit	1955 - 1975	699573
D	376m NE	Refuse Heap	1932	748999
D	376m NE	Unspecified Mill	1915	721557
D	376m NE	Refuse Heap	1915	767192
D	377m NE	Cotton Mill	1955 - 1965	711261
D	379m NE	Unspecified Mill	1907	704509
S	382m SW	Railway Sidings	1938	782959
S	382m SW	Railway Sidings	1955 - 1965	770956
S	383m SW	Railway Sidings	1891	733164
T	383m NW	Unspecified Mill	1907	740866
T	383m NW	Unspecified Mill	1923	787776
Q	385m W	Unspecified Ground Workings	1965 - 1982	766285
T	386m NW	Industrial Estate	1982	652323
S	386m SW	Railway Sidings	1932	694896
S	386m SW	Railway Sidings	1923	730100
S	386m SW	Railway Sidings	1907 - 1915	790281
K	387m NW	Refuse Heap	1975 - 1982	733131
T	388m NW	Unspecified Mill	1915	728279
T	388m NW	Unspecified Mill	1932 - 1938	725038
T	388m NW	Cotton Spinning Mills	1955 - 1965	730574
D	389m NE	Unspecified Mill	1975 - 1982	744997
N	389m SW	Unspecified Pits	1907	659206
N	389m SW	Unspecified Pit	1915	718574
N	389m SW	Unspecified Pit	1932	767803



ID	Location	Land use	Dates present	Group ID
K	389m NW	Dye Works	1907 - 1915	725132
K	389m NW	Dye Works	1923	728542
K	389m NW	Dye Works	1932	751038
T	390m NW	Unspecified Mill	1975	780776
K	394m W	Unspecified Works	1975 - 1982	700527
K	394m NW	Unspecified Heap	1955 - 1965	747583
K	395m W	Unspecified Works	1965	728388
U	401m E	Unspecified Pit	1907	690951
V	405m N	Unspecified Ground Workings	1915	694895
V	405m N	Unspecified Ground Workings	1932	724588
W	407m SW	Unspecified Mill	1915	657176
W	407m SW	Unspecified Mills	1932 - 1938	706439
6	409m N	Unspecified Ground Workings	1965	764289
W	411m SW	Unspecified Mills	1965	743789
W	414m SW	Unspecified Mills	1923	711355
D	414m NE	Unspecified Tank	1938	744695
W	415m SW	Unspecified Mills	1907	749407
D	416m NE	Unspecified Tank	1907 - 1932	706338
W	417m SW	Unspecified Mills	1965	757477
R	419m SW	Unspecified Mill	1975 - 1982	706399
R	419m SW	Cotton Mill	1965	644494
7	420m N	Clay Pit	1907	676033
D	421m NE	Chimney	1975 - 1982	726144
D	421m NE	Unspecified Tank	1965	744690
D	423m N	Unspecified Ground Workings	1932	737779
K	427m W	Print Works	1851	680240
R	427m SW	Unspecified Mill	1938	696427
8	428m W	Unspecified Mill	1891	657175

ID	Location	Land use	Dates present	Group ID
R	430m SW	Unspecified Mill	1915	705338
R	430m SW	Unspecified Mill	1932	715030
9	431m E	Unspecified Works	1982	727410
U	434m E	Refuse Heap	1915 - 1923	747966
Y	434m S	Cuttings	1938	708495
R	435m SW	Unspecified Mill	1923	707554
U	436m NE	Unspecified Ground Workings	1955 - 1965	722083
L	439m NE	Unspecified Tank	1965	674851
L	439m NE	Chimney	1975 - 1982	744312
Y	439m S	Cuttings	1891	698913
Y	439m S	Cuttings	1907 - 1932	760243
W	440m SW	Unspecified Mills	1891	707980
Z	441m SW	Unspecified Mill	1907	781756
D	443m NE	Unspecified Ground Workings	1938	708837
L	448m NE	Refuse Heap	1915 - 1923	723284
U	451m E	Unspecified Ground Workings	1932	745011
D	452m NE	Unspecified Heap	1965	650944
X	455m SW	Unspecified Tank	1965 - 1982	718672
AB	461m S	Unspecified Heap	1938	757055
S	464m W	Unspecified Depot	1975 - 1982	779842
AB	465m S	Unspecified Ground Workings	1932	729882
AB	465m S	Unspecified Ground Workings	1907 - 1915	735626
AC	467m W	Unspecified Pit	1965	754712
AC	467m W	Unspecified Pit	1982	767999
AB	469m S	Unspecified Heap	1923	767131
AD	470m N	Sand Pit	1907	643933
AD	470m N	Unspecified Heap	1923	650943
AD	470m N	Refuse Heap	1915	678063



ID	Location	Land use	Dates present	Group ID
AD	473m N	Unspecified Ground Workings	1932	648224
W	474m SW	Unspecified Mills	1932 - 1938	753017
AC	476m W	Sand Pit	1907	643934
AC	476m W	Refuse Heap	1915 - 1923	734944
W	476m SW	Unspecified Commercial/Industrial	1915 - 1923	739948
AC	478m W	Unspecified Ground Workings	1932	648229
L	481m NE	Sand Pit	1955	643930
W	482m SW	Unspecified Works	1982	679092
AE	483m N	Unspecified Pit	1938	718200
AE	485m N	Unspecified Pit	1923	725182
L	485m NE	Unspecified Heap	1938	650941
L	486m NE	Unspecified Ground Workings	1932	648228
AE	487m N	Unspecified Ground Workings	1915	754527
AE	487m N	Unspecified Ground Workings	1932	775962
11	488m SW	Unspecified Works	1965 - 1982	698056
U	496m NE	Unspecified Heap	1938	650945
U	498m NE	Unspecified Ground Workings	1932	720536

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

37

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 13**

ID	Location	Land use	Dates present	Group ID
G	252m N	Tanks	1909	87834



ID	Location	Land use	Dates present	Group ID
G	256m N	Tanks	1909	87835
G	260m N	Tanks	1932	87837
G	264m N	Tanks	1909	87836
G	270m N	Tanks	1953 - 1970	95856
G	318m N	Tanks	1909	103692
G	318m N	Tanks	1922 - 1932	100405
D	365m NE	Unspecified Tank	1922	84614
D	366m NE	Tanks	1953	92386
D	369m NE	Unspecified Tank	1932	84612
D	375m NE	Unspecified Tank	1922 - 1932	100743
D	376m NE	Tanks	1932	87848
D	378m NE	Unspecified Tank	1953	101772
D	385m NE	Unspecified Tank	1953	98931
D	389m NE	Tanks	1953	94713
D	390m NE	Tanks	1990	89183
D	391m NE	Unspecified Tank	1922	84613
D	391m NE	Tanks	1932	87847
D	398m NE	Unspecified Tank	1990	84641
D	400m NE	Tanks	1970 - 1990	102113
D	402m NE	Unspecified Tank	1970 - 1984	104056
D	402m NE	Unspecified Tank	1953	91631
D	403m NE	Unspecified Tank	1922 - 1932	88827
D	413m NE	Unspecified Tank	1953	101193
X	453m SW	Unspecified Tank	1954	84619
D	458m NE	Unspecified Tank	1970 - 1990	89055
X	459m SW	Unspecified Tank	1954	84620
10	469m NW	Unspecified Tank	1995 - 1996	98436
R	469m SW	Tanks	1983	92441

ID	Location	Land use	Dates present	Group ID
R	469m SW	Tanks	1973	95184
R	469m SW	Tanks	1973	89126
R	469m SW	Tanks	1983	100931
L	471m NE	Tanks	1970 - 1990	91509
L	479m NE	Unspecified Tank	1970 - 1990	93644
K	486m W	Unspecified Tank	1922	84640
Z	497m SW	Unspecified Tank	1954 - 1967	103547
Z	497m SW	Unspecified Tank	1954	103621

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	15
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on **page 13**

ID	Location	Land use	Dates present	Group ID
C	76m NW	Electricity Substation	1954 - 1996	57921
C	76m NW	Electricity Substation	1954 - 1992	47646
G	276m N	Electricity Substation	1970 - 1990	50179
G	278m N	Electricity Substation	1984	52259
J	303m S	Electricity Substation	1993	45625
J	305m SE	Electricity Substation	1989 - 1991	53560
D	330m NE	Electricity Substation	1990	45623
D	338m NE	Electricity Substation	1990	45621
D	347m NE	Electricity Substation	1970 - 1984	52440
4	364m SE	Electricity Substation	1953 - 1993	49369

ID	Location	Land use	Dates present	Group ID
P	365m E	Electricity Substation	1984	55108
P	366m E	Electricity Substation	1970 - 1990	52199
K	394m W	Electricity Substation	1967 - 1996	49484
R	401m SW	Electricity Substation	1983 - 1996	50627
L	432m NE	Electricity Substation	1990	45622

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	8
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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 13**

ID	Location	Land use	Dates present	Group ID
F	156m NE	Garage	1970 - 1990	17971
F	170m E	Garage	1984	15681
I	355m NE	Garage	1970	14699
X	421m S	Garage	1992	15155
X	426m S	Garage	1994 - 1996	18377
AA	448m S	Garage	1978	17106



ID	Location	Land use	Dates present	Group ID
AA	448m S	Garage	1996	16452
AA	449m S	Garage	1992	16007

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

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2.1 Historical industrial land uses

Records within 500m

225

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 24**

ID	Location	Land Use	Date	Group ID
A	44m SW	Unspecified Pit	1932	776907
A	44m SW	Unspecified Pit	1915	780562
A	57m SW	Unspecified Pit	1907	735822

ID	Location	Land Use	Date	Group ID
B	68m W	Refuse Heap	1965	747081
B	68m W	Refuse Heap	1955	747081
C	68m SE	Refuse Heap	1891	764651
A	68m SW	Old Sand Pit	1891	682524
C	78m SE	Refuse Heap	1932	700937
C	78m SE	Unspecified Heap	1915	694519
C	78m SE	Unspecified Heap	1923	694519
C	78m SE	Sand Pit	1907	643927
A	121m SW	Unspecified Pit	1965	701911
A	121m SW	Unspecified Pit	1975	701911
A	121m SW	Unspecified Pit	1955	701911
A	121m SW	Unspecified Pit	1982	701911
A	123m SW	Unspecified Pit	1938	715744
E	125m NE	Unspecified Mills	1975	770443
E	125m NE	Unspecified Mills	1982	770443
A	125m SW	Sand Pits	1851	664414
F	138m N	Tram Depot	1907	749621
F	138m N	Tram Depot	1915	749621
F	138m N	Tram Depot	1923	749621
F	140m NW	Railway Sidings	1915	731445
F	140m NW	Railway Sidings	1923	731445
H	202m N	Colliery	1851	645241
I	217m E	Refuse Heap	1923	782394
I	217m E	Refuse Heap	1915	782394
J	221m S	Unspecified Heap	1965	782820
J	221m S	Unspecified Heap	1955	782820
E	224m NE	Unspecified Mills	1938	767272
E	226m NE	Unspecified Mills	1907	704156

ID	Location	Land Use	Date	Group ID
E	226m NE	Unspecified Mills	1923	704156
E	226m NE	Unspecified Mills	1932	704156
E	226m NE	Unspecified Mills	1915	704156
E	233m NE	Cotton Mills	1965	750222
E	233m NE	Cotton Mills	1955	750222
H	243m N	Unspecified Mill	1891	771543
H	245m N	Brick Works	1907	668968
H	247m N	Unspecified Disused Mill	1932	675755
H	248m N	Unspecified Mill	1907	784513
H	248m N	Unspecified Mill	1915	784513
H	248m N	Unspecified Mill	1923	784513
J	251m S	Unspecified Pit	1891	690953
H	256m N	Refuse Heap	1891	745517
E	257m N	Unspecified Mill	1938	722171
1	259m SW	Unspecified Pit	1907	690954
H	260m N	Refuse Heap	1975	745517
E	267m N	Unspecified Mills	1975	768583
K	269m NE	Old Clay Pit	1891	640054
E	286m NE	Unspecified Tank	1965	674852
M	309m NW	Unspecified Mill	1891	731726
H	310m N	Unspecified Pits	1938	659182
N	314m NE	Unspecified Mill	1938	707869
O	317m NW	Unspecified Mill	1907	766528
O	317m NW	Unspecified Mill	1932	775358
O	317m NW	Unspecified Mill	1915	766528
O	317m NW	Unspecified Mill	1923	775358
H	321m N	Unspecified Tanks	1938	764392
H	322m N	Unspecified Tanks	1932	764392

ID	Location	Land Use	Date	Group ID
H	324m N	Unspecified Ground Workings	1955	728739
K	335m NE	Unspecified Ground Workings	1915	787453
K	335m NE	Unspecified Ground Workings	1907	787453
K	335m NE	Unspecified Ground Workings	1923	787453
N	335m NE	Unspecified Mill	1932	701760
N	337m NE	Unspecified Mill	1915	694640
N	337m NE	Unspecified Mill	1907	694640
N	337m NE	Unspecified Mill	1923	694640
M	339m NW	Refuse Heap	1923	735963
N	339m NE	Unspecified Mill	1975	743249
N	339m NE	Cotton Mill	1965	745012
N	339m NE	Cotton Mill	1955	745012
N	339m NE	Unspecified Mill	1982	743249
P	339m SW	Colour Works	1891	657670
O	342m NW	Unspecified Mill	1938	703837
M	346m NW	Refuse Heap	1932	752241
M	346m NW	Refuse Heap	1915	711068
E	353m NE	Refuse Heap	1923	767025
E	354m NE	Refuse Heap	1938	763384
E	356m NE	Refuse Heap	1932	767025
Q	356m NW	Unspecified Mill	1891	747984
Q	361m N	Unspecified Disused Mill	1907	675754
H	362m N	Unspecified Ground Workings	1965	728739
T	365m W	Unspecified Ground Workings	1955	722346
U	366m SW	Unspecified Works	1975	704845
U	368m SW	Unspecified Works	1982	704845
2	370m N	Mills	1851	655367
E	373m NE	Refuse Heap	1938	784249



ID	Location	Land Use	Date	Group ID
E	373m NE	Refuse Heap	1923	737189
E	374m NE	Unspecified Tank	1965	674853
E	375m NE	Unspecified Mill	1932	738501
P	375m SW	Unspecified Pit	1982	733977
P	376m SW	Unspecified Pit	1975	699573
P	376m SW	Unspecified Pit	1965	699573
P	376m SW	Unspecified Pit	1955	699573
E	376m NE	Refuse Heap	1932	748999
E	376m NE	Refuse Heap	1915	767192
E	376m NE	Unspecified Mill	1915	721557
E	377m NE	Cotton Mill	1965	711261
E	379m NE	Unspecified Mill	1907	704509
E	379m NE	Unspecified Mill	1923	738501
V	382m SW	Railway Sidings	1938	782959
V	382m SW	Railway Sidings	1965	770956
V	382m SW	Railway Sidings	1955	770956
V	383m SW	Railway Sidings	1891	733164
W	383m NW	Unspecified Mill	1907	740866
W	383m NW	Unspecified Mill	1923	787776
T	385m W	Unspecified Ground Workings	1975	766285
T	385m W	Unspecified Ground Workings	1965	766285
T	385m W	Unspecified Ground Workings	1982	766285
W	386m NW	Industrial Estate	1982	652323
V	386m SW	Railway Sidings	1907	790281
V	386m SW	Railway Sidings	1932	694896
V	386m SW	Railway Sidings	1915	790281
V	386m SW	Railway Sidings	1923	730100
M	387m NW	Refuse Heap	1975	733131



ID	Location	Land Use	Date	Group ID
M	387m NW	Refuse Heap	1982	733131
W	388m NW	Unspecified Mill	1932	725038
W	388m NW	Unspecified Mill	1915	728279
W	388m NW	Cotton Spinning Mills	1965	730574
W	388m NW	Cotton Spinning Mills	1955	730574
E	389m NE	Unspecified Mill	1975	744997
E	389m NE	Unspecified Mill	1982	744997
P	389m SW	Unspecified Pit	1932	767803
P	389m SW	Unspecified Pit	1915	718574
P	389m SW	Unspecified Pits	1907	659206
M	389m NW	Dye Works	1932	751038
M	389m NW	Dye Works	1915	725132
M	389m NW	Dye Works	1907	725132
M	389m NW	Dye Works	1923	728542
W	389m NW	Unspecified Mill	1938	725038
W	390m NW	Unspecified Mill	1975	780776
E	393m NE	Cotton Mill	1955	711261
M	394m W	Unspecified Works	1975	700527
M	394m W	Unspecified Works	1982	700527
M	394m NW	Unspecified Heap	1965	747583
M	394m NW	Unspecified Heap	1955	747583
M	395m W	Unspecified Works	1965	728388
X	401m E	Unspecified Pit	1907	690951
Y	405m N	Unspecified Ground Workings	1932	724588
Y	405m N	Unspecified Ground Workings	1915	694895
Z	407m SW	Unspecified Mills	1932	706439
Z	407m SW	Unspecified Mill	1915	657176
3	409m N	Unspecified Ground Workings	1965	764289



ID	Location	Land Use	Date	Group ID
Z	411m SW	Unspecified Mills	1965	743789
Z	414m SW	Unspecified Mills	1923	711355
E	414m NE	Unspecified Tank	1938	744695
Z	415m SW	Unspecified Mills	1907	749407
E	416m NE	Unspecified Tank	1932	706338
E	416m NE	Unspecified Tank	1915	706338
E	416m NE	Unspecified Tank	1907	706338
E	416m NE	Unspecified Tank	1923	706338
Z	416m SW	Unspecified Mills	1938	706439
Z	417m SW	Unspecified Mills	1965	757477
U	419m SW	Unspecified Mill	1982	706399
U	419m SW	Unspecified Mill	1975	706399
U	419m SW	Cotton Mill	1965	644494
4	420m N	Clay Pit	1907	676033
E	421m NE	Chimney	1975	726144
E	421m NE	Unspecified Tank	1965	744690
E	421m NE	Chimney	1982	726144
E	423m N	Unspecified Ground Workings	1932	737779
M	427m W	Print Works	1851	680240
U	427m SW	Unspecified Mill	1938	696427
5	428m W	Unspecified Mill	1891	657175
U	430m SW	Unspecified Mill	1932	715030
U	430m SW	Unspecified Mill	1915	705338
6	431m E	Unspecified Works	1982	727410
X	434m E	Refuse Heap	1923	747966
AB	434m S	Cuttings	1938	708495
U	435m SW	Unspecified Mill	1923	707554
X	436m NE	Unspecified Ground Workings	1965	722083



ID	Location	Land Use	Date	Group ID
X	436m NE	Unspecified Ground Workings	1955	722083
N	439m NE	Chimney	1975	744312
N	439m NE	Unspecified Tank	1965	674851
N	439m NE	Chimney	1982	744312
AB	439m S	Cuttings	1891	698913
AB	439m S	Cuttings	1923	760243
AB	439m S	Cuttings	1932	760243
AB	439m S	Cuttings	1915	760243
AB	439m S	Cuttings	1907	760243
Z	440m SW	Unspecified Mills	1891	707980
AC	441m SW	Unspecified Mill	1907	781756
E	443m NE	Unspecified Ground Workings	1938	708837
N	448m NE	Refuse Heap	1923	723284
X	451m E	Unspecified Ground Workings	1932	745011
E	452m NE	Unspecified Heap	1965	650944
X	452m E	Refuse Heap	1915	747966
AA	455m SW	Unspecified Tank	1975	718672
AA	455m SW	Unspecified Tank	1965	718672
AA	455m SW	Unspecified Tank	1982	718672
N	458m NE	Refuse Heap	1915	723284
AE	461m S	Unspecified Heap	1938	757055
V	464m W	Unspecified Depot	1975	779842
AE	465m S	Unspecified Ground Workings	1932	729882
AE	465m S	Unspecified Ground Workings	1915	735626
AE	465m S	Unspecified Ground Workings	1907	735626
AF	467m W	Unspecified Pit	1965	754712
AF	467m W	Unspecified Pit	1982	767999
AE	469m S	Unspecified Heap	1923	767131



ID	Location	Land Use	Date	Group ID
AH	470m N	Refuse Heap	1915	678063
AH	470m N	Unspecified Heap	1923	650943
AH	470m N	Sand Pit	1907	643933
AH	473m N	Unspecified Ground Workings	1932	648224
Z	474m SW	Unspecified Mills	1938	753017
Z	475m SW	Unspecified Mills	1932	753017
AF	476m W	Refuse Heap	1915	734944
AF	476m W	Sand Pit	1907	643934
Z	476m SW	Unspecified Commercial/Industrial	1915	739948
Z	476m SW	Unspecified Commercial/Industrial	1923	739948
AF	478m W	Unspecified Ground Workings	1932	648229
AF	479m W	Refuse Heap	1923	734944
N	481m NE	Sand Pit	1955	643930
Z	482m SW	Unspecified Works	1982	679092
AI	483m N	Unspecified Pit	1938	718200
V	484m W	Unspecified Depot	1982	779842
AI	485m N	Unspecified Pit	1923	725182
N	485m NE	Unspecified Heap	1938	650941
N	486m NE	Unspecified Ground Workings	1932	648228
AI	487m N	Unspecified Ground Workings	1932	775962
AI	487m N	Unspecified Ground Workings	1915	754527
AJ	488m SW	Unspecified Works	1975	698056
AJ	488m SW	Unspecified Works	1965	698056
AJ	488m SW	Unspecified Works	1982	698056
X	496m NE	Unspecified Heap	1938	650945
X	498m NE	Unspecified Ground Workings	1932	720536

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

59

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 24**

ID	Location	Land Use	Date	Group ID
H	252m N	Tanks	1909	87834
H	256m N	Tanks	1909	87835
H	260m N	Tanks	1932	87837
H	264m N	Tanks	1909	87836
H	270m N	Tanks	1953	95856
H	271m N	Tanks	1970	95856
H	271m N	Tanks	1953	95856
H	318m N	Tanks	1909	103692
H	318m N	Tanks	1922	100405
H	318m N	Tanks	1932	100405
E	365m NE	Unspecified Tank	1922	84614
E	366m NE	Tanks	1953	92386
E	366m NE	Tanks	1953	92386
E	369m NE	Unspecified Tank	1932	84612
E	375m NE	Unspecified Tank	1922	100743
E	375m NE	Unspecified Tank	1932	100743
E	376m NE	Tanks	1932	87848
E	378m NE	Unspecified Tank	1953	101772
E	379m NE	Unspecified Tank	1953	101772
E	385m NE	Unspecified Tank	1953	98931
E	385m NE	Unspecified Tank	1953	98931
E	389m NE	Tanks	1953	94713
E	389m NE	Tanks	1953	94713



ID	Location	Land Use	Date	Group ID
E	390m NE	Tanks	1990	89183
E	391m NE	Unspecified Tank	1922	84613
E	391m NE	Tanks	1932	87847
E	398m NE	Unspecified Tank	1990	84641
E	400m NE	Tanks	1984	102113
E	400m NE	Tanks	1990	102113
E	400m NE	Tanks	1970	102113
E	402m NE	Unspecified Tank	1984	104056
E	402m NE	Unspecified Tank	1953	91631
E	402m NE	Unspecified Tank	1970	104056
E	402m NE	Unspecified Tank	1953	91631
E	403m NE	Unspecified Tank	1922	88827
E	403m NE	Unspecified Tank	1932	88827
E	413m NE	Unspecified Tank	1953	101193
E	414m NE	Unspecified Tank	1953	101193
AA	453m SW	Unspecified Tank	1954	84619
E	458m NE	Unspecified Tank	1984	89055
E	458m NE	Unspecified Tank	1970	89055
E	458m NE	Unspecified Tank	1990	89055
AA	459m SW	Unspecified Tank	1954	84620
AG	469m NW	Unspecified Tank	1996	98436
AG	469m NW	Unspecified Tank	1995	98436
U	469m SW	Tanks	1983	92441
U	469m SW	Tanks	1973	95184
U	469m SW	Tanks	1973	89126
U	469m SW	Tanks	1983	100931
N	471m NE	Tanks	1984	91509
N	471m NE	Tanks	1970	91509



ID	Location	Land Use	Date	Group ID
N	471m NE	Tanks	1990	91509
N	479m NE	Unspecified Tank	1970	93644
N	479m NE	Unspecified Tank	1990	93644
N	479m NE	Unspecified Tank	1984	93644
M	486m W	Unspecified Tank	1922	84640
AC	497m SW	Unspecified Tank	1967	103547
AC	497m SW	Unspecified Tank	1954	103547
AC	497m SW	Unspecified Tank	1954	103621

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

42

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 24**

ID	Location	Land Use	Date	Group ID
D	76m NW	Electricity Substation	1954	57921
D	76m NW	Electricity Substation	1954	47646
D	76m NW	Electricity Substation	1967	47646
D	77m NW	Electricity Substation	1995	57921
D	77m NW	Electricity Substation	1993	57921
D	77m NW	Electricity Substation	1996	57921
D	77m NW	Electricity Substation	1994	57921
D	77m NW	Electricity Substation	1992	47646
D	77m NW	Electricity Substation	1992	47646
H	276m N	Electricity Substation	1990	50179
H	276m N	Electricity Substation	1970	50179
H	278m N	Electricity Substation	1984	52259



ID	Location	Land Use	Date	Group ID
L	303m S	Electricity Substation	1993	45625
L	305m SE	Electricity Substation	1989	53560
L	305m SE	Electricity Substation	1991	53560
E	330m NE	Electricity Substation	1990	45623
E	338m NE	Electricity Substation	1990	45621
E	347m NE	Electricity Substation	1984	52440
E	348m NE	Electricity Substation	1970	52440
R	364m SE	Electricity Substation	1989	49369
R	364m SE	Electricity Substation	1991	49369
R	364m SE	Electricity Substation	1968	49369
R	364m SE	Electricity Substation	1953	49369
S	365m E	Electricity Substation	1984	55108
R	365m SE	Electricity Substation	1953	49369
R	365m SE	Electricity Substation	1967	49369
R	365m SE	Electricity Substation	1993	49369
S	366m E	Electricity Substation	1970	52199
S	366m E	Electricity Substation	1990	52199
M	394m W	Electricity Substation	1995	49484
M	394m W	Electricity Substation	1996	49484
M	394m W	Electricity Substation	1993	49484
M	394m W	Electricity Substation	1994	49484
M	395m W	Electricity Substation	1967	49484
M	396m W	Electricity Substation	1992	49484
M	396m W	Electricity Substation	1992	49484
U	401m SW	Electricity Substation	1996	50627
U	402m SW	Electricity Substation	1983	50627
U	402m SW	Electricity Substation	1991	50627
U	402m SW	Electricity Substation	1991	50627

ID	Location	Land Use	Date	Group ID
U	402m SW	Electricity Substation	1991	50627
N	432m NE	Electricity Substation	1990	45622

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

10

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 24**

ID	Location	Land Use	Date	Group ID
G	156m NE	Garage	1990	17971
G	170m E	Garage	1984	15681
G	171m E	Garage	1970	17971
K	355m NE	Garage	1970	14699
AA	421m S	Garage	1992	15155
AA	426m S	Garage	1996	18377
AA	426m S	Garage	1994	18377
AD	448m S	Garage	1978	17106
AD	448m S	Garage	1996	16452
AD	449m S	Garage	1992	16007

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

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

3

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

Features are displayed on the Waste and landfill map on **page 38**

ID	Location	Site address	Source	Data type
3	305m N	Refuse Tip	1970 mapping	Polygon
5	399m NW	Refuse Tip	1967 mapping	Polygon
7	457m S	Refuse Tip	1963 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

3

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

Features are displayed on the Waste and landfill map on **page 38**

ID	Location	Details		
1	154m E	Site Address: Morton Pits, Oldham Road, Higher Boarshaw, Middleton, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D109 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
4	397m S	Site Address: Former Railway Cutting, Sedgley Street, Moorclose, Middleton, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D074 Waste Type: Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Borough of Middleton (Public Health and Cleansing Department) Licence Holder: - First Recorded 31/05/1972 Last Recorded: -

ID	Location	Details		
6	419m SW	Site Address: Former Times Mill, Grimshaw Lane, Moorclose, Middleton, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: D099 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	0
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Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m	2
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

Features are displayed on the Waste and landfill map on **page 38**

ID	Location	Details		
E	377m SW	Site Name: Peel Waste Limited Site Address: Peel Waste Limited, Grimshaw Lane, Middleton, Manchester, M24 2AE Correspondence Address: -	Type of Site: 75kte HCl Waste TS + treatment Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PEE011 EPR reference: EA/EPR/NB3732RM/A001 Operator: Peel Waste Limited Waste Management licence No: 400109 Annual Tonnage: 74999	Issue Date: 26/03/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

ID	Location	Details		
E	377m SW	Site Name: Peel Waste Limited Site Address: Peel Waste Limited, Grimshaw Lane, Middleton, Manchester, M24 2AE Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PEE011 EPR reference: EA/EPR/NB3732RM/A001 Operator: Peel Waste Limited Waste Management licence No: 400109 Annual Tonnage: 74999	Issue Date: 26/03/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

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

3.7 Waste exemptions

Records within 500m	18
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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 38**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	194m NE	Soudan Street Middleton M24 2DB	EPR/UE5244V A/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	194m NE	Soudan Street Middleton M24 2DB	EPR/UE5244V A/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
A	194m NE	Soudan Street Middleton M24 2DB	EPR/UE5244V A/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	250m NE	Vita Cellular Foam Ltd Oldham Road MANCHESTER M24 2DB	EPR/ZF0304M T/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
B	250m NE	Vitafoam, Soudan street, Middleton, M24 2DB	WEX153034	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
B	250m NE	Vita Group, Oldham Road, Middleton, M24 2DB	WEX097687	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)



ID	Location	Site	Reference	Category	Sub-Category	Description
B	250m NE	Vita Group, Oldham Road, Middleton, M242DB	WEX097674	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	250m NE	-	WEX287926	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
B	250m NE	Vitafoam, Soudan Street, Middleton, M24 2DB	WEX223154	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	250m NE	Vita Cellular Foams (UK) Limited is located off Oldham Road in Middleton in the county of Greater Manchester. An area is a mixture of industrial, warehousing, shopping, and residential properties. Polyurethane foam is manufactured on the site which co	WEX270348	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	295m NE	Vita Cellular Foam Ltd Oldham Road MANCHESTER M24 2DB	EPR/KE5848V M/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
C	295m NE	Vita Cellular Foam Ltd Oldham Road MANCHESTER M24 2DB	EPR/KE5848V M/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
C	295m NE	Vita Cellular Foam Ltd Oldham Road MANCHESTER M24 2DB	EPR/KE5848V M/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
2	304m NE	Vitafoam Soudan Street MANCHESTER M24 2DB	EPR/VE5444EX /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste to manufacture finished goods
D	377m SW	unit 3, saxon street, midalton, m242ad	WEX143145	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	377m SW	unit 3, saxon street, midalton, m242ad	WEX143145	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
F	387m NE	DON STREET MIDDLETON MANCHESTER M24 2GG	EPR/JF0831DE /A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste to manufacture finished goods
F	398m NE	DON STREET, MIDDLETON, MANCHESTER, M24 2GG	WEX098422	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods



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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- Historical licensed industrial activities
- Part A(1) industrial activities
- ◆ 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

5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Company	Address	Activity	Category
A	82m NW	Electricity Sub Station	Greater Manchester, M24	Electrical Features	Infrastructure and Facilities
A	128m NW	homebrewk its.co.uk	329, Oldham Road, Middleton, Greater Manchester, M24 2DN	Hobby, Sports and Pastime Products	Consumer Products

ID	Location	Company	Address	Activity	Category
2	185m W	Middleton Ambulance Station	Greater Manchester, M24	Ambulance and Medical Transportation Services	Health Support Services
3	219m SE	Electricity Sub Station	Greater Manchester, M24	Electrical Features	Infrastructure and Facilities
B	230m NE	Chimney	Greater Manchester, M24	Chimneys	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

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

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Company	Address	LPG	Status
C	215m NE	UNBRANDED	408, Oldham Road, Middleton, Manchester, Greater Manchester, M24 2FA	Not Applicable	Obsolete

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
----------------------------	----------

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

1

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.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Company	Address	Operational status	Tier
B	107m NE	Vita Cellular Foams (UK) Limited	Vita Cellular Foams (UK) Limited, Manchester, Oldham Road/Soudan Street, Middleton, Manchester, Greater Manchester, M24 2DB	Current COMAH Site	COMAH Upper Tier Operator

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

1

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.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Details	
B	310m NE	Application reference number: 99/D37049 Application status: Approved Application date: 19/10/1999 Address: Vita Cellualr Foam (UK) Ltd, Soudan Street, Middleton, Manchester, Lancashire, England, M24 2DB	Details: Application for Hazardous Substances Consent (Deemed Consent). Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

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

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.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Details	
D	266m NE	Operator: Vitafoam Ltd Address: Block Plant Department, Soudan Street, Middleton, Manchester, M24 2DB Process: Di-isocyanate Processes Permit Number: AU7818	Original Permit Number: IPCAIRAPP Date Approved: 26-3-1998 Effective Date: 30-3-1998 Status: Superseded By Variation
D	266m NE	Operator: Vitafoam Ltd Address: Block Plant Department, Soudan Street, Middleton, Manchester, M24 2DB Process: Di-isocyanate Processes Permit Number: BD4716	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Revoked - Now Ippc

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	8
----------------------------	----------

Records of Part A(1) 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 44**

ID	Location	Details	
B	249m NE	Operator: VITA CELLULAR FOAMS (UK) LIMITED Installation Name: BOLLINGTON FOAM PRODUCTION PLANT Process: ORGANIC CHEMICALS; TOLUENE DI-ISOCYANATE ETC USE >1 T/12 MONTHS IF RELEASE TO AIR Permit Number: BS3123IX Original Permit Number: BS3123IX	EPR Reference: - Issue Date: 10/10/2006 Effective Date: 10/10/2006 Last date noted as effective: 02/11/2022 Status: SUPERCEDED
B	249m NE	Operator: VITA CELLULAR FOAMS (UK) LIMITED Installation Name: BOLLINGTON FOAM PRODUCTION PLANT Process: ORGANIC CHEMICALS: USE OF >5T OF DIPHENYL MDI/OTHER DI-ISOCYANATE/PARTLY POLYMERISED DI-ISOCYANATES/PREPOLYMERS CONTAINING >5T OF THESE MONOMERS IN ANY 12MTH PERIOD RELEASE TO AIR OF DI-ISOCYANATE Permit Number: BS3123IX Original Permit Number: BS3123IX	EPR Reference: - Issue Date: 10/10/2006 Effective Date: 10/10/2006 Last date noted as effective: 02/11/2022 Status: SUPERCEDED
D	266m NE	Operator: VITAFOAM LTD Installation Name: MIDDLETON FOAM MANUFACTURING PLANT Process: ORGANIC CHEMICALS: USE OF >5T OF DIPHENYL MDI/OTHER DI-ISOCYANATE/PARTLY POLYMERISED DI-ISOCYANATES/PREPOLYMERS CONTAINING >5T OF THESE MONOMERS IN ANY 12MTH PERIOD RELEASE TO AIR OF DI-ISOCYANATE Permit Number: BS3271IT Original Permit Number: BS3271IT	EPR Reference: - Issue Date: 10/10/2006 Effective Date: 10/10/2006 Last date noted as effective: 02/11/2022 Status: SUPERCEDED
D	266m NE	Operator: VITAFOAM LTD Installation Name: MIDDLETON FOAM MANUFACTURING PLANT Process: ORGANIC CHEMICALS: USE OF >5T OF DIPHENYL MDI/OTHER DI-ISOCYANATE/PARTLY POLYMERISED DI-ISOCYANATES/PREPOLYMERS CONTAINING >5T OF THESE MONOMERS IN ANY 12MTH PERIOD RELEASE TO AIR OF DI-ISOCYANATE Permit Number: LP3533GW Original Permit Number: BS3271IT	EPR Reference: - Issue Date: 20/08/2008 Effective Date: 22/08/2008 Last date noted as effective: 02/11/2022 Status: SUPERCEDED
D	266m NE	Operator: VITA CELLULAR FOAMS (UK) LIMITED Installation Name: MIDDLETON FOAM MANUFACTURING PLANT Process: ORGANIC CHEMICALS; TOLUENE DI-ISOCYANATE ETC USE >1 T/12 MONTHS IF RELEASE TO AIR Permit Number: TP3139GU Original Permit Number: TP3139GU	EPR Reference: EA/EPR/TP3139GU/T001 Issue Date: 10/03/2009 Effective Date: 10/03/2009 Last date noted as effective: 01/04/2013 Status: TRANSFER EFFECTIVE



ID	Location	Details	
D	266m NE	Operator: VITA CELLULAR FOAMS (UK) LIMITED Installation Name: MIDDLETON FOAM MANUFACTURING PLANT Process: ORGANIC CHEMICALS: USE OF >5T OF DIPHENYL MDI/OTHER DI-ISOCYANATE/PARTLY POLYMERISED DI-ISOCYANATES/PREPOLYMERS CONTAINING >5T OF THESE MONOMERS IN ANY 12MTH PERIOD RELEASE TO AIR OF DI-ISOCYANATE Permit Number: TP3139GU Original Permit Number: TP3139GU	EPR Reference: EA/EPR/TP3139GU/T001 Issue Date: 10/03/2009 Effective Date: 10/03/2009 Last date noted as effective: 01/04/2013 Status: TRANSFER EFFECTIVE
D	266m NE	Operator: VITAFOAM LTD Installation Name: MIDDLETON FOAM MANUFACTURING PLANT Process: ORGANIC CHEMICALS; TOLUENE DI-ISOCYANATE ETC USE >1 T/12 MONTHS IF RELEASE TO AIR Permit Number: LP3533GW Original Permit Number: BS3271IT	EPR Reference: - Issue Date: 20/08/2008 Effective Date: 22/08/2008 Last date noted as effective: 02/11/2022 Status: SUPERCEDED
D	266m NE	Operator: VITAFOAM LTD Installation Name: MIDDLETON FOAM MANUFACTURING PLANT Process: ORGANIC CHEMICALS; TOLUENE DI-ISOCYANATE ETC USE >1 T/12 MONTHS IF RELEASE TO AIR Permit Number: BS3271IT Original Permit Number: BS3271IT	EPR Reference: - Issue Date: 10/10/2006 Effective Date: 10/10/2006 Last date noted as effective: 02/11/2022 Status: SUPERCEDED

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

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

Records within 500m	6
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Records of Part A(2) and Part B installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Address	Details	
C	208m NE	Morton Pits Service Station, Oldham Road, Middleton	Process: Unloading Petrol Into Storage At Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

ID	Location	Address	Details	
B	248m NE	Vita Cellular Foams (UK) Ltd, Oldham Road, Middleton, Manchester, M24 2DB	Process: Various Foam Processes Status: Historical Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
B	334m NE	Vitacom Ltd, Oldham Rd	Process: Rubber Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
6	427m SW	Cytec Industrial Materials Ltd (Formerly Advanced Composites Group), Grimshaw Lane, Middleton, Manchester, M24 2AA	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
7	452m NE	Vitec Composite Systems, Don Street, Middleton, Manchester, M24 2GG	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
9	494m NW	Milliken Chemical Elastomers, Hilton Fold Lane, Middleton, Manchester, M24 2HZ	Process: Rubber 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

1

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 44**

ID	Location	Address	Details	
5	362m NW	BILLINGTON BROS SWO, HILTON FOLD LANE, MIDDLETON, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991152 Permit Version: 1 Receiving Water: RIVER IRK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/10/1994 Revocation Date: 30/11/1994

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

3

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

Features are displayed on the Current industrial land use map on **page 44**

ID	Location	Details	
1	165m NE	Incident Date: 18/04/2003 Incident Identification: 152381 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Soot/Smuts	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
4	259m NW	Incident Date: 23/03/2001 Incident Identification: 830 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
8	486m S	Incident Date: 23/09/2001 Incident Identification: 32371 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

0

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

4.21 Pollution inventory radioactive waste

Records within 500m**0**

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 54**

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.



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

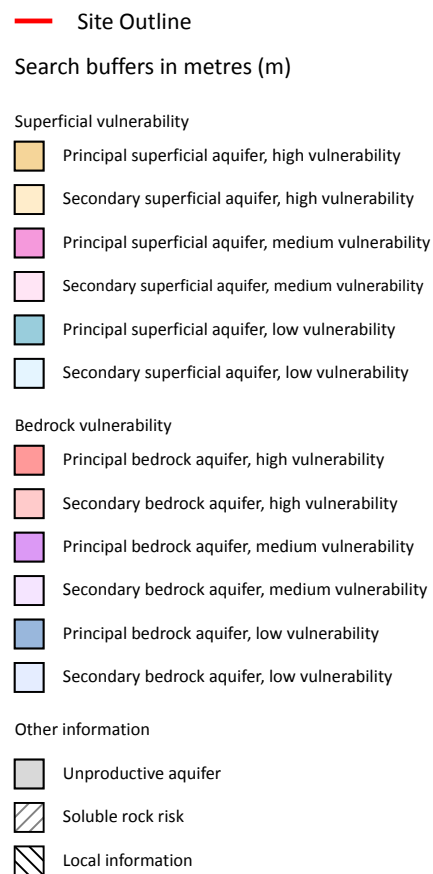
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 55**

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

4

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 56**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	29m N	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	33m NW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	49m NW	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

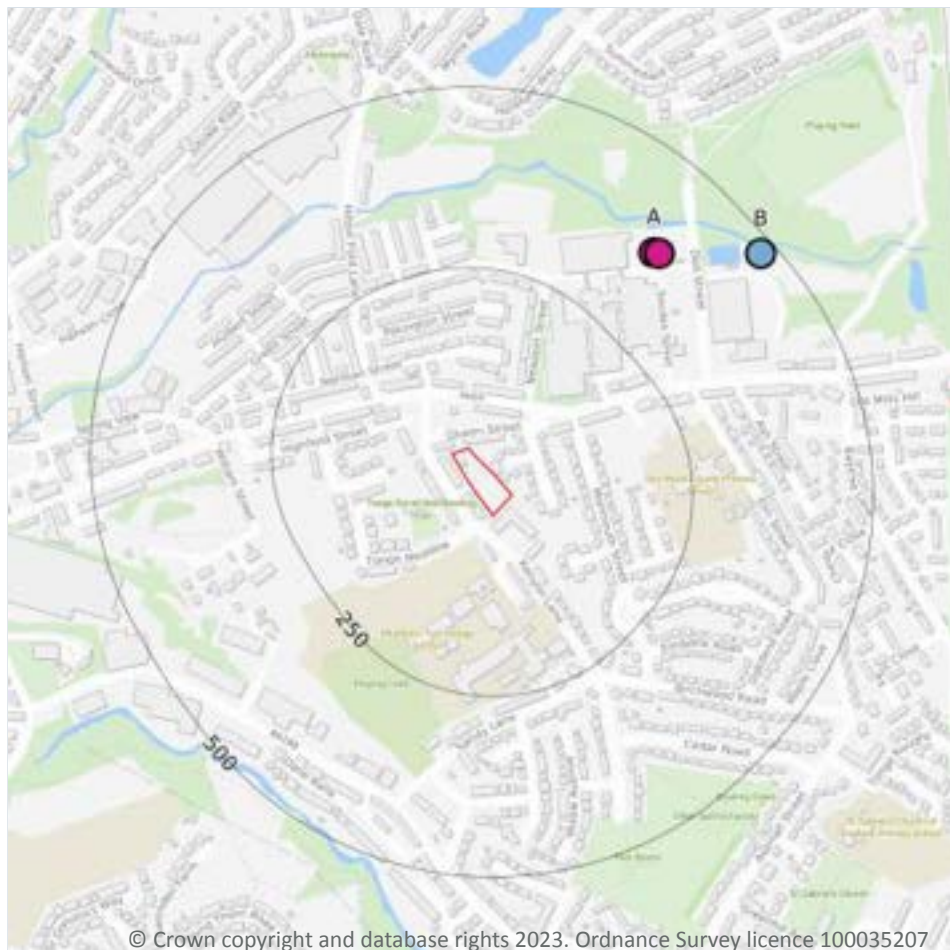
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

4

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 58**

ID	Location	Details	
A	373m NE	Status: Historical Licence No: 2569005001 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES DON MILL, DON STREET, MIDDLETON Data Type: Point Name: Vita Cellular Foams (UK) Limited trading as Vitafoam Limited Easting: 388312 Northing: 406242	Annual Volume (m ³): 545520 Max Daily Volume (m ³): 2182.08 Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 29/04/2010 Version End Date: -
A	377m NE	Status: Historical Licence No: 2569005001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, DON MILL, DON STREET, MIDDLETON" Data Type: Point Name: VITACOM LTD Easting: 388320 Northing: 406240	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: 18/01/1966 Version End Date: -
A	377m NE	Status: Historical Licence No: 2569005001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, DON MILL, DON STREET, MIDDLETON Data Type: Point Name: EASTLAND COMPOUNDING LTD Easting: 388320 Northing: 406240	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 31/03/2004 Version End Date: -
A	377m NE	Status: Historical Licence No: 2569005001 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES DON MILL DON STREET MIDDLETON Data Type: Point Name: VITAFOAM LTD Easting: 388320 Northing: 406240	Annual Volume (m ³): 545520 Max Daily Volume (m ³): 2182.08 Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 01/01/2007 Version End Date: -

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



5.7 Surface water abstractions

Records within 2000m

6

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 58**

ID	Location	Details	
B	478m NE	Status: Historical Licence No: 2569005006 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "R IRK AT PREMISES, DON MILL, DON STREET, MIDDLETON" Data Type: Point Name: VITACOM LTD Easting: 388460 Northing: 406240	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: 23/11/1998 Version End Date: -
B	478m NE	Status: Historical Licence No: 2569005006 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: R IRK AT PREMISES, DON MILL, DON STREET, MIDDLETON Data Type: Point Name: EASTLAND COMPOUNDING LTD Easting: 388460 Northing: 406240	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 31/03/2004 Version End Date: -
-	1478m W	Status: Historical Licence No: 2569005035 Details: Boiler Feed Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE AT MIDDLETON, MANCHESTER(T)" Data Type: Point Name: ROBERT McBRIDE LTD Easting: 386600 Northing: 405600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/01/1995 Version End Date: -



ID	Location	Details	
-	1478m W	Status: Historical Licence No: 2569005035 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE AT MIDDLETON, MANCHESTER(T" Data Type: Point Name: ROBERT McBRIDE LTD Easting: 386600 Northing: 405600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/01/1995 Version End Date: -
-	1478m W	Status: Active Licence No: 2569005035 Details: Boiler Feed Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE AT MIDDLETON, MANCHESTER(T Data Type: Point Name: ROBERT McBRIDE LTD Easting: 386600 Northing: 405600	Annual Volume (m ³): 28,867 Max Daily Volume (m ³): 2,182.08 Original Application No: 1898 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -
-	1478m W	Status: Active Licence No: 2569005035 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE AT MIDDLETON, MANCHESTER(T Data Type: Point Name: ROBERT McBRIDE LTD Easting: 386600 Northing: 405600	Annual Volume (m ³): 28,867 Max Daily Volume (m ³): 2,182.08 Original Application No: 1898 Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2007 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

0

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

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



5.9 Source Protection Zones

Records within 500m**0**

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m**0**

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

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 63**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River	Irk (Source to Wince Brook)	GB112069061161	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 63**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	357m N	River	Irk (Source to Wince Brook)	GB112069061161	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 63**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	On site	Northern Manchester Carboniferous Aquifers	<u>GB41202G101800</u>	Poor	Poor	Good	2019

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m**0**

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

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

7.2 Historical Flood Events

Records within 250m**0**

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

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

7.3 Flood Defences

Records within 250m**0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0
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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
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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

Negligible

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.

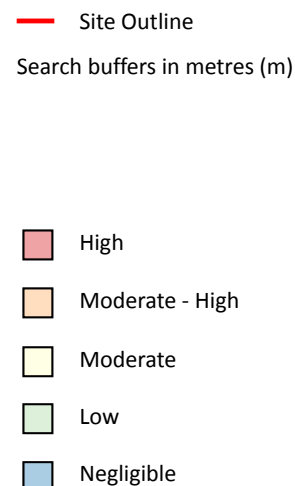
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the 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 Ambiental Risk Analytics.



9 Groundwater flooding



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 70**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 71**

ID	Location	Name	Data source
A	766m E	Rochdale Canal	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 71**

ID	Location	Name	Features of interest	Habitat description	Data source
A	766m E	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m

2

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

Features are displayed on the Environmental designations map on **page 71**

ID	Location	Name	Data source
2	1228m W	Alkrington Woods	Natural England
-	1394m N	Hopwood Woodlands	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

2

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

Features are displayed on the Environmental designations map on **page 71**

ID	Location	Name	Woodland Type
-	1748m N	Hopwood Clough	Ancient & Semi-Natural Woodland
-	1983m N	Hopwood Clough	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**2**

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

Features are displayed on the Environmental designations map on **page 71**

ID	Location	Name	Local Authority name
1	624m E	Merseyside and Greater Manchester	Oldham
B	919m NE	Merseyside and Greater Manchester	Rochdale

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



10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**2**

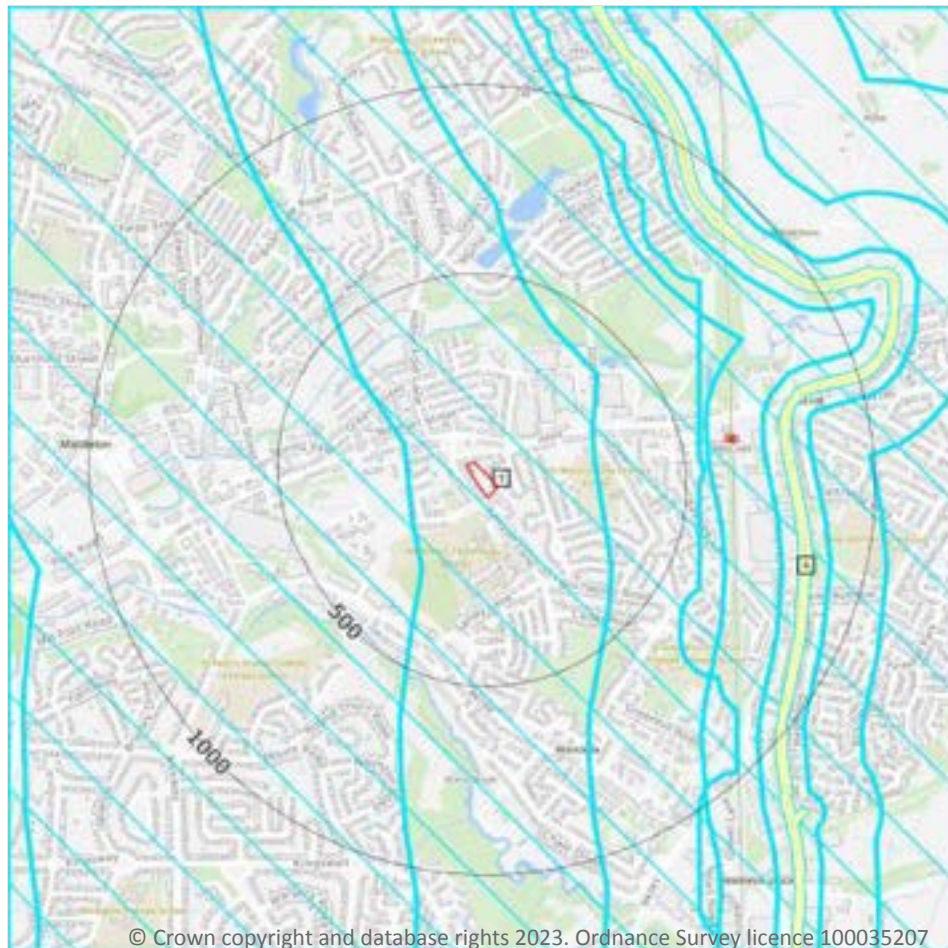
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
11m N	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 77**

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. any transport proposal including road, rail and by water (excluding routine maintenance). airports, helipads and other aviation proposals. 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. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply .

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	1
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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.

Features are displayed on the SSSI Impact Zones and Units map on **page 77**

ID: A
 Location: 766m E
 SSSI name: Rochdale Canal
 Unit name: Failsworth
 Broad habitat: Standing Open Water And Canals
 Condition: Unfavourable - Recovering
 Reportable features:

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

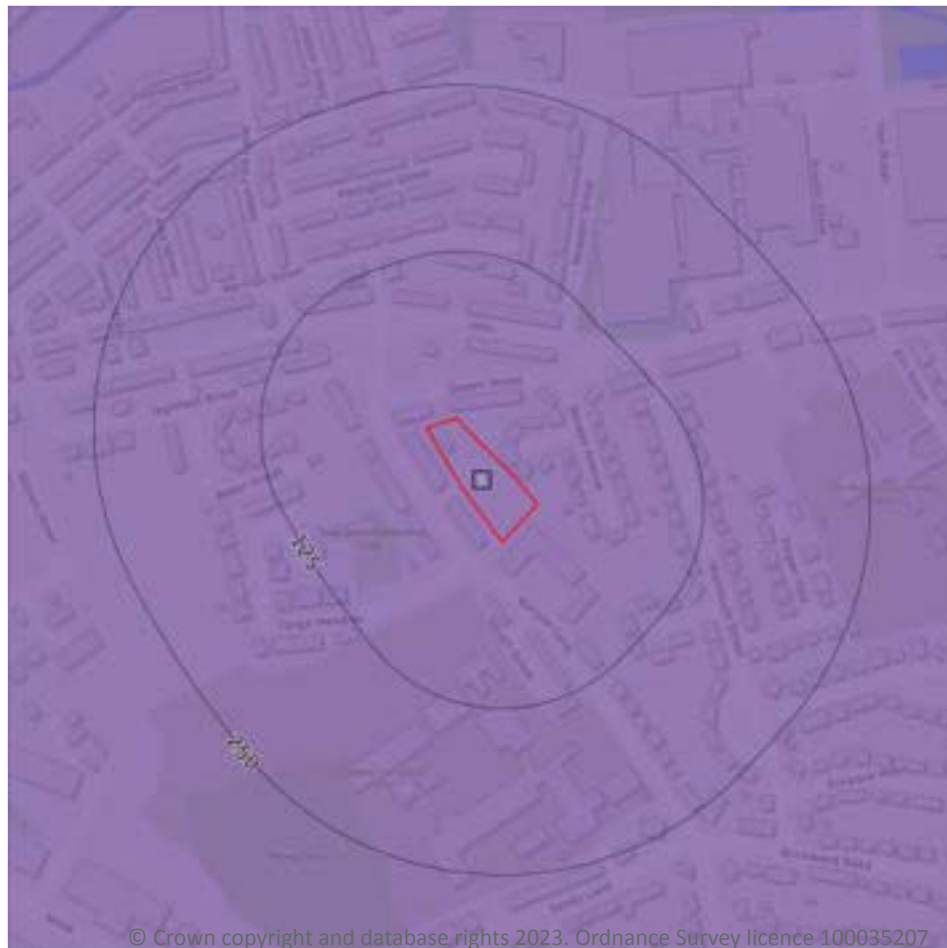
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

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 81**

ID	Location	Classification	Description
1	On site	Urban	-

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

13.1 Priority Habitat Inventory

Records within 250m

0

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

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 84**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD80NE

This data is sourced from the British Geological Survey.



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



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

14.2 Artificial and made ground (10k)

Records within 500m

17

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 85**

ID	Location	LEX Code	Description	Rock description
A	41m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	119m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	123m SW	WGR-VOID	Worked Ground (Undivided)	Void
B	190m NE	WGR-VOID	Worked Ground (Undivided)	Void

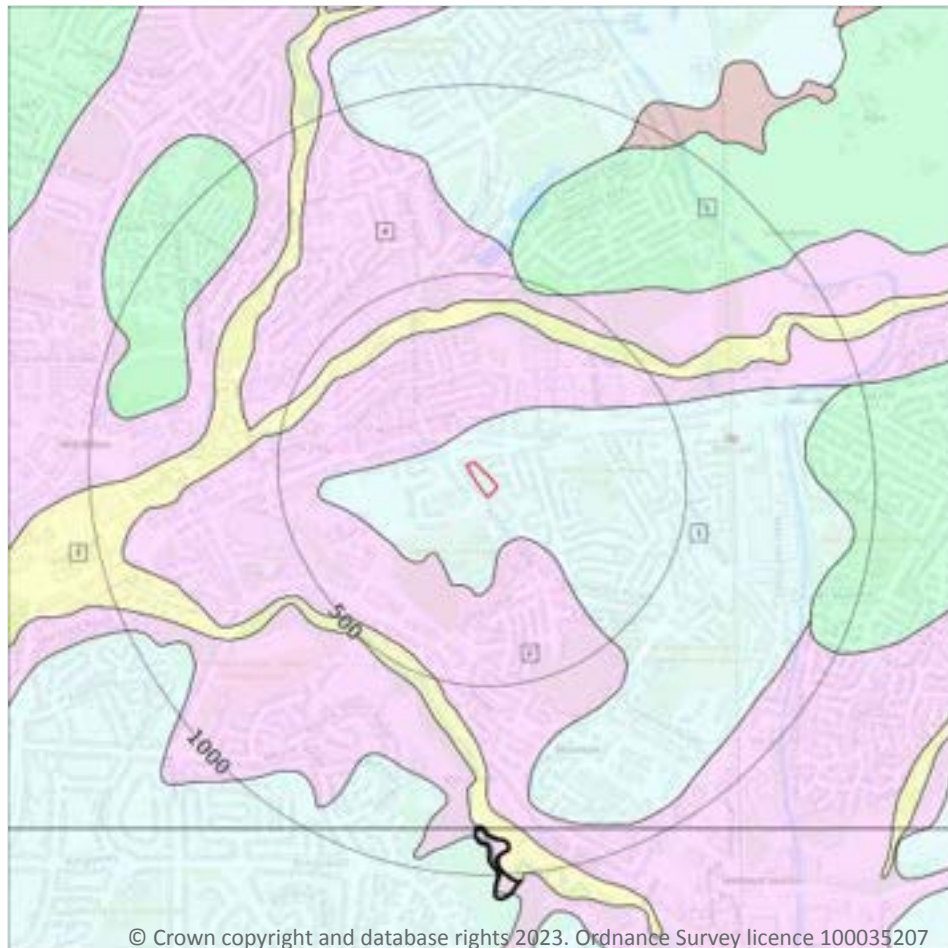


ID	Location	LEX Code	Description	Rock description
1	207m SW	WGR-VOID	Worked Ground (Undivided)	Void
2	280m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	289m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	324m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	328m NE	WGR-VOID	Worked Ground (Undivided)	Void
6	383m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	396m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	422m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	425m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	455m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	456m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	474m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	479m S	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



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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

5

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 87**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	78m NW	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	363m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel



ID	Location	LEX Code	Description	Rock description
4	412m N	GFSDDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
5	479m N	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

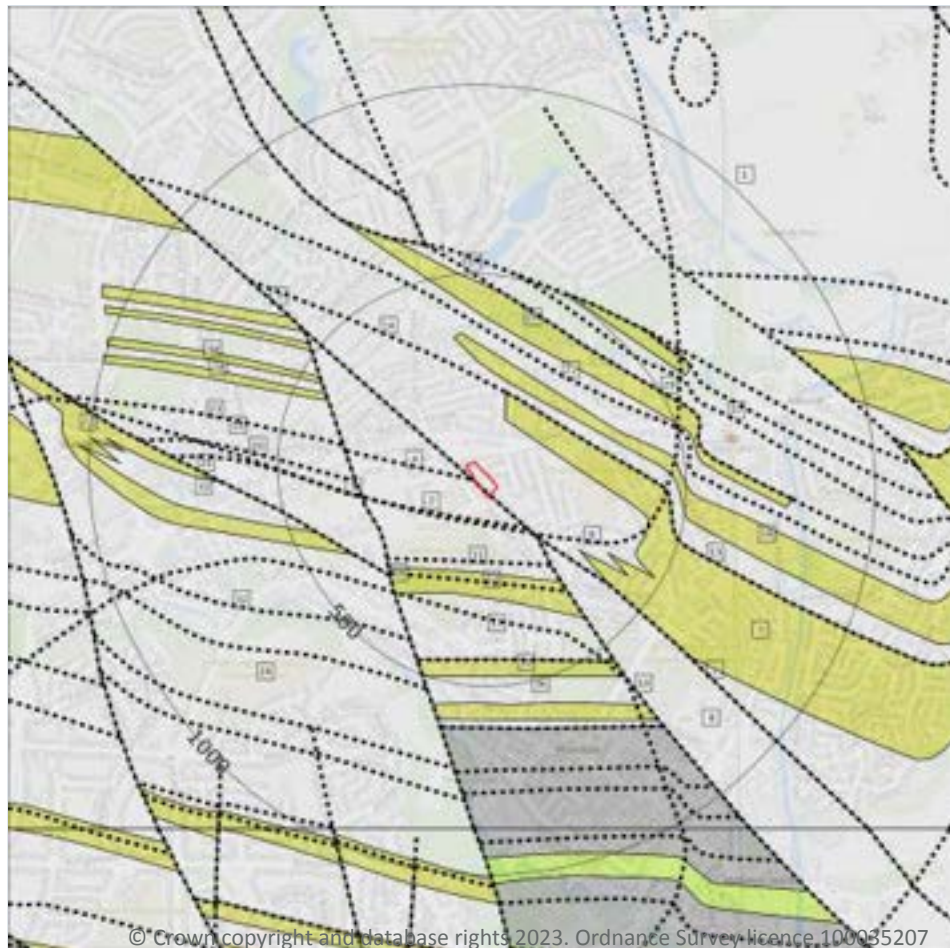
0

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

16

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 89**

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	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	139m N	BLR-SDST	Blenfire Rock - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
8	167m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	200m S	BLR-SDST	Blenfire Rock - Sandstone	Langsettian Sub-age
16	228m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
17	264m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
18	284m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
24	332m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	347m N	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
27	376m SW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
28	404m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
30	429m S	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
33	433m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
34	439m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
36	474m S	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

21

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 89**

ID	Location	Category	Description
3	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
4	6m W	ROCK	Coal seam, inferred
5	64m S	ROCK	Coal seam, inferred



ID	Location	Category	Description
6	73m S	LANDFORM	Buried channel or valley margin
9	167m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	167m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	171m S	FOSSIL_HORIZON	Fossil horizon, mussel band
13	202m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
14	203m N	ROCK	Coal seam, inferred
15	224m S	ROCK	Coal seam, inferred
19	284m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
20	297m W	ROCK	Coal seam, inferred
21	310m S	LANDFORM	Buried channel or valley margin
22	316m NE	ROCK	Coal seam, inferred
23	330m W	ROCK	Coal seam, inferred
25	332m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
29	418m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
31	429m S	ROCK	Coal seam, inferred coincident with bedrock geology boundary
32	430m SW	ROCK	Coal seam, inferred
35	455m N	ROCK	Coal seam, inferred
37	475m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 92**

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

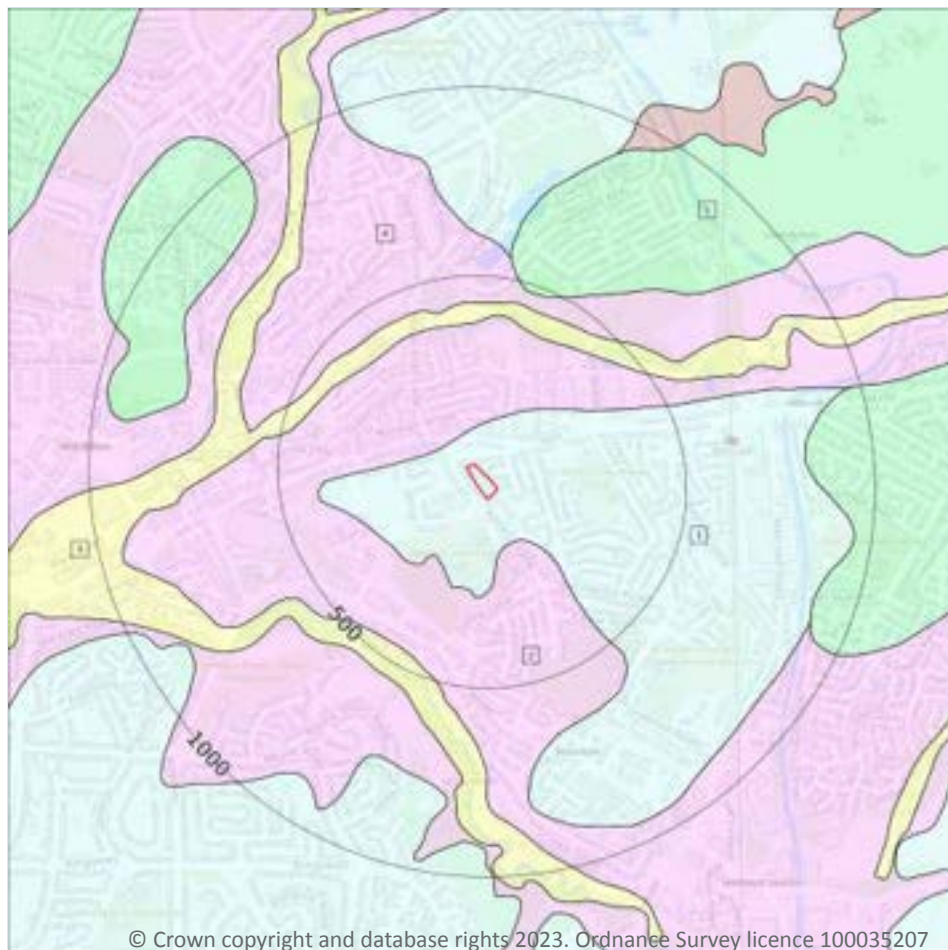
0

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

5

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 94**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
2	78m NW	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	372m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
4	412m N	GFSDDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
5	479m N	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON

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	Mixed	High	Low

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

14

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 96**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	138m N	BLR-SDST	BLENFIRE ROCK - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
8	167m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	200m S	BLR-SDST	BLENFIRE ROCK - SANDSTONE	WESTPHALIAN
14	228m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
15	264m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	285m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	332m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
24	347m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
25	375m SW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
27	429m S	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
30	433m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
32	474m S	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

18

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.

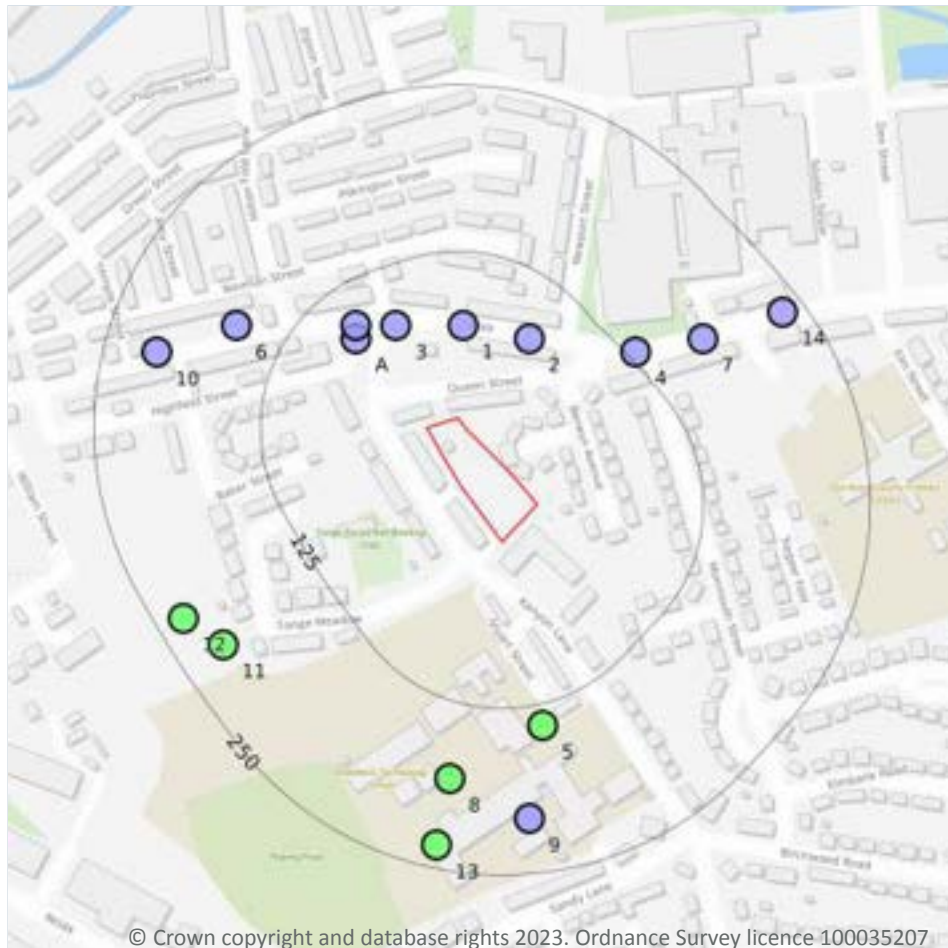
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 96**

ID	Location	Category	Description
3	On site	FAULT	Fault, inferred
4	5m W	ROCK	Coal seam, inferred
5	64m S	ROCK	Coal seam, inferred
6	73m S	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
9	167m SE	FAULT	Fault, inferred
10	167m SE	FAULT	Fault, inferred
12	202m N	ROCK	Coal seam, inferred
13	203m N	ROCK	Coal seam, inferred
17	285m SW	FAULT	Fault, inferred
18	296m W	ROCK	Coal seam, inferred
19	310m S	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
20	316m NE	ROCK	Coal seam, inferred
21	330m W	ROCK	Coal seam, inferred
23	332m SW	FAULT	Fault, inferred
26	418m NE	ROCK	Coal seam, inferred
28	429m S	ROCK	Coal seam, inferred
29	430m SW	ROCK	Coal seam, inferred
31	455m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

16

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 99**

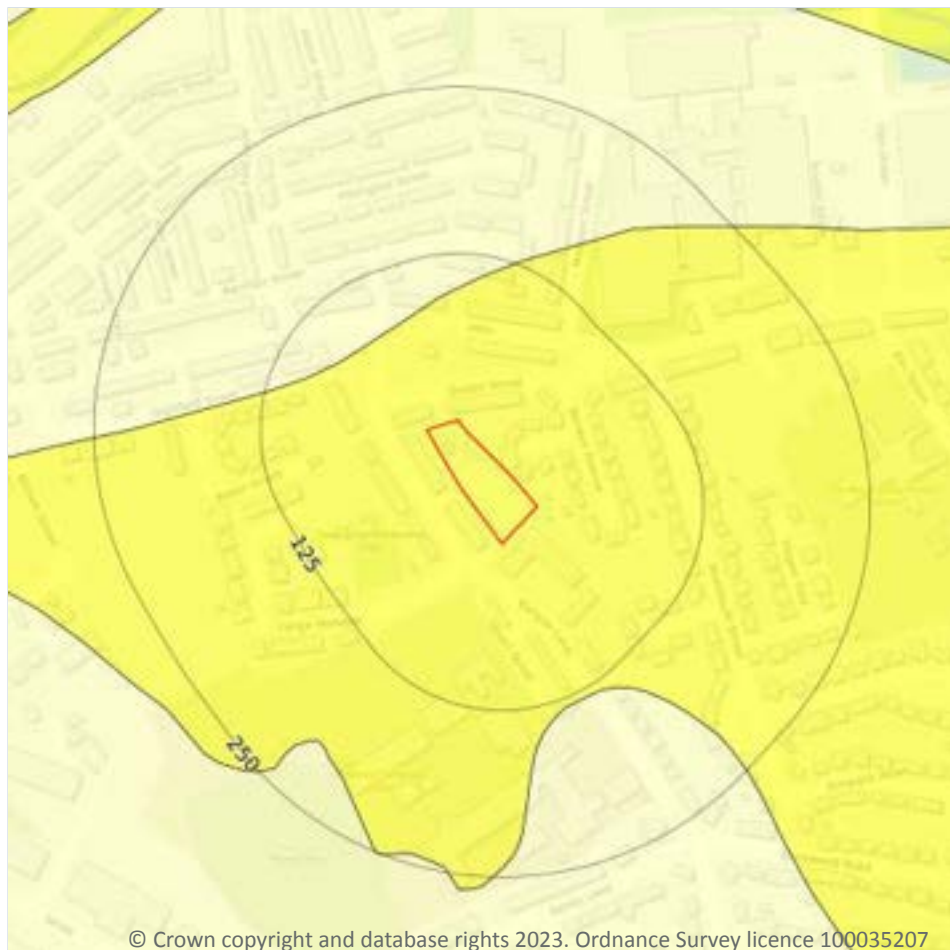
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	70m N	388060 406040	SEWER LINE MIDDLETON F	5.7	N	27007
2	80m N	388110 406030	SEWER LINE MIDDLETON E	5.0	N	27006
3	80m NW	388010 406040	SEWER LINE MIDDLETON G	6.1	N	27008

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	86m NW	387980 406030	SEWER LINE MIDDLETON HA	5.0	N	27010
A	94m NW	387980 406040	SEWER LINE MIDDLETON H	3.0	N	27009
4	131m NE	388190 406020	SEWER LINE MIDDLETON D	8.0	N	27005
5	141m S	388120 405740	MOORCLOSE HIGH SCHOOL 5	10.05	N	27129
6	163m NW	387890 406040	SEWER LINE MIDDLETON J	6.0	N	27011
7	175m NE	388240 406030	SEWER LINE MIDDLETON C	7.2	N	27004
8	182m S	388050 405700	MOORCLOSE HIGH SCHOOL 4	10.2	N	27128
9	208m S	388110 405670	MOORCLOSE HIGH SCHOOL 3	10.0	N	27127
10	211m W	387830 406020	SEWER LINE MIDDLETON K	7.0	N	27012
11	215m SW	387880 405800	TONGE HALL 1	10.1	N	27117
12	230m SW	387850 405820	TONGE HALL 2	10.5	N	27118
13	233m S	388040 405650	MOORCLOSE HIGH SCHOOL 1	10.05	N	27125
14	234m NE	388300 406050	SEWER LINE MIDDLETON B	7.0	N	27003

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

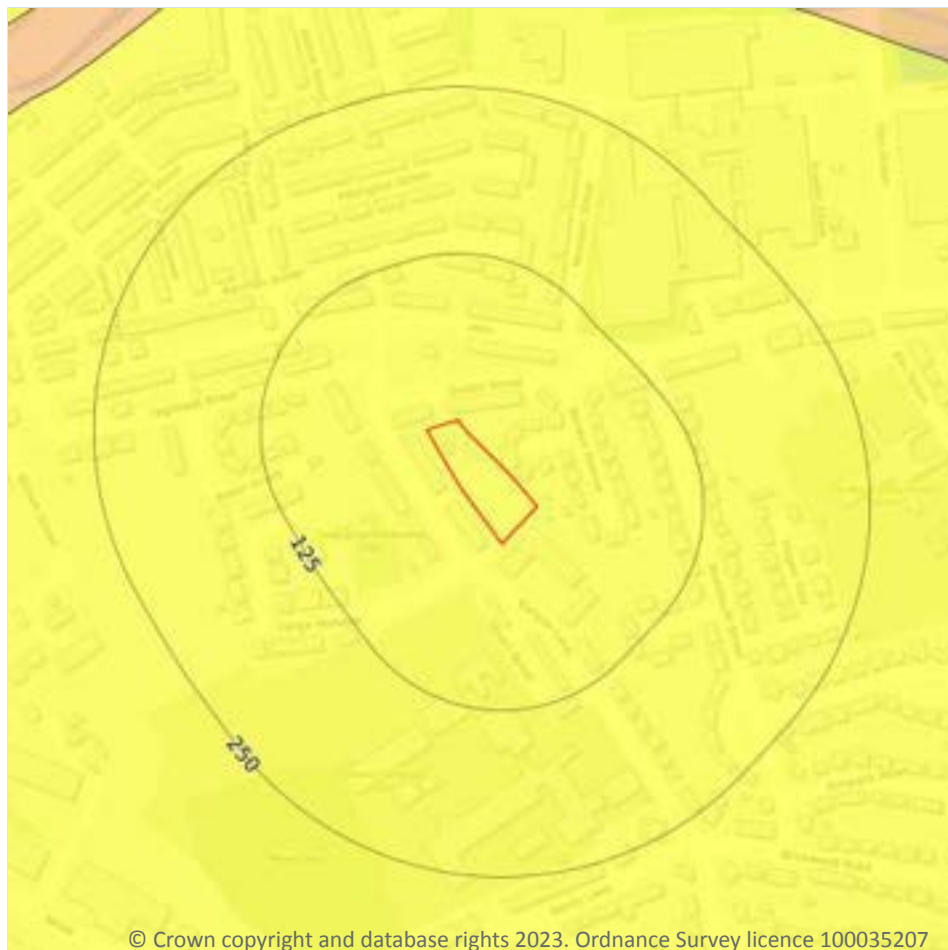
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 101**

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

1

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

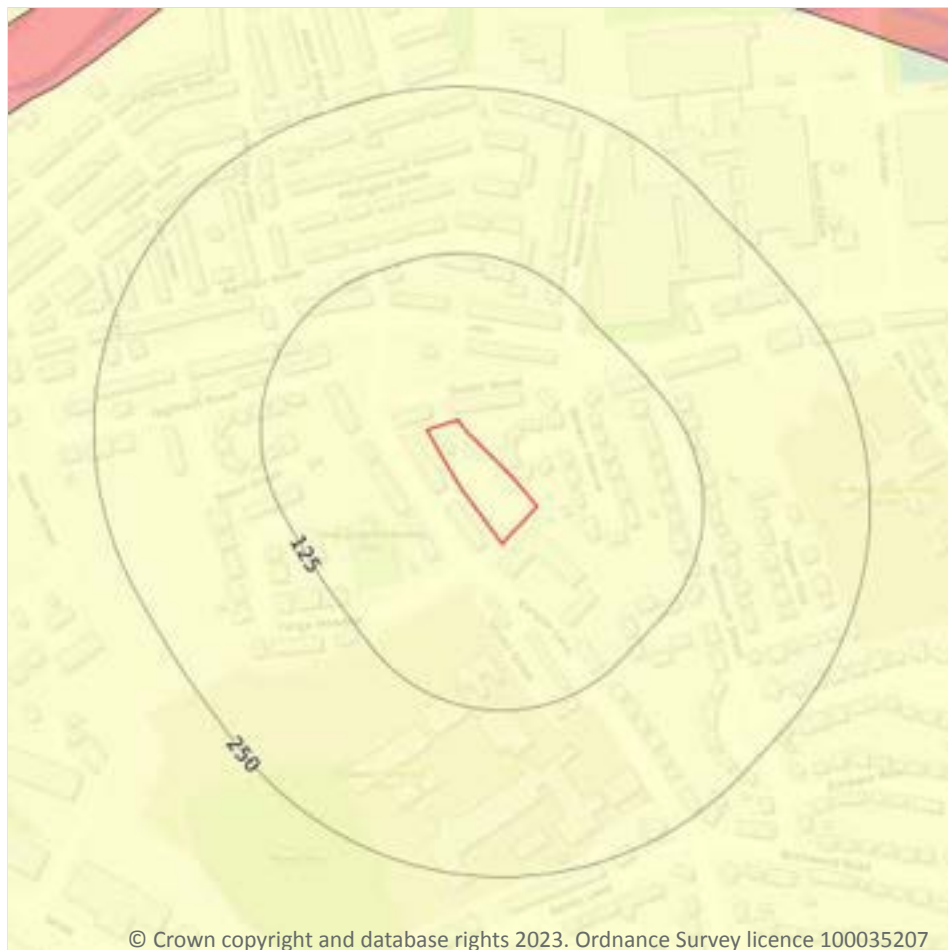
Features are displayed on the Natural ground subsidence - Running sands map on **page 102**

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.

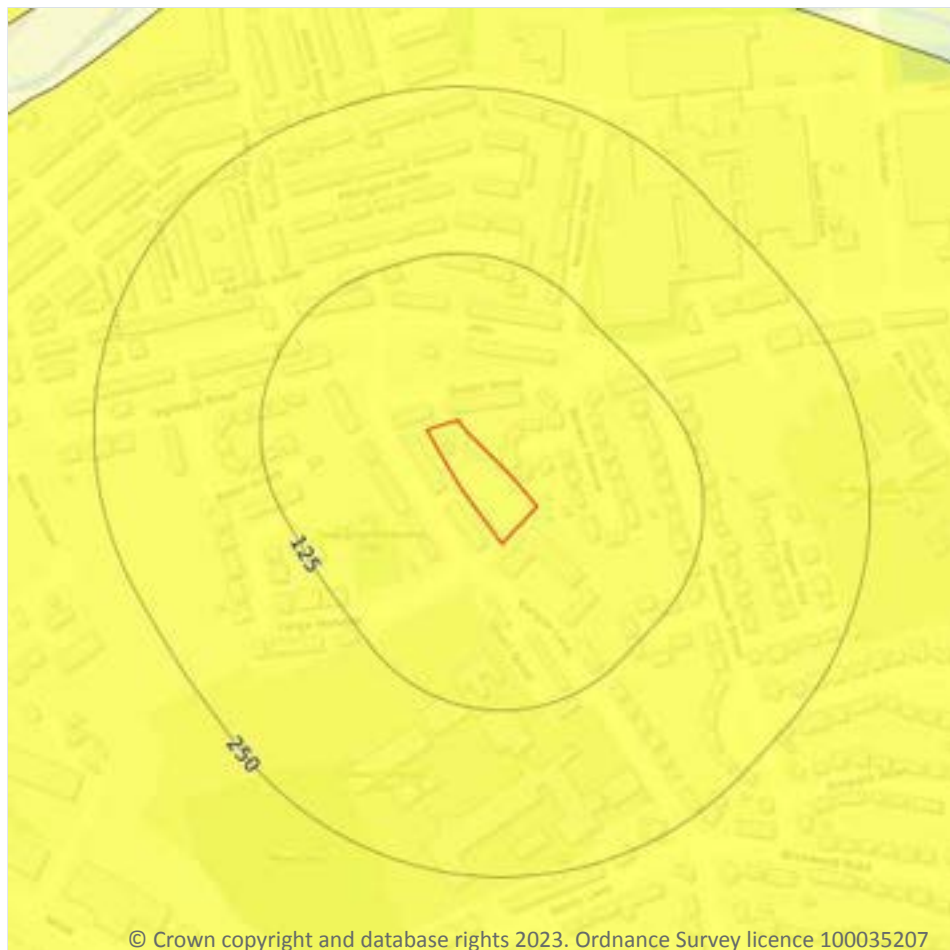
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 103**

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



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- 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 104**

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 105**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 106**

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

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

3

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 108**

ID	Location	Details	Description
A	122m SW	Name: Tonge Hall Sand Pit Address: MIDDLETON, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
H	362m NE	Name: Mills Hill Clay Pit Address: Rhodes, MIDDLETON, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
R	410m N	Name: Little Green Brick Works Address: CHADDERTON, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

39

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 108**

ID	Location	Land Use	Year of mapping	Mapping scale
A	44m SW	Unspecified Pit	1915	1:10560
A	44m SW	Unspecified Pit	1932	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	57m SW	Unspecified Pit	1907	1:10560
B	68m W	Refuse Heap	1965	1:10560
B	68m W	Refuse Heap	1955	1:10560
C	68m SE	Refuse Heap	1891	1:10560
A	68m SW	Old Sand Pit	1891	1:10560
C	78m SE	Unspecified Heap	1915	1:10560
C	78m SE	Unspecified Heap	1923	1:10560
C	78m SE	Refuse Heap	1932	1:10560
C	78m SE	Sand Pit	1907	1:10560
A	121m SW	Unspecified Pit	1975	1:10000
A	121m SW	Unspecified Pit	1965	1:10560
A	121m SW	Unspecified Pit	1955	1:10560
A	121m SW	Unspecified Pit	1982	1:10000
A	123m SW	Unspecified Pit	1938	1:10560
A	125m SW	Sand Pits	1851	1:10560
D	148m E	Ponds	1891	1:10560
D	148m E	Ponds	1938	1:10560
D	155m E	Pond	1932	1:10560
D	155m E	Pond	1915	1:10560
D	155m E	Pond	1907	1:10560
D	155m E	Pond	1923	1:10560
D	161m E	Ponds	1955	1:10560
D	161m E	Ponds	1965	1:10560
D	181m E	Pond	1851	1:10560
E	202m N	Pond	1851	1:10560
E	202m N	Colliery	1851	1:10560
E	203m N	Reservoir	1923	1:10560
E	203m N	Reservoir	1932	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
E	203m N	Reservoir	1915	1:10560
E	203m N	Reservoir	1907	1:10560
E	206m N	Pond	1891	1:10560
E	211m N	Reservoir	1938	1:10560
F	217m E	Refuse Heap	1923	1:10560
F	217m E	Refuse Heap	1915	1:10560
G	221m S	Unspecified Heap	1965	1:10560
G	221m S	Unspecified Heap	1955	1:10560
E	245m N	Brick Works	1907	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.



18.7 Mining cavities

Records within 1000m	0
----------------------	---

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

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

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	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.

18.10 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.



18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

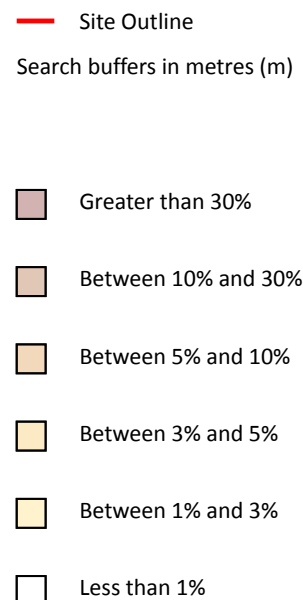
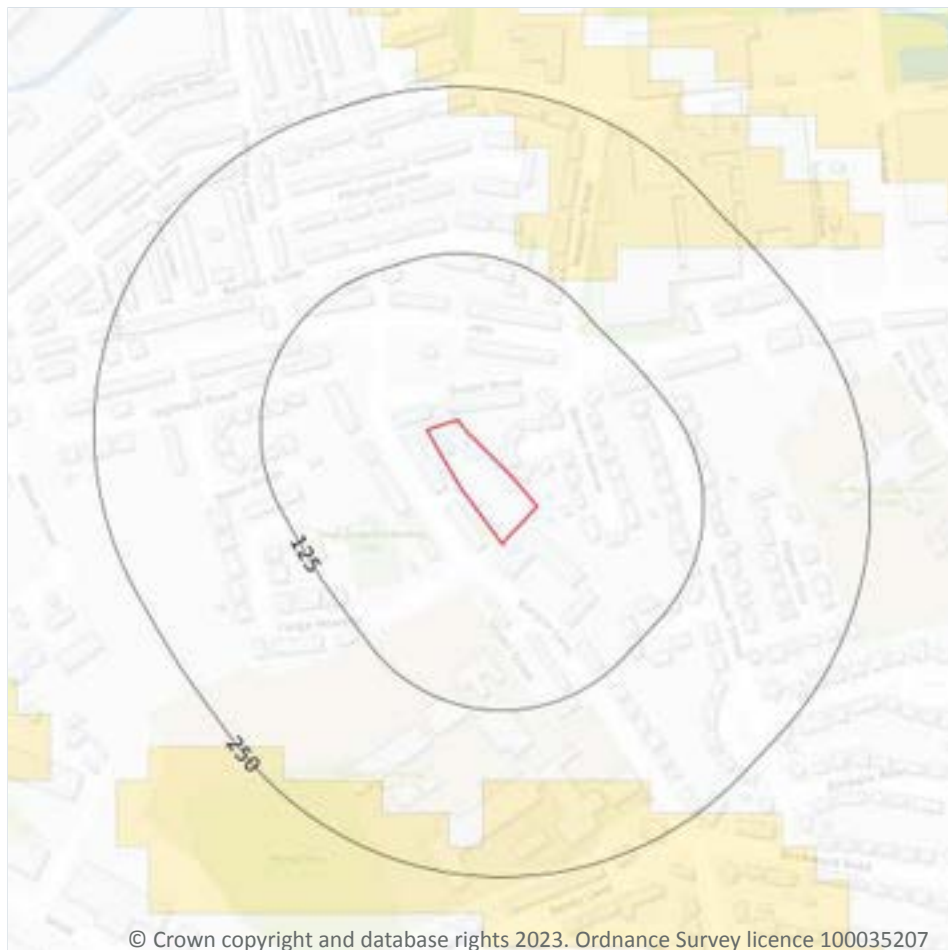
18.13 Clay mining

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 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 114**

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



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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

9

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	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	200 - 300 mg/kg	120 - 240 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
29m N	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
33m NW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
33m NW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m NW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m NW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
50m NW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
50m NW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.



20.2 BGS Estimated Urban Soil Chemistry

Records within 50m**0**

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m**0**

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects



- 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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

4

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 118**

Location	Land Use	Year of mapping	Mapping scale
140m NW	Railway Sidings	1915	10560
140m NW	Railway Sidings	1923	10560
148m NW	Tramway Sidings	1909	2500
148m NW	Tramway Sidings	1922	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m**0**

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m**0**

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m**0**

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

This data is sourced from HS2 Ltd.

Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: <https://www.groundsure.com/terms-and-conditions-jan-2020/>.



COAL AUTHORITY MINING REPORT

Consultants Coal Mining Report

Land North Of Rose Street
Middleton
Rochdale
M24 2DR

Date of enquiry:	11 January 2023
Date enquiry received:	11 January 2023
Issue date:	11 January 2023

Our reference:	51003332980001
Your reference:	7653

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

Land North Of Rose Street
Middleton
Rochdale
M24 2DR

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 @coalauthority

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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	CANNEL	Coal	3YUC	89	Beneath Property	16.0	South-West	100	1857
unnamed	LOWER BENT	Coal	37B9	122	North-East	16.0	South-West	80	1857

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	388405-001	388145 405938		Coal	

Abandoned mine plan catalogue numbers

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

NW173	NW263	0
16820	PO0	NW1174

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

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
CANNEL	Coal	Yes	10.4	South-West	284

Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property 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

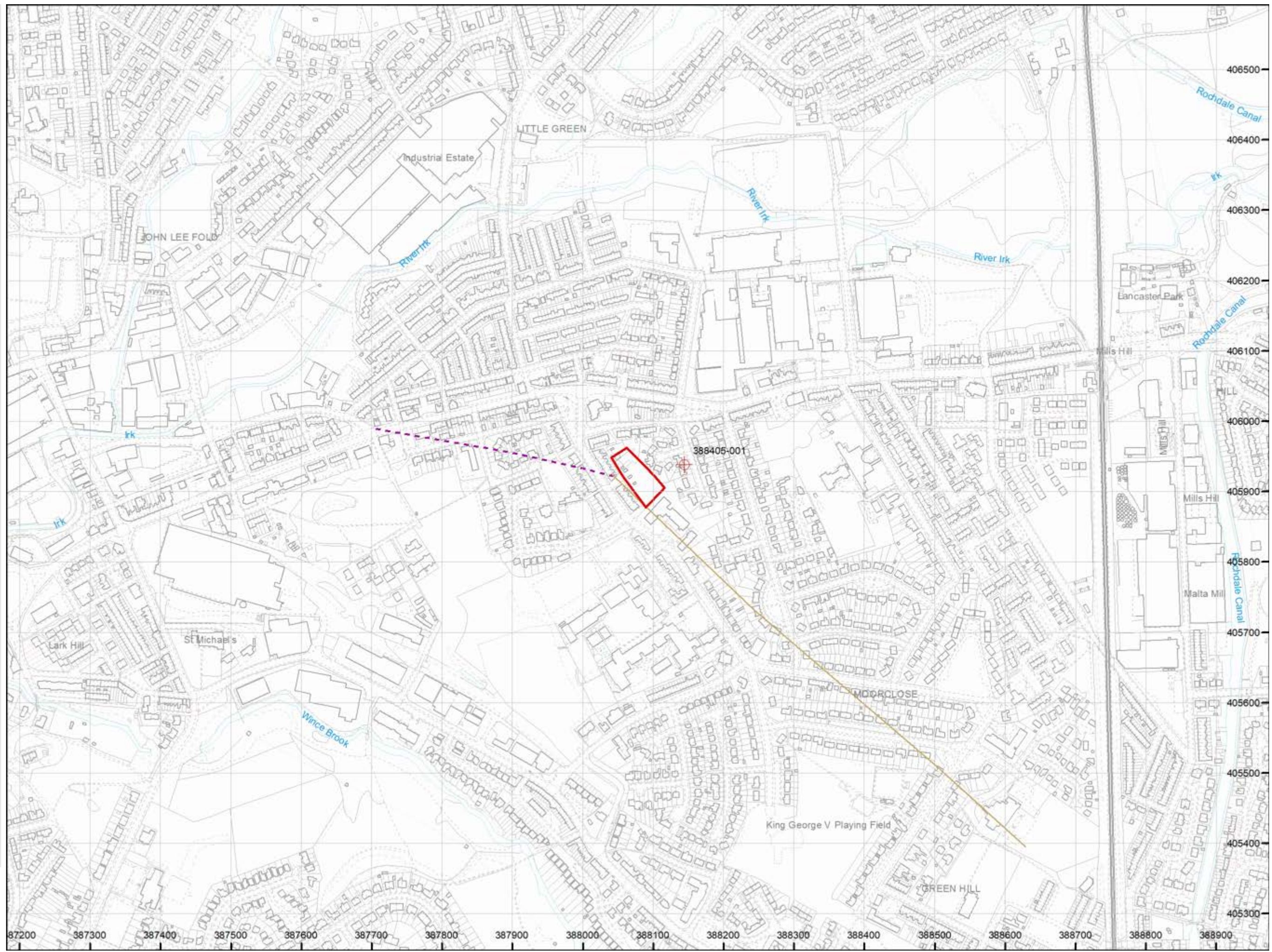
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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 
- Disused mine shaft 
- Outcrop (Conjectured) 
- Geological faults 

How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com



SMALL SCALE SURVEY PLANS



Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1848

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A



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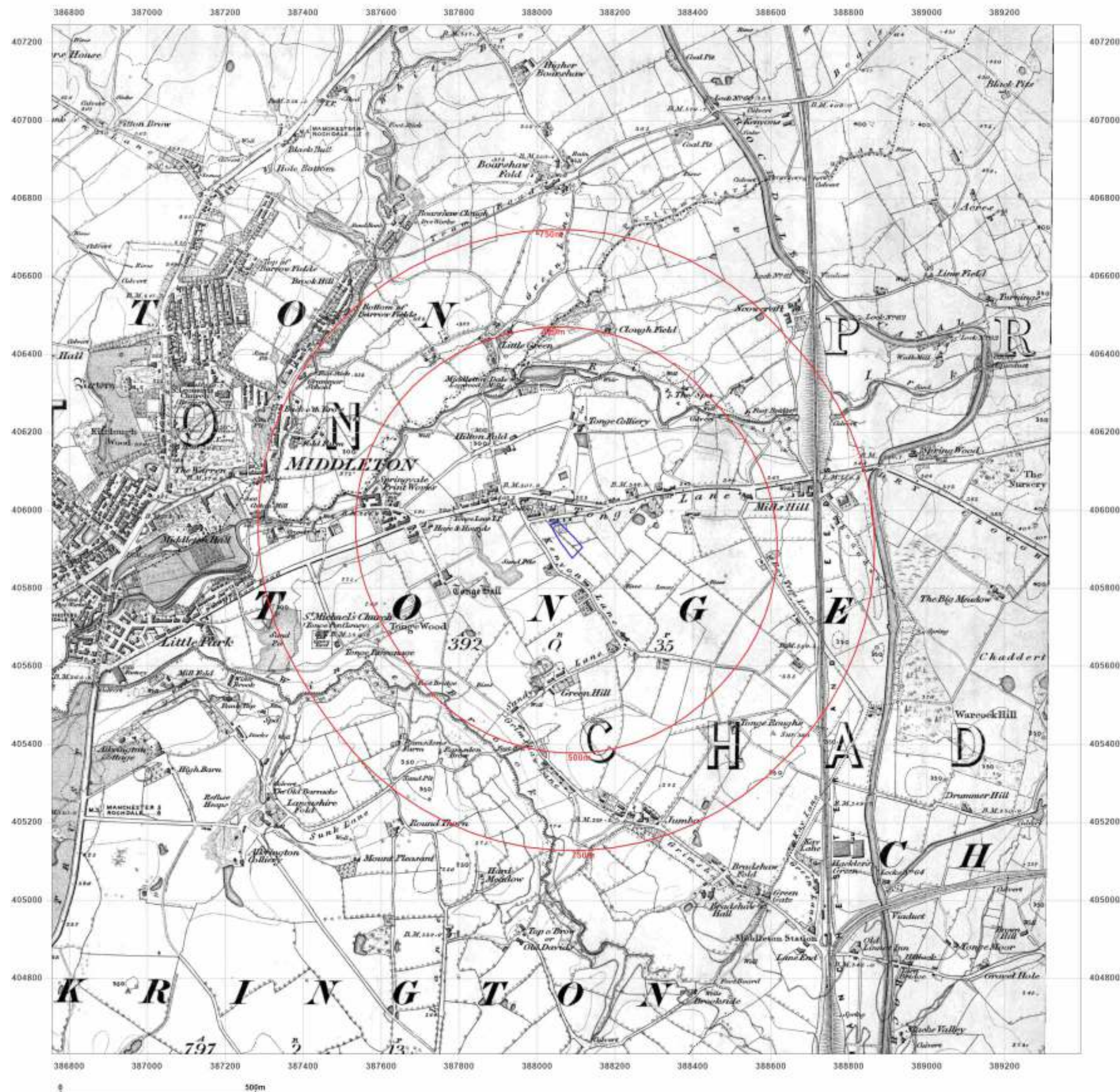


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Production date: 06 January 2023

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





Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1891

Scale: 1:10,560

Printed at: 1:10,560



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

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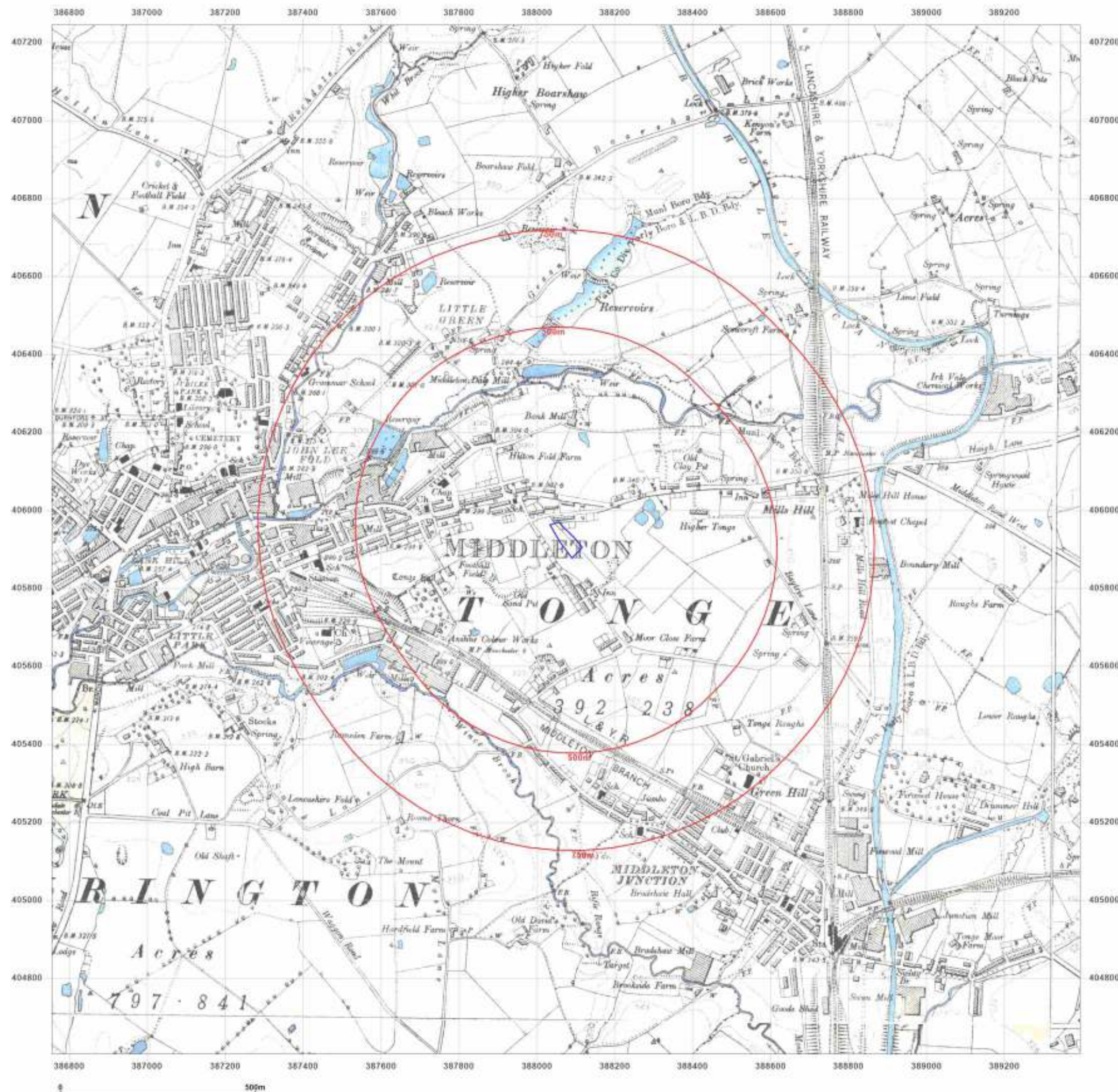


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Map legend available at:
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1906-1907

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1907
Edition N/A
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Surveyed 1844
Revised 1907
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1906
Edition N/A
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Surveyed 1844
Revised 1906
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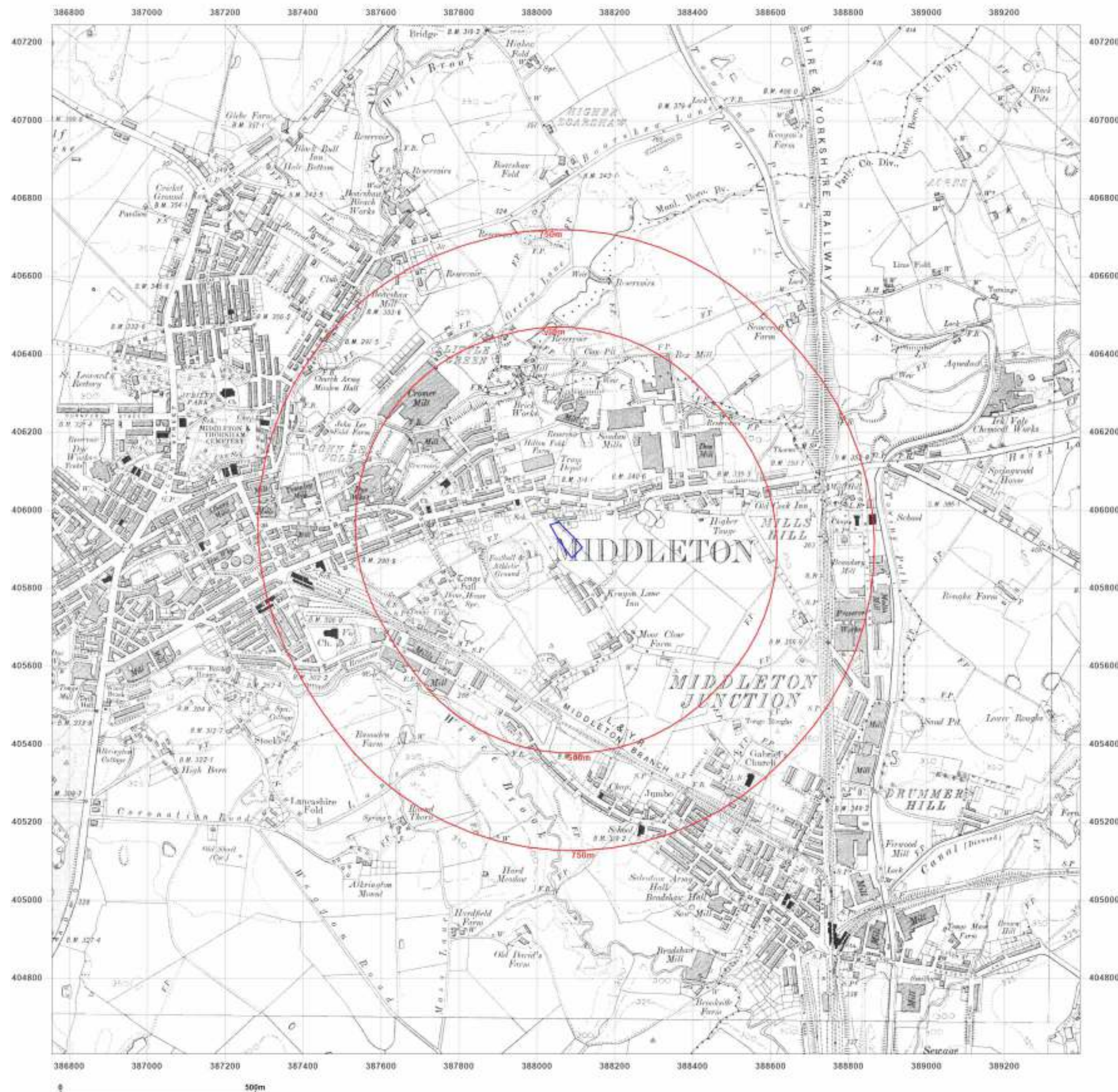


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Production date: 06 January 2023

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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1915-1916

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1915
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Surveyed 1844
Revised 1916
Edition N/A
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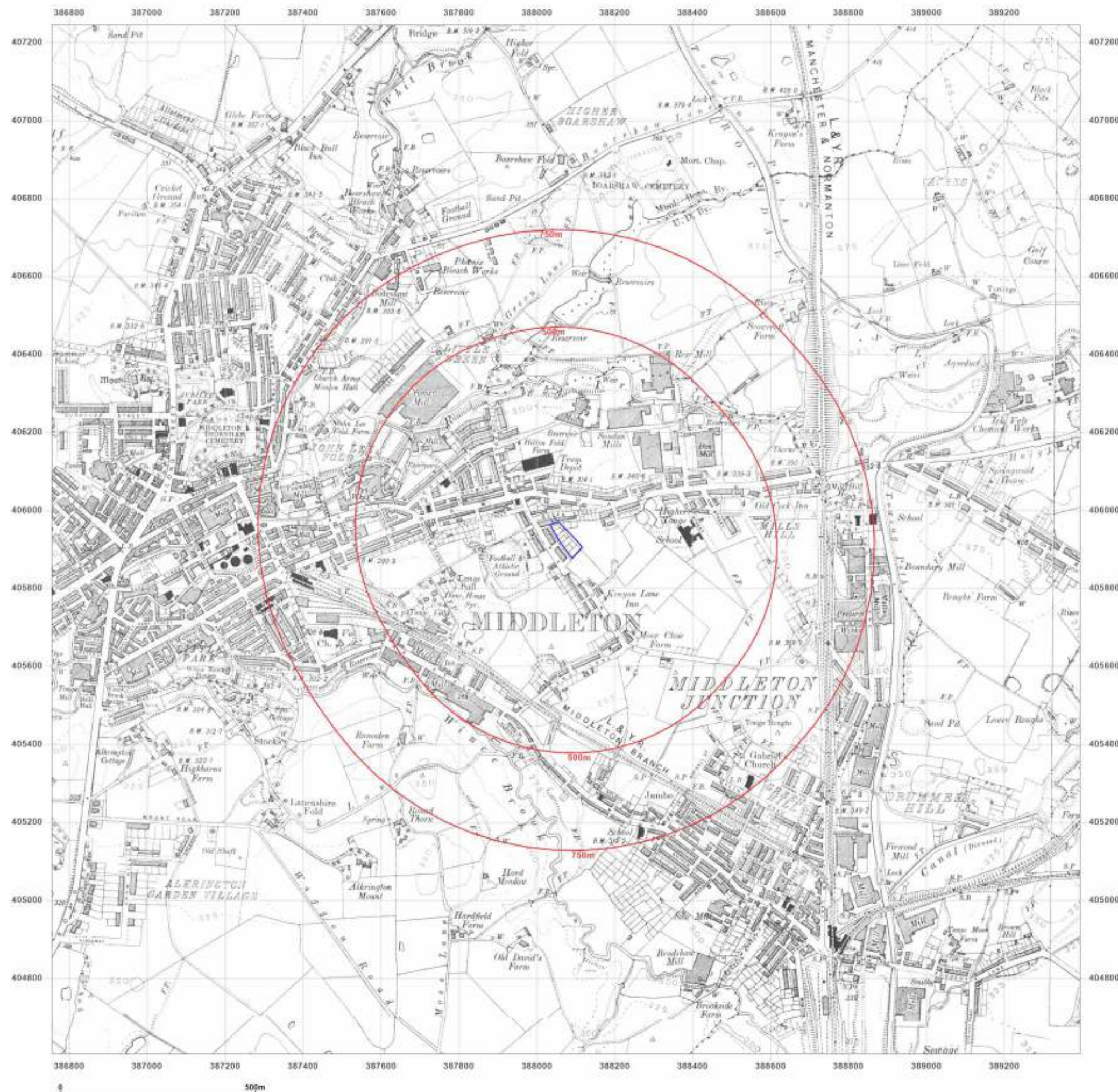


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Production date: 06 January 2023

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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1923
Edition N/A
Copyright N/A
Levelled N/A



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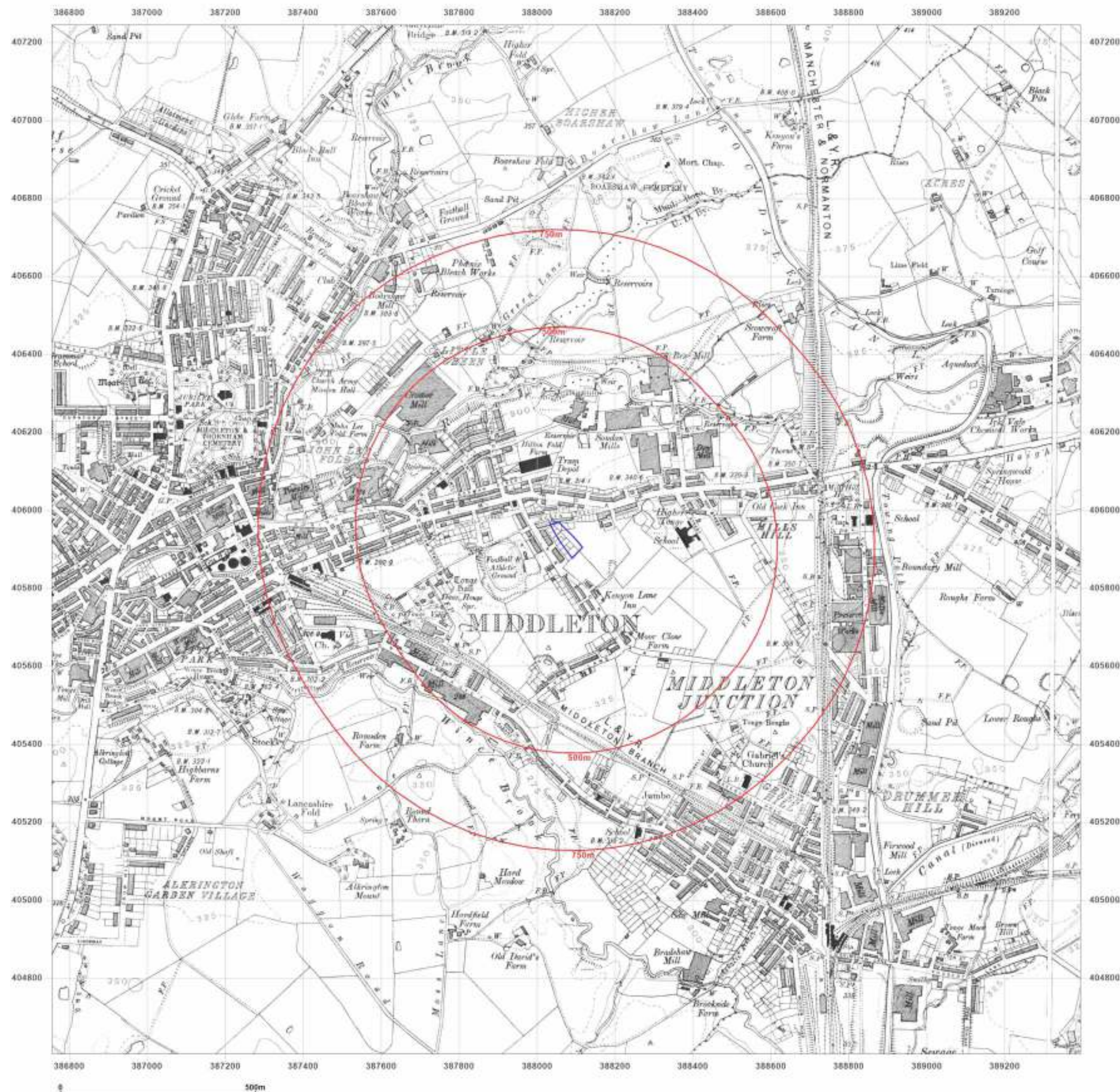


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Map legend available at:
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1932-1933

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Surveyed 1844
Revised 1932
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1933
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1933
Edition N/A
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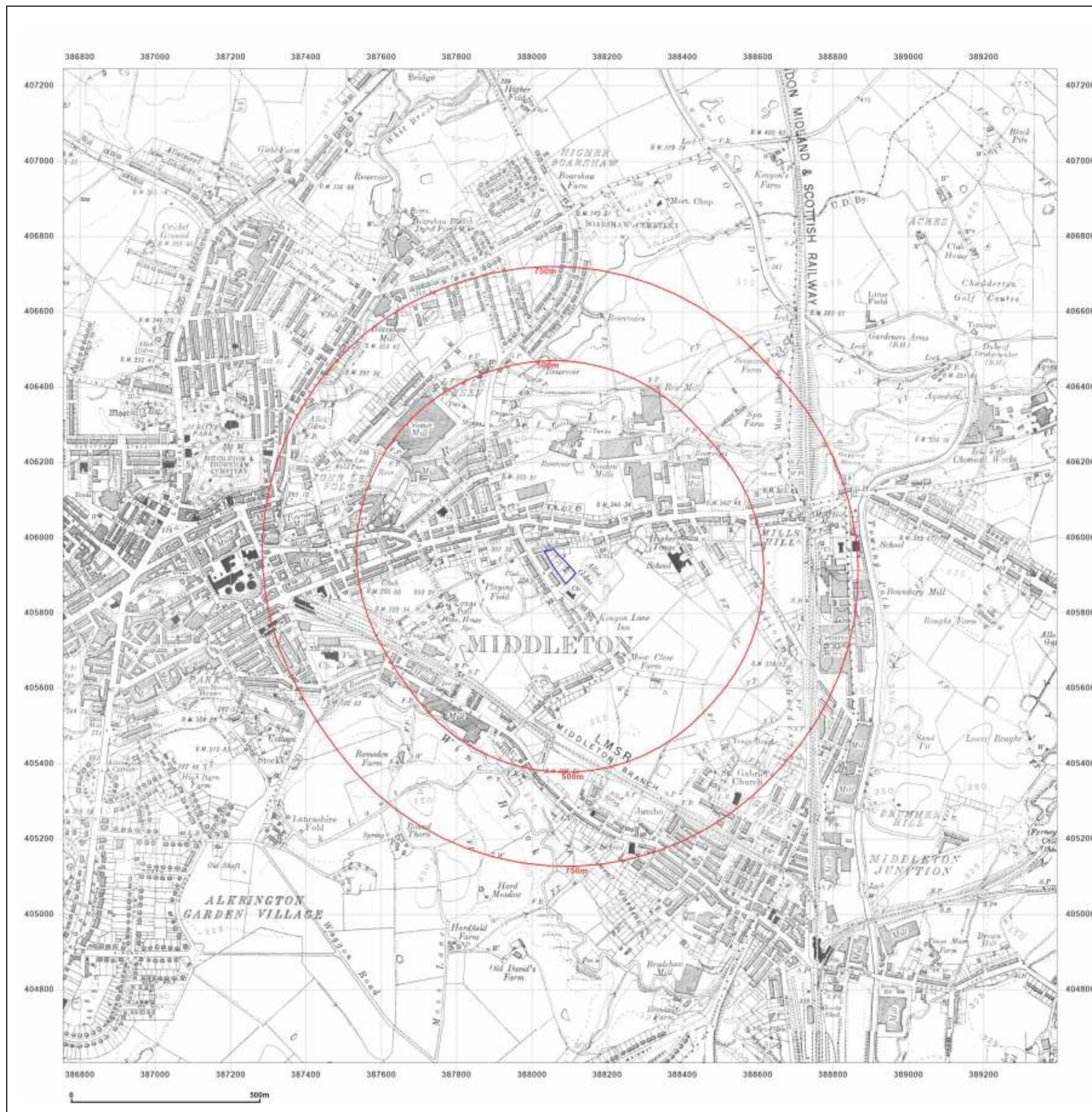


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Production date: 06 January 2023

Map legend available at:
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1938
Edition N/A
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Surveyed 1844
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
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Edition N/A
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Surveyed 1844
Revised 1938
Edition N/A
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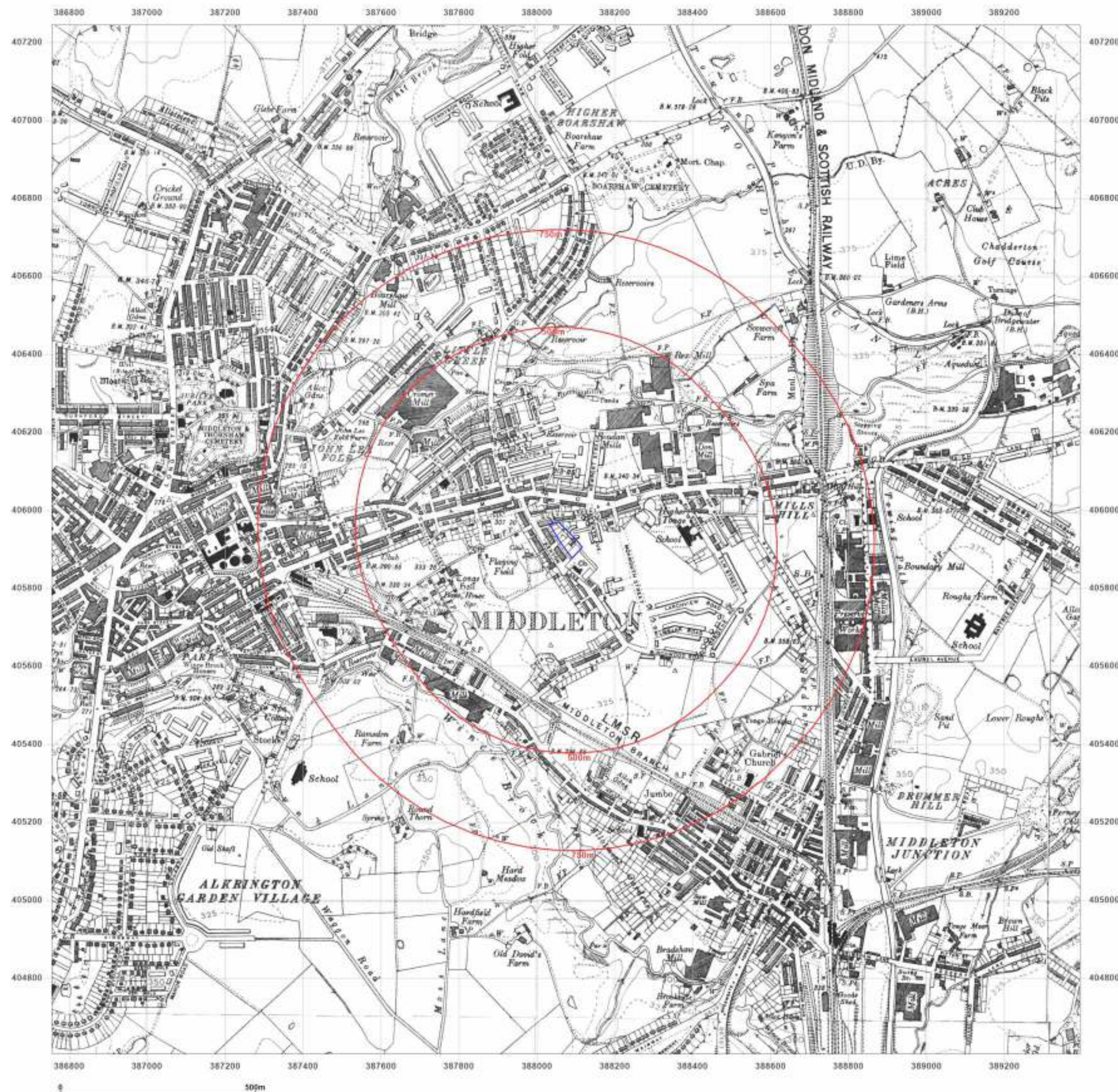


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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1955
Edition N/A
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Surveyed 1956
Revised 1956
Edition N/A
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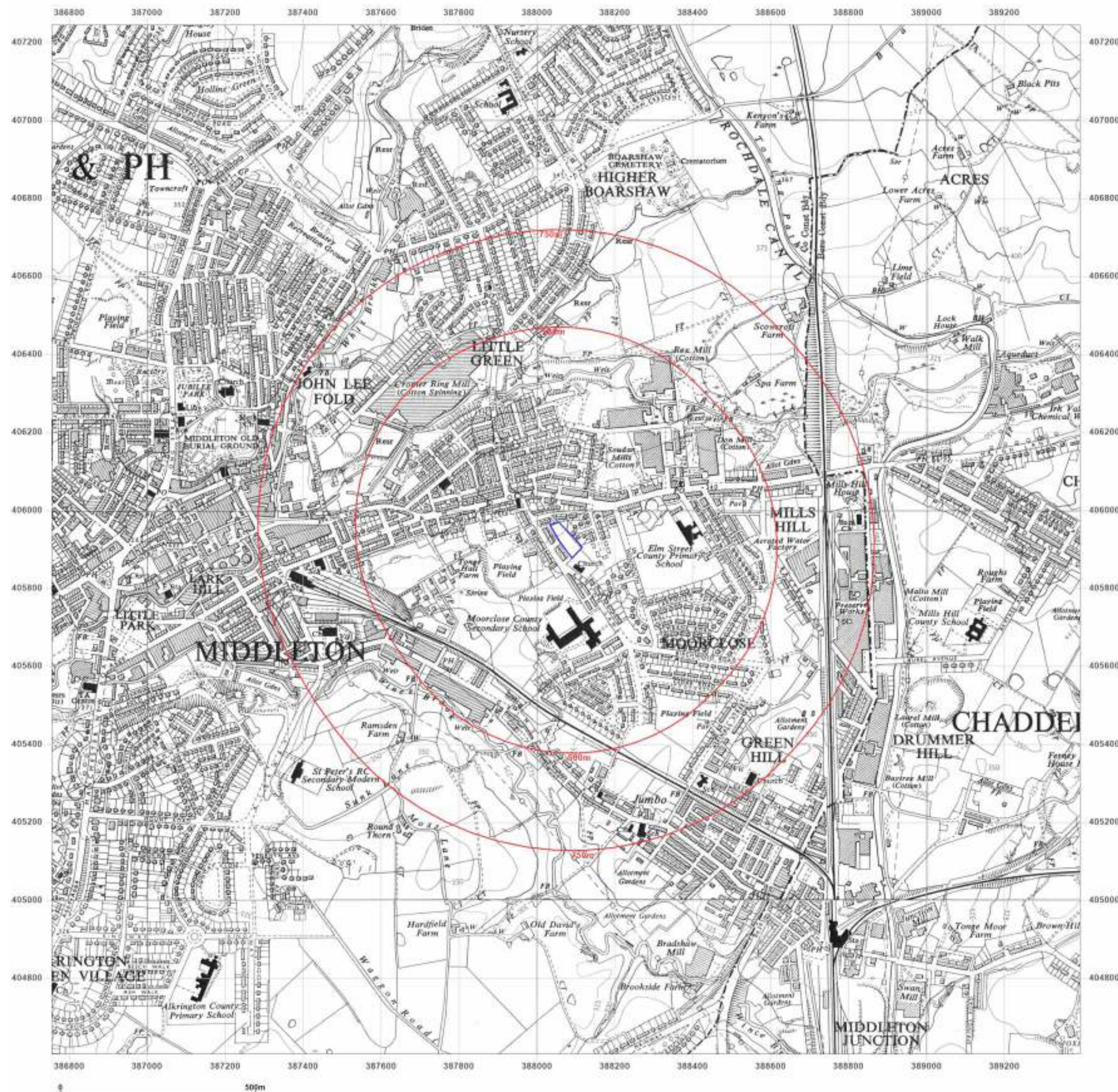


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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: Provisional

Map date: 1965-1966

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1965
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Surveyed 1966
Revised 1966
Edition N/A
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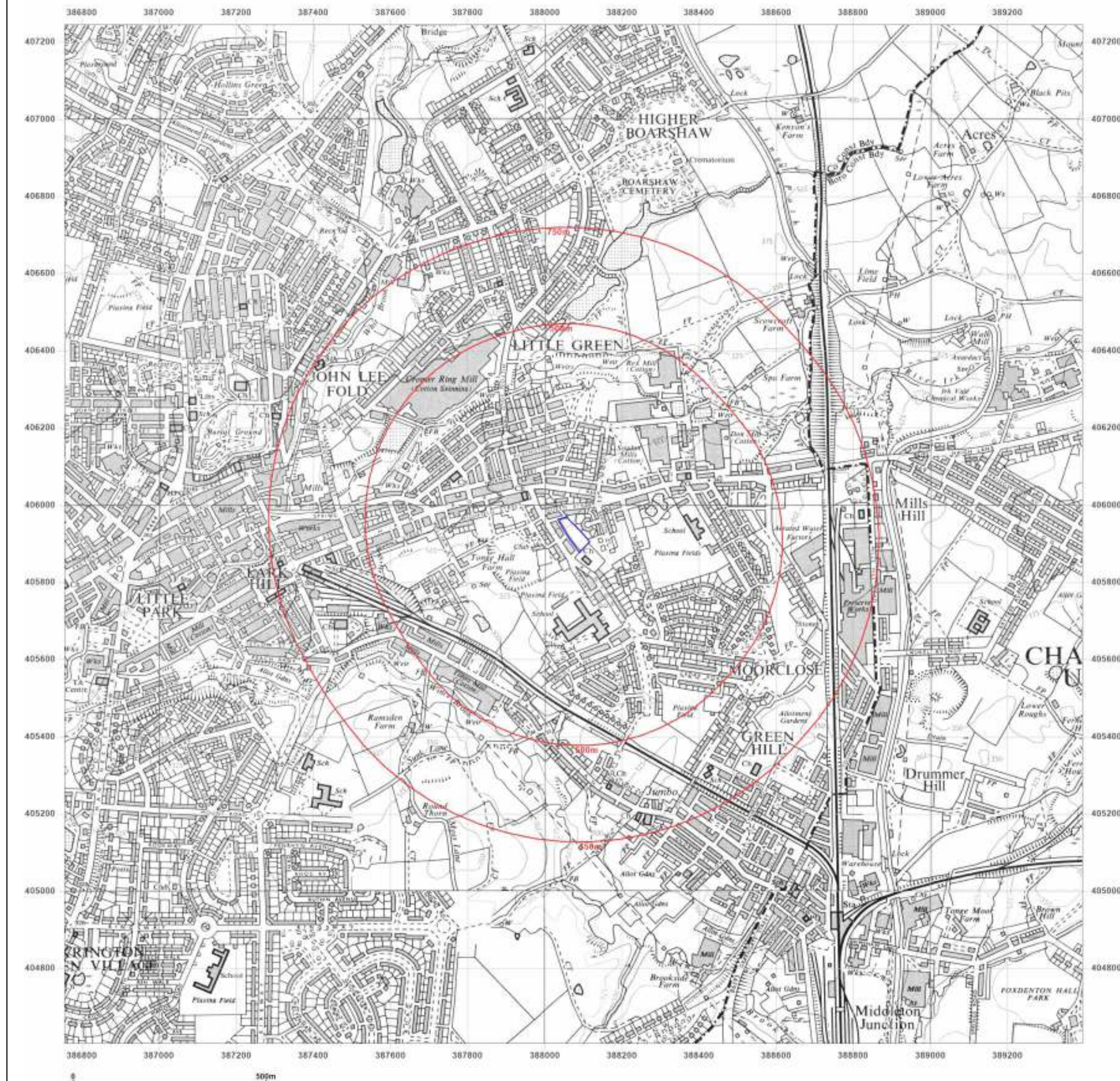


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Site Details:

Land North Side of Rose Street,
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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1980-1982

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1980
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Edition N/A
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Surveyed 1980
Revised 1980
Edition N/A
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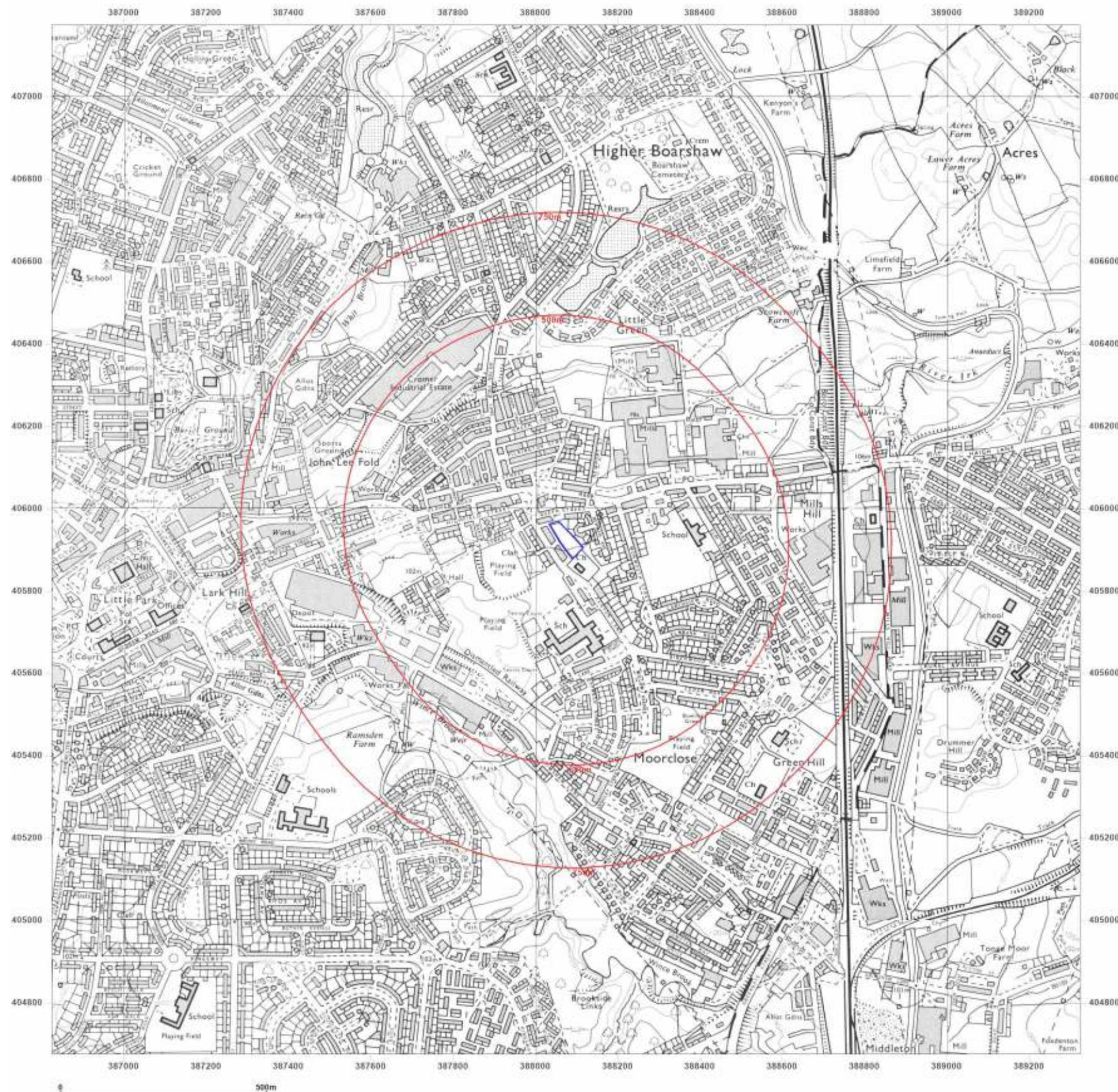


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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001



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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 2023

Scale: 1:10,000

Printed at: 1:10,000



2023



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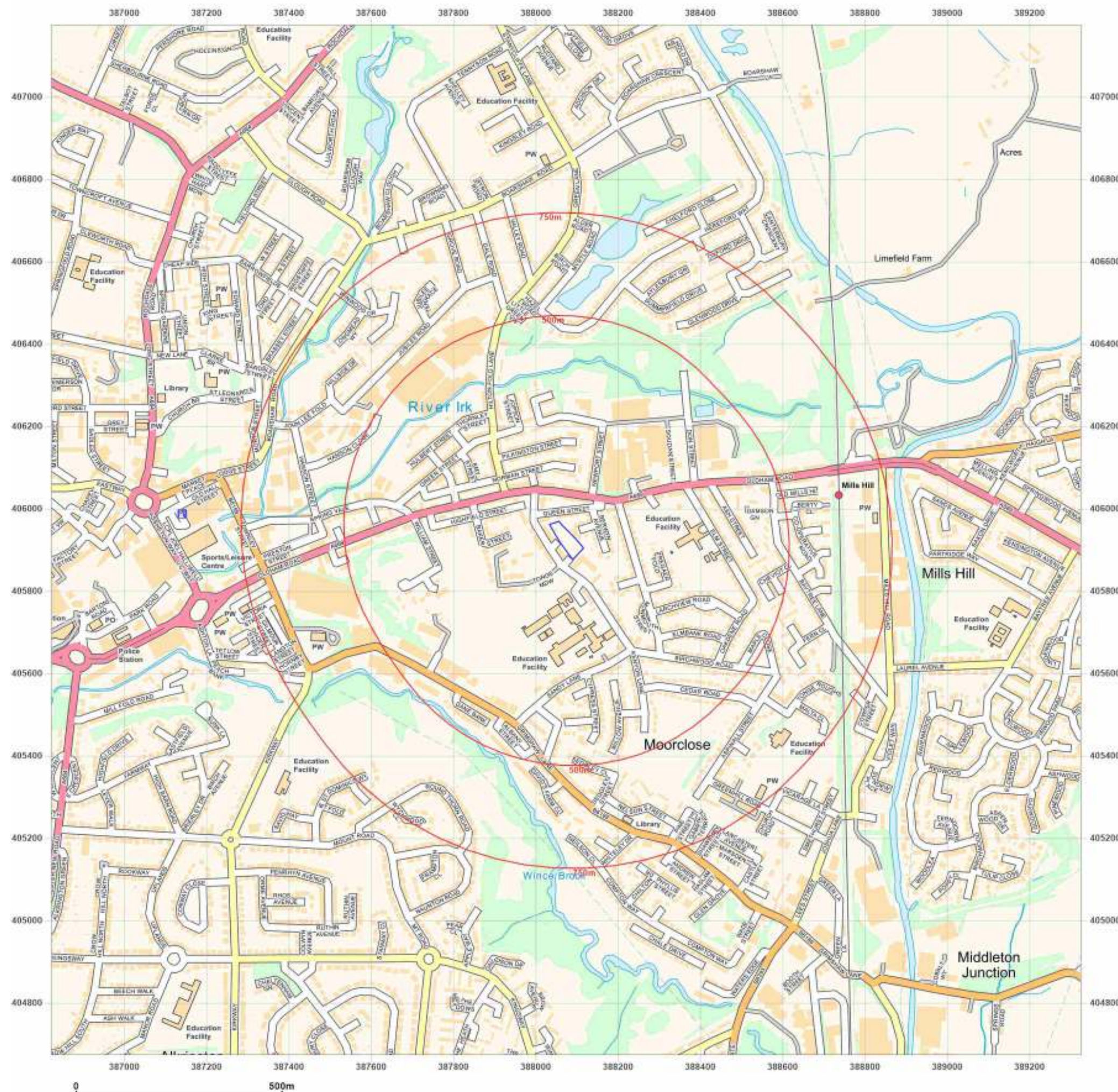


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LARGE SCALE SURVEY PLANS



Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



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



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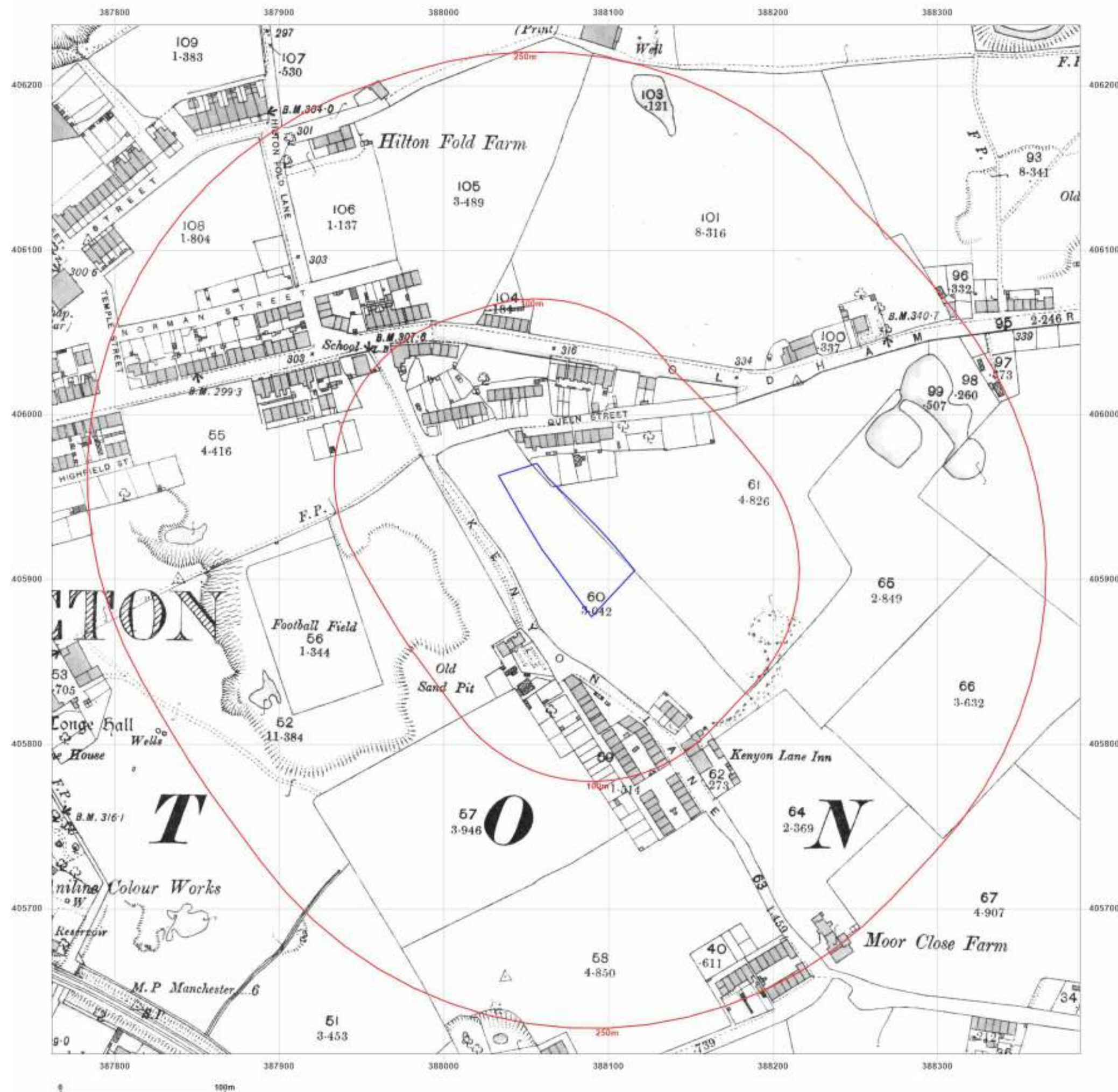


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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

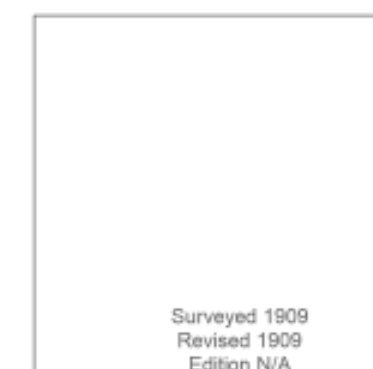
Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1909

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1909
Revised 1909
Edition N/A
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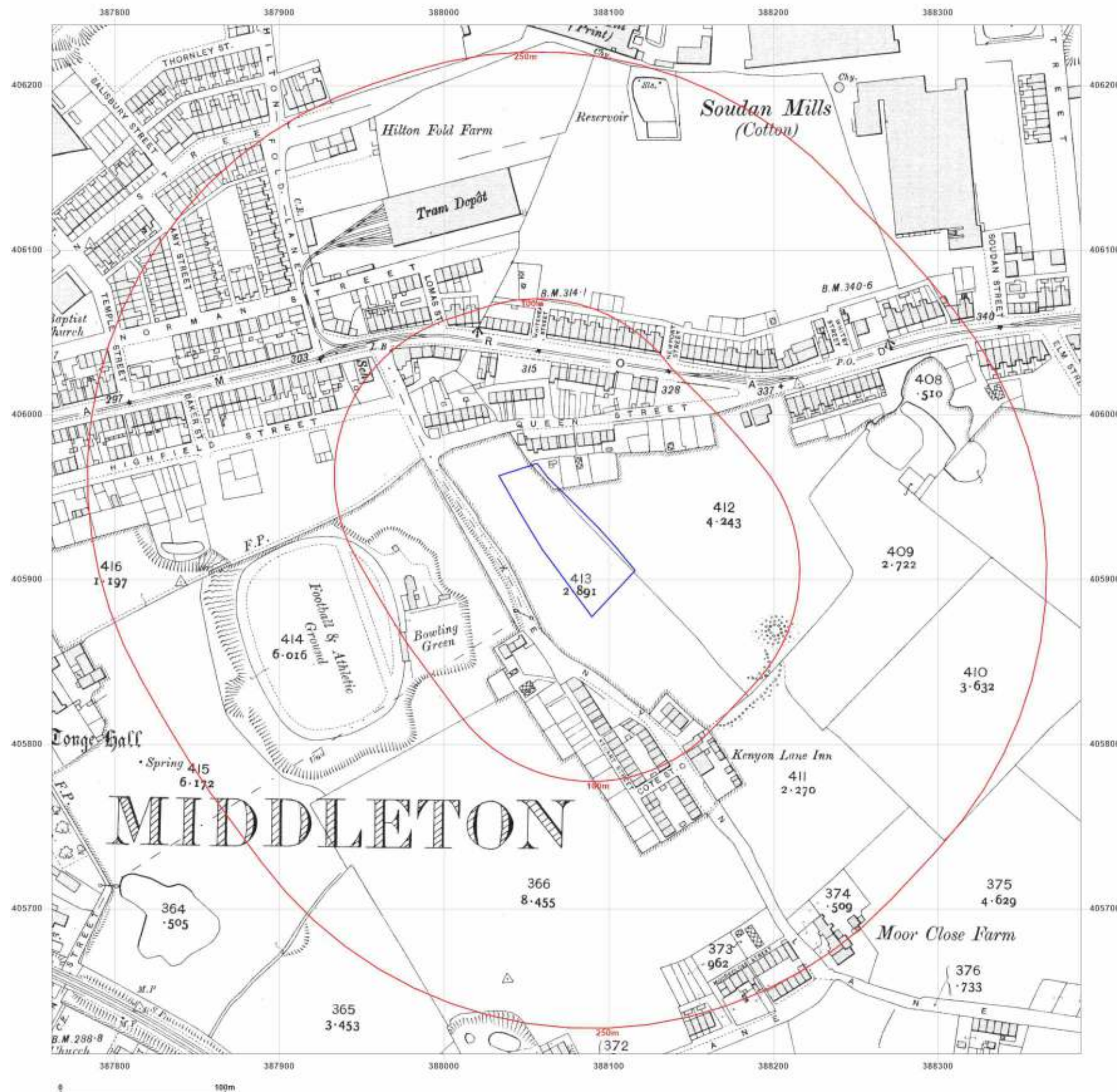


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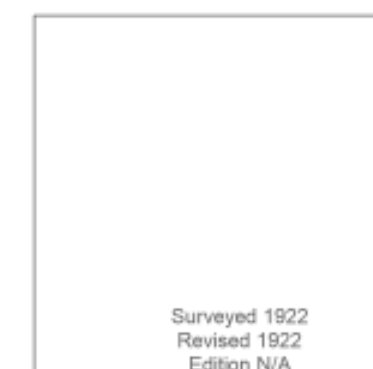
Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1922
Revised 1922
Edition N/A
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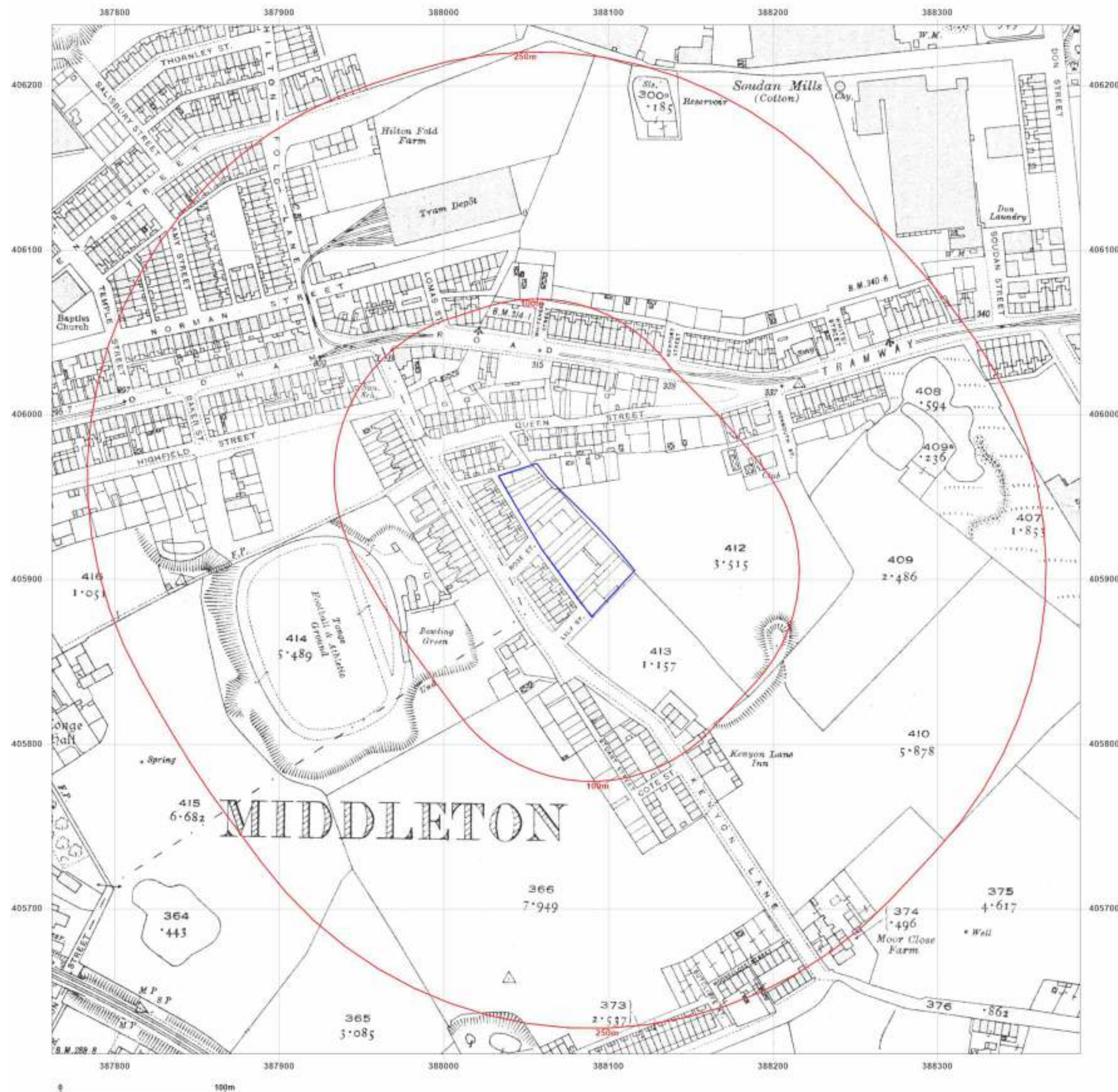


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Site Details:

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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1932
Revised 1932
Edition N/A
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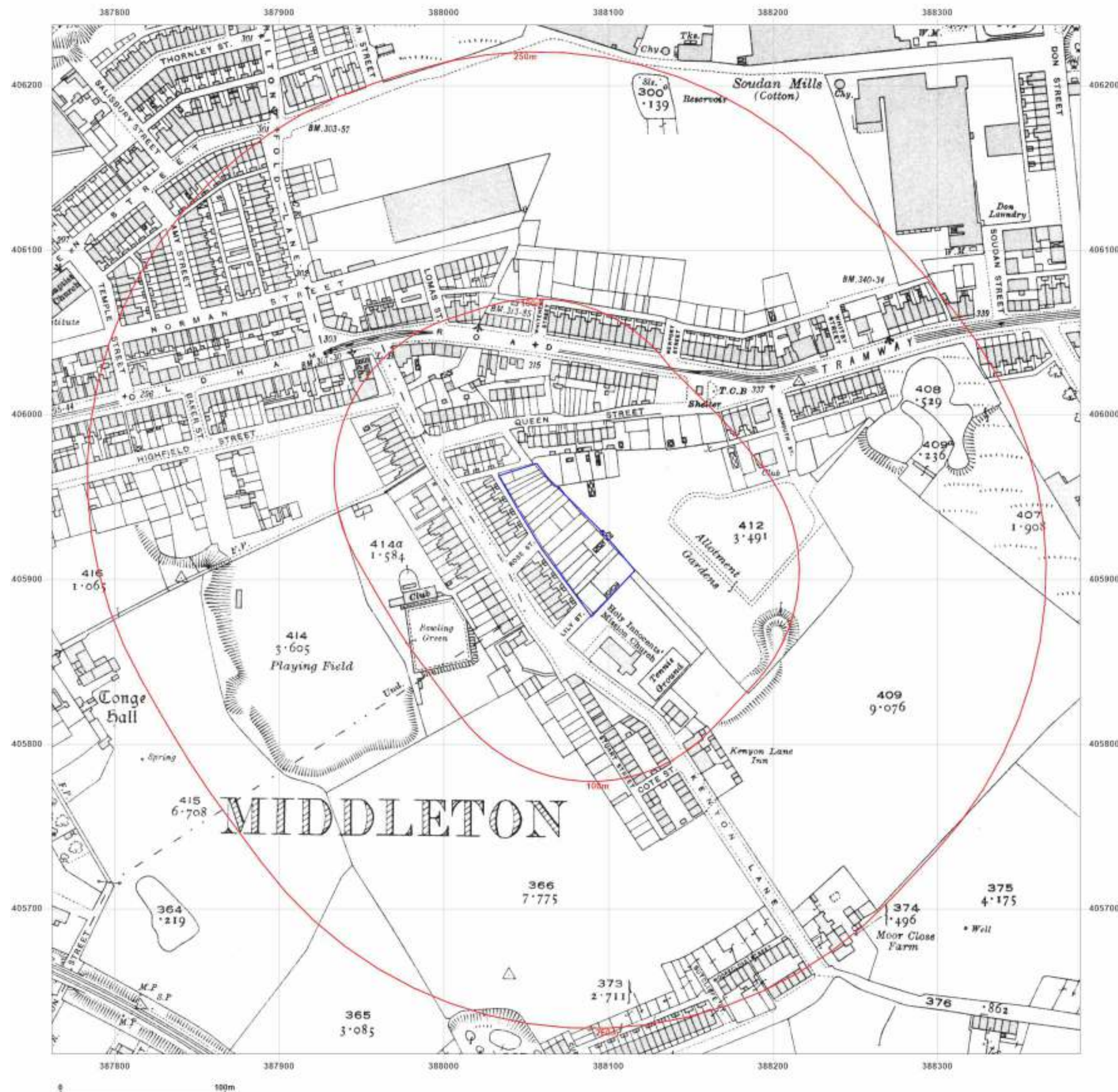


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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1953-1954

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1954
Revised 1954
Edition N/A
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Surveyed 1953
Revised 1953
Edition N/A
Copyright N/A
Levelled 1929

Surveyed 1954
Revised 1954
Edition N/A
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Surveyed 1953
Revised 1953
Edition N/A
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Site Details:

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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1954-1955

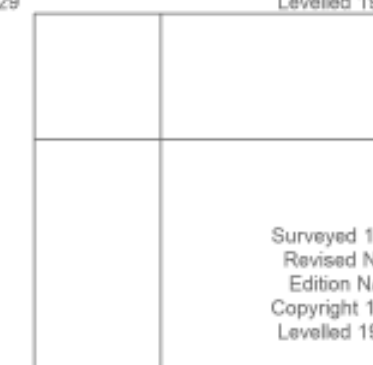
Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1953
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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1955

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1953
Revised 1953
Edition 1955
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1967-1970

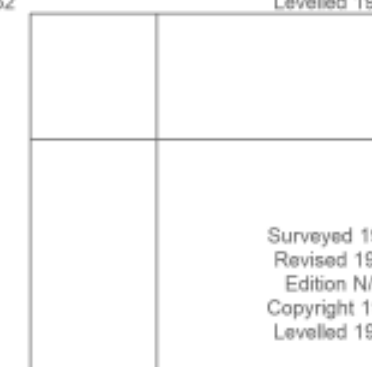
Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1953
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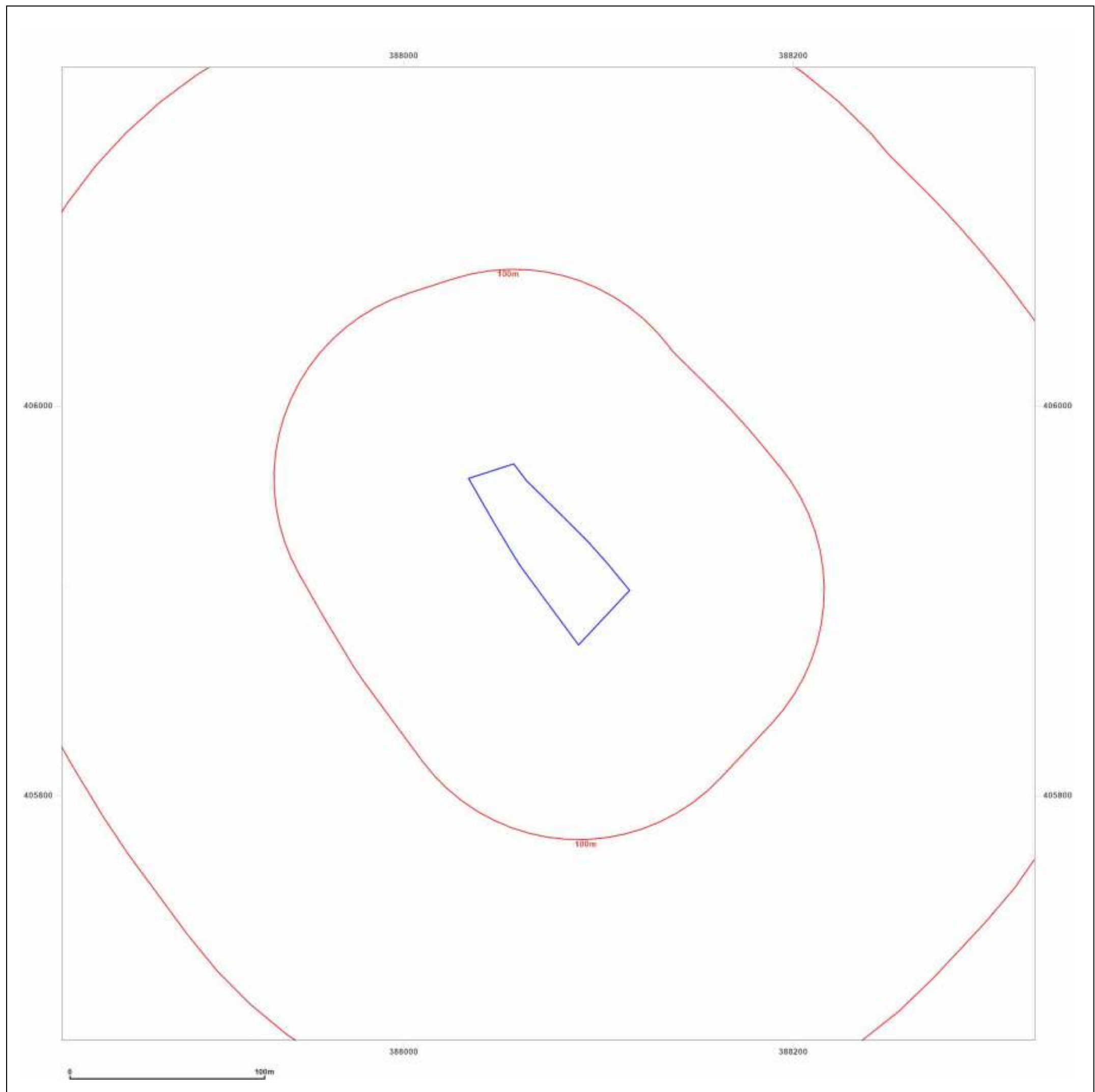
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

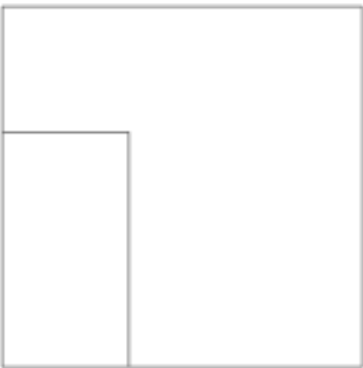
Map date: 1976

Scale: 1:1,250

Printed at: 1:2,000



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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1975-1977

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
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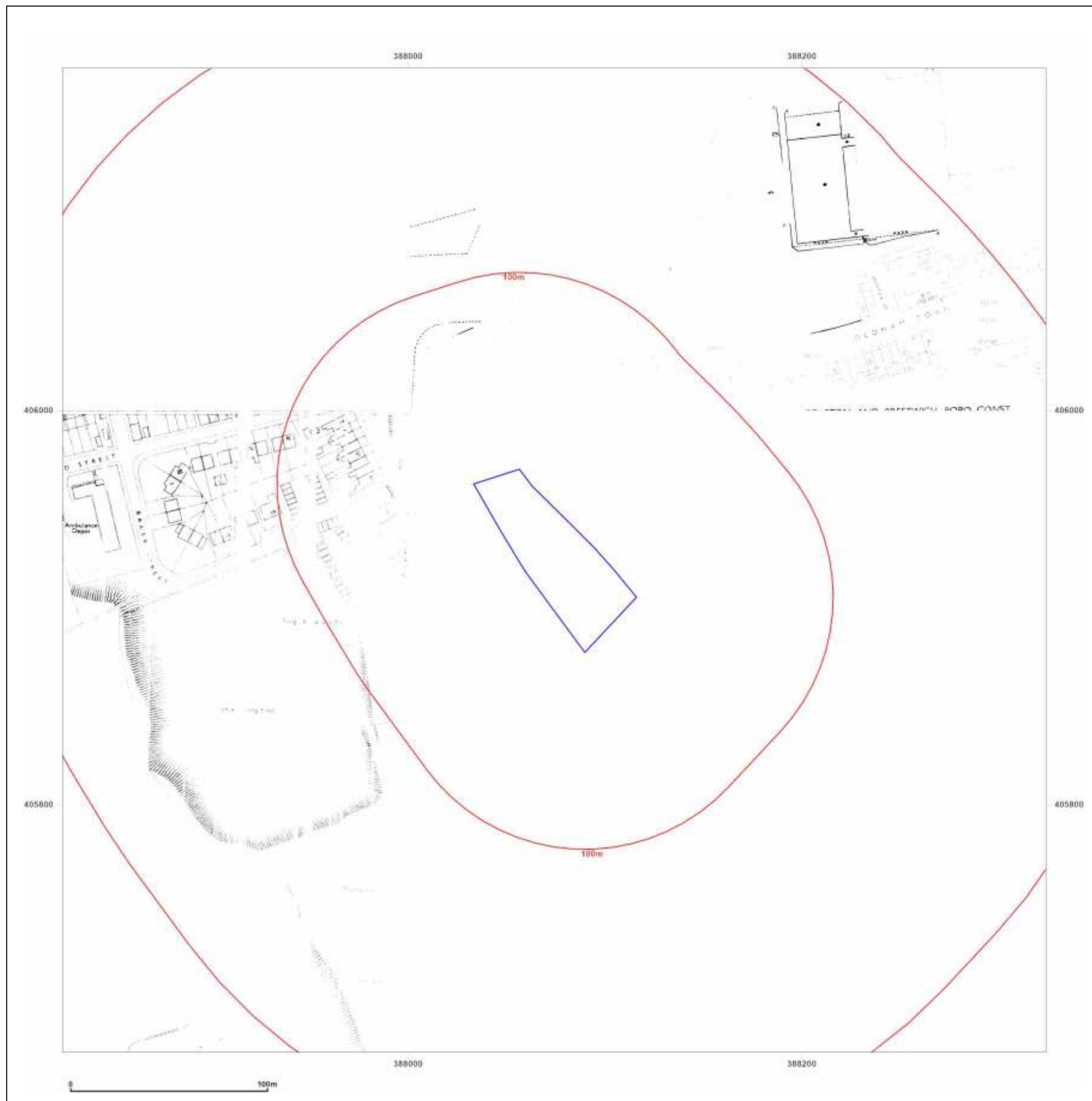


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Site Details:

Land North Side of Rose Street,
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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1982-1984

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Revised 1984
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Copyright 1984
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Surveyed N/A
Revised N/A
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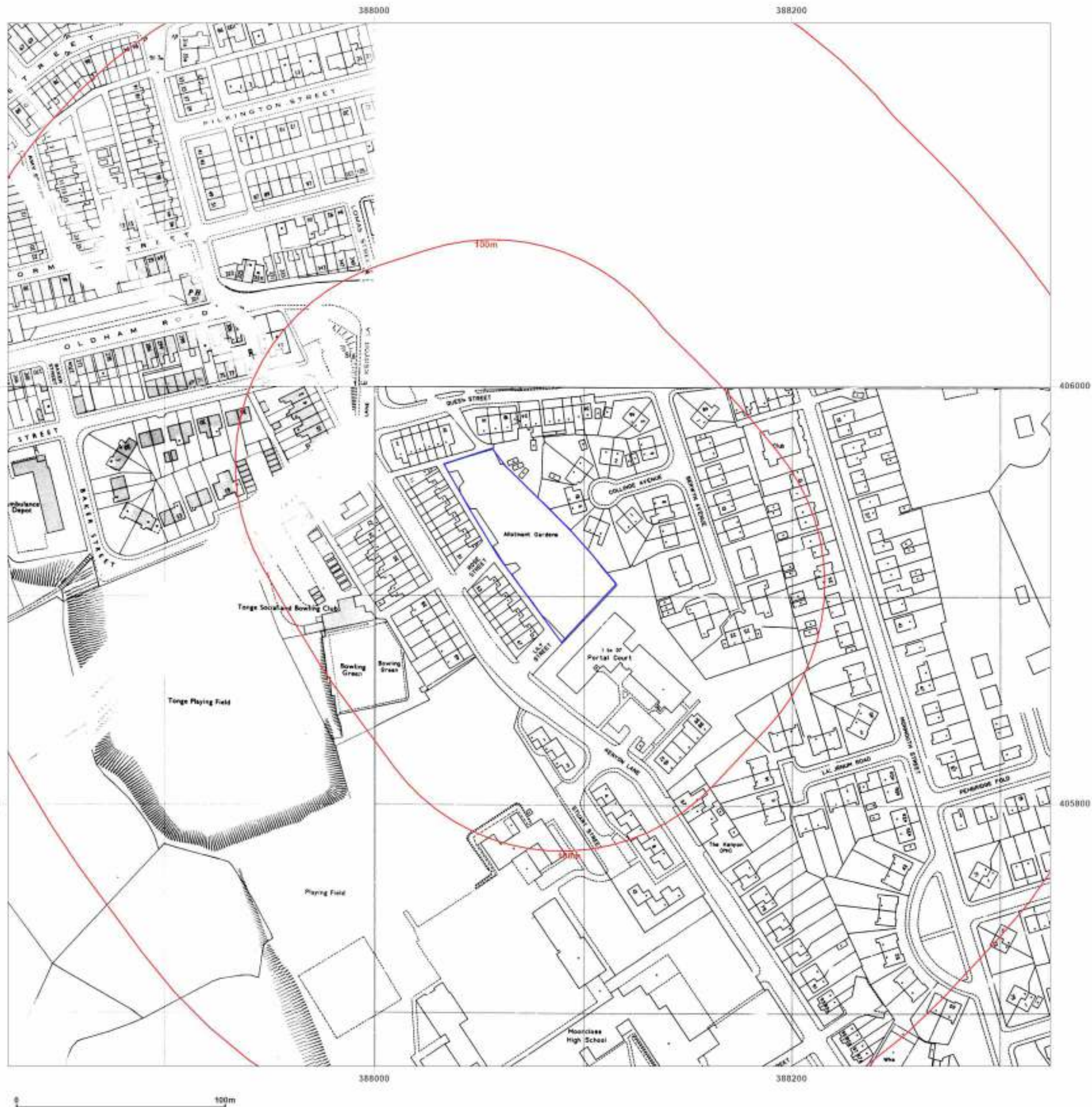
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Land North Side of Rose Street,
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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name:	National Grid
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Map date: 1991-1992

Scale: 1:1,250

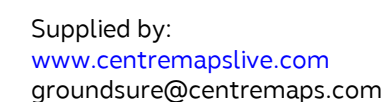
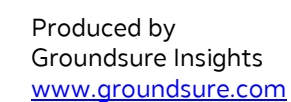
Printed at: 1:2,000



Surveyed 1962
Revised 1992
Edition N/A
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Surveyed 1962
Revised 1991
Edition N/A
Copyright 1991
Levelled 1962

Surveyed 1992
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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1989-1992

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
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Surveyed 1962
Revised 1991
Edition N/A
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Surveyed 1959
Revised 1989
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Site Details:

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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1991-1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
Revised 1992
Edition N/A
Copyright 1992
Levelled 1962

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

Surveyed 1962
Revised 1991
Edition N/A
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Surveyed 1959
Revised 1991
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Site Details:

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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

Map date: 1992-1993

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1993
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Edition N/A
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Revised N/A
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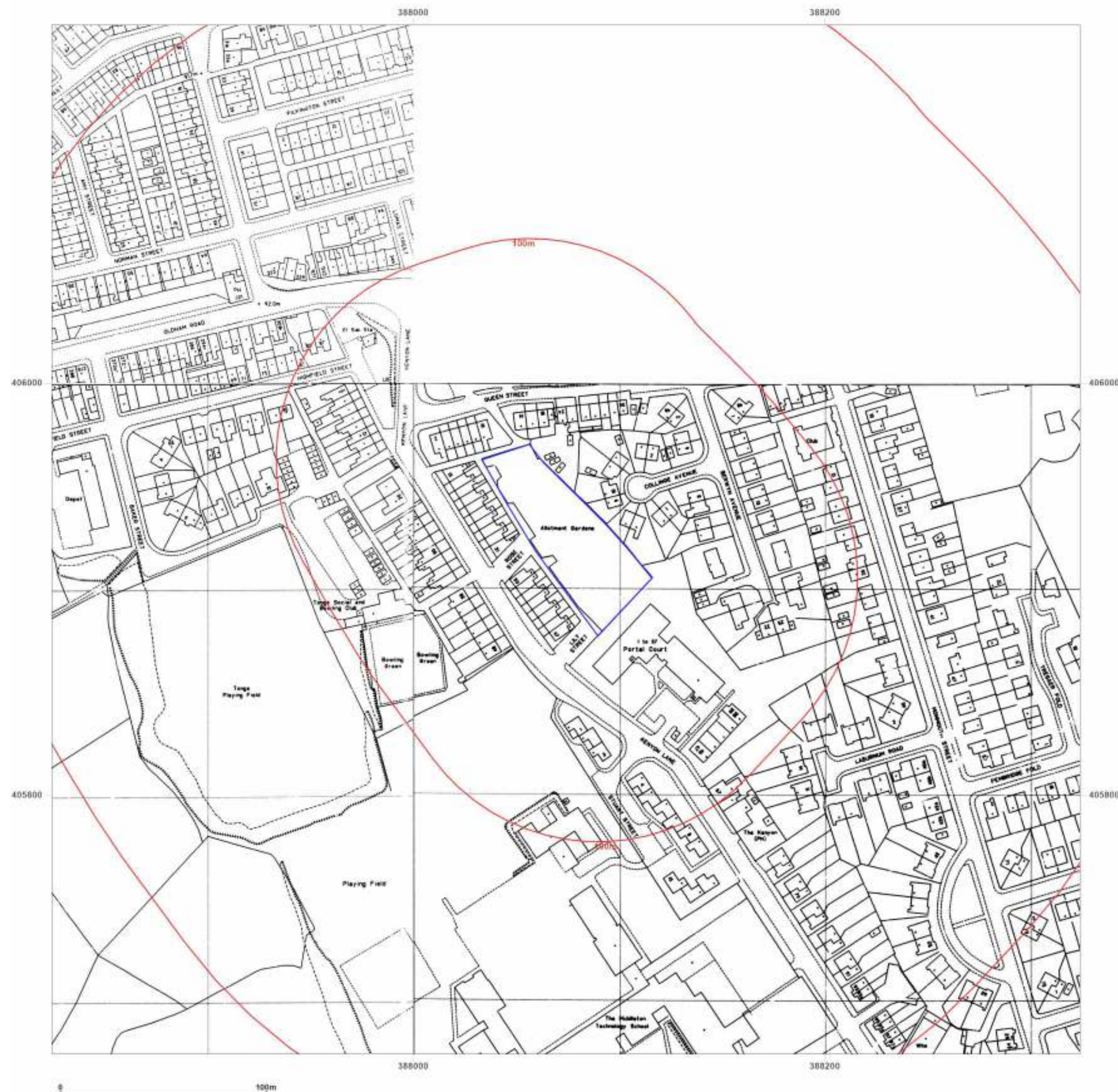


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Site Details:

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Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

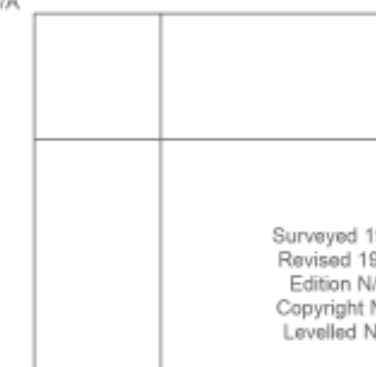
Map date: 1993

Scale: 1:1,250

Printed at: 1:2,000



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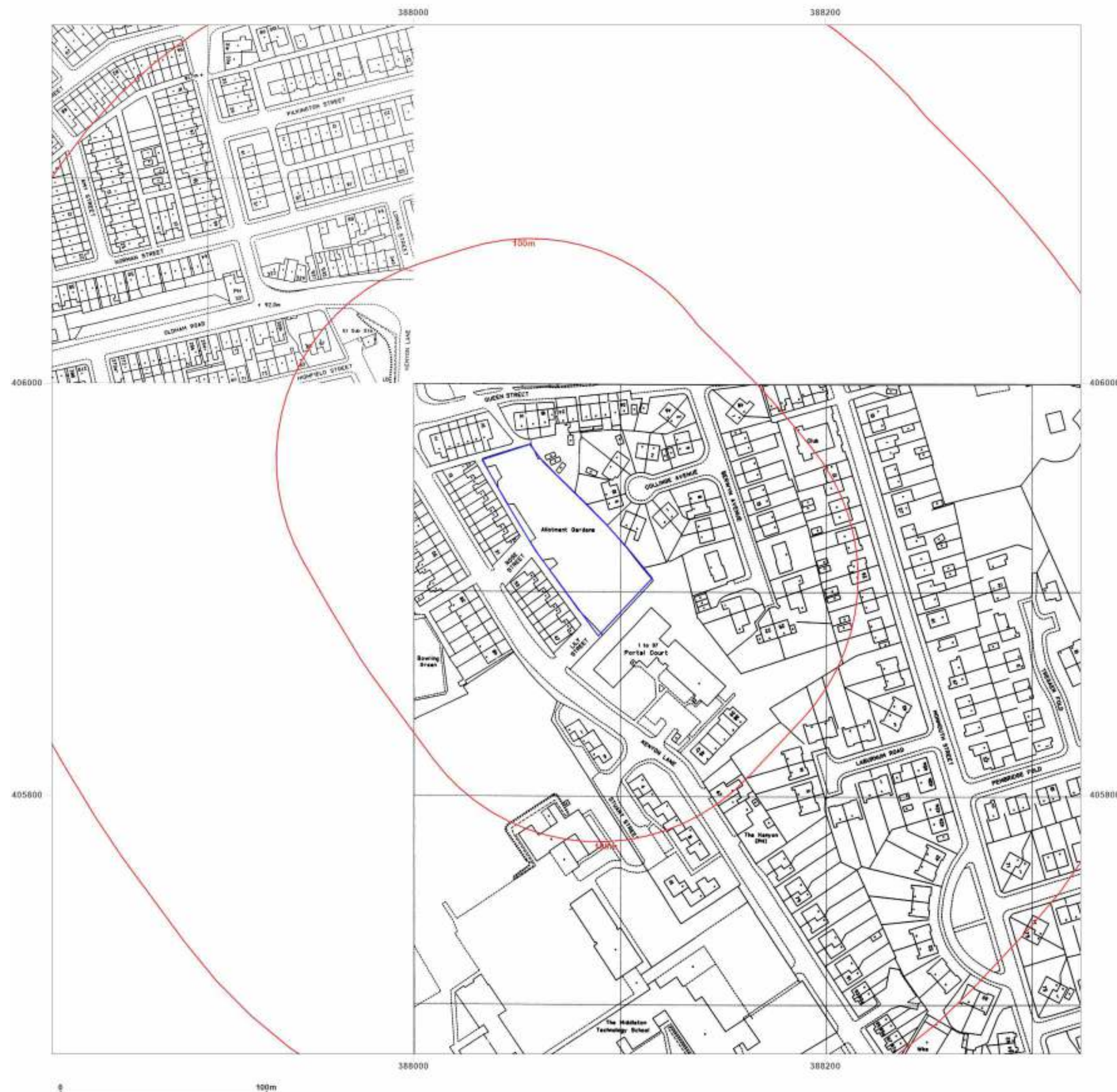


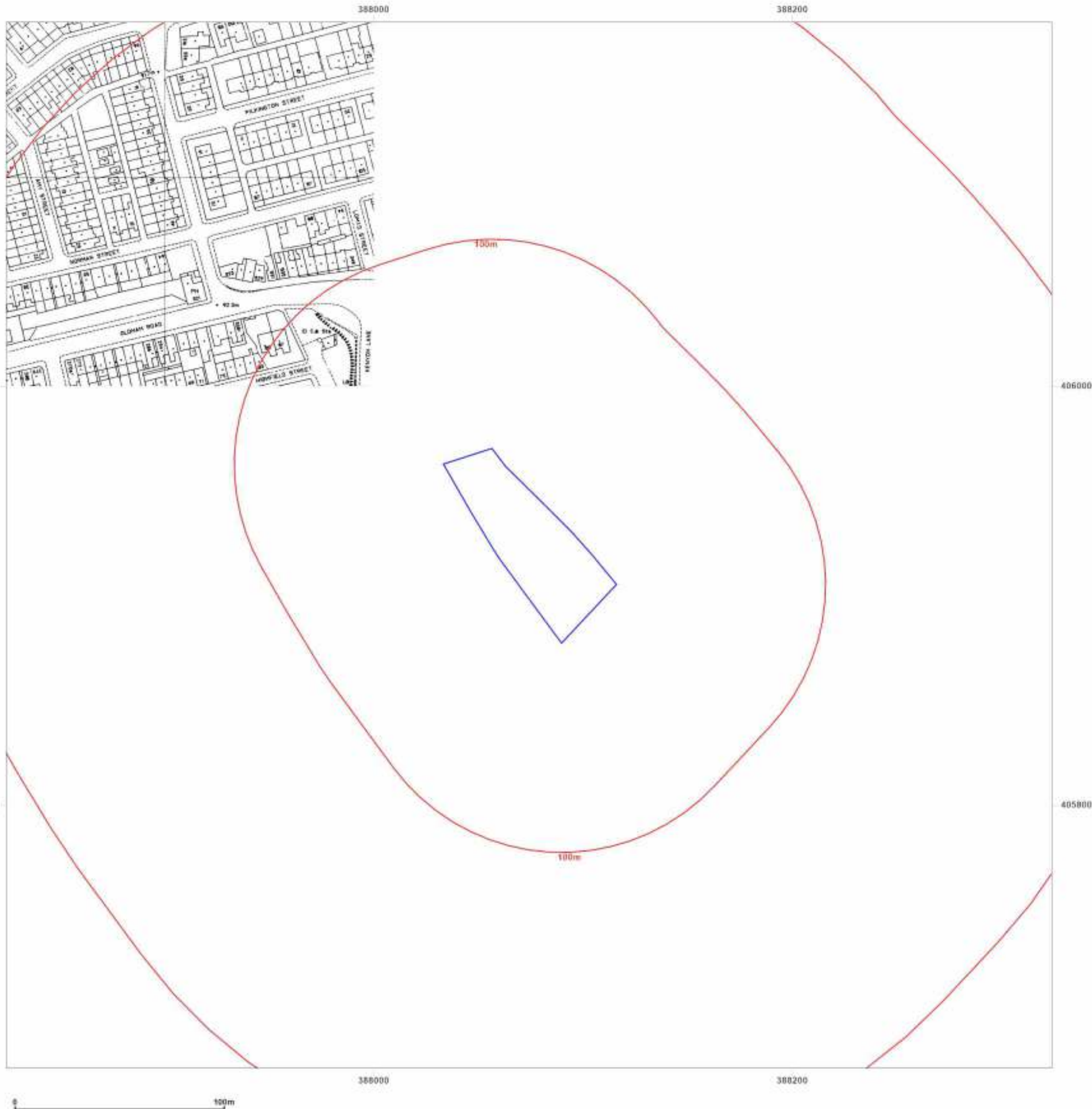
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

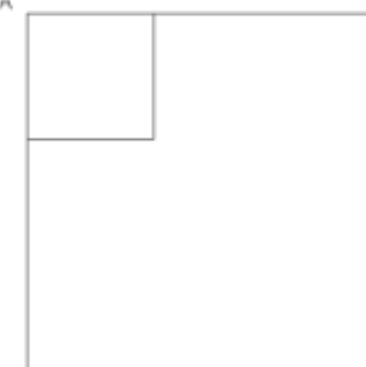
Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
Revised N/A
Edition N/A
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Grid Ref: 388074, 405924

Map Name: National Grid

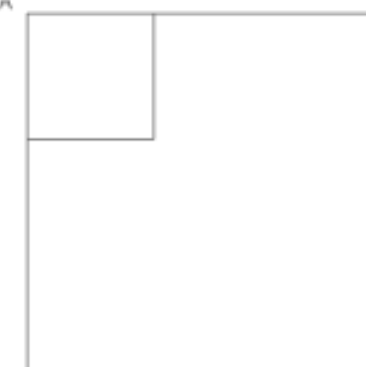
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Surveyed 1994
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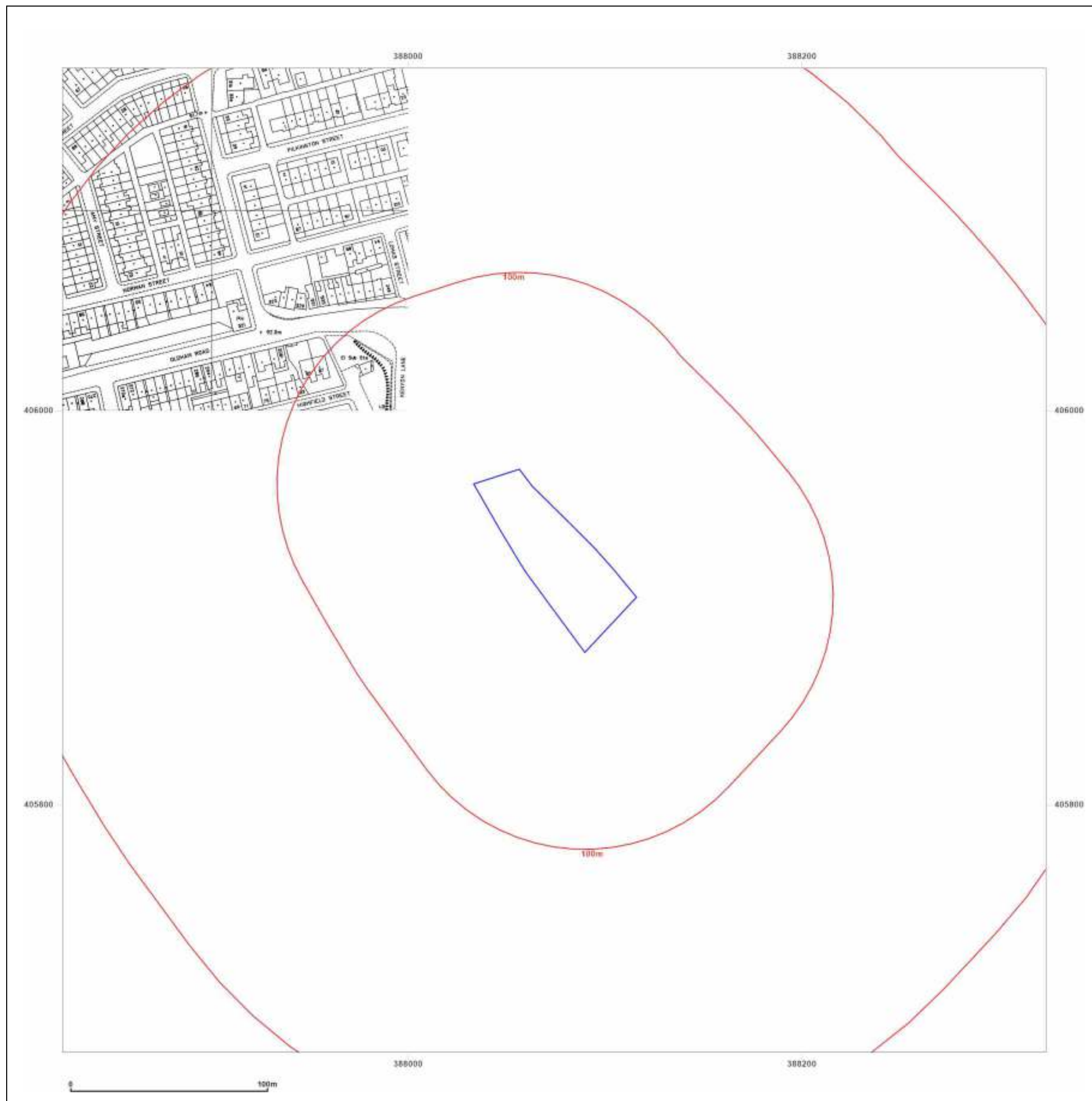


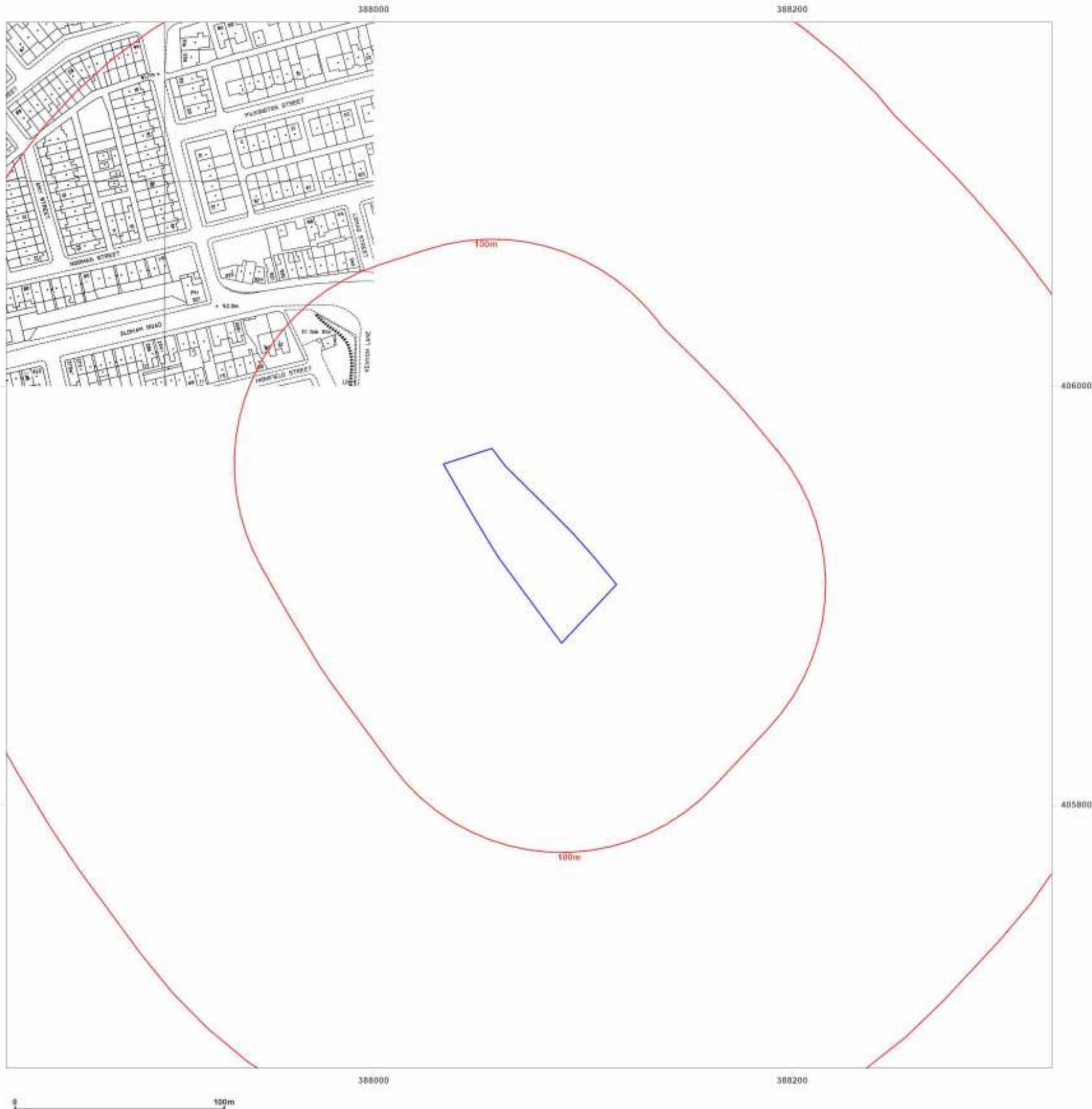
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: National Grid

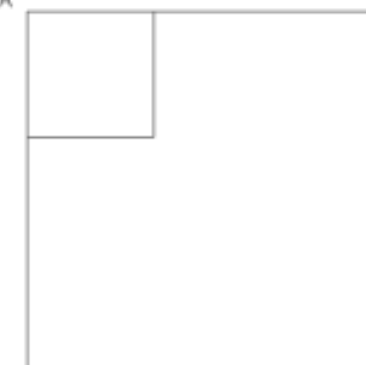
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Site Details:

Land North Side of Rose Street,
Middleton, Manchester, M24

Client Ref: CMAPS-CM-1079532-4199-060123
Report Ref: CMAPS-CM-1079532-4199-060123HIS
Grid Ref: 388074, 405924

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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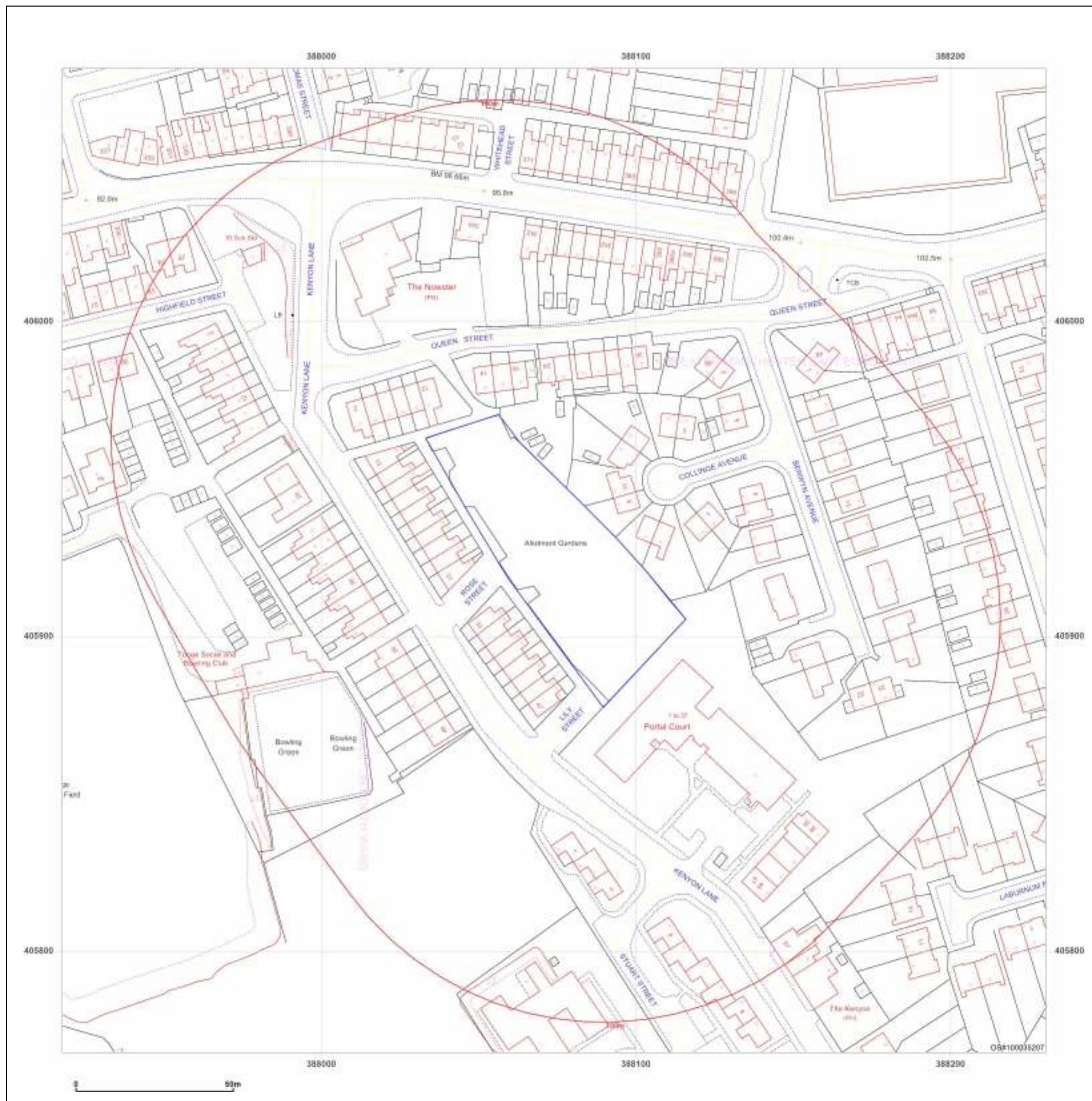


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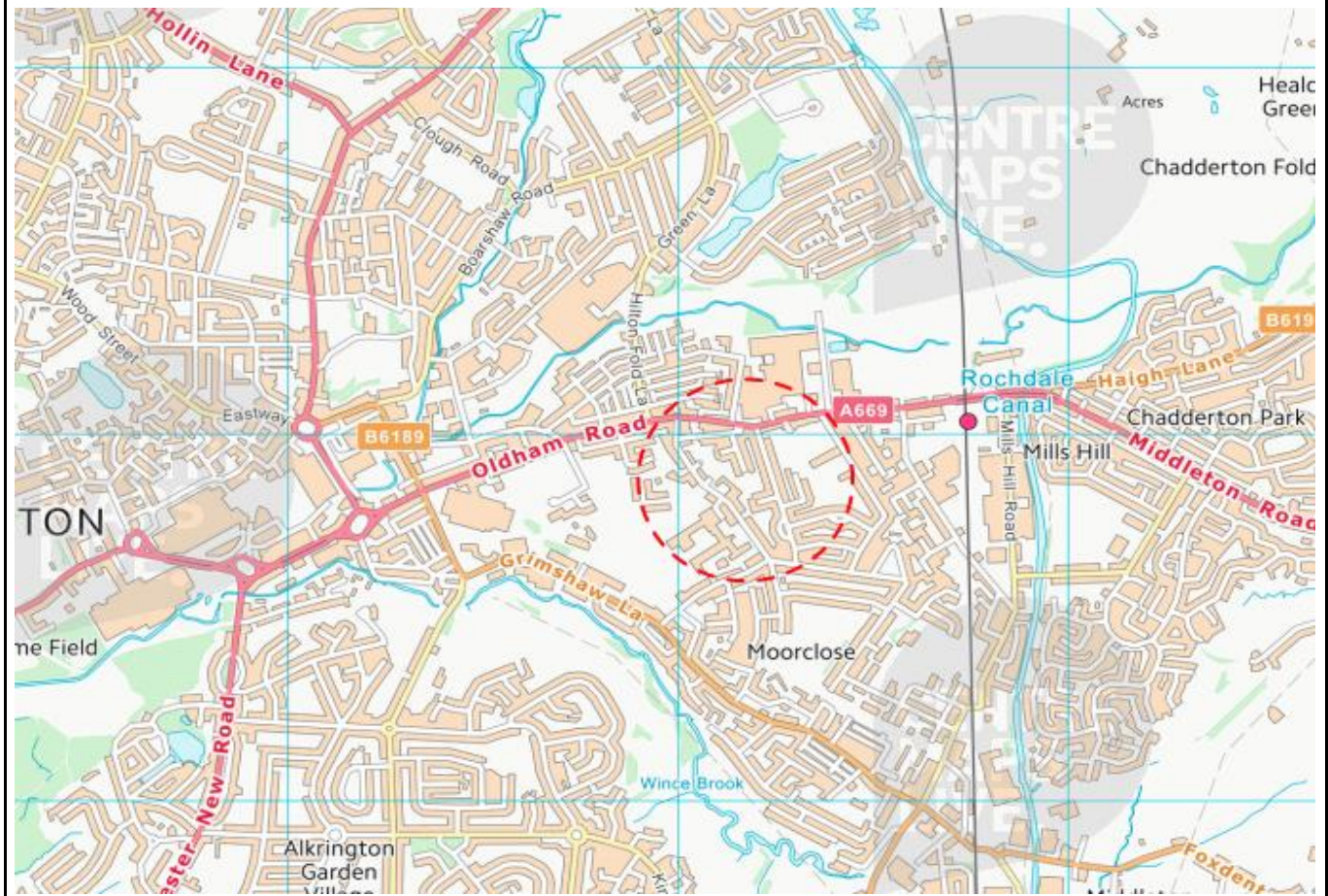
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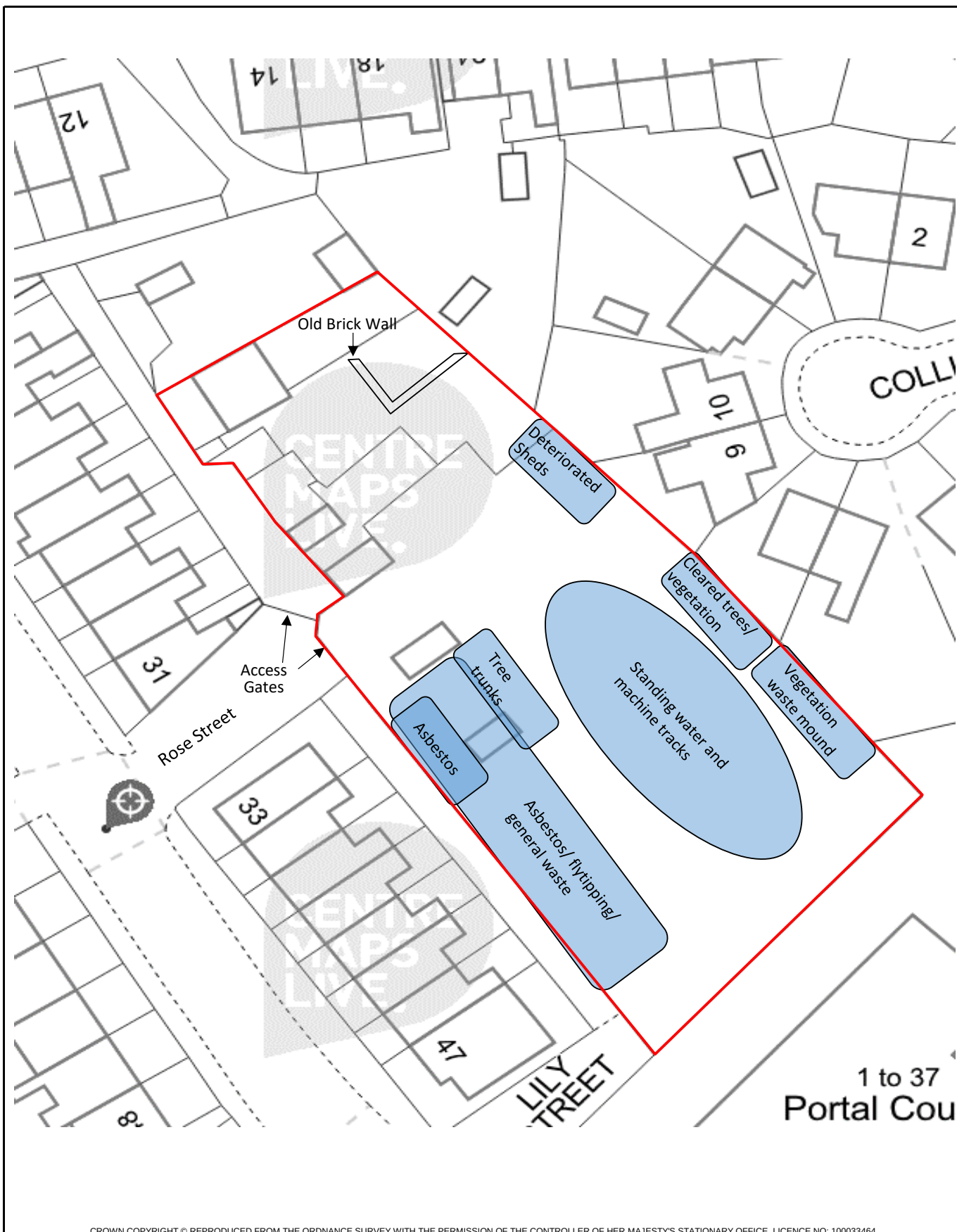
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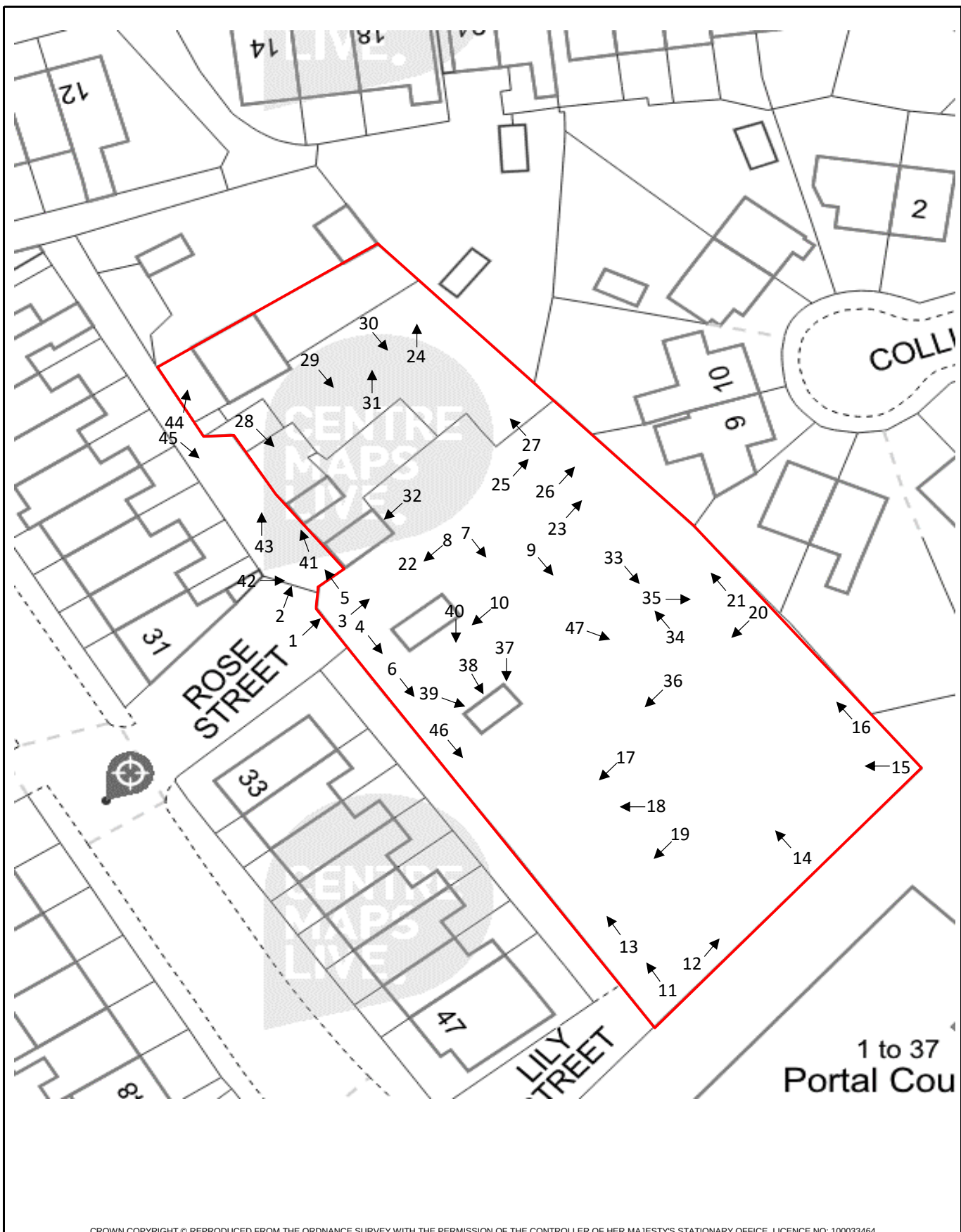
FIGURES



SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Location Plan			
Site: LAND TO NORTH OF ROSE STREET, MIDDLETON, MANCHESTER, M24	Date Drawn: 18-Jan-23	Date Checked:	Orientation: 	Job Number: 7653
Client: SECRET GARDEN DEVELOPMENTS LTD	Drawn By: WJP	Checked By:	Scale: —	Figure Number: 1



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Site: LAND TO NORTH OF ROSE STREET, MIDDLETON, MANCHESTER, M24		Date Drawn: 18-Jan-23	Date Checked:	Orientation: 	Job Number: 7653
Client: SECRET GARDEN DEVELOPMENTS LTD		Drawn By: WJP	Checked By:	Scale: —	Figure Number: 2



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Site: LAND TO NORTH OF ROSE STREET, MIDDLETON, MANCHESTER, M24		Date Drawn: 18-Jan-23	Date Checked:	Orientation: 	Job Number: 7653
Client: SECRET GARDEN DEVELOPMENTS LTD		Drawn By: WJP	Checked By:	Scale: —	Figure Number: 3



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: LAND TO NORTH OF ROSE STREET, MIDDLETON, MANCHESTER, M24	Date Drawn: 18-Jan-23	Date Checked:	Orientation: 	Job Number: 7653
Client: SECRET GARDEN DEVELOPMENTS LTD	Drawn By: WJP	Checked By:	Scale: —	Figure Number: 4