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DESK STUDY WITH WALKOVER SURVEY

**FOR
ARKADY INDUSTRIAL ESTATE,
BRISCOE LANE,
NEWTON HEATH,
GREATER MANCHESTER**

**PREPARED FOR
CASSEL & FLETCHER CONSTRUCTION
LIMITED**

**REPORT NO. 6921
MARCH 2020**

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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	Arkady Industrial Estate
	Grid Reference	386919 399493
	Current Land Use	The land currently is not in use and has undergone recent demolition work, highlighted by the large concrete footing of where the old factory stood.
	Proposed Development	Building a new factory on the site where the previous factory was.
Site History	On Site	The site was a clay pit between 1905- 1931 and was infilled by 1949. The report also identified a bricks work on the site itself. The old factory was first identified from the survey in 1966- 1968 and was expanded between 1979- 1984.
	Beyond Site Boundary	25m south there is a graveyard which was first identified from the survey in 1893. To the north, between 1893 to 1985 the northern boundary was adjacent to a railway line. After 1985 some of the track was removed and the depot was built. From the Historical Appraisal a refuse heap 30 west of the site was identified and was in operation from 1949 to 1968. There is also a coal storage yard 80m west of the site and was operational between 1893- 1979. There have been a further two brick works site, one 50m west and another 110m south east, the latter was lost from the survey between 1966- 1968. There is a garage 130m east, first recorded in 1966, which coincides with the rest of industrial development along Briscoe Lane.
Geological Appraisal	Made Ground	Made Ground and Infill has been identified to be on this site, from an old ground investigation the thickness of the made ground in the south of the site is between 1.60- 2.60m
	Superficial Geology	Glacial Till- Diamicton
	Bedrock Geology	Pennine Upper and Middle Coal Measures Formation- Mudstone Siltstone and Sandstone, the boundary between the two is located in the north east corner of the site.
	Radon	No Radon protection measures required.
	Mining	There are several coal seams inferred to be present, the nearest is about 123 metres to the south west, the other coal seams are 286m, 394m and 490m south west The dip and direction of dip of the rock strata, including the coal seam, is unknown. The Coal Authority, and others, indicate that there is a potential for coal mining beneath the site. In view of the above we recommend that a full Geological and Mining Appraisal should be carried out to assess the risk to ground stability due to mining.
	Subsidence Hazards	No subsidence hazards identified
Environmental Appraisal	Landfill Sites	There have been two ponds on the site the which were both infilled by 1922. The clay pit was infilled in 1949, due to its large size, and date of infill, it is unclear what material this was infilled with. In addition to this there has been a refuse heap 30m west of the site which was lost from the record by 1968.
	Hydrogeology	Secondary Undifferentiated- drift deposits of glacial till
		Pennine Upper and Middle Coal Measures Formation- Mudstone Siltstone and Sandstone- Secondary A aquifer
	Hydrology	There are no watercourses or surface water features within 250m of the site.
	Flood Risk	The report has identified the site as having a very low risk of flooding.
	Industrial Land Uses	The site was a clay pit between 1905- 1931 and was infilled by 1949. The report also identified a brick works on the site itself. The old factory was first identified from the survey in 1966- 1968 and was expanded between 1979- 1984.
	Other Relevant Details	Previous factory demolished after it sustained fire damage in 2018.

Recommendations	• Geological and Mining Appraisal to assess the potential workings of the coal seams beneath the site. • Phase II Ground Investigation with boreholes and laboratory testing to assess the ground conditions for foundation design. • Gas and water monitoring and water sampling due to proximity to a refuse heap and the site itself being a large area of infilled material.	
Other Considerations (for Warranty Providers, Building Control, Structural Engineers, Developers, etc.)	• Waste Classification and WAC testing for removal of waste to landfill.	

**DESK STUDY WITH WALKOVER SURVEY FOR ARKADY INDUSTRIAL ESTATE,
BRISCOE LANE, NEATON HEATH, MANCHESTER**

CLIENT: CASSEL & FLETCHER CONSTRUCTION LIMITED

ENGINEER:

1. INTRODUCTION

This report has been prepared in accordance with Purchase Order No. SC-91-001 dated 20th February 2020.

The brief was set out in our estimate, ref. E3955 and dated 19th February 2020 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 Briscoe Lane as indicated on Figure 1. The approximate National Grid Reference of the centre of the site is 386919 399493.

As shown on Figure 2, the irregular shaped about 0.45 hectare site is bounded to the south by Briscoe Lane. The Anglo- European Import Export factory on the western side of the site. A depot belonging to the Mont Blanc Coldstore company makes up the northern site boundary and Basic Welding limited marking the south east boundary. To the east, the site is bounded by a storage yard, moving north east, the site is then bound by an unnamed road/ tarmac area.

1.2 Proposed Development and Purpose of the Desk Study

We understand that it is proposed to rebuild the factory after the pre-existing factory was damaged in a fire in 2018 and was subsequently demolished, 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 25th February 2020. 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 site walkover, the site comprised of two concrete foundation blocks along the western boundary of the site. It was noted that the site is being used to store tanks, situated on the eastern boundary, containers, located south east and north east and pipe, situated just east of the footings of the two previous buildings (see Fig. 2). It was also noted that two tracked excavators and a set of tracks from another excavator

were on site and two skips suggesting the recent demolition of the two buildings on the site. One of the tracked excavators along with rubble was being used to block a gate located in the south of the site (see photo 33). There are also two sub-stations that were identified on site which were not denoted on the maps. The first sub-station was located roughly halfway on the western site boundary with the second located towards the south, still on the western site boundary.

Visual contamination was also identified from the survey (photos 4- 6 and 12), located in the north, north east part of the site (see Fig 2). Within this area there were oil stains and standing water which has an oil sheen to it. The contaminant was oil and or fuel, however the source of it was not identified. There was no olfactory 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	Survey	Scale
1848	CS	1:10,560
1890- 1891	CS	1:10,560
1905-1906	CS	1:10,560
1923	CS	1:10,560
1923	CS	1:10,560
1933-1934	CS	1:10,560
1938	CS	1:10,560
1956	OS	1:10,560
1966-1968	OS	1:10,560
1975**	OS	1:10,560
1980-1981	OS	1:10,000
1985	OS	1:10,000
1988- 1991	OS	1:10,000
2001	OS	1:10,000
2010	OS	1:10,000
2020	OS	1:10,000

TABLE 2 LARGE SCALE SURVEYS

Date	Survey	Scale
1893	CS	1:2,500
1908	CS	1:2,500
1922	CS	1:2,500
1931-1932	CS	1:2,500
1948-1949*	OS	1:2,500
1949	OS	1:2,500
1951	OS	1:2,500
1952*	OS	1:2,500
1953*	OS	1:1,250
1966-1968*	OS	1:2,500
1970	OS	1:2,500
1979-1984	OS	1:1,250
1979-1984	OS	1:1,250
1990- 1992	OS	1:1,250
1995*	OS	1:1,250
1992- 1995	OS	1:1,250
1995	OS	1:1,250
2003	OS	1:1,250

CS = County Survey, OS = Ordnance Survey, * Part of site not covered by survey ** Site not covered by the survey.

Extracts of the above surveys are appended.

TABLE 3 HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1848	The earliest survey shows the proposed area is within an area of farmland. In the southern part of the site, the survey suggests a track running through the site. Towards the centre of the site there appears to be a path running through the site.	The survey shows two ponds, one approximately 60m south and another 100m south east. There is a multiple track railway approximately 150m from site. The closest road, Hulme Hall Road, is 300m south west of the site. No housing has been identified close to the site however there is a park, The Grange, approximately 75m south, south- west of the site. Approximately 350m west of the site the survey identifies a coal pit.
1893	The track has been lost from the survey as well as the path through the site. There is now a pond towards the north of the site and a second one, which covers the north west corner of the site, with most of the pond forming the boundary to the site in this corner.	A large cemetery, 25m to the south has been identified from the survey. A new multiple track railway line has appeared 20m to the north, north west of the site. A coal yard has now been identified 80m west of the site. A brick works has been identified 175m to the north west. There is a new road, (Clifton Street) 125m north west. There is a new track that acts as the southern boundary to the site. There is a new pond 125m south west of the site. The coal pit has been lost from the survey. Ponds 60m south and another 100m south east have been lost from the survey.
1905-1908	The pond towards the north of the site has now been filled in. The site has become part of the Clay Pit identified from the survey.	There is a brick works 50m west of the site. The brick works 175m north west has been lost from the survey. There is a new housing development 110m north west of the site along Clifton Street. There is another pond 125m west of site. The track has now become a road, Briscoe Lane and has another road, Cemetery Road coming off it, 25m south east of the site

TABLE 3 (Cont'd) HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1922-1923	The pond in the north west corner of the site has now been filled in/ lost from the survey.	The brick works 50m from the site has been lost from the survey/ moved to a new location 110m south east of the site. There is a tram link that connects to the brick works 150m east. There is a gasometer 300m from the site. There has been further housing development 110m north west of the site. There is a second cutting 125m west of the site. The railway track is now directly to the north of the site.
1931-1934	The Clay pit denotation has been lost from the survey; however, the cutting is still present over the site.	There is a new pond 60m east of the site. There is a wagon repair works 125m north of the site.
1938	No significant changes to the site.	No significant changes to the surround area.
1948-1949	Site not shown on the survey.	The wagon repair works is now denoted as a chemical works. There is another factory Upholstery works, 225m north of the site. There is a sub- station 100m south east of the site.
1949	The cutting that covered the site has been infilled/ lost from the survey.	There is a refuse tip now approximately 30 metres west of the site. The pond 125m west of site has been lost from the record/ been infilled.
1951	No significant changes to the site.	No significant changes to the surround area.
1952	Site not covered by the survey.	There is a scrap metal works 175m north west of the site.
1953	No significant changes to the site.	No significant changes to the surround area.
1956	No significant changes to the site.	No significant changes to the surround area.
1966-1968	There has been a factory built in the southern part of the site.	The refuse heap appears to be lost from the survey. There is a public house which now makes up the boundary on the east south east part of site. There is a warehouse 40m east of the site. There is a garage, 130m west of the site as well as fire station 230m west. The pond 60m east of the site has been lost from the survey (infilled). The bricks works has been lost from the survey. There is now an abattoir and subway 175m east of the site.

TABLE 3 (Cont'd) HISTORICAL APPRAISAL

Date	On site	Beyond site boundary
1970	No significant changes to the site.	No significant changes to the surrounding area.
1975	Site not covered by the survey.	Surrounding area not showing 250m radius from the site.
1979-1984	Further development of the factory within the site.	There is now a school 200m north west of the site. The coal yard is no longer denoted on the maps, assuming coal yard is now longer in use. There is an unspecified works building adjacent to the site on the western boundary. The upholstery works has now been converted into a scrap yard.
1985	No significant changes to the site	Land has been reclaimed to the north of the site after the apparent dismantling of the railway to the north. Consequently, there is a building marking the northern boundary of the site.
1988-1992	The factory on the site connect to the now denoted depot on the northern boundary of the site.	There is now a sub- station less than 10m away towards the north west section of site. There is further industrial development to the north of the site, the closest 120m north west, which has its own identified tank, 110m north west of the site. There appears to be two cuttings the first, 25m and the second 50m east of the site
1992-1995	No significant changes to the site.	No significant changes to the surrounding area.
2001	No significant changes to the site.	No significant changes to the surrounding area.
2003	No significant changes to the site.	The tank 110m north west of the site has been lost from the survey.
2010	No significant changes to the site.	The gas works is now denoted as a Gas Holder and the associated ancillary structures appear to have been dismantled.
2020	No significant changes to the site.	No significant changes to the surrounding area.

2.2 Brief 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)

Made Ground, described as, Made Ground (undivided) has been identified to the north of the site and Infilled Ground has been identified to be present in the south of the site, the depth of which is unknown.

2.2.2 Superficial Geology (Drift Deposits)

Drift deposits, described as Till, Diamicton, are indicated to be present within the site, the depth of which is unknown.

2.2.3 Bedrock Geology

The bedrock underlying the site is indicated to be Pennine Upper Coal Measures Formation- Mudstone Siltstone and Sandstone. In the north east corner of the site, the bedrock is indicated be Pennine Middle Coal Measures Formation- Mudstone Siltstone and Sandstone.

There is a boundary between the Pennine upper and Pennine middle coal measures formation in the north east of corner of the site which is marked by a fossil (marine) horizon.

There are several coal seams inferred to be present, the nearest is about 123 metres to the south west, the other coal seams are 286m, 394m and 490m south west. The dip and direction of dip of the rock strata, including the coal seam, is unknown. Given the location of the coal seam, the unknown dip direction, and shallow superficial cover there is a possibility of a coal seam to be present under the site.

The rock strata are indicated to be displaced by geological faults about 292 metres to the north east.

2.2.4 Boreholes

The Groundsure Enviro+Geo Insight Report, list boreholes of an old ground investigation in the south of the site, the findings are as follows: made ground from ground level to between 1.60m to 2.60m with a firm to stiff Clay down to 8.20m and a very dense sand from 8.20m which we have inferred to be Sandstone.

2.2.3 Potential Hazards in Natural Ground

The risk from on-site shrinking/ swelling clays is very low, running sands is very low, compressible deposits/ strata is negligible for most of the site with a very low risk towards the southern boundary of the site, collapsible deposits/ strata is very low, landslides is very low and dissolution of soluble rocks is negligible.

2.3 **Brief 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

Natural cavities, in the form of sinkholes and caves, are formed by the dissolution of soluble rocks such as chalk and limestone. The natural cavities, if at relatively shallow depth, can lead to ground instability. There are no records of natural cavities within 500 metres of the site boundary.

The British Geological Surveys “BritPits” database contains details of currently active and closed surface and underground mineral workings. There are three records of

BritPits within 500 metres of the site boundary, the nearest being a Clay Pit found on site.

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 twenty- eight, six of which are found on the site itself, historical surface excavations within 250 metres of the site boundary. Those found on site include a clay pit, two ponds, two unspecified pits and a brick works.

In addition, the Ordnance Survey mapping identifies underground workings in the form of tunnels, shafts and similar features. The Ordnance Survey indicates that there three historical underground workings within 1,000 metres of the site boundary: the nearest being a colliery about 910 metres to the south of the site boundary.

The boundaries of permitted, withdrawn and refused mineral planning permissions for England and Wales, from the 1930 to the mid- 1980s, are maintained by the British Geological Survey. There are one historical mineral planning areas within 29 metres east 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 a potential for non-coal mining beneath the site about 979 metres to the south of the site boundary. The potential for difficult ground conditions is very low due to the proximity of the underground working to the site.

A Coal Authority Mining Report, ref. 6921 and dated 21st February 2020, is appended. The Coal Authority Mining Report only refers to records in the possession of the Coal Authority. It should be noted that it did not become a statutory requirement to maintain and preserve plans of abandoned mines until the Mines (Coal) Regulations Act of 1872, by which date much unrecorded mining had taken place and of those plans which were made it is likely that not all will have survived.

In view of the above we recommend that a full Geological and Mining Appraisal should be carried out to confirm this finding.

The Cheshire Brine Subsidence Compensation Board indicates areas that may be affected by salt and brine extraction. Compensation would be normally be available where damage has occurred in Cheshire. The site is indicated to be outside the Cheshire Brine Subsidence Compensation District.

British Gypsum indicate general areas that may be affected by gypsum extraction. The site is indicated to be outside the areas that may be affected by gypsum extraction.

Mineral Searches UK indicate general areas that may be affected by historical tin mining. The site is indicated to be outside the areas that may be affected by historical tin mining.

The Kaolin and Ball Clay Association (UK) indicate general areas that may be affected by historical kaolin and ball clay extraction. The site is indicated to be outside the areas that may be affected by historical kaolin and ball clay extraction.

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.

The British Geological Survey have estimated likely background concentrations of potentially harmful arsenic, cadmium, copper, nickel, lead, tin and zinc in an urban 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 active or inactive underground or over ground railways and no railway tunnels within 250 metres of the site boundary.

There are no underground railways within 250 metres of the site boundary.

There are forty- nine historical railways and sidings within 250 metres of the site boundary, sixteen of these have been identified as being on the site.

There are eight active railways within 250 metres of the site boundary, the nearest being about 41 metres to the north west of the site boundary.

The site is not within 500 metres of Crossrail 1, is not within 500 metres of Crossrail 2 and is not within 500 metres of the High Speed 2 (HS2) rail project.

2.4 **Environmental Appraisal**

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

Historical Industrial Land Use

Historical potentially contaminative industrial land uses are recorded by the Ordnance Survey. Within the site there are eight potentially contaminative industrial land uses including a clay pit, brick works, coal yard, railway sidings, electricity sub- station and transformer and an unspecified pit and factory. In addition, within 500 metres of the site boundary, there are one hundred potentially contaminative industrial land uses. Those that represent the most significant risk to the site are a cemetery, coal yard, brick works, abattoir and garage, and are indicated to be about 14, 19, 29, 32 and 111 metres to the south east, west, east and south west of the site boundary respectively.

There are three unspecified tanks within 250m of the site, 43m west, 92m north west and 175m north east. Additionally, there is also a gas works 282m south west of the site.

There are two historical garages within 250m of the site. The first being a wagon repair shop 84m north west and the second a garage 100m south west.

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 a refuse heap 30m west of the site and was lost from the survey/ decommissioned by 1968.

Landfill

According to the Environment Agency and Natural Resources Wales there are no active or recently closed landfill sites within 500 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 500 metres of the site.

Local Authority records and detailed Ordnance Surveys indicate that there are no landfill sites within 500 metres of the site.

The Environment Agency and Natural Resources Wales have one record, 275m south west, of known historical (closed) landfill sites, where there is no PPC permit or current waste management licence, within 500 metres of the site boundary.

Our historical appraisal has identified five unregistered landfills within 250 metres of the site boundary in the form of unregistered clay pit, refuse heaps and ponds infilled with unknown material which may be a source of ground gas. The ponds provide a very low risk due to their size and the date of back fill, 1922. The Clay pit appears to be actively worked up until 1931 and backfilled in 1949. Given its size and unknown depth of the infilled material this may provide a low to moderate risk of ground gas. The refuse tip provides a moderate risk of ground gas given its size, it being unregistered according to the Groundsure Enviro+Geo Insight Report and it being decommissioned in 1968. Out of the five identified the refuse heap and clay pit, given the size and material they have been infilled with, they could provide a moderate risk of ground gas on this site.

Waste

Local Authority records and detailed Ordnance Surveys indicate seven waste sites within 500 metres of the site, the nearest being about 55 metres to the north east of the site boundary.

According to the Environment Agency and Natural Resources Wales there are two active or recently closed waste sites within 500 metres of the site boundary, the nearest being about 89 metres to the north east of the site boundary.

The Environment Agency and Natural Resources Wales have records thirty- five activities involving the storage, treatment, use or disposal of wastes that are exempt

from needing a permit (within specific limits and conditions) within 500 metres of the site boundary, four of the activities occur on the proposed site.

Current Industrial Land Use

Current potentially contaminative industrial land uses are recorded by the Ordnance Survey. Within the site there are two potentially contaminative industrial land uses including general construction supplies and an unspecified works. In addition, within 500 metres of the site boundary, there are twenty- two potentially contaminative industrial land uses. Those that represent the most significant risk to the site are the electrical sub- station and are indicated to be about 4 metres to the south west of the site boundary respectively.

National Grid data indicates that there are currently no high voltage underground electricity transmission cables within 500 metres of the site boundary.

National Grid data indicates that there are currently no high-pressure underground gas transmission pipelines within 500 metres of the site boundary.

Sites Determined as Contaminated Land

There are no sites determined as contaminated under Section 78R of the Environmental Protection Act (1990) within 500 metres of the site boundary.

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 500 metres of the site boundary, it being about 302 metres to the south west of the site boundary.

Regulated Explosives Sites

Up to April 2015 there are no sites within 500 metres of the site boundary registered and licensed by the Health and Safety Executive under the 2005 Manufacture and Storage of Explosives Regulations.

Hazardous Substance Storage and Usage

There are two 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 500 metres of the site boundary, the nearest being about 343 metres to the south west of the site boundary.

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 500 metres of the site boundary.

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 500 metres of the site boundary, the nearest being about 309 metres to the north west of the site boundary.

Part A(2) and Part B Authorisations

Local Authority records indicate there are six 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 500 metres of the site boundary, the nearest being a historical permit pertaining to animal/ plant and vegetable processes within the site boundary.

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 500 metres.

Licensed Discharges to Controlled Waters

According to Environment Agency and Natural Resources Wales records there have been eight discharges of treated or untreated effluent to controlled water under the 1991 Water Resources Act within 500 metres of the site boundary, the nearest being about 295 metres to the north west of the site boundary.

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 500 metres.

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 500 metres.

List I and List II Dangerous Substances

The Environment Agency and Natural Resources Wales records indicate that there have been two discharges of substances on List I and no discharges on List II of the European Directive E2006/11/EC respectively, regulated under the 2015 Environmental Damage (Prevention and Remediation) Regulations, within 500 metres of the site boundary, the nearest being about 309 metres to the north west of the site boundary.

Pollution Incidents

According to the Environment Agency and Natural Resources Wales there are records of one substantiated pollution incidents within 500 metres of the site boundary, the nearest being about 455 metres to the north east of the site boundary, which, in our opinion, will not have affected the site.

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 500 metres of the site boundary.

Pollution Inventory Waste Transfers

According to the Environment Agency and the Scottish Environment Protection Agency there have been one report on annual transfers and recovery/ disposal of controlled wastes within 500 metres of the site boundary, the nearest being about 309 metres to the north west of the site boundary.

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 500 metres of the site boundary.

Hydrogeology

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

The drift deposits comprise of Till, diamicton, which are indicated to be a secondary undifferentiated aquifer. i.e. either Secondary A or Secondary B.

A Secondary A aquifer comprises permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers. A Secondary B aquifer comprises predominantly lower permeability layers which may store or yield limited amounts of groundwater due to localised features such as fissures and thin permeable horizons.

The bedrock comprises Pennine Upper and Middle Coal Measures Formation-Mudstone Siltstone and Sandstone which are indicated to be a Secondary A aquifer.

A Secondary A aquifer comprises permeable layers capable of supporting water supplies at a local scale and in some cases forming an important source of base flow to rivers.

The vulnerability of groundwater to a pollutant found within the site and its immediate surrounding area has been assessed as low.

"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.

There are three surface water abstraction licences, five groundwater abstraction licences and no potable water abstraction licences within 2000 metres of the site

boundary according to data provided by the Environment Agency and Natural Resources Wales.

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.

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 Medlock.

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 "Very Low/ Low/ Medium/ High". / indicates that there is no risk of flooding.

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

The site boundary is not within 50 metres of a Flood Zone 2 and is not within 50 metres of Flood Zone 3.

According to Ambiantal Risk Analytics surface water "FloodMap" there is a medium risk of flooding on the site and a medium risk of flooding 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. Ambiantal Risk Analytics indicate that there is a moderate risk of groundwater flooding on the site and a moderate risk of groundwater flooding within 50 metres of the site boundary.

Environmental Designations

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

The site is within 2000 metres of Sites of Local Nature Reserves (LNR) 652m south east, Green Belt Land 712m east, and Nitrate Vulnerable Zones 808m north.

Visual and Cultural Designations

Historic England, Cadw and Historic Environment Scottish indicate that within 250 metres of the site boundary there are three Grade II Listed Buildings, and a Grade II Registered Park and garden.

Agricultural Designations

Natural England indicate that the Agricultural Land (quality) Classification for the site is Grade 5 and the land within 250 metres of the site is Grade 5.

Grade 5, 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.

Habitat Designations

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

2.5 Conceptual Ground Model

A conceptual ground model of a site and its environmental 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.

Sources

Potential sources of contamination identified in the desk study are:

- Unknown contaminants in the areas identified as made ground and infill underlying the site. It is not known what the infill material or made ground consists of.
- Contaminants from the fire damage to the building and possibly solvents, PFAS and PAH's, polycyclic aromatic hydrocarbons, could now present from the firefighting equipment.
- Possible contaminants associated with the coal storage yard 80m north west, which was first identified from the historical appraisal in 1893 and lost from the survey in 1979.

- Potential for groundwater contamination and ground gas from the graveyard 14m south west of the proposed site. The graveyard was first identified from the historical appraisal in 1893.
- Potential for (PAH's) as well as fuels and lubricants maybe found towards the north of the site where the historical railway and railway sidings once were.
- Hydrocarbon contamination from spillage and leakage of oils and fuels associated with the garage 140m east and unspecified former site use and adjacent factory buildings.
- Migration of ground gases from the refuse heap 30m north west as well as the site being a worked clay pit and was infilled/ lost from the survey in 1931.

Pathways

Potential pathways between sources and receptors for the proposed development are:

- Direct contact with and ingestion of contaminated soil and inhalation of dust by site operatives during construction and by end users of the site.
- Inhalation of vapours by site operatives during construction and by end users of the site in enclosed ground floor spaces.
- Uptake of contaminated groundwater by plants grown in landscaped areas.
- Accumulation of ground gases in enclosed spaces.

Receptors

Potential receptors for the proposed development are:

- Site operatives during the construction phases.
- The workers who will be the end users of the site.
- Controlled waters including the underlying aquifer.
- Plants grown in landscaped areas.

Conclusions

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

TABLE 4 CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Made Ground (from the infilling of the clay pit, the railway sidings and general construction of the buildings on the 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	Moderate
			Ingestion of dust	End Users	
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		
			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	Moderate
Asbestos on/ in ground	Asbestos fibres	Asbestos fibres	Inhalation of fibres	Site Operatives End Users	Low
Historic and present trains.	Fuel/ oil spillage and/or leakage from machinery, fuel/oil tanks and/or vehicles	Total Petroleum Hydrocarbons (TPH) and/ or Benzene/ Toluene/ Ethylbenzene/ Xylene (BTEX)	Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours	Site Operatives End Users	Moderate-Low
Machinery	Grease spillage and/or leakage from machinery	Solvents	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 (an unregistered refuse tip 30m west and large infilling of the site due to historic clay it)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives End Users	Moderate

TABLE 4 (Cont'd) CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Electricity Sub Station built in 1988, potentially built after PCB ban.	Spillage/ leakage of transformer coolants	Poly Chlorinated Biphenyls (PCB)	Ingestion of soil	Site Operatives	Low
			Ingestion of dust	End Users	
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		
			Uptake via contaminated groundwater	Vegetation	Very Low
			Vertical and lateral movement of mobile contaminants to surface water and groundwater	Controlled Waters	Very Low
			Direct contact	Structures and Services	Very Low
Fire to building	Contaminants produced as a result of fighting the fire: PFAS PAH's	Ingestion of soil Ingestion of dust Dermal contact Inhalation of dust Inhalation of vapours Uptake via contaminated groundwater Vertical and lateral movement of mobile contaminants to surface water and groundwater Direct contact	Site Operatives	Moderate to High	Low
			End Users		
			Vegetation	Low	
			Controlled Waters	Low	
			Structures and Services	Moderate	

TABLE 4 (Cont'd) CONCEPTUAL GROUND MODEL

Potential Source	Nature of Hazard	Contaminants Associated with the Source	Pathway	Receptor	Preliminary Risk Rating
Graveyard (1)	Contaminant leachate from burials	Cadmium Nickel Formaldehyde Ammonia	Ingestion of soil	Site Operatives	Low
			Ingestion of dust	End Users	
			Dermal contact		
			Inhalation of dust		
			Inhalation of vapours		
			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	Very Low
Graveyard (2)	Ground Gas (Asphyxiation, fire and explosion)	Methane Carbon Dioxide	Inhalation of gas Ignition of gas	Site Operatives	Low

The conceptual ground model indicates that 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.

Given the findings of the preliminary geological and mining appraisal a detailed geological and mining assessment is recommended followed by a ground stability assessment in order to determine whether there is a significant risk from shallow coal mining beneath the site.

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. As identified earlier, we recommend a Geological and Mining appraisal to be carried out prior to 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 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 Miss Anna Marsden at our Preston office.

SUB SURFACE CONSULTANTS LIMITED
REPORT No. 6921
MARCH 2020



S. C. Boot B.Sc.(Hons.), F.G.S.
Geoenvironmental Engineer
For and on behalf of
Sub Surface Consultants Limited



D.B.Ravenscroft-Jones Cert.Nat.Sci, B.Sc.(Hons.), M.Sc., C.Env, M.S.E.E, M.I.Env.Sc
Senior Geoenvironmental Engineer
For and on behalf of
Sub Surface Consultants Limited

PRELIMINARY RISK RATING GUIDANCE

PRELIMINARY RISK RATING GUIDANCE

The following table taken from 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: ARKADY INDUSTRIAL ESTATE, MANCHESTER
Client: CASSEL & FLETCHER CONSTRUCTION LIMITED
Engineer:

Job Number:
6921
Sheet:
1 / 6
Survey Date:
26/02/20

WALKOVER SURVEY PHOTOGRAPHS

1



2



3



4



5



6



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Client: CASSEL & FLETCHER CONSTRUCTION LIMITED		Sheet: 2 / 6	
Engineer:		Survey Date: 26/02/20	
WALKOVER SURVEY PHOTOGRAPHS			
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Client: CASSEL & FLETCHER CONSTRUCTION LIMITED		Sheet: 3 / 6	
Engineer:		Survey Date: 26/02/20	
WALKOVER SURVEY PHOTOGRAPHS			
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Client: CASSEL & FLETCHER CONSTRUCTION LIMITED		Sheet: 4 / 6	
Engineer:		Survey Date: 26/02/20	
WALKOVER SURVEY PHOTOGRAPHS			
19		20	
			
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Client: CASSEL & FLETCHER CONSTRUCTION LIMITED		Sheet: 5 / 6	
Engineer:		Survey Date: 26/02/20	
WALKOVER SURVEY PHOTOGRAPHS			
25		26	
			
27		28	
			
29		30	
			

Site: ARKADY INDUSTRIAL ESTATE, MANCHESTER

Client: CASSEL & FLETCHER CONSTRUCTION LIMITED

Engineer:

WALKOVER SURVEY PHOTOGRAPHS

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ENVIRO & GEO INSIGHT REPORT

Arkady Industrial Estate, Briscoe Lane, Newton Heath, Manchester, M40 2XG

Order Details

Date: 21/02/2020
Your ref: 4199
Our Ref: CMAPS-CM-862275-4199-210220EDRGEO
Client: CENTREMAPS

Site Details

Location: 386919 399493
Area: 0.45 ha



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.12 groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

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	17	12	49	151	-
22	1.2	Historical tanks	0	1	3	98	-
26	1.3	Historical energy features	2	1	3	26	-
27	1.4	Historical petrol stations	0	0	0	0	-
28	1.5	Historical garages	0	0	4	0	-
28	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
29	2.1	Historical industrial land uses	21	21	65	251	-
42	2.2	Historical tanks	0	5	5	149	-
48	2.3	Historical energy features	2	2	4	51	-
51	2.4	Historical petrol stations	0	0	0	0	-
51	2.5	Historical garages	0	0	6	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
52	3.1	Active or recent landfill	0	0	0	0	-
52	3.2	Historical landfill (BGS records)	0	0	0	0	-
53	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
53	3.4	Historical landfill (EA/NRW records)	0	0	0	1	-
53	3.5	Historical waste sites	0	0	8	11	-
56	3.6	Licensed waste sites	0	0	4	0	-
58	3.7	Waste exemptions	4	0	31	0	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
62	4.1	Recent industrial land uses	2	5	17	-	-
64	4.2	Current or recent petrol stations	0	0	0	0	-
64	4.3	Electricity cables	0	0	0	0	-
64	4.4	Gas pipelines	0	0	0	0	-
65	4.5	Sites determined as Contaminated Land	0	0	0	0	-



65	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	0	1	-
65	4.7	Regulated explosive sites	0	0	0	0	-
65	4.8	<u>Hazardous substance storage/usage</u>	0	0	0	2	-
66	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
66	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	2	-
67	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	1	1	2	2	-
68	4.12	Radioactive Substance Authorisations	0	0	0	0	-
68	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	8	-
69	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
69	4.15	Pollutant release to public sewer	0	0	0	0	-
70	4.16	<u>List 1 Dangerous Substances</u>	0	0	0	3	-
70	4.17	List 2 Dangerous Substances	0	0	0	0	-
70	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	0	1	-
71	4.19	Pollution inventory substances	0	0	0	0	-
71	4.20	<u>Pollution inventory waste transfers</u>	0	0	0	1	-
72	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
73	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
75	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
77	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
78	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
78	5.5	Groundwater vulnerability- local information	None (within 0m)				
79	5.6	<u>Groundwater abstractions</u>	0	0	0	2	23
86	5.7	<u>Surface water abstractions</u>	0	0	0	0	6
87	5.8	Potable abstractions	0	0	0	0	0
88	5.9	Source Protection Zones	0	0	0	0	-
88	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
89	6.1	Water Network (OS MasterMap)	0	0	0	-	-

89	6.2	Surface water features	0	0	0	-	-
90	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
90	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
91	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
92	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
92	7.2	Historical Flood Events	0	0	0	-	-
92	7.3	Flood Defences	0	0	0	-	-
92	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
93	7.5	Flood Storage Areas	0	0	0	-	-
94	7.6	Flood Zone 2	None (within 50m)				
94	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
95	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
97	9.1	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
98	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
99	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
99	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
99	10.4	Special Protection Areas (SPA)	0	0	0	0	0
99	10.5	National Nature Reserves (NNR)	0	0	0	0	0
100	10.6	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	1
100	10.7	Designated Ancient Woodland	0	0	0	0	0
100	10.8	Biosphere Reserves	0	0	0	0	0
100	10.9	Forest Parks	0	0	0	0	0
101	10.10	Marine Conservation Zones	0	0	0	0	0
101	10.11	<u>Green Belt</u>	0	0	0	0	1
101	10.12	Proposed Ramsar sites	0	0	0	0	0



101	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
102	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
102	10.15	Nitrate Sensitive Areas	0	0	0	0	0
102	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
103	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
104	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
105	11.1	World Heritage Sites	0	0	0	-	-
106	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
106	11.3	National Parks	0	0	0	-	-
106	11.4	<u>Listed Buildings</u>	0	0	3	-	-
107	11.5	Conservation Areas	0	0	0	-	-
107	11.6	Scheduled Ancient Monuments	0	0	0	-	-
107	11.7	<u>Registered Parks and Gardens</u>	0	1	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
108	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
109	12.2	Open Access Land	0	0	0	-	-
109	12.3	Tree Felling Licences	0	0	0	-	-
109	12.4	Environmental Stewardship Schemes	0	0	0	-	-
109	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
110	13.1	<u>Priority Habitat Inventory</u>	0	0	5	-	-
111	13.2	Habitat Networks	0	0	0	-	-
111	13.3	<u>Open Mosaic Habitat</u>	0	0	2	-	-
111	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
113	14.1	<u>10k Availability</u>	Identified (within 500m)				
114	14.2	<u>Artificial and made ground (10k)</u>	2	2	3	4	-
116	14.3	<u>Superficial geology (10k)</u>	1	0	1	2	-



117	14.4	Landslip (10k)	0	0	0	0	-
118	14.5	<u>Bedrock geology (10k)</u>	2	0	0	5	-
119	14.6	<u>Bedrock faults and other linear features (10k)</u>	1	0	1	5	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
120	15.1	<u>50k Availability</u>	Identified (within 500m)				
121	15.2	<u>Artificial and made ground (50k)</u>	1	0	0	0	-
122	15.3	<u>Artificial ground permeability (50k)</u>	1	0	-	-	-
123	15.4	<u>Superficial geology (50k)</u>	1	0	1	0	-
124	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
124	15.6	Landslip (50k)	0	0	0	0	-
124	15.7	Landslip permeability (50k)	None (within 50m)				
125	15.8	<u>Bedrock geology (50k)</u>	2	0	0	2	-
126	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
126	15.10	<u>Bedrock faults and other linear features (50k)</u>	1	0	0	3	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
127	16.1	<u>BGS Boreholes</u>	5	0	25	-	-
Page	Section	Natural ground subsidence					
130	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
131	17.2	<u>Running sands</u>	Very low (within 50m)				
132	17.3	<u>Compressible deposits</u>	Very low (within 50m)				
134	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
135	17.5	<u>Landslides</u>	Very low (within 50m)				
136	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
138	18.1	Natural cavities	0	0	0	0	-
139	18.2	<u>BritPits</u>	1	0	0	2	-
139	18.3	<u>Surface ground workings</u>	9	18	54	-	-
142	18.4	<u>Underground workings</u>	0	0	0	0	5
143	18.5	<u>Historical Mineral Planning Areas</u>	0	1	0	0	-



143	18.6	Non-coal mining	0	0	0	0	0
<u>144</u>	<u>18.7</u>	<u>Mining cavities</u>	0	0	0	0	1
<u>144</u>	<u>18.8</u>	<u>JPB mining areas</u>	Identified (within 0m)				
<u>144</u>	<u>18.9</u>	<u>Coal mining</u>	Identified (within 0m)				
145	18.10	Brine areas	None (within 0m)				
145	18.11	Gypsum areas	None (within 0m)				
145	18.12	Tin mining	None (within 0m)				
145	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
<u>146</u>	<u>19.1</u>	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
<u>147</u>	<u>20.1</u>	<u>BGS Estimated Background Soil Chemistry</u>	3	3	-	-	-
<u>147</u>	<u>20.2</u>	<u>BGS Estimated Urban Soil Chemistry</u>	4	4	-	-	-
148	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
149	21.1	Underground railways (London)	0	0	0	-	-
149	21.2	Underground railways (Non-London)	0	0	0	-	-
150	21.3	Railway tunnels	0	0	0	-	-
<u>150</u>	<u>21.4</u>	<u>Historical railway and tunnel features</u>	17	16	17	-	-
152	21.5	Royal Mail tunnels	0	0	0	-	-
152	21.6	Historical railways	0	0	0	-	-
<u>152</u>	<u>21.7</u>	<u>Railways</u>	0	9	9	-	-
153	21.8	Crossrail 1	0	0	0	0	-
153	21.9	Crossrail 2	0	0	0	0	-
154	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 0.45ha



Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.45ha



Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.45ha



Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.45ha



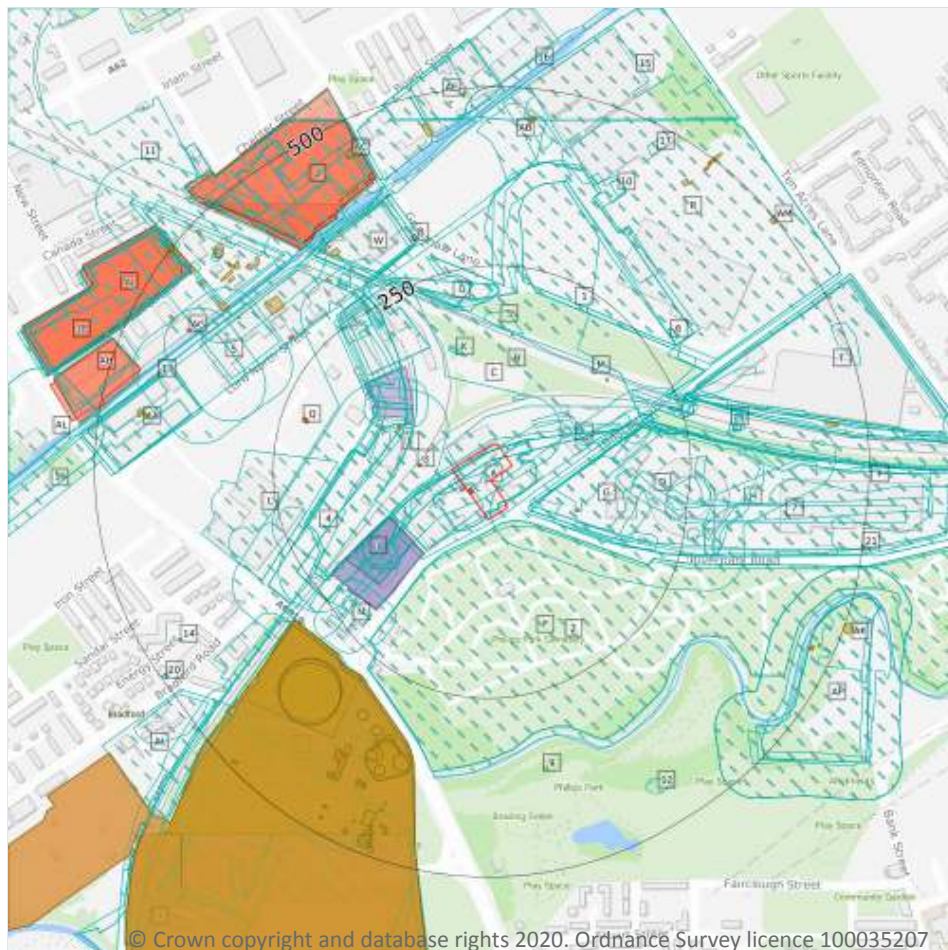
OS MasterMap site plan



Site Area: 0.45ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m

229

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
1	On site	Railway Sidings	1956 - 1978	2367782



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Factory	1978	821380
A	On site	Clay Pit	1906	827693
A	On site	Unspecified Pit	1933 - 1938	853771
A	On site	Old Clay Pit	1921 - 1923	868807
A	On site	Unspecified Works	1985 - 1991	877844
A	On site	Brick Works	1906	897437
B	On site	Railway Sidings	1921 - 1923	875517
B	On site	Railway Sidings	1938	903657
B	On site	Railway Sidings	1933	973087
B	On site	Railway Sidings	1891	978292
B	On site	Railway Sidings	1985	985075
B	On site	Railway Sidings	1906	990471
C	On site	Railway Sidings	1991	880705
C	On site	Railway Sidings	1968	975528
D	On site	Brick Works	1921	926382
E	On site	Coal Yard	1891	932750
2	14m SE	Cemetery	1991	951637
F	14m SE	Cemetery	1956 - 1978	926290
F	14m SE	Cemetery	1985	944161
E	19m W	Coal Yard	1906	956455
F	19m SE	Cemetery	1891 - 1938	882873
G	29m E	Brick Works	1956	965255
H	30m E	Brick Works	1933	867722
H	30m E	Brick Works	1938	934392
H	32m E	Abattoir	1978	849418
H	33m E	Abattoir	1968	910560
H	46m E	Abattoir	1985 - 1991	910015
D	47m E	Brick Works	1923	980450



ID	Location	Land use	Dates present	Group ID
I	56m NE	Unspecified Ground Workings	1906	873742
B	65m N	Railway Buildings	1923	833673
G	68m SE	Unspecified Pits	1906	811250
E	69m NW	Unspecified Works	1985 - 1991	887720
E	69m W	Coal Yard	1921 - 1923	961633
E	78m NW	Unspecified Works	1968 - 1978	847445
J	84m SW	Unspecified Pit	1923	963276
G	94m E	Unspecified Ground Workings	1921 - 1923	856555
E	94m NW	Railway Building	1938	820495
4	95m NW	Coal Yard	1956 - 1968	918300
I	101m NE	Unspecified Ground Workings	1956	845883
J	106m SW	Unspecified Pit	1933 - 1938	947050
J	106m SW	Unspecified Pit	1921	988196
J	111m SW	Garage	1968	844166
E	115m NW	Railway Building	1938	820494
K	129m N	Railway Building	1906 - 1933	969915
K	134m N	Railway Building	1956	863920
I	140m E	Unspecified Pit	1921	840553
J	144m SW	Unspecified Pit	1956	871090
H	147m E	Tramway Sidings	1933 - 1938	935508
5	157m N	Unspecified Pit	1968 - 1978	855844
E	160m NW	Unspecified Commercial/Industrial	1923	796771
L	160m W	Brick Works	1891	818772
E	162m NW	Unspecified Works	1985 - 1991	978515
I	162m E	Unspecified Heap	1923	804179
G	165m E	Unspecified Pit	1891 - 1906	874584
M	165m NE	Railway Building	1923	820493
H	170m E	Tramway Sidings	1956	919742



ID	Location	Land use	Dates present	Group ID
N	181m SW	Fire Station	1985 - 1991	981014
O	190m N	Unspecified Pit	1956	898722
O	190m N	Unspecified Pit	1978	846319
I	191m NE	Railway Buildings	1923	833672
I	197m NE	Railway Buildings	1891	878119
O	197m N	Unspecified Pit	1968	929622
P	206m E	Unspecified Ground Workings	1956	935192
N	210m SW	Fire Station	1978	988929
I	211m NE	Railway Station	1923	925608
N	213m SW	Railway Building	1923	820496
L	214m W	Unspecified Heaps	1891	831348
I	215m E	Railway Buildings	1923	833671
D	221m E	Unspecified Heap	1921 - 1923	865879
D	221m E	Unspecified Ground Workings	1906	870820
E	221m NW	Railway Building	1938	820490
E	222m NW	Railway Building	1938	820489
R	224m NE	Engineering Works	1906 - 1956	2366654
I	233m E	Railway Buildings	1906	902088
I	233m E	Railway Station	1933	977744
I	233m E	Railway Station	1921	981155
I	233m E	Railway Buildings	1938	986652
I	250m E	Railway Station	1956 - 1978	910427
D	254m E	Unspecified Heap	1933 - 1938	884814
D	256m E	Unspecified Ground Workings	1923	850021
I	258m E	Unspecified Ground Workings	1923	800628
S	259m NW	Forge	1921	810901
I	260m E	Railway Station	1985 - 1991	929844
T	266m E	Unspecified Commercial/Industrial	1938	796770



ID	Location	Land use	Dates present	Group ID
T	267m NE	Aeroplane Works	1933	813294
D	275m E	Unspecified Heap	1933 - 1938	932682
T	276m NE	Unspecified Warehouse	1968	928462
T	276m NE	Unspecified Warehouse	1956	985889
D	277m E	Cuttings	1921 - 1923	907001
S	278m NW	Brick Works	1906	818770
U	280m SW	Gas Works	1985 - 1991	991680
S	281m NW	Unspecified Commercial/Industrial	1985	899281
T	281m NE	Unspecified Warehouse	1985 - 1991	899260
T	281m NE	Unspecified Warehouse	1978	923559
V	282m SW	Gas Work	1968 - 1978	945176
V	282m SW	Unspecified Commercial/Industrial	1968 - 1978	974281
S	282m W	Timber Yard	1921 - 1923	932938
W	283m NW	Unspecified Commercial/Industrial	1906	796766
W	283m NW	Dye Works	1891	870937
W	283m NW	Dye Works	1933 - 1938	932160
W	283m NW	Dye Works	1921	939581
W	284m NW	Dye Works	1923	974912
V	285m SW	Unspecified Commercial/Industrial	1956	951490
6	285m NE	Railway Building	1938	820492
V	286m SW	Unspecified Commercial/Industrial	1933 - 1938	894722
V	286m SW	Railway Sidings	1933 - 1938	898707
V	286m SW	Gas Works	1906 - 1923	932486
W	288m NW	Dye Works	1956	912343
W	288m NW	Unspecified Works	1968	931767
R	289m NE	Unspecified Works	1966 - 1991	2366364
7	291m E	Unspecified Ground Workings	1933 - 1938	985145
W	291m NW	Unspecified Depot	1978	982749



ID	Location	Land use	Dates present	Group ID
W	291m NW	Unspecified Depot	1985 - 1991	975825
V	293m SW	Railway Sidings	1956 - 1968	982092
W	293m NW	Railway Building	1923	910031
W	293m NW	Railway Building	1938	911693
W	293m NW	Railway Building	1906	947647
W	294m NW	Railway Building	1956	928812
X	298m SW	Railway Sidings	1923	973770
U	298m SW	Gasometer	1985	920187
U	299m SW	Gasometer	1991	887941
V	300m SW	Railway Sidings	1978	974171
S	300m NW	Unspecified Works	1978	830465
U	305m SW	Unspecified Tank	1956 - 1978	914907
U	305m SW	Gasometer	1921	848231
U	305m SW	Unspecified Tank	1933 - 1938	965896
V	307m SW	Gasometer	1968 - 1978	944402
Y	308m E	Railway Buildings	1923	833674
U	309m SW	Gasometer	1923	905212
X	310m SW	Railway Sidings	1906 - 1921	881262
Y	313m E	Railway Building	1933	872903
Y	313m E	Railway Station	1938	928616
Y	313m E	Railway Station	1906	965908
Y	313m E	Railway Building	1921	990834
S	315m NW	Iron Works	1906	822794
Y	316m E	Railway Station	1891	885305
V	323m SW	Refuse Heap	1906	829125
V	324m SW	Unspecified Pit	1906	840537
S	327m NW	Coal Yard	1891 - 1906	914601
V	332m SW	Unspecified Tanks	1956	815394



ID	Location	Land use	Dates present	Group ID
V	338m SW	Unspecified Tank	1933 - 1938	924790
V	338m SW	Oil Tanks	1906 - 1921	932969
V	341m SW	Oil Tanks	1923	889887
V	345m S	Gasometer	1968 - 1978	884458
V	353m S	Unspecified Tank	1933 - 1938	847909
V	353m S	Oil Tanks	1906 - 1921	899956
V	354m SW	Gasometer	1968 - 1978	908225
9	355m S	Coal Pit	1851	808494
S	357m NW	Disused Canal	1985	2367192
S	358m NW	Disused Canal	1991	849130
Z	359m NW	Unspecified Works	1985 - 1991	946951
AA	359m W	Unspecified Works	1891	927795
AA	359m W	Unspecified Works	1933 - 1938	934682
AA	362m W	Chemical Works	1921 - 1923	849220
Z	363m NW	Unspecified Works	1968 - 1978	848287
Z	363m NW	Gas Plant Works	1956	905946
V	366m SW	Oil Tanks	1906 - 1921	857954
V	366m SW	Unspecified Tank	1933 - 1938	954554
AB	369m N	Unspecified Pit	1906	2367431
S	373m NW	Chemical Works	1921 - 1933	862438
Z	373m NW	Gas Plant Works	1891 - 1938	2367869
AA	374m W	Unspecified Mills	1968	808184
AD	376m SW	Refuse Heap	1891	829115
S	381m NW	Unspecified Works	1968	905630
V	381m SW	Unspecified Tank	1933 - 1938	928492
V	381m SW	Oil Tanks	1906 - 1921	931133
S	384m NW	Unspecified Works	1978	940673
10	385m NE	Railway Sidings	1921	930657

ID	Location	Land use	Dates present	Group ID
Z	394m NW	Railway Sidings	1906 - 1921	955710
11	399m NW	Railway Sidings	1891 - 1980	2367777
AE	400m N	Unspecified Commercial/Industrial	1921 - 1975	2367053
AE	400m N	Dye Works	1891 - 1938	2367278
AF	409m SE	Tanneries	1906	807266
AF	409m SE	Unspecified Disused Works	1891	813357
AF	409m SE	Unspecified Commercial/Industrial	1933 - 1938	927935
AF	409m SE	Unspecified Works	1921	986458
AA	409m W	Unspecified Works	1968	898141
V	413m SW	Unspecified Tanks	1923	815395
AB	417m N	Railway Building	1978	820491
V	418m S	Unspecified Pit	1906 - 1923	895806
P	422m E	Railway Station	1851	822946
12	429m SE	Unspecified Heap	1906 - 1938	972092
Z	430m NW	Railway Sidings	1933 - 1938	952177
V	431m S	Gasometer	1923	809784
S	438m NW	Unspecified Tank	1938	925206
S	439m NW	Unspecified Tank	1923	991651
S	440m NW	Unspecified Tank	1933	873898
S	440m NW	Unspecified Tank	1921	934411
X	446m SW	Railway Sidings	1891	925215
14	446m SW	Coal Pit	1851	808503
AC	448m NW	Gasometer	1906 - 1921	854283
15	454m N	Unspecified Commercial/Industrial	1956 - 1988	2367052
AF	455m SE	Unspecified Works	1923	934733
16	456m N	Disused Canal	1980 - 1988	728064
AI	456m SW	Brick Works	1891	818774
AE	457m N	Unspecified Works	1966	2366372



ID	Location	Land use	Dates present	Group ID
17	458m NE	Railway Sidings	1921	859905
AJ	458m NW	Iron Works	1933 - 1938	924546
AE	458m N	Unspecified Works	1980	786026
AE	459m N	Unspecified Commercial/Industrial	1988	734882
AJ	459m NW	Unspecified Works	1991	930965
V	460m S	Unspecified Tanks	1968 - 1978	869704
AJ	461m NW	Iron Works	1956 - 1968	856928
AJ	461m NW	Iron Works	1921	921354
AF	462m SE	Print Works	1851	832290
AF	462m E	Unspecified Works	1991	918881
AJ	462m NW	Unspecified Works	1985	861098
AF	462m SE	Unspecified Commercial/Industrial	1956	947414
AH	465m W	Steel Works	1851	810022
AJ	466m NW	Iron Works	1923	910344
AI	468m SW	Unspecified Pit	1906	840536
AK	470m E	Unspecified Works	1968 - 1978	967691
V	471m S	Unspecified Tank	1933 - 1938	903443
V	471m S	Unspecified Tanks	1906 - 1923	959046
AH	473m W	Unspecified Works	1978	844931
AH	473m W	Unspecified Works	1985 - 1991	897604
V	481m S	Unspecified Tank	1933 - 1938	919997
V	481m S	Unspecified Tanks	1921	939998
V	482m S	Unspecified Tank	1933 - 1938	963475
V	482m S	Unspecified Tanks	1906 - 1923	989875
V	485m S	Unspecified Tanks	1923	938396
T	486m NE	Unspecified Ground Workings	1923	800629
18	488m NW	Iron Works	1906	940446
19	488m W	Unspecified Works	1985 - 1991	960938



ID	Location	Land use	Dates present	Group ID
AL	490m W	Unspecified Commercial/Industrial	1891 - 1921	845585
AL	490m W	Unspecified Commercial/Industrial	1933 - 1938	911970
20	490m SW	Coal Pits	1851	802167
AM	495m NE	Unspecified Tank	1933	825285

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	102
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
3	43m W	Unspecified Tank	1949 - 1979	137732
E	92m NW	Unspecified Tank	1979 - 1995	131728
E	93m NW	Unspecified Tank	1990	135179
M	175m NE	Unspecified Tank	1966 - 1970	136053
V	282m SW	Gas Works	1968 - 1970	130205
V	282m SW	Gas Works	1948 - 1949	140627
U	283m SW	Gas Works	1984	126853
V	287m SW	Gas Works	1908 - 1922	144191
U	301m SW	Gas Holder	1995	137733
U	301m SW	Gasometer	1949	122835
U	301m SW	Unspecified Tank	1931 - 1970	142901
U	301m SW	Gasometer	1968	141629
U	301m SW	Gas Holder	1984	125049
U	306m SW	Gasometer	1922	148952

ID	Location	Land use	Dates present	Group ID
W	312m NW	Tanks	1995	106881
V	317m SW	Unspecified Tank	1968 - 1970	130437
V	327m SW	Unspecified Tank	1968 - 1970	128581
S	327m NW	Unspecified Tank	1931	116079
V	330m SW	Unspecified Tank	1949	116090
V	337m SW	Oil Tanks	1908	132831
V	338m SW	Oil Tanks	1922 - 1931	139394
W	340m NW	Tanks	1922 - 1931	132542
V	343m SW	Tanks	1949	106928
V	348m S	Unspecified Tank	1949 - 1970	132990
W	353m NW	Tanks	1949 - 1970	129516
V	354m SW	Unspecified Tank	1968 - 1970	139876
V	360m SW	Unspecified Tank	1949	122692
S	365m NW	Unspecified Tank	1949	145986
S	365m NW	Unspecified Tank	1949	136359
S	365m NW	Unspecified Tank	1952	138128
V	370m SW	Tanks	1970	136413
V	375m SW	Unspecified Tank	1949	116092
V	382m SW	Tanks	1968	131109
V	383m SW	Tanks	1970	141692
V	385m SW	Tanks	1970	123034
S	386m NW	Tanks	1931	106882
S	394m NW	Tanks	1931	106877
S	396m NW	Unspecified Tank	1990 - 1995	136216
S	401m NW	Tanks	1931	106879
AC	402m NW	Unspecified Tank	1995	116082
AC	402m NW	Unspecified Tank	1990	116081
S	405m NW	Tanks	1931	106880



ID	Location	Land use	Dates present	Group ID
V	406m SW	Tanks	1949	106929
S	410m NW	Tanks	1931	106878
V	411m SW	Tanks	1908 - 1931	136314
S	412m NW	Tanks	1922 - 1931	128323
AG	414m NW	Unspecified Tank	1931	116078
S	414m NW	Unspecified Tank	1949	116080
S	416m NW	Unspecified Tank	1931	116084
V	417m SW	Unspecified Tank	1970	116093
V	421m S	Unspecified Tank	1931	116091
S	424m NW	Unspecified Tank	1931	116083
AA	428m W	Unspecified Tank	1893	148061
13	430m W	Unspecified Tank	1971	116072
V	430m S	Unspecified Tank	1908 - 1922	144275
S	432m NW	Tanks	1931	106883
AA	433m W	Unspecified Tank	1971	141749
AA	438m W	Tanks	1922	106884
S	438m NW	Unspecified Tank	1922 - 1949	137843
V	440m S	Tanks	1949	106927
P	441m E	Unspecified Tank	1966 - 1970	132378
AE	442m N	Tanks	1990 - 1995	147817
AG	443m NW	Tanks	1949 - 1955	135693
R	446m NE	Tanks	1931	106931
AC	447m NW	Gasometer	1908 - 1922	132205
AB	451m N	Tanks	1949 - 1990	425929
AB	451m N	Tanks	1995	426065
V	452m S	Tanks	1949	106925
R	452m NE	Unspecified Tank	1991	116085
S	453m NW	Tanks	1931	106875



ID	Location	Land use	Dates present	Group ID
V	456m S	Tanks	1949	106926
AB	457m N	Tanks	1993	98654
V	460m SW	Unspecified Tank	1931	116100
V	460m SW	Unspecified Tank	1968 - 1970	125026
V	462m S	Tanks	1949	106930
V	462m S	Tanks	1948 - 1958	130892
AK	464m SE	Tanks	1932	106935
V	465m S	Unspecified Tank	1968	116101
AK	465m SE	Tanks	1948	106936
V	471m S	Tanks	1908 - 1931	147035
AK	475m SE	Tanks	1948	106937
V	476m S	Unspecified Tank	1955	116102
V	476m SW	Tanks	1922 - 1931	135092
V	476m S	Tanks	1948	137971
V	476m SW	Unspecified Tank	1968 - 1970	133963
R	481m NE	Tanks	1966 - 1991	141428
R	481m NE	Tanks	1966 - 1970	145486
S	482m NW	Unspecified Tank	1949	124452
AE	482m N	Unspecified Tank	1949	85412
V	483m S	Tanks	1922 - 1931	148520
S	484m NW	Unspecified Tank	1931	116073
V	487m S	Tanks	1948	132522
AD	488m SW	Unspecified Tank	1968 - 1970	129294
AE	490m N	Unspecified Tank	1979 - 1986	98692
R	491m NE	Tanks	1991	128393
S	492m NW	Unspecified Tank	1931 - 1970	140494
AE	493m N	Unspecified Tank	1979 - 1986	100280
AM	493m NE	Unspecified Tank	1932	116086



ID	Location	Land use	Dates present	Group ID
S	496m NW	Gasometer	1955	108526
21	498m E	Unspecified Tank	1948	116087
R	498m NE	Tanks	1931	133687
AK	500m E	Unspecified Tank	1893	116088

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	32
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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
A	On site	Electricity Substation	1984	62202
A	On site	Electricity Transformer	1968	63772
A	2m SW	Electricity Substation	1995	79352
G	96m E	Electricity Substation	1948	62201
Q	212m W	Electricity Substation	1979 - 1995	67258
Q	213m W	Electricity Substation	1990	70505
V	282m SW	Gas Works	1948 - 1970	85321
U	283m SW	Gas Works	1984	71747
V	287m SW	Gas Works	1908 - 1922	77534
S	290m NW	Electricity Substation	1990 - 1995	64884
U	301m SW	Gas Holder	1995	72614
U	301m SW	Gasometer	1922 - 1949	76542
U	301m SW	Gasometer	1968	75789
U	301m SW	Gas Holder	1984	68164



ID	Location	Land use	Dates present	Group ID
8	306m N	Electricity Substation	1949 - 1970	84518
Z	374m NW	Gas Plant Works	1908 - 1931	68601
Z	374m NW	Gas Plant Works	1922	72489
Z	374m NW	Gas Plant Works	1893	73195
AC	376m NW	Electricity Substation	1990 - 1995	78119
Z	379m NW	Gas Plant Works	1949 - 1952	70134
Z	380m NW	Gas Plant Works	1893 - 1970	303139
Z	380m NW	Gas Plant Works	1990	78310
AC	403m NW	Electricity Substation	1949	77838
AC	406m NW	Electricity Substation	1949 - 1995	81814
AC	447m NW	Gasometer	1908 - 1922	64031
AH	456m W	Gas Plant Works	1931 - 1970	79660
AJ	457m NW	Gas Plant Iron Works	1931	85136
AH	457m W	Gas Plant Iron Works	1949 - 1955	66060
AJ	460m NW	Gas Plant Works	1970	63814
AJ	460m NW	Gas Plant Iron Works	1949	79157
AJ	465m NW	Gas Plant Iron Works	1955	77109
S	496m NW	Gasometer	1955	59719

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



1.5 Historical garages

Records within 500m**4**

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
E	84m NW	Wagon Repair Works	1931	20543
J	100m SW	Garage	1995	25834
J	101m SW	Garage	1984	21414
J	103m SW	Garage	1968 - 1970	27654

This data is sourced from Ordnance Survey / Groundsure.

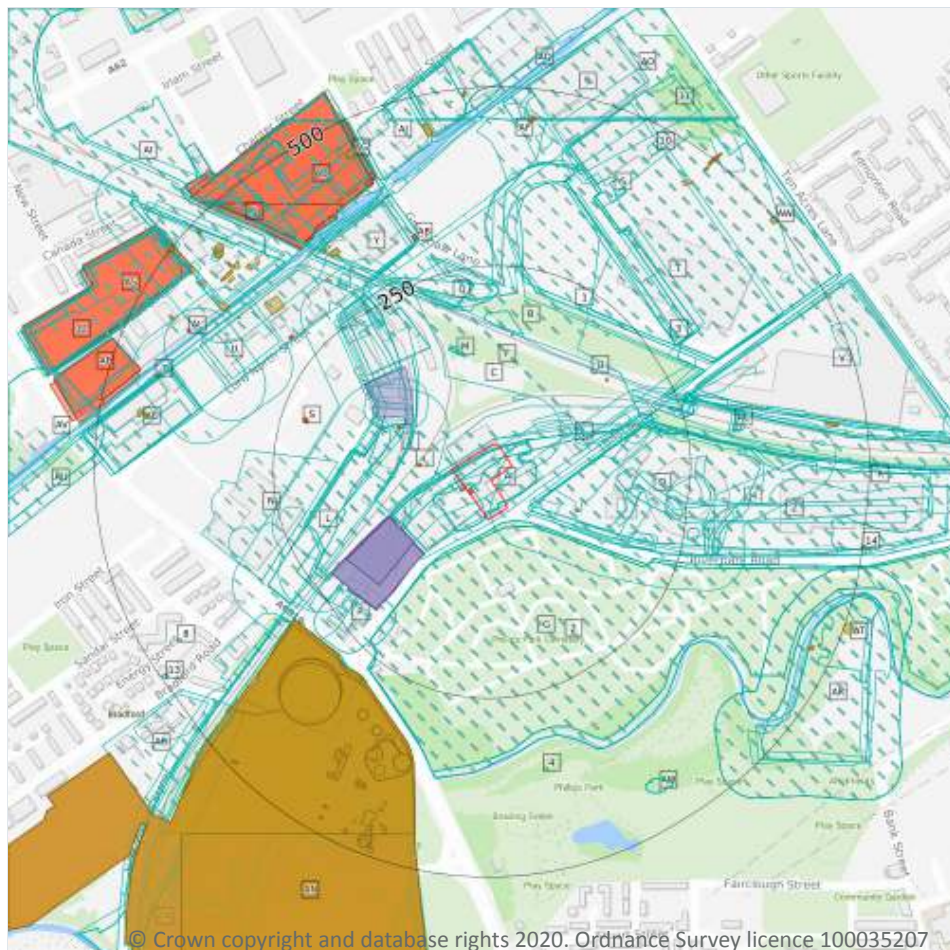
1.6 Historical military land

Records within 500m**0**

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

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

2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

358

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 29**

ID	Location	Land Use	Date	Group ID
1	On site	Railway Sidings	1956	2367782
A	On site	Unspecified Pit	1938	853771
A	On site	Unspecified Pit	1933	853771



ID	Location	Land Use	Date	Group ID
A	On site	Brick Works	1906	897437
A	On site	Unspecified Works	1985	877844
A	On site	Unspecified Factory	1978	821380
A	On site	Unspecified Works	1991	877844
A	On site	Old Clay Pit	1921	868807
A	On site	Clay Pit	1906	827693
A	On site	Old Clay Pit	1923	868807
B	On site	Railway Sidings	1938	903657
B	On site	Railway Sidings	1933	973087
B	On site	Railway Sidings	1921	875517
B	On site	Railway Sidings	1906	990471
B	On site	Railway Sidings	1891	978292
B	On site	Railway Sidings	1985	985075
B	On site	Railway Sidings	1923	875517
C	On site	Railway Sidings	1991	880705
C	On site	Railway Sidings	1968	975528
D	On site	Brick Works	1921	926382
E	On site	Coal Yard	1891	932750
F	5m NW	Railway Sidings	1978	2367782
2	14m SE	Cemetery	1991	951637
G	14m SE	Cemetery	1956	926290
G	14m SE	Cemetery	1985	944161
G	14m SE	Cemetery	1978	926290
G	14m SE	Cemetery	1968	926290
E	19m W	Coal Yard	1906	956455
G	19m SE	Cemetery	1938	882873
G	19m SE	Cemetery	1933	882873
G	19m SE	Cemetery	1921	882873



ID	Location	Land Use	Date	Group ID
G	19m SE	Cemetery	1906	882873
G	19m SE	Cemetery	1891	882873
G	19m SE	Cemetery	1923	882873
D	29m E	Brick Works	1956	965255
H	30m E	Brick Works	1938	934392
H	30m E	Brick Works	1933	867722
H	32m E	Abattoir	1978	849418
H	33m E	Abattoir	1968	910560
H	46m E	Abattoir	1985	910015
H	46m E	Abattoir	1991	910015
D	47m E	Brick Works	1923	980450
J	56m NE	Unspecified Ground Workings	1906	873742
B	65m N	Railway Buildings	1923	833673
D	68m SE	Unspecified Pits	1906	811250
E	69m W	Coal Yard	1921	961633
E	69m NW	Unspecified Works	1985	887720
E	69m NW	Unspecified Works	1991	887720
E	71m W	Coal Yard	1923	961633
E	78m NW	Unspecified Works	1978	847445
K	84m SW	Unspecified Pit	1923	963276
E	84m NW	Unspecified Works	1968	847445
D	94m E	Unspecified Ground Workings	1921	856555
E	94m NW	Railway Building	1938	820495
L	95m NW	Coal Yard	1956	918300
L	95m NW	Coal Yard	1968	918300
J	101m NE	Unspecified Ground Workings	1956	845883
K	106m SW	Unspecified Pit	1938	947050
K	106m SW	Unspecified Pit	1933	947050



ID	Location	Land Use	Date	Group ID
K	106m SW	Unspecified Pit	1921	988196
K	111m SW	Garage	1968	844166
E	115m NW	Railway Building	1938	820494
M	129m N	Railway Building	1933	969915
M	129m N	Railway Building	1921	969915
M	129m N	Railway Building	1906	969915
M	129m N	Railway Building	1923	969915
M	134m N	Railway Building	1956	863920
J	140m E	Unspecified Pit	1921	840553
K	144m SW	Unspecified Pit	1956	871090
H	147m E	Tramway Sidings	1938	935508
H	147m E	Tramway Sidings	1933	935508
D	152m E	Unspecified Ground Workings	1923	856555
F	157m N	Unspecified Pit	1978	855844
F	157m N	Unspecified Pit	1968	855844
E	160m NW	Unspecified Commercial/Industrial	1923	796771
N	160m W	Brick Works	1891	818772
E	162m NW	Unspecified Works	1985	978515
E	162m NW	Unspecified Works	1991	978515
J	162m E	Unspecified Heap	1923	804179
D	165m E	Unspecified Pit	1906	874584
O	165m NE	Railway Building	1923	820493
H	170m E	Tramway Sidings	1956	919742
D	176m E	Unspecified Pit	1891	874584
P	181m SW	Fire Station	1985	981014
P	181m SW	Fire Station	1991	981014
Q	190m N	Unspecified Pit	1956	898722
Q	190m N	Unspecified Pit	1978	846319



ID	Location	Land Use	Date	Group ID
J	191m NE	Railway Buildings	1923	833672
J	197m NE	Railway Buildings	1891	878119
Q	197m N	Unspecified Pit	1968	929622
R	206m E	Unspecified Ground Workings	1956	935192
P	210m SW	Fire Station	1978	988929
J	211m NE	Railway Station	1923	925608
P	213m SW	Railway Building	1923	820496
N	214m W	Unspecified Heaps	1891	831348
J	215m E	Railway Buildings	1923	833671
D	221m E	Unspecified Heap	1923	865879
D	221m E	Unspecified Ground Workings	1906	870820
D	221m E	Unspecified Heap	1921	865879
E	221m NW	Railway Building	1938	820490
E	222m NW	Railway Building	1938	820489
T	224m NE	Engineering Works	1923	2366654
T	228m NE	Engineering Works	1938	2366654
J	233m E	Railway Buildings	1938	986652
J	233m E	Railway Station	1933	977744
J	233m E	Railway Station	1921	981155
J	233m E	Railway Buildings	1906	902088
J	250m E	Railway Station	1956	910427
D	254m E	Unspecified Heap	1938	884814
D	254m E	Unspecified Heap	1933	884814
D	256m E	Unspecified Ground Workings	1923	850021
J	257m E	Railway Station	1978	910427
J	258m E	Railway Station	1968	910427
J	258m E	Unspecified Ground Workings	1923	800628
U	259m NW	Forge	1921	810901



ID	Location	Land Use	Date	Group ID
J	260m E	Railway Station	1985	929844
J	260m E	Railway Station	1991	929844
V	266m E	Unspecified Commercial/Industrial	1938	796770
V	267m NE	Aeroplane Works	1933	813294
D	275m E	Unspecified Heap	1938	932682
D	275m E	Unspecified Heap	1933	932682
V	276m NE	Unspecified Warehouse	1956	985889
V	276m NE	Unspecified Warehouse	1968	928462
D	277m E	Cuttings	1923	907001
U	278m NW	Brick Works	1906	818770
W	280m SW	Gas Works	1985	991680
W	281m SW	Gas Works	1991	991680
U	281m NW	Unspecified Commercial/Industrial	1985	899281
V	281m NE	Unspecified Warehouse	1985	899260
V	281m NE	Unspecified Warehouse	1978	923559
V	281m NE	Unspecified Warehouse	1991	899260
X	282m SW	Gas Work	1978	945176
X	282m SW	Gas Work	1968	945176
X	282m SW	Unspecified Commercial/Industrial	1968	974281
U	282m W	Timber Yard	1921	932938
D	283m E	Cuttings	1921	907001
Y	283m NW	Dye Works	1938	932160
Y	283m NW	Dye Works	1933	932160
Y	283m NW	Dye Works	1921	939581
Y	283m NW	Unspecified Commercial/Industrial	1906	796766
Y	283m NW	Dye Works	1891	870937
T	284m NE	Engineering Works	1933	2366654
T	284m NE	Engineering Works	1921	2366654



ID	Location	Land Use	Date	Group ID
Y	284m NW	Dye Works	1923	974912
X	285m SW	Unspecified Commercial/Industrial	1956	951490
3	285m NE	Railway Building	1938	820492
X	286m SW	Unspecified Commercial/Industrial	1938	894722
X	286m SW	Railway Sidings	1938	898707
X	286m SW	Railway Sidings	1933	898707
X	286m SW	Unspecified Commercial/Industrial	1933	894722
X	286m SW	Gas Works	1921	932486
X	286m SW	Gas Works	1906	932486
T	288m NE	Engineering Works	1906	2366654
Y	288m NW	Dye Works	1956	912343
Y	288m NW	Unspecified Works	1968	931767
T	289m NE	Engineering Works	1956	2366654
T	289m NE	Unspecified Works	1985	2366364
T	289m NE	Unspecified Works	1978	2366364
T	289m NE	Unspecified Works	1991	2366364
T	289m NE	Unspecified Works	1968	2366364
X	290m SW	Gas Works	1923	932486
Z	291m E	Unspecified Ground Workings	1938	985145
Z	291m E	Unspecified Ground Workings	1933	985145
Y	291m NW	Unspecified Depot	1985	975825
Y	291m NW	Unspecified Depot	1978	982749
Y	291m NW	Unspecified Depot	1991	975825
X	293m SW	Railway Sidings	1956	982092
Y	293m NW	Railway Building	1938	911693
Y	293m NW	Railway Building	1906	947647
Y	293m NW	Railway Building	1923	910031
Y	294m NW	Railway Building	1956	928812



ID	Location	Land Use	Date	Group ID
AA	298m SW	Railway Sidings	1923	973770
W	298m SW	Gasometer	1985	920187
W	299m SW	Gasometer	1991	887941
X	300m SW	Railway Sidings	1978	974171
U	300m NW	Unspecified Works	1978	830465
X	304m SW	Railway Sidings	1968	982092
W	305m SW	Unspecified Tank	1956	914907
W	305m SW	Unspecified Tank	1978	914907
W	305m SW	Unspecified Tank	1968	914907
W	305m SW	Gasometer	1921	848231
W	305m SW	Unspecified Tank	1938	965896
W	305m SW	Unspecified Tank	1933	965896
X	307m SW	Gasometer	1978	944402
X	307m SW	Gasometer	1968	944402
AC	308m E	Railway Buildings	1923	833674
W	309m SW	Gasometer	1923	905212
AA	310m SW	Railway Sidings	1921	881262
AA	310m SW	Railway Sidings	1906	881262
AC	313m E	Railway Station	1938	928616
AC	313m E	Railway Building	1933	872903
AC	313m E	Railway Building	1921	990834
AC	313m E	Railway Station	1906	965908
U	315m NW	Iron Works	1906	822794
AC	316m E	Railway Station	1891	885305
X	323m SW	Refuse Heap	1906	829125
X	324m SW	Unspecified Pit	1906	840537
U	327m NW	Coal Yard	1891	914601
X	332m SW	Unspecified Tanks	1956	815394



ID	Location	Land Use	Date	Group ID
U	334m W	Timber Yard	1923	932938
X	338m SW	Unspecified Tank	1938	924790
X	338m SW	Unspecified Tank	1933	924790
X	338m SW	Oil Tanks	1921	932969
X	338m SW	Oil Tanks	1906	932969
X	341m SW	Oil Tanks	1923	889887
X	345m S	Gasometer	1978	884458
X	348m S	Gasometer	1968	884458
X	353m S	Unspecified Tank	1938	847909
X	353m S	Unspecified Tank	1933	847909
X	353m S	Oil Tanks	1921	899956
X	353m S	Oil Tanks	1906	899956
X	354m SW	Gasometer	1978	908225
X	354m SW	Gasometer	1968	908225
4	355m S	Coal Pit	1851	808494
U	357m NW	Disused Canal	1985	2367192
U	358m NW	Disused Canal	1991	849130
AD	359m NW	Unspecified Works	1985	946951
AD	359m NW	Unspecified Works	1991	946951
AE	359m W	Unspecified Works	1938	934682
AE	359m W	Unspecified Works	1891	927795
AE	362m W	Unspecified Works	1933	934682
AE	362m W	Chemical Works	1921	849220
AD	363m NW	Gas Plant Works	1956	905946
AD	363m NW	Unspecified Works	1978	848287
AD	363m NW	Unspecified Works	1968	848287
AE	365m W	Chemical Works	1923	849220
X	366m SW	Unspecified Tank	1938	954554



ID	Location	Land Use	Date	Group ID
X	366m SW	Unspecified Tank	1933	954554
X	366m SW	Oil Tanks	1921	857954
X	366m SW	Oil Tanks	1906	857954
AF	369m N	Unspecified Pit	1906	2367431
X	372m SW	Unspecified Commercial/Industrial	1978	974281
U	373m NW	Chemical Works	1933	862438
U	373m NW	Chemical Works	1921	862438
U	373m NW	Coal Yard	1906	914601
U	373m NW	Chemical Works	1923	862438
AD	373m NW	Gas Plant Works	1938	2367869
AD	373m NW	Gas Plant Works	1933	2367869
AD	373m NW	Gas Plant Works	1921	2367869
AD	373m NW	Gas Plant Works	1906	2367869
AD	373m NW	Gas Plant Works	1923	2367869
AE	374m W	Unspecified Mills	1968	808184
AH	376m SW	Refuse Heap	1891	829115
U	381m NW	Unspecified Works	1968	905630
X	381m SW	Unspecified Tank	1938	928492
X	381m SW	Unspecified Tank	1933	928492
X	381m SW	Oil Tanks	1921	931133
X	381m SW	Oil Tanks	1906	931133
U	384m NW	Unspecified Works	1978	940673
5	385m NE	Railway Sidings	1921	930657
AD	394m NW	Railway Sidings	1921	955710
AD	394m NW	Railway Sidings	1906	955710
AI	399m NW	Railway Sidings	1938	2367777
AI	399m NW	Railway Sidings	1933	2367777
AI	399m NW	Railway Sidings	1921	2367777



ID	Location	Land Use	Date	Group ID
AI	399m NW	Railway Sidings	1906	2367777
AD	399m NW	Gas Plant Works	1891	2367869
AJ	400m N	Dye Works	1938	2367278
AJ	400m N	Dye Works	1933	2367278
AJ	400m N	Unspecified Commercial/Industrial	1921	2367053
6	402m NW	Railway Sidings	1923	2367777
AJ	402m NW	Unspecified Commercial/Industrial	1923	2367053
AK	409m SE	Unspecified Commercial/Industrial	1938	927935
AK	409m SE	Unspecified Commercial/Industrial	1933	927935
AK	409m SE	Unspecified Works	1921	986458
AK	409m SE	Tanneries	1906	807266
AK	409m SE	Unspecified Disused Works	1891	813357
AE	409m W	Unspecified Works	1968	898141
X	413m SW	Unspecified Tanks	1923	815395
AF	417m N	Railway Building	1978	820491
X	418m S	Unspecified Pit	1921	895806
X	418m S	Unspecified Pit	1906	895806
X	418m S	Unspecified Pit	1923	895806
R	422m E	Railway Station	1851	822946
AM	429m SE	Unspecified Heap	1938	972092
AM	429m SE	Unspecified Heap	1933	972092
AM	429m SE	Unspecified Heap	1921	972092
AM	429m SE	Unspecified Heap	1906	972092
AM	429m SE	Unspecified Heap	1923	972092
AD	430m NW	Railway Sidings	1938	952177
AD	430m NW	Railway Sidings	1933	952177
X	431m S	Gasometer	1923	809784
U	438m NW	Unspecified Tank	1938	925206



ID	Location	Land Use	Date	Group ID
U	439m NW	Unspecified Tank	1923	991651
AJ	439m N	Dye Works	1891	2367278
AJ	440m N	Dye Works	1933	2367278
AJ	440m N	Dye Works	1921	2367278
AJ	440m N	Dye Works	1906	2367278
AJ	440m N	Dye Works	1923	2367278
U	440m NW	Unspecified Tank	1933	873898
U	440m NW	Unspecified Tank	1921	934411
AA	446m SW	Railway Sidings	1891	925215
8	446m SW	Coal Pit	1851	808503
AG	448m NW	Gasometer	1921	854283
AG	448m NW	Gasometer	1906	854283
9	454m N	Unspecified Works	1966	2366364
AF	454m N	Railway Sidings	1966	2367782
AF	454m N	Railway Sidings	1975	2367782
AO	454m N	Unspecified Works	1980	2366364
AO	454m N	Unspecified Commercial/Industrial	1988	2367052
AO	454m N	Unspecified Works	1975	2366364
AK	455m SE	Unspecified Works	1923	934733
AO	456m N	Unspecified Commercial/Industrial	1956	2367052
AQ	456m N	Disused Canal	1980	728064
AQ	456m N	Disused Canal	1988	728064
AR	456m SW	Brick Works	1891	818774
AJ	457m N	Unspecified Works	1966	2366372
AJ	457m N	Unspecified Commercial/Industrial	1975	2367053
AJ	457m N	Unspecified Commercial/Industrial	1956	2367053
10	458m NE	Railway Sidings	1921	859905
AS	458m NW	Iron Works	1938	924546



ID	Location	Land Use	Date	Group ID
AS	458m NW	Iron Works	1933	924546
AJ	458m N	Unspecified Works	1980	786026
AJ	459m N	Unspecified Commercial/Industrial	1988	734882
AS	459m NW	Unspecified Works	1991	930965
X	460m S	Unspecified Tanks	1978	869704
AS	461m NW	Iron Works	1956	856928
AS	461m NW	Iron Works	1968	856928
AS	461m NW	Iron Works	1921	921354
AK	462m E	Unspecified Works	1991	918881
AK	462m SE	Print Works	1851	832290
AS	462m NW	Unspecified Works	1985	861098
X	462m S	Unspecified Tanks	1968	869704
AK	462m SE	Unspecified Commercial/Industrial	1956	947414
AP	465m W	Steel Works	1851	810022
AS	466m NW	Iron Works	1923	910344
AR	468m SW	Unspecified Pit	1906	840536
AT	470m E	Unspecified Works	1978	967691
AT	470m E	Unspecified Works	1968	967691
X	471m S	Unspecified Tank	1938	903443
X	471m S	Unspecified Tank	1933	903443
X	471m S	Unspecified Tanks	1921	959046
X	471m S	Unspecified Tanks	1906	959046
X	471m S	Unspecified Tanks	1923	959046
AP	473m W	Unspecified Works	1985	897604
AP	473m W	Unspecified Works	1978	844931
AP	473m W	Unspecified Works	1991	897604
11	478m N	Unspecified Works	1966	2366364
X	481m S	Unspecified Tank	1938	919997



ID	Location	Land Use	Date	Group ID
X	481m S	Unspecified Tank	1933	919997
X	481m S	Unspecified Tanks	1921	939998
X	482m S	Unspecified Tank	1938	963475
X	482m S	Unspecified Tank	1933	963475
X	482m S	Unspecified Tanks	1921	989875
X	482m S	Unspecified Tanks	1906	989875
X	482m S	Unspecified Tanks	1923	989875
X	485m S	Unspecified Tanks	1923	938396
V	486m NE	Unspecified Ground Workings	1923	800629
12	488m NW	Iron Works	1906	940446
AU	488m W	Unspecified Works	1985	960938
AU	488m W	Unspecified Works	1991	960938
AV	490m W	Unspecified Commercial/Industrial	1938	911970
AV	490m W	Unspecified Commercial/Industrial	1933	911970
AV	490m W	Unspecified Commercial/Industrial	1921	845585
AV	490m W	Unspecified Commercial/Industrial	1906	845585
AV	490m W	Unspecified Commercial/Industrial	1891	845585
13	490m SW	Coal Pits	1851	802167
AW	495m NE	Unspecified Tank	1933	825285

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

159

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 29**

ID	Location	Land Use	Date	Group ID
I	43m W	Unspecified Tank	1979	137732



ID	Location	Land Use	Date	Group ID
I	44m W	Unspecified Tank	1949	137732
I	44m W	Unspecified Tank	1970	137732
I	44m W	Unspecified Tank	1952	137732
I	44m W	Unspecified Tank	1949	137732
E	92m NW	Unspecified Tank	1979	131728
E	93m NW	Unspecified Tank	1990	135179
E	93m NW	Unspecified Tank	1995	131728
O	175m NE	Unspecified Tank	1966	136053
O	175m NE	Unspecified Tank	1970	136053
X	282m SW	Gas Works	1949	140627
X	282m SW	Gas Works	1970	130205
X	282m SW	Gas Works	1968	130205
W	283m SW	Gas Works	1984	126853
X	287m SW	Gas Works	1922	144191
X	292m SW	Gas Works	1908	144191
W	301m SW	Gas Holder	1995	137733
W	301m SW	Gas Holder	1995	137733
W	301m SW	Gasometer	1949	122835
W	301m SW	Unspecified Tank	1970	142901
W	301m SW	Gasometer	1968	141629
W	301m SW	Gas Holder	1984	125049
W	306m SW	Gasometer	1922	148952
W	306m SW	Unspecified Tank	1931	142901
Y	312m NW	Tanks	1995	106881
X	317m SW	Unspecified Tank	1970	130437
X	317m SW	Unspecified Tank	1968	130437
X	327m SW	Unspecified Tank	1968	128581
X	327m SW	Unspecified Tank	1970	128581



ID	Location	Land Use	Date	Group ID
U	327m NW	Unspecified Tank	1931	116079
X	330m SW	Unspecified Tank	1949	116090
X	337m SW	Oil Tanks	1908	132831
X	338m SW	Oil Tanks	1922	139394
X	338m SW	Oil Tanks	1931	139394
Y	340m NW	Tanks	1922	132542
Y	340m NW	Tanks	1931	132542
X	343m SW	Tanks	1949	106928
X	348m S	Unspecified Tank	1968	132990
X	349m S	Unspecified Tank	1949	132990
X	349m S	Unspecified Tank	1970	132990
Y	353m NW	Tanks	1952	129516
Y	353m NW	Tanks	1949	129516
Y	353m NW	Tanks	1949	129516
Y	353m NW	Tanks	1970	129516
X	354m SW	Unspecified Tank	1968	139876
X	355m SW	Unspecified Tank	1970	139876
X	360m SW	Unspecified Tank	1949	122692
U	365m NW	Unspecified Tank	1949	145986
U	365m NW	Unspecified Tank	1952	138128
U	365m NW	Unspecified Tank	1949	136359
X	370m SW	Tanks	1970	136413
X	375m SW	Unspecified Tank	1949	116092
X	382m SW	Tanks	1968	131109
X	383m SW	Tanks	1970	141692
X	385m SW	Tanks	1970	123034
U	386m NW	Tanks	1931	106882
U	394m NW	Tanks	1931	106877



ID	Location	Land Use	Date	Group ID
U	396m NW	Unspecified Tank	1990	136216
U	397m NW	Unspecified Tank	1995	136216
U	401m NW	Tanks	1931	106879
AG	402m NW	Unspecified Tank	1995	116082
AG	402m NW	Unspecified Tank	1990	116081
U	405m NW	Tanks	1931	106880
X	406m SW	Tanks	1949	106929
U	410m NW	Tanks	1931	106878
X	411m SW	Tanks	1908	136314
X	411m SW	Tanks	1922	136314
X	411m SW	Tanks	1931	136314
U	412m NW	Tanks	1922	128323
U	412m NW	Tanks	1931	128323
AL	414m NW	Unspecified Tank	1931	116078
U	414m NW	Unspecified Tank	1949	116080
U	416m NW	Unspecified Tank	1931	116084
X	417m SW	Unspecified Tank	1970	116093
X	421m S	Unspecified Tank	1931	116091
U	424m NW	Unspecified Tank	1931	116083
AE	428m W	Unspecified Tank	1893	148061
7	430m W	Unspecified Tank	1971	116072
X	430m S	Unspecified Tank	1908	144275
X	430m S	Unspecified Tank	1922	144275
U	432m NW	Tanks	1931	106883
AE	433m W	Unspecified Tank	1971	141749
AE	438m W	Tanks	1922	106884
U	438m NW	Unspecified Tank	1922	137843
U	438m NW	Unspecified Tank	1931	137843



ID	Location	Land Use	Date	Group ID
X	440m S	Tanks	1949	106927
R	441m E	Unspecified Tank	1966	132378
R	441m E	Unspecified Tank	1970	132378
AJ	442m N	Tanks	1990	147817
AJ	442m N	Tanks	1995	147817
AL	443m NW	Tanks	1949	135693
AL	443m NW	Tanks	1955	135693
U	443m NW	Unspecified Tank	1949	137843
U	443m NW	Unspecified Tank	1949	137843
T	446m NE	Tanks	1931	106931
AG	447m NW	Gasometer	1908	132205
AG	447m NW	Gasometer	1922	132205
AF	451m N	Tanks	1995	426065
AF	451m N	Tanks	1979	425929
AN	452m S	Gas Works	1948	140627
AF	452m N	Tanks	1990	425929
AF	452m N	Tanks	1952	425929
AF	452m N	Tanks	1949	425929
X	452m S	Tanks	1949	106925
T	452m NE	Unspecified Tank	1991	116085
AF	452m N	Tanks	1949	425929
AF	452m N	Tanks	1970	425929
U	453m NW	Tanks	1931	106875
X	456m S	Tanks	1949	106926
AF	457m N	Tanks	1993	98654
AF	457m N	Tanks	1993	98654
AF	457m N	Tanks	1990	425929
X	460m SW	Unspecified Tank	1931	116100



ID	Location	Land Use	Date	Group ID
X	460m SW	Unspecified Tank	1968	125026
X	461m SW	Unspecified Tank	1970	125026
X	462m S	Tanks	1949	106930
X	462m S	Tanks	1949	130892
AT	464m SE	Tanks	1932	106935
X	465m S	Unspecified Tank	1968	116101
AT	465m SE	Tanks	1948	106936
X	469m S	Tanks	1958	130892
X	469m S	Tanks	1948	130892
X	469m S	Tanks	1955	130892
X	471m S	Tanks	1908	147035
X	471m S	Tanks	1922	147035
X	471m S	Tanks	1931	147035
AT	475m SE	Tanks	1948	106937
X	476m SW	Tanks	1922	135092
X	476m SW	Tanks	1931	135092
X	476m S	Tanks	1948	137971
X	476m S	Unspecified Tank	1955	116102
X	476m SW	Unspecified Tank	1970	133963
X	476m SW	Unspecified Tank	1968	133963
T	481m NE	Tanks	1991	141428
T	481m NE	Tanks	1970	145486
T	482m NE	Tanks	1966	141428
U	482m NW	Unspecified Tank	1949	124452
AJ	482m N	Unspecified Tank	1949	85412
U	482m NW	Unspecified Tank	1949	124452
X	483m S	Tanks	1922	148520
X	483m S	Tanks	1931	148520



ID	Location	Land Use	Date	Group ID
U	484m NW	Unspecified Tank	1931	116073
X	487m S	Tanks	1948	132522
AH	488m SW	Unspecified Tank	1970	129294
AH	488m SW	Unspecified Tank	1968	129294
AJ	490m N	Unspecified Tank	1979	98692
AJ	490m N	Unspecified Tank	1986	98692
T	491m NE	Tanks	1991	128393
T	492m NE	Tanks	1966	145486
U	492m NW	Unspecified Tank	1931	140494
AJ	493m N	Unspecified Tank	1979	100280
AJ	493m N	Unspecified Tank	1986	100280
AW	493m NE	Unspecified Tank	1932	116086
U	495m NW	Unspecified Tank	1949	140494
U	495m NW	Unspecified Tank	1970	140494
U	496m NW	Gasometer	1955	108526
14	498m E	Unspecified Tank	1948	116087
T	498m NE	Tanks	1931	133687
AT	500m E	Unspecified Tank	1893	116088

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

59

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 29**

ID	Location	Land Use	Date	Group ID
A	On site	Electricity Transformer	1968	63772
A	On site	Electricity Substation	1984	62202



ID	Location	Land Use	Date	Group ID
A	2m SW	Electricity Substation	1995	79352
A	2m SW	Electricity Substation	1995	79352
D	96m E	Electricity Substation	1948	62201
S	212m W	Electricity Substation	1979	67258
S	213m W	Electricity Substation	1990	70505
S	213m W	Electricity Substation	1995	67258
X	282m SW	Gas Works	1949	85321
X	282m SW	Gas Works	1970	85321
X	282m SW	Gas Works	1968	85321
W	283m SW	Gas Works	1984	71747
X	287m SW	Gas Works	1922	77534
U	290m NW	Electricity Substation	1990	64884
U	290m NW	Electricity Substation	1995	64884
X	292m SW	Gas Works	1908	77534
W	301m SW	Gas Holder	1995	72614
W	301m SW	Gas Holder	1995	72614
W	301m SW	Gasometer	1949	76542
W	301m SW	Gasometer	1968	75789
W	301m SW	Gas Holder	1984	68164
W	306m SW	Gasometer	1922	76542
AB	306m N	Electricity Substation	1952	84518
AB	306m N	Electricity Substation	1949	84518
AB	306m N	Electricity Substation	1949	84518
AB	306m N	Electricity Substation	1970	84518
AD	374m NW	Gas Plant Works	1893	73195
AD	374m NW	Gas Plant Works	1908	68601
AD	374m NW	Gas Plant Works	1922	72489
AD	374m NW	Gas Plant Works	1931	68601



ID	Location	Land Use	Date	Group ID
AG	376m NW	Electricity Substation	1990	78119
AG	377m NW	Electricity Substation	1995	78119
AD	379m NW	Gas Plant Works	1952	70134
AD	379m NW	Gas Plant Works	1949	70134
AD	380m NW	Gas Plant Works	1949	303139
AD	380m NW	Gas Plant Works	1970	303139
AD	380m NW	Gas Plant Works	1990	78310
AD	393m NW	Gas Plant Works	1908	303139
AD	393m NW	Gas Plant Works	1922	303139
AD	393m NW	Gas Plant Works	1931	303139
AD	393m NW	Gas Plant Works	1893	303139
AG	403m NW	Electricity Substation	1949	77838
AG	406m NW	Electricity Substation	1970	81814
AG	406m NW	Electricity Substation	1990	81814
AG	406m NW	Electricity Substation	1952	81814
AG	406m NW	Electricity Substation	1949	81814
AG	408m NW	Electricity Substation	1995	81814
AG	447m NW	Gasometer	1908	64031
AG	447m NW	Gasometer	1922	64031
AN	452m S	Gas Works	1948	85321
AP	456m W	Gas Plant Works	1931	79660
AS	457m NW	Gas Plant Iron Works	1931	85136
AP	457m W	Gas Plant Iron Works	1949	66060
AP	457m W	Gas Plant Works	1970	79660
AP	457m W	Gas Plant Iron Works	1955	66060
AS	460m NW	Gas Plant Iron Works	1949	79157
AS	460m NW	Gas Plant Works	1970	63814
AS	465m NW	Gas Plant Iron Works	1955	77109



ID	Location	Land Use	Date	Group ID
U	496m NW	Gasometer	1955	59719

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	6
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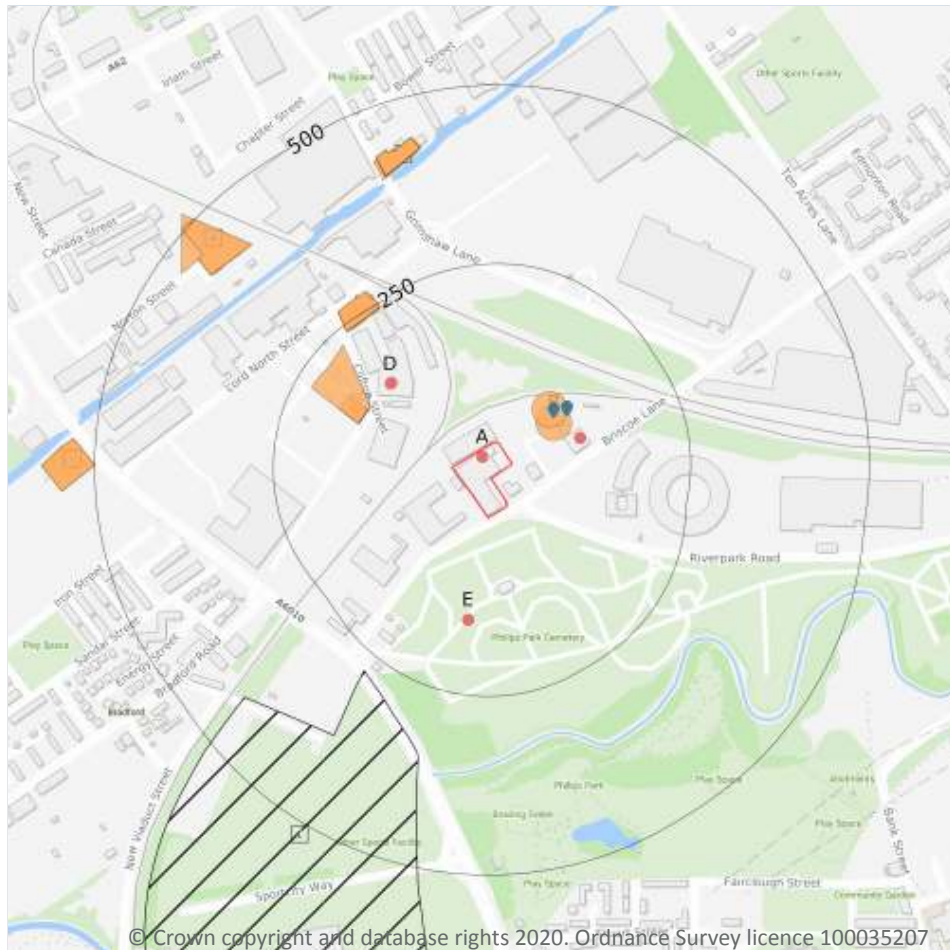
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 29**

ID	Location	Land Use	Date	Group ID
E	84m NW	Wagon Repair Works	1931	20543
K	100m SW	Garage	1995	25834
K	100m SW	Garage	1995	25834
K	101m SW	Garage	1984	21414
K	103m SW	Garage	1970	27654
K	103m SW	Garage	1968	27654

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 52**

ID	Location	Details		
1	275m SW	Site Address: Bradford Road Works, Bradeley Hall Road, Haslington, Crewe, Cheshire Licence Holder Address: Welman House, Altrincham, Cheshire	Waste Licence: Yes Site Reference: RD/LIC/180/79, GDO F058, 0381 Waste Type: Inert, Industrial, Special Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 07/12/1979 Licence Surrender: 14/12/1983	Operator: - Licence Holder: North West Gas First Recorded 07/12/1979 Last Recorded: 01/12/1983

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

3.5 Historical waste sites

Records within 500m

19

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

Features are displayed on the Waste and landfill map on **page 52**

ID	Location	Address	Further Details	Date
B	55m NE	Site Address: MCR Central Skips, Off, Briscoe Lane, Arkady, Industrial Estate, Newton, MANCHESTER, Greater Manchester, M40 2XP	Type of Site: Waste Transfer Station Planning application reference: 094574/WST/2010/N1 Description: Scheme comprises change of use of part of site to form Waste Transfer Station incorporating: construction of a sorting shed; siting of a two storey prefabricated building with lean to extension to form canteen and office; installation of a weigh bridge and plant; and associated 5 metre high lighting columns and CCTV. Construction - block, metal cladding walls; lighting columns site works. An application (ref: 094574/WST/2010/N1) for detailed planning permission was granted by Manchester C.C. A detailed planning application has been granted. Data source: Historic Planning Application Data Type: Point	29/01/2012
B	61m NE	Site Address: 1-3, Arkady Industrial Estate Off, Briscoe Lane, Manchester, Greater Manchester, M40 2XG	Type of Site: Materials Reclamation Facility Planning application reference: 105165/WST/2014/N1 Description: Scheme comprises part retrospective application for use of land as a materials reclamation facility (MRF), including the construction of 2 industrial storage sheds, external picking station and siting of portacabins, together with creation of car park and construction of fencing. The associated works include sewer systems, landscaping, infrastructure, enabling works and access roads. Data source: Historic Planning Application Data Type: Point	-
C	142m NW	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
C	142m NW	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1952
C	143m NW	Site Address: N/A	Type of Site: Scrap Metal Works Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1970



ID	Location	Address	Further Details	Date
F	239m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1979
F	240m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
F	241m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
G	398m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1931
G	401m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1934
G	401m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
G	402m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1952
G	402m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949
G	403m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1949



ID	Location	Address	Further Details	Date
G	403m N	Site Address: N/A	Type of Site: Refuse Destructor Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1970
H	419m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
H	419m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
I	499m W	Site Address: N/A	Type of Site: Waste & c. Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1908
I	499m W	Site Address: N/A	Type of Site: Waste & c. Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922

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

3.6 Licensed waste sites

Records within 500m	4
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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 52**

ID	Location	Details		
B	89m NE	Site Name: M C R Central Skips Ltd Site Address: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, Lancs, M40 2XG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MCR002 EPR reference: EA/EPR/VP3594VS/A001 Operator: M C R Central Skips Ltd Waste Management licence No: 102576 Annual Tonnage: 74999	Issue Date: 08/09/2011 Effective Date: - Modified:: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	105m NE	Site Name: Wright Waste Solutions Waste Transfer Station Site Address: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, Gt Manchester, M40 2XG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WWS010 EPR reference: EA/EPR/NB3239AE/V003 Operator: D M R Recycling (M/ C R) Limited Waste Management licence No: 102576 Annual Tonnage: 74999	Issue Date: 08/09/2011 Effective Date: 18/02/2013 Modified:: 18/03/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	105m NE	Site Name: Wright Waste Solutions Waste Transfer Station Site Address: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, Gt Manchester, M40 2XG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WWS010 EPR reference: EA/EPR/NB3239AE/V002 Operator: Wright Waste Solutions Ltd Waste Management licence No: 102576 Annual Tonnage: 74999	Issue Date: 08/09/2011 Effective Date: 18/02/2013 Modified:: 07/03/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified



ID	Location	Details		
B	105m NE	Site Name: Wright Waste Solutions Waste Transfer Station Site Address: Yard 3, Arkady Ind Est, Brisco Lane, Newton Heath, Manchester, M40 2XG Correspondence Address: -	Type of Site: 75kte HCI Waste TS + treatment Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WWS010 EPR reference: EA/EPR/NB3239AE/V003 Operator: D M R Recycling (MCr) Limited Waste Management licence No: 102576 Annual Tonnage: 74999	Issue Date: 08/09/2011 Effective Date: 18/02/2013 Modified:: 18/03/2014 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked

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

3.7 Waste exemptions

Records within 500m	35
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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 52**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	unit 1b 230 briscoe lane manchester M40 2xg	EPR/AH0370R V/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
A	On site	unit 1b 230 briscoe lane manchester M40 2xg	EPR/AH0370R V/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
A	On site	unit 1b 230 briscoe lane manchester M40 2xg	EPR/AH0370R V/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste
A	On site	unit 1b 230 briscoe lane manchester M40 2xg	EPR/AH0370R V/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Treating waste exemption	Not on a farm	Recovery of textiles



ID	Location	Site	Reference	Category	Sub-Category	Description
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Treating waste exemption	Not on a farm	Screening and blending of waste
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Treating waste exemption	Not on a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Treating waste exemption	Not on a farm	Treatment of waste toner cartridges by sorting, dismantling, cleaning or refilling
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	101m E	224, BRISCOE LANE, MANCHESTER, M40 2XG	WEX191784	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	145m NW	Victoria Works, Clifton Street manchester Lancashire M40 8HN	EPR/FF0109H N/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
D	146m NW	VICTORIA WORKS CLIFTON STREET MANCHESTER LANCHISHIRE M40 8HN	EPR/NF0905W Y/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in secure containers
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Treating waste exemption	Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Using waste exemption	Agricultural Waste Only	Spreading of plant matter to confer benefit
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Using waste exemption	Agricultural Waste Only	Incorporation of ash into soil
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open



ID	Location	Site	Reference	Category	Sub-Category	Description
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Storing waste exemption	Both agricultural and non-agricultural waste	Storage of waste in a secure place
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Screening and blending of waste
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
E	146m S	Eastover Farm Abbotts Ann Hampshire SP11 7BT	EPR/NE5184M M/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting mixed waste

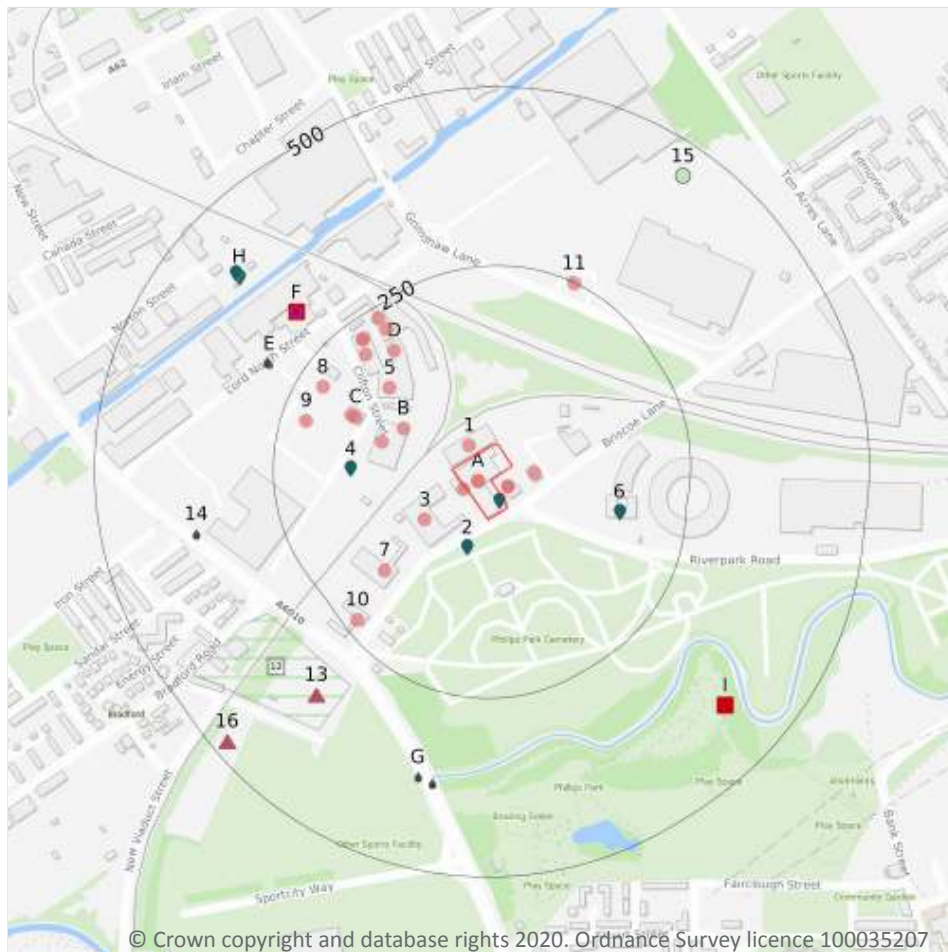


ID	Location	Site	Reference	Category	Sub-Category	Description
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Treating waste exemption	Non- Agricultural Waste Only	Manual treatment of waste
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Treating waste exemption	Non- Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Treating waste exemption	Non- Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Treating waste exemption	Non- Agricultural Waste Only	Recovery of scrap metal
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Using waste exemption	Non- Agricultural Waste Only	Use of sludge for the purposes of re-seeding a waste water treatment plant
E	146m S	Arkady Industrial Estate Briscoe Lane MANCHESTER M40 2XG	EPR/NE5984M D/A001	Using waste exemption	Non- Agricultural Waste Only	Use of waste for a specified purpose

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
- Control of Major Accident Hazards
- ▲ Hazardous substance storage/usage
- ⬭ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 1 Dangerous Substances
- Pollution Incidents (EA/NRW)
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m

24

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Company	Address	Activity	Category
A	On site	Its All in the Image	230, Briscoe Lane, Manchester, Greater Manchester, M40 2XG	General Construction Supplies	Industrial Products
A	On site	Factory	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
A	4m SW	Electricity Sub Station	Greater Manchester, M40	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	15m NE	George Jones & Son	232, Briscoe Lane, Manchester, Greater Manchester, M40 2XG	Food and Beverage Industry Machinery	Industrial Products
A	15m NE	Basic Welding Services	232, Briscoe Lane, Manchester, Greater Manchester, M40 2XG	Tools Including Machine Shops	Industrial Products
1	16m NW	Depot	Greater Manchester, M40	Container and Storage	Transport, Storage and Delivery
A	32m E	Warehouse	Greater Manchester, M40	Container and Storage	Transport, Storage and Delivery
3	73m SW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
B	89m NW	Tank	Greater Manchester, M40	Tanks (Generic)	Industrial Features
B	105m W	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
5	144m NW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
C	154m NW	R & M Developments Ltd	Clifton Street, Miles Platting, Manchester, Greater Manchester, M40 8HF	Civil Engineers	Engineering Services
C	159m NW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
7	160m SW	Roanza Mercedes Benz Truck & Van	Enza Mercedes Benz, Briscoe Lane, Manchester, Greater Manchester, M40 2NL	Vehicle Repair, Testing and Servicing	Repair and Servicing
D	184m NW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
D	202m NW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
8	215m NW	Depot	Greater Manchester, M40	Container and Storage	Transport, Storage and Delivery
9	215m W	Electricity Sub Station	Greater Manchester, M40	Electrical Features	Infrastructure and Facilities
D	216m NW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
D	220m NW	Malcolm Clarke Steel	Jubilee Works, Clifton Street, Miles Platting, Manchester, Greater Manchester, M40 8HN	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
D	220m NW	Alloy Bodies Ltd	Jubilee Works, Clifton Street, Miles Platting, Manchester, Greater Manchester, M40 8HN	Vehicle Bodybuilders	Industrial Products
10	231m SW	Philips Park Fire Station	Fire Station, Briscoe Lane, Manchester, Greater Manchester, M40 2XG	Fire Brigade Stations	Central and Local Government
D	234m NW	Works	Greater Manchester, M40	Unspecified Works Or Factories	Industrial Features
11	249m NE	Gas Governor	Greater Manchester, M40	Gas Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

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

This data is sourced from Experian.

4.3 Electricity cables

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

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 62**

ID	Location	Company	Address	Operational status	Tier
12	302m SW	British Gas	British Gas, Bradford Road Holder Station, Bradford Road, Miles Platting, M10 7BL	Historical COMAH Site	-

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

2

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 62**

ID	Location	Details	
13	343m SW	Application reference number: 000001/HSC/NORTH2/92 Application status: Approved Application date: 01/10/1992 Address: National Grid Gas PLC, Bradford Road Holder Station (East), Bradford Road, Miles Platting, Manchester, Greater Manchester, England, M40 7BN	Details: Storage of low pressure gas. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
16	479m SW	Application reference number: 059226/HSC/NORTH2/00 Application status: Historical Consent Application date: 11/07/2000 Address: Land Bounded By Alan Turing Way & New Viaduct Street, Bradford,	Details: Continuation Of Hazardous Substances Consent For Storage Of Gas 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	0
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Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

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

4.10 Licensed industrial activities (Part A(1))

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

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 62**

ID	Location	Details	
F	309m NW	Operator: PRINCES LTD Installation Name: MANCHESTER DRINKS MANUFACTURER Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: TP3832PN Original Permit Number: TP3832PN	EPR Reference: - Issue Date: 13/10/2005 Effective Date: 13/10/2005 Last date noted as effective: 01/10/2019 Status: SUPERCEDED

ID	Location	Details	
F	309m NW	Operator: PRINCES LTD Installation Name: MANCHESTER SOFT DRINKS - EPR/TP3832PN Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC VEGETABLE RAW MATERIALS FOR FOOD >300T/D Permit Number: CP3138CX Original Permit Number: TP3832PN	EPR Reference: - Issue Date: 11/07/2012 Effective Date: 11/07/2012 Last date noted as effective: 01/10/2019 Status: EFFECTIVE

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 62**

ID	Location	Address	Details	
A	On site	Northern Butchers Hide Markets Ltd, 228 Briscoe Lane, Newton Heath, M10 6XG	Process: Animal and Plant/Vegetable Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
2	49m SW	North Manchester Commercials, Briscoe Lane, M40 2NL	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
4	141m W	Trafford Rubber Product Ltd, North Mnadchester Site, 55 Clifton Street, Miles Platting, M10 8HF	Process: Rubber Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
6	156m E	GRM Insulation Solutions Ltd, Block 1, Riverpark, Riverpark Road, Manchester, M40 2XP	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	401m NW	Pioneer Concrete Ltd, Norton St, M40 8HD	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
H	408m NW	Hanson Aggregates (Formerly Hanson Premix), Norton Street, Miles Platting, M10 8HD	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified



This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

8

Discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Address	Details	
E	295m NW	LORD NORTH STREET/CLIFTON ST CSO, LORD NORTH STREET/CLIFTON ST JNC, MANCHESTER, GREATER MANCHESTER, M40 2HJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0069 Permit Version: 5 Receiving Water: SHOOTERS BROOK	Status: VARIED UNDER EPR 2010 Issue date: 20/11/2019 Effective Date: 20/11/2019 Revocation Date: -
E	298m NW	LORD NORTH STREET/CLIFTON ST CSO, LORD NORTH STREET/CLIFTON ST JNC, MANCHESTER, GREATER MANCHESTER, M40 2HJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0069 Permit Version: 1 Receiving Water: SHOOTERS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 13/04/2009
E	298m NW	LORD NORTH STREET/CLIFTON ST CSO, LORD NORTH STREET/CLIFTON ST JNC, MANCHESTER, GREATER MANCHESTER, M40 2HJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0069 Permit Version: 2 Receiving Water: SHOOTERS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 02/09/2010
E	298m NW	LORD NORTH STREET/CLIFTON ST CSO, LORD NORTH STREET/CLIFTON ST JNC, MANCHESTER, GREATER MANCHESTER, M40 2HJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0069 Permit Version: 3 Receiving Water: SHOOTERS BROOK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 04/02/2016



ID	Location	Address	Details	
E	298m NW	LORD NORTH STREET/CLIFTON ST CSO, LORD NORTH STREET/CLIFTON ST JNC, MANCHESTER, GREATER MANCHESTER, M40 2HJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0069 Permit Version: 4 Receiving Water: SHOOTERS BROOK	Status: VARIED UNDER EPR 2010 Issue date: 05/02/2016 Effective Date: 05/02/2016 Revocation Date: 19/11/2019
14	369m W	HULME HALL LANE OPP FALMO, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0260 Permit Version: 1 Receiving Water: SHOOTERS BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
G	373m S	MILL ST/FORGE LANE, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0099 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 26/08/1999
G	378m S	MILL ST AT PARK INN, MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0100 Permit Version: 1 Receiving Water: RIVER MEDLOCK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 18/07/1995

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

3

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.

Features are displayed on the Current industrial land use map on **page 62**

ID	Location	Name	Status	Receiving Water	Authorised Substances
F	309m NW	Manchester Soft Drink	Active	Manchester Ship Canal	Mercury (other)
I	412m SE	Clifford Whatmough Limited, Score Street, Manchester	Active	-	-
I	412m SE	Clifford Whatmough Limited, Score Street, Manchester	Not Active	Manchester Ship Canal	Cadmium

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

1

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 62**

ID	Location	Details	
15	455m NE	Incident Date: 05/07/2002 Incident Identification: 89466 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)

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

1

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.

Features are displayed on the Current industrial land use map on **page 62**

ID: F, Location: 309m NW, Permit: TP3832PN
 Operator: Princes Ltd
 Activity: TREATMENT AND PROCESSING (OTHER THAN PACKAGING) OF ONLY VEGETABLE RAW MATERIALS WITH A FINISHED PRODUCT CAPACITY > 300 T/D (OR 600 T/D FOR OPERATIONS LESS THAN 90 CONSECUTIVE DAYS IN ANY YEAR_
 Address: Princes Soft Drinks Lord North Street Manchester Greater Manchester M40 2HJ
 Sector: Food & Drink, Sub-sector: Food & Drink
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D10	Incineration on Land	1158.6	Absolute Value	02 07 04	materials unsuitable for consumption or processing	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	125.9	Absolute Value	15 01 03	wooden packaging	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	161.6	Absolute Value	15 01 06	mixed packaging	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	160	Absolute Value	20 01 01	paper and cardboard	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	2.6	Absolute Value	20 01 39	plastics	No
R4	Recycling/reclamation of metals and metal compounds	128.55	Absolute Value	20 01 40	metals	No
R1	Use principally as a fuel or other means to generate energy	216.3	Absolute Value	20 03 01	mixed municipal waste	No

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

4.21 Pollution inventory radioactive waste

Records within 500m

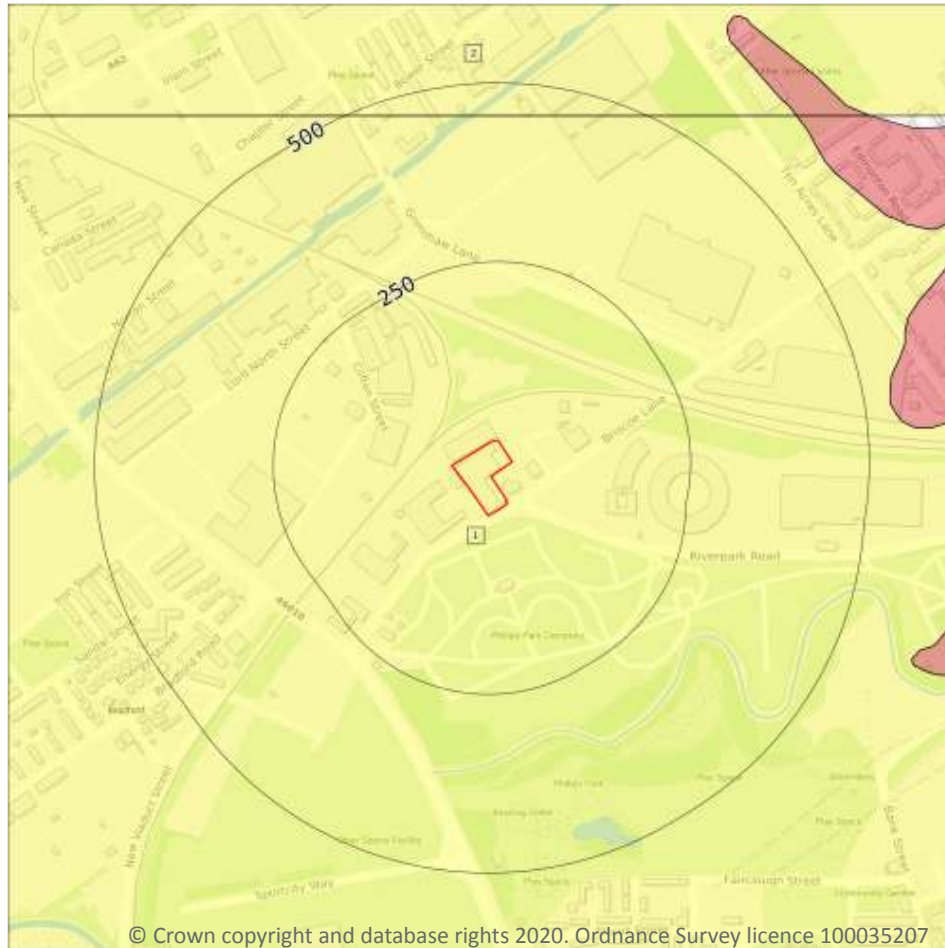
0

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

2

Aquifer status of groundwater held within superficial geology.

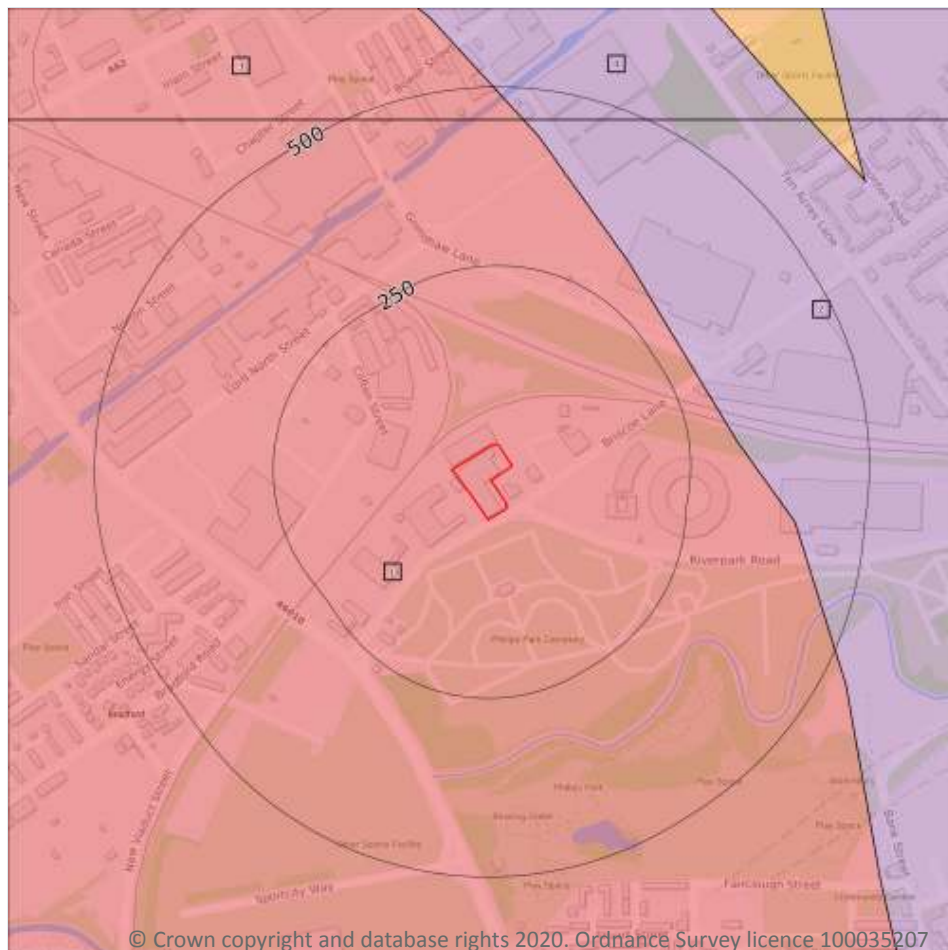
Features are displayed on the Hydrogeology map on **page 73**

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	454m N	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 75**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	287m NE	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

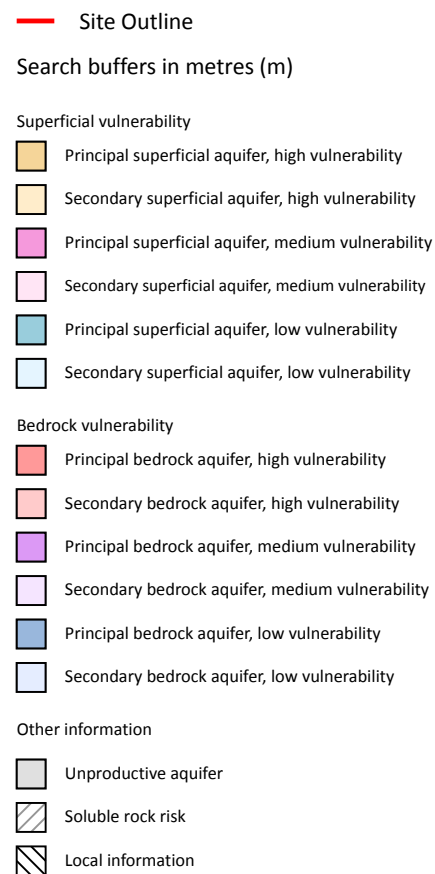


ID	Location	Designation	Description
3	454m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	456m N	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 77**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Medium	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	37m E	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

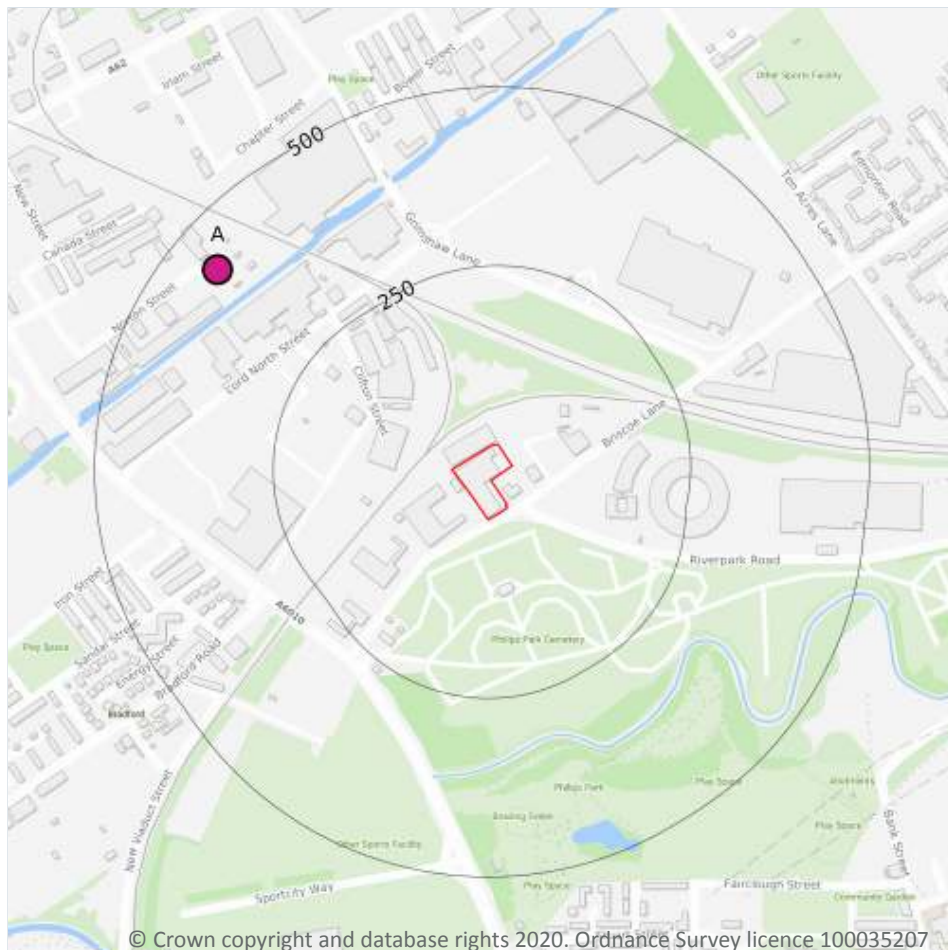
Records on site

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

25

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 79**

ID	Location	Details	
A	430m NW	Status: Historical Licence No: 2569005061 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT NORTON STREET, MILES PLATTING, MANCHESTER" Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LTD Easting: 386550 Northing: 399790	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 08/02/2000 Expiry Date: - Issue No: 2 Version Start Date: 01/07/2000 Version End Date: -
A	430m NW	Status: Active Licence No: 2569005061 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT NORTON STREET, MILES PLATTING, MANCHESTER Data Type: Point Name: HANSON QUARRY PRODUCTS EUROPE LIMITED Easting: 386550 Northing: 399790	Annual Volume (m ³): 33,000 Max Daily Volume (m ³): 125 Original Application No: - Original Start Date: 08/02/2000 Expiry Date: - Issue No: 3 Version Start Date: 13/08/2012 Version End Date: -
-	1407m SE	Status: Active Licence No: 2569006037 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 1 ON PREMISES AT CROFT STREET, CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 387860 Northing: 398379	Annual Volume (m ³): 111,832 Max Daily Volume (m ³): 655 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -
-	1409m SE	Status: Active Licence No: 2569006037 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 2 ON PREMISES AT CROFT STREET, CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 387859 Northing: 398375	Annual Volume (m ³): 111,832 Max Daily Volume (m ³): 655 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -

ID	Location	Details	
-	1417m SE	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) ON PREMISES AT CROFT ST, CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1417m SE	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (2) ON PREMISES AT CROFT ST, CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1417m SE	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 ON PREMISES AT CROFT STREET CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m ³): 111,832 Max Daily Volume (m ³): 655 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1546m SE	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -

ID	Location	Details	
-	1546m SE	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1546m SE	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): 633,962 Max Daily Volume (m ³): 2,837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1546m SE	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m ³): 633,962 Max Daily Volume (m ³): 2,837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1593m SE	Status: Active Licence No: 2569006036 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Limited Easting: 388027 Northing: 398277	Annual Volume (m ³): 372,772 Max Daily Volume (m ³): 3,601 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 103 Version Start Date: 09/03/2017 Version End Date: -



ID	Location	Details	
-	1596m SE	Status: Historical Licence No: NW/069/0006/005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 266,113 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1596m SE	Status: Historical Licence No: NW/069/0006/005 Details: Horticultural Watering Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 266,113 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1596m SE	Status: Historical Licence No: NW/069/0006/005 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 266,113 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1596m SE	Status: Active Licence No: NW/069/0006/005/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 221,650 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1596m SE	Status: Active Licence No: NW/069/0006/005/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m ³): 221,650 Max Daily Volume (m ³): 1,000 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -



ID	Location	Details	
-	1634m SE	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1634m SE	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1634m SE	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1634m SE	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -

ID	Location	Details	
-	1634m SE	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): 372,772 Max Daily Volume (m ³): 3,601 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1634m SE	Status: Historical Licence No: 2569006036 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m ³): 372,772 Max Daily Volume (m ³): 3,601 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1968m W	Status: Historical Licence No: 2569005015 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "B/HOLE, LITTLE GREEN WORKS, COLLYHURST RD, MANCHESTER 10" Data Type: Point Name: PACKAGING PRODUCTS LTD Easting: 385000 Northing: 400100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/02/1995 Version End Date: -
-	1968m W	Status: Active Licence No: 2569005015 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: B/HOLE, LITTLE GREEN WORKS, COLLYHURST RD, MANCHESTER 10 Data Type: Point Name: Packaging Products (Coatings) Ltd Easting: 385000 Northing: 400100	Annual Volume (m ³): 438,689 Max Daily Volume (m ³): 1,637 Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 09/02/2011 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 79**

ID	Location	Details	
-	1237m SE	Status: Historical Licence No: 2569006996 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER [VITACOM] Data Type: Point Name: BRITISH WATERWAYS Easting: 387600 Northing: 398400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1352m SE	Status: Historical Licence No: 2569006997 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "ASHTON CANAL, MANCHESTER [CLAYTON ANALINE]" Data Type: Point Name: BRITISH WATERWAYS Easting: 387800 Northing: 398400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1352m SE	Status: Historical Licence No: 2569006997 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER [CLAYTON ANALINE] Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 387800 Northing: 398400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

ID	Location	Details	
-	1352m SE	Status: Active Licence No: 2569006997 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL MANCHESTER CLAYTON ANALINE Data Type: Point Name: Canal and River Trust Easting: 387800 Northing: 398400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1627m SE	Status: Historical Licence No: 2569006995 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ASHTON CANAL, MANCHESTER" Data Type: Point Name: BRITISH WATERWAYS Easting: 388100 Northing: 398300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -
-	1627m SE	Status: Active Licence No: 2569006995 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER Data Type: Point Name: Canal and River Trust Easting: 388100 Northing: 398300	Annual Volume (m ³): 68,190 Max Daily Volume (m ³): 68,190 Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0
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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
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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 89**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Medlock (Lumb Brook to Irwell)	GB112069061152	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
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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 89**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Biological rating	Year
3	315m S	River	Medlock (Lumb Brook to Irwell)	GB112069061152	Moderate	Good	Moderate	2016

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 89**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Manchester and East Cheshire Permo-Triassic Sandstone Aquifers	<u>GB41201G101100</u>	Poor	Poor	Poor	2015

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 Sea (RoFRaS)

Records within 50m

0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; 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).

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

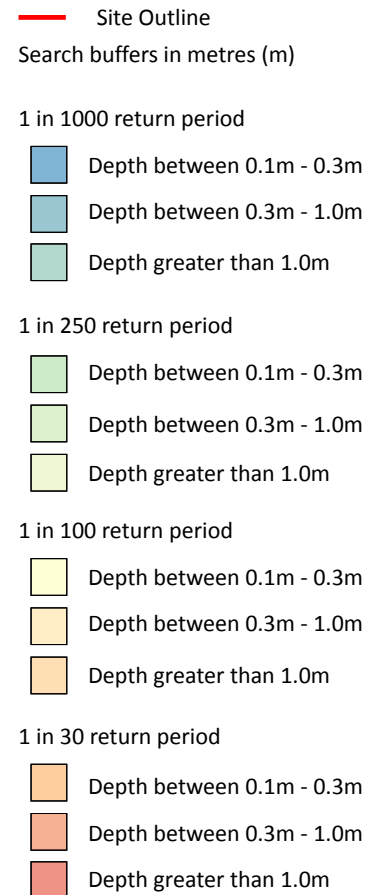
0

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

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year rainfall events. Modern urban drainage systems are typically built to cope with rainfall events between 1 in 20 and 1 in 30 years, though some older ones may flood in a 1 in 5 year rainfall event.

Features are displayed on the Surface water flooding map on **page 95**

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.

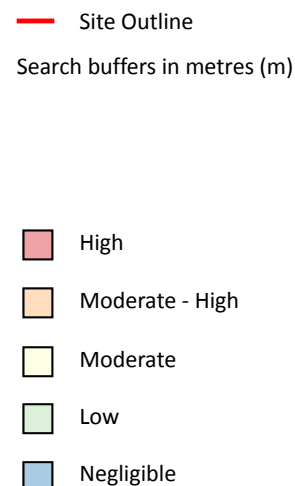
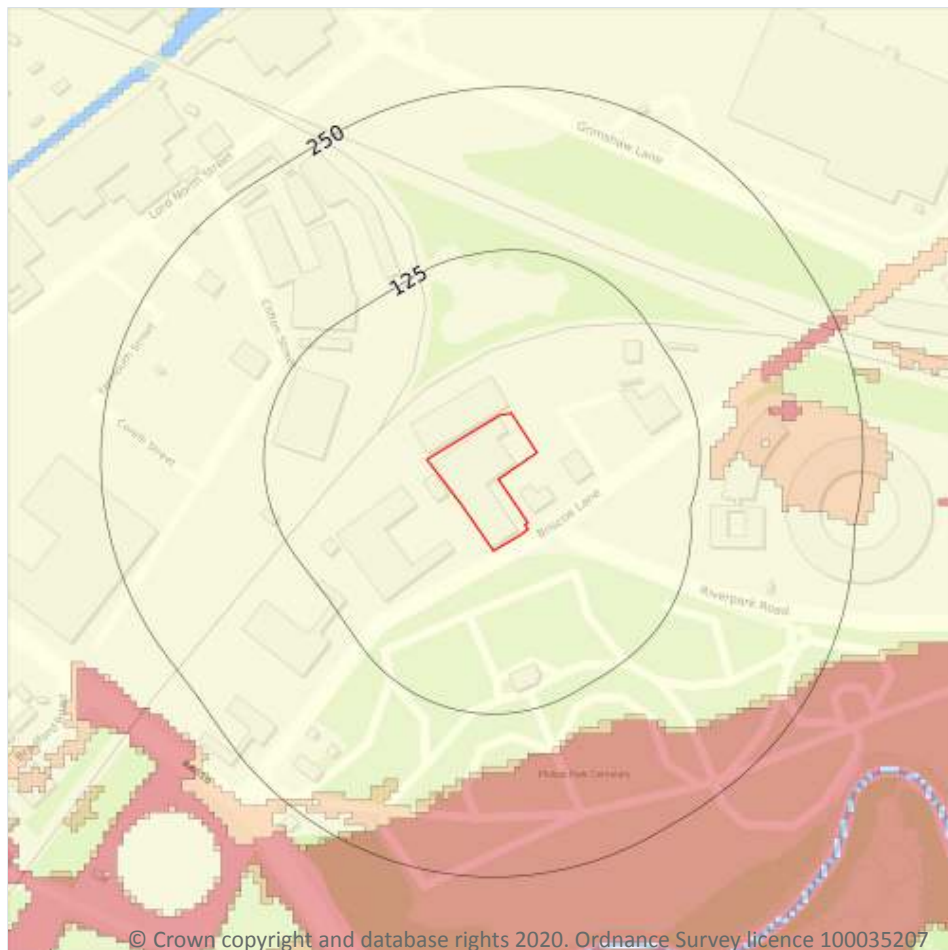
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.1m and 0.3m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Moderate

Highest risk within 50m

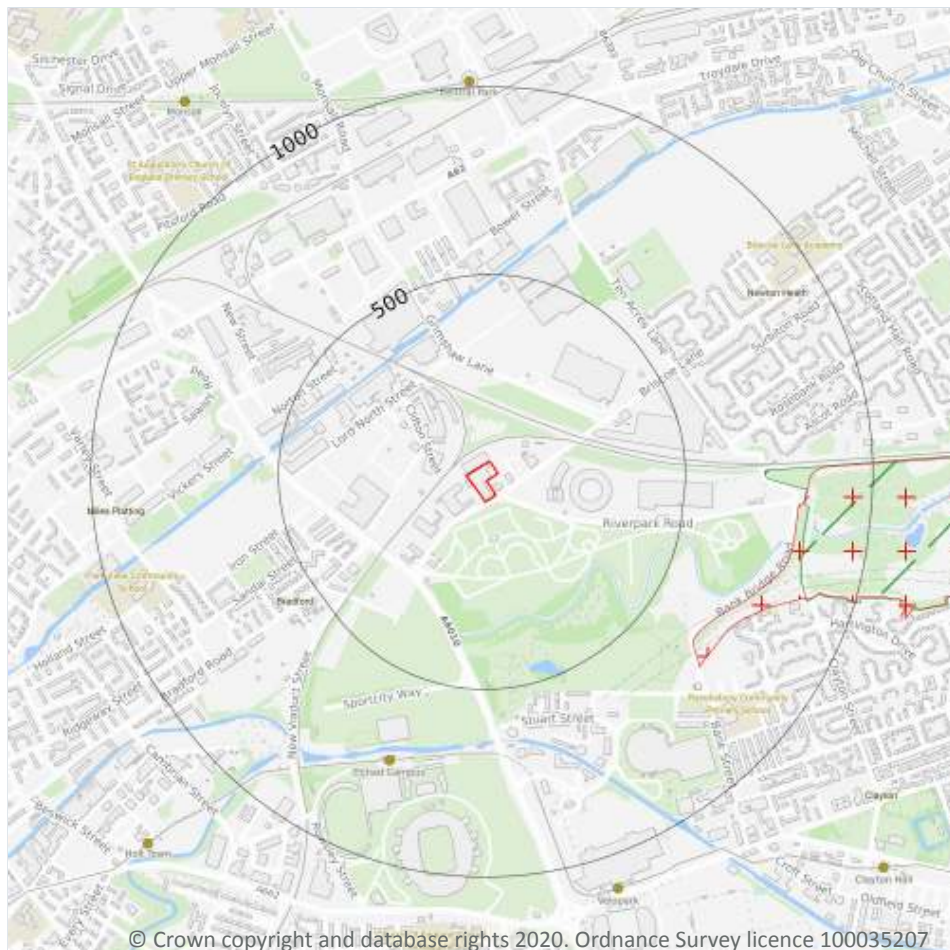
Moderate

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

Features are displayed on the Groundwater flooding map on **page 97**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on **page 98**

ID	Location	Name	Data source
A	652m SE	Clayton Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 98**

ID	Location	Name	Local Authority name
A	712m E	Liverpool, Manchester and West Yorks Greenbelt	Manchester District (B)

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**1**

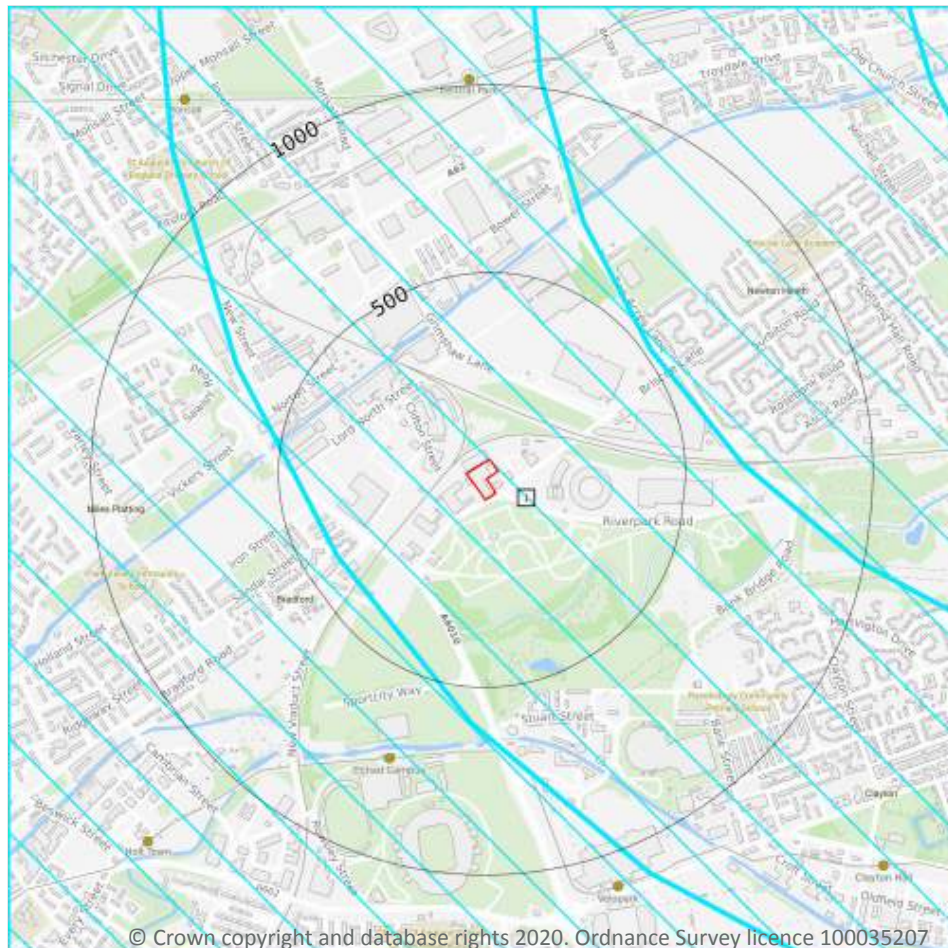
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
808m N	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	S638	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 103**

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

This data is sourced from Natural England.

10.18 SSSI Units

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

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

11 Visual and cultural designations



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

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

3

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

Features are displayed on the Visual and cultural designations map on **page 105**

ID	Location	Name	Grade	Reference Number	Listed date
2	99m S	Cemetery Chapel At Phillips Park Cemetery, Manchester, M40	II	1200816	20/06/1988
A	220m SW	Cemetery Office At Phillips Park Cemetery, Manchester, M40	II	1218723	20/06/1988
A	245m SW	Gates And Railings To Main Entrance Of Phillips Park Cemetery, Manchester, M40	II	1218735	20/06/1988

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

11.7 Registered Parks and Gardens

Records within 250m

1

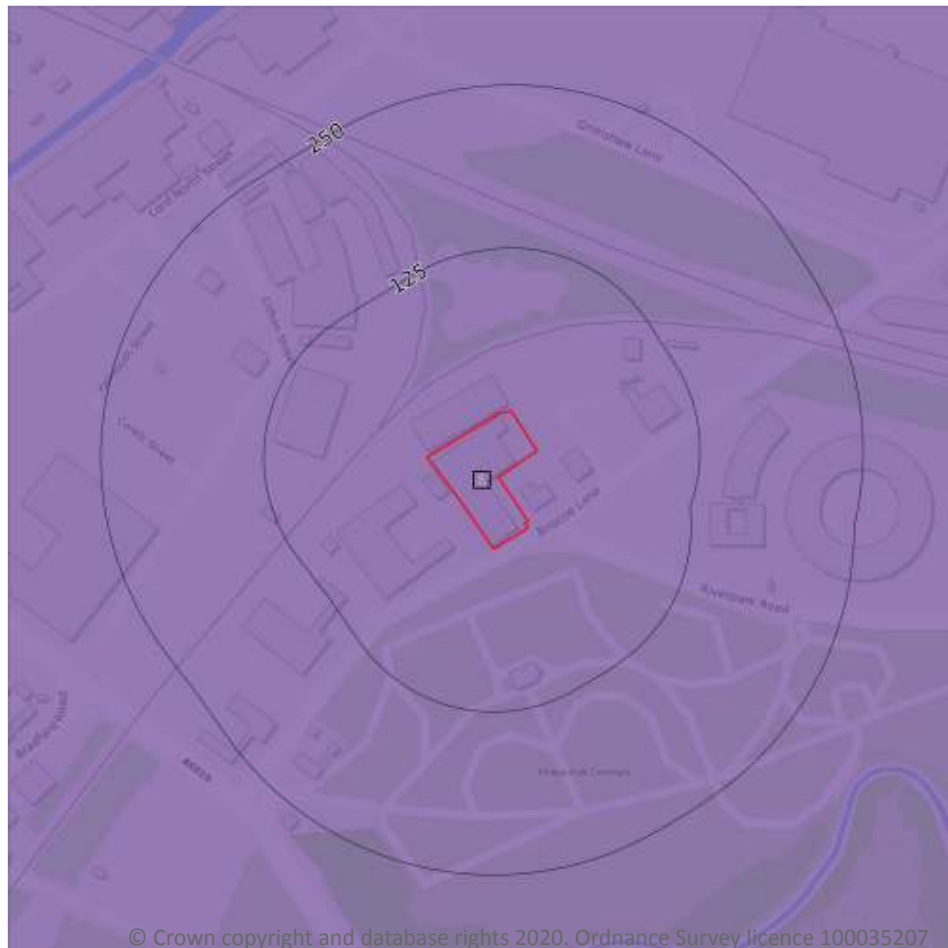
Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the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

Features are displayed on the Visual and cultural designations map on **page 105**

ID	Location	Name	Grade
1	15m SE	Philips Park Cemetery	II

This data is sourced from English Heritage, 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 108**

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.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

5

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

Features are displayed on the Habitat designations map on **page 110**

ID	Location	Main Habitat	Other habitats
1	78m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	222m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
5	232m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	242m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
A	246m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0
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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	2
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Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

Features are displayed on the Habitat designations map on **page 110**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
2	159m NE	NLUD Ref: 421500065	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-
4	231m N	NLUD Ref: 421500812	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0
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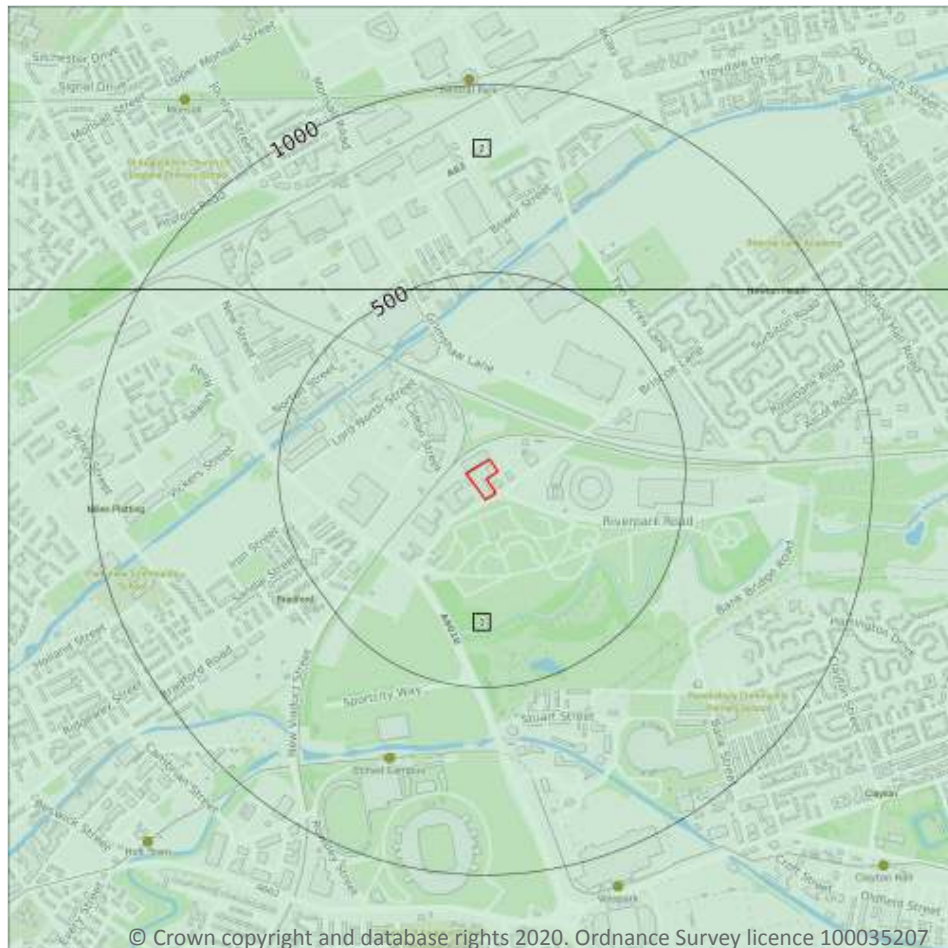
Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK

Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



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

14.1 10k Availability

Records within 500m

2

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

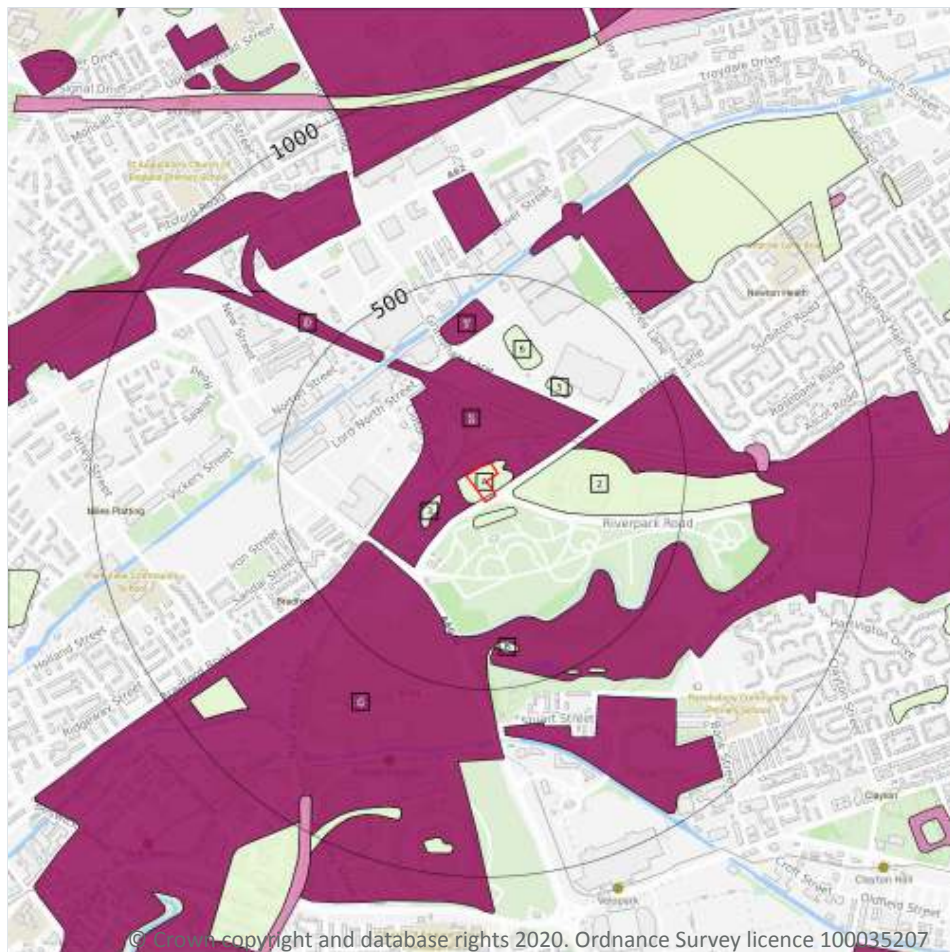
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 113**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SJ89NE
2	454m N	Full	Full	Full	Full	SD80SE

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

11

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 114**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	31m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	47m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit

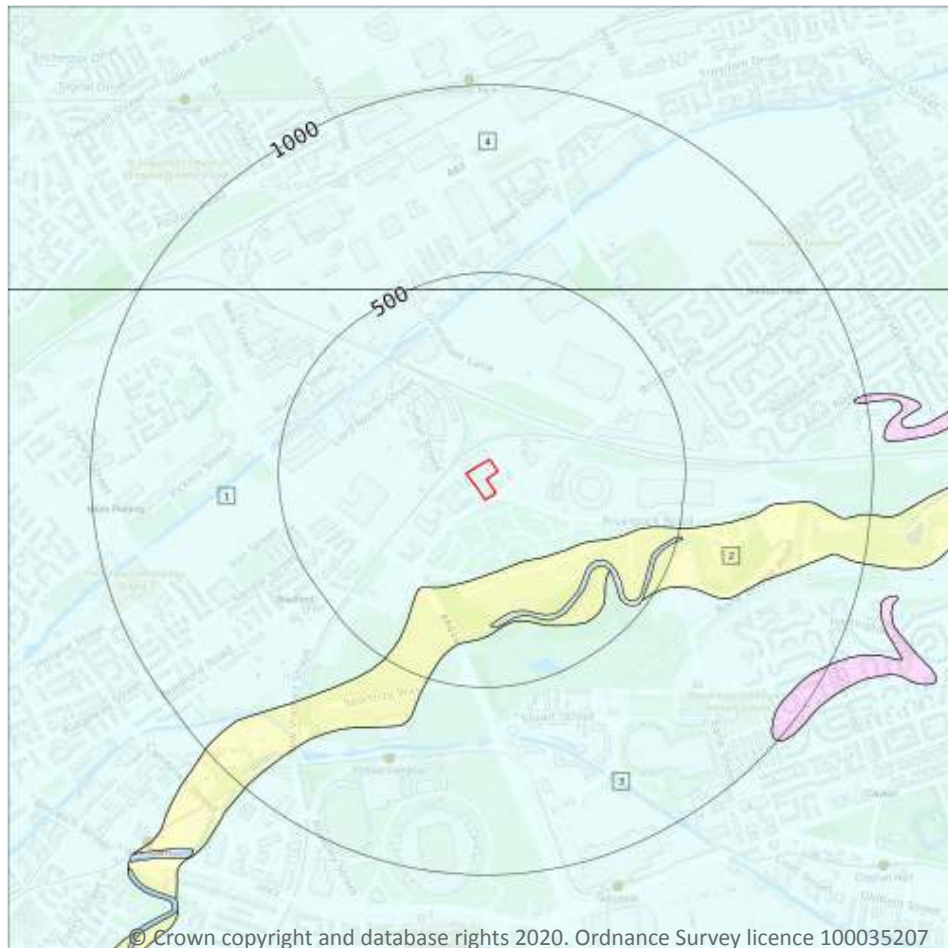


ID	Location	LEX Code	Description	Rock description
3	86m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	209m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	250m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
6	264m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	325m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	375m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
9	380m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline
Search buffers in metres (m)

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

14.3 Superficial geology (10k)

Records within 500m

4

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 116**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	190m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	334m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
4	454m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

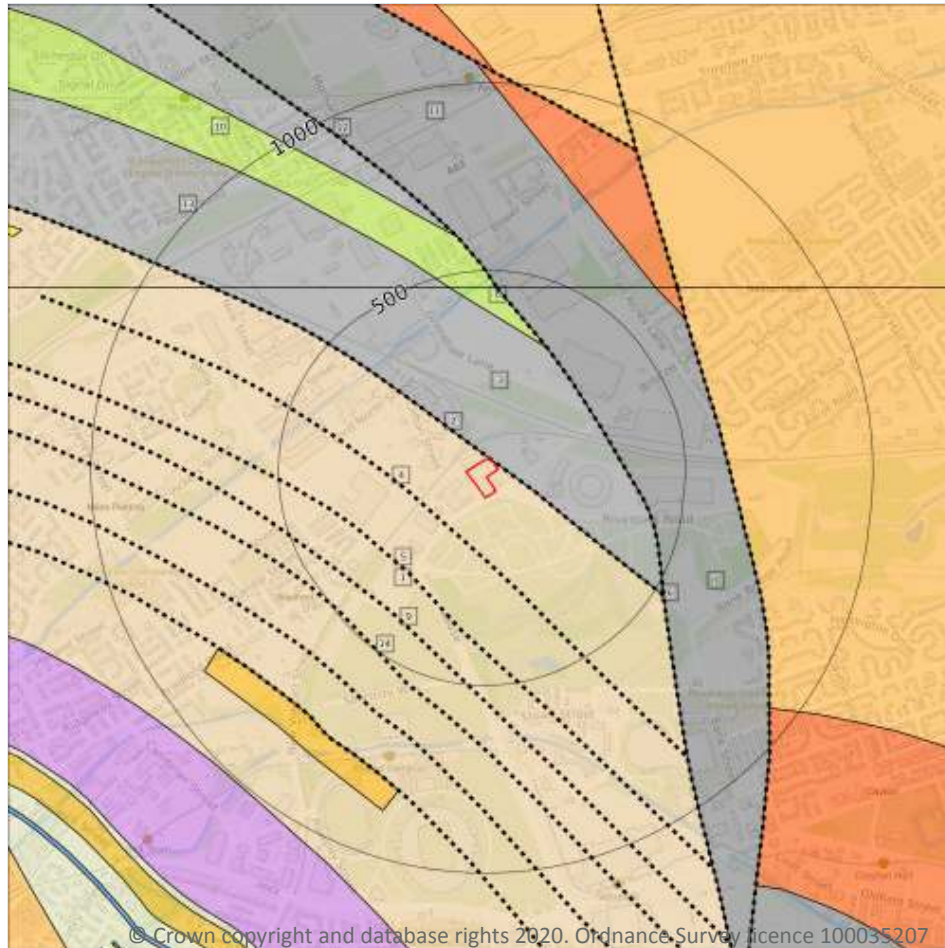
0

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

7

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 118**

ID	Location	LEX Code	Description	Rock age
1	On site	PUCM-MDSS	Pennine Upper Coal Measures Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age - Bolsovian Sub-age
3	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
7	292m NE	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch



ID	Location	LEX Code	Description	Rock age
8	331m NE	NHSS-SDST	Newton Heath Sandstone - Sandstone	Bolsovia Sub-age
10	454m N	NHSS-SDST	Newton Heath Sandstone - Sandstone	Bolsovia Sub-age
11	455m N	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
13	467m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	7
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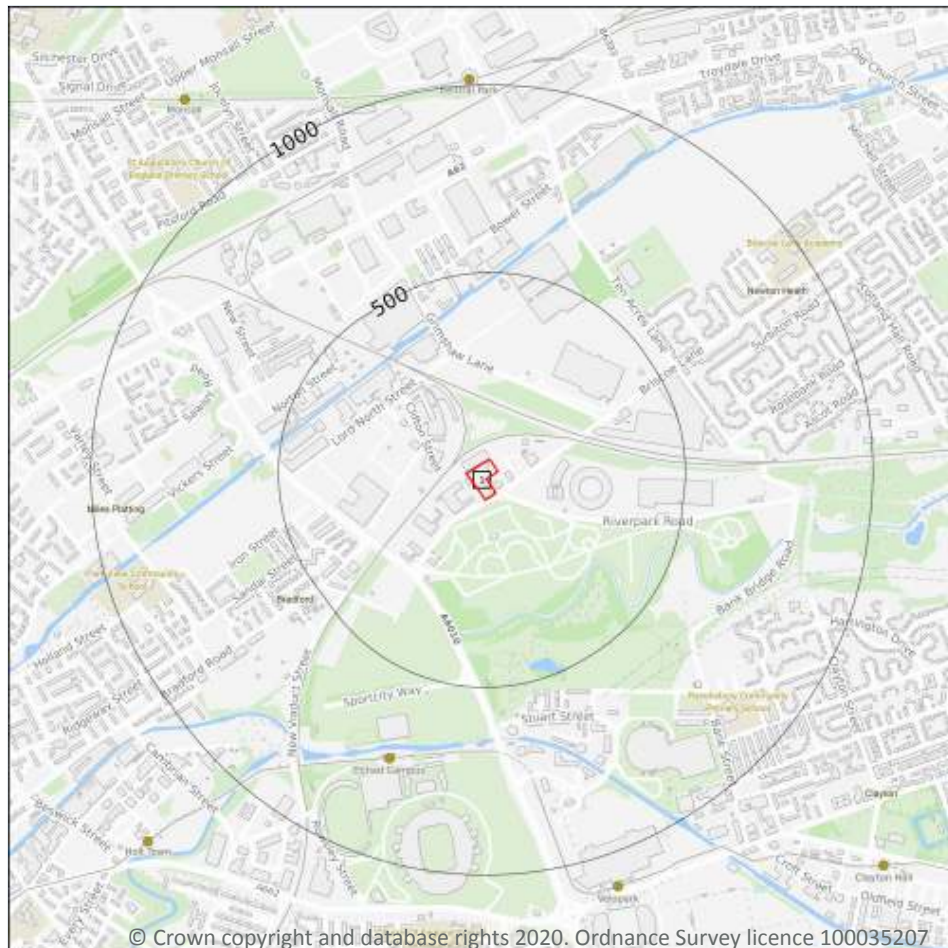
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 118**

ID	Location	Category	Description
2	On site	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
4	123m SW	ROCK	Coal seam, inferred
5	286m SW	ROCK	Coal seam, inferred
6	292m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
9	394m SW	ROCK	Coal seam, inferred
12	455m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	490m SW	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.

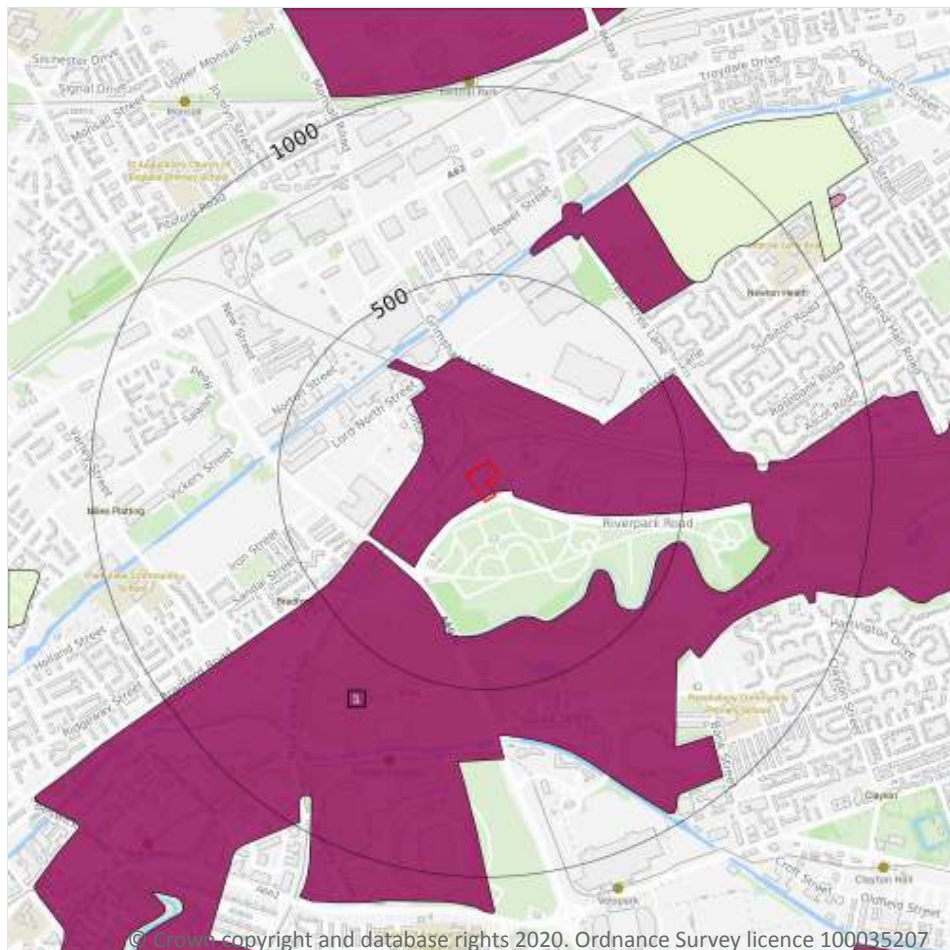
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 120**

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

This data is sourced from the British Geological Survey.



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



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

15.2 Artificial and made ground (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 121**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m**1**

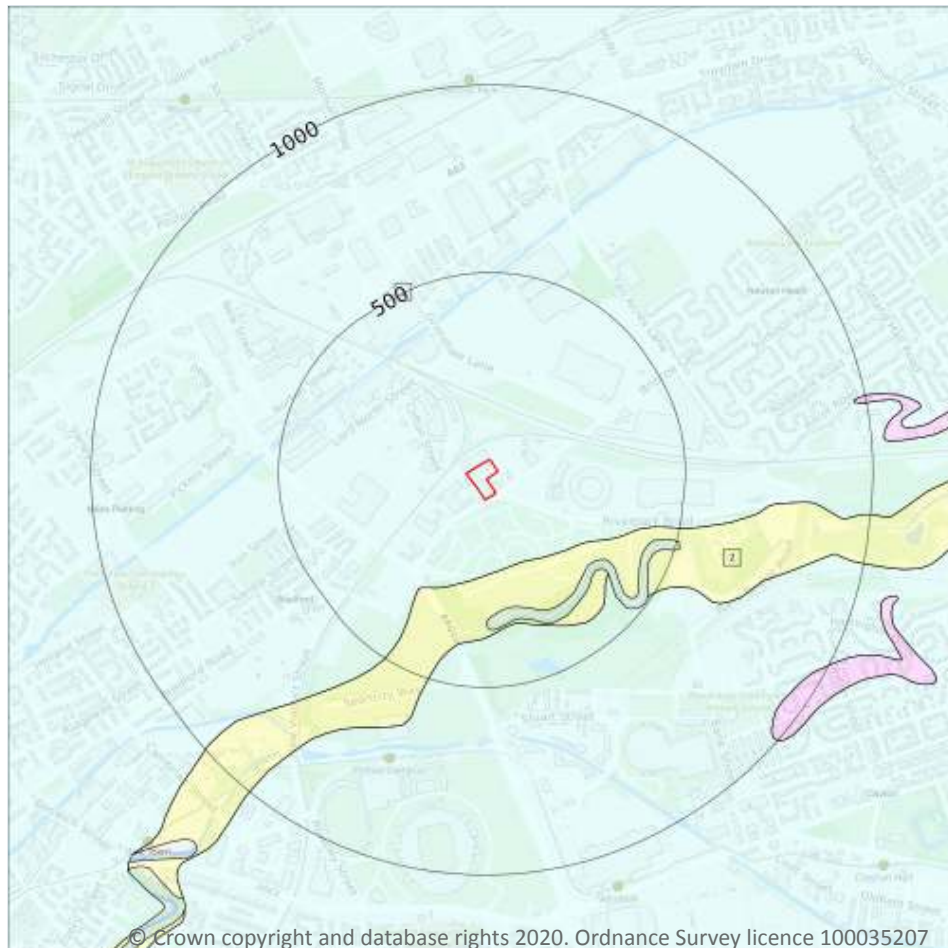
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

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

2

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 123**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON
2	190m S	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	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)

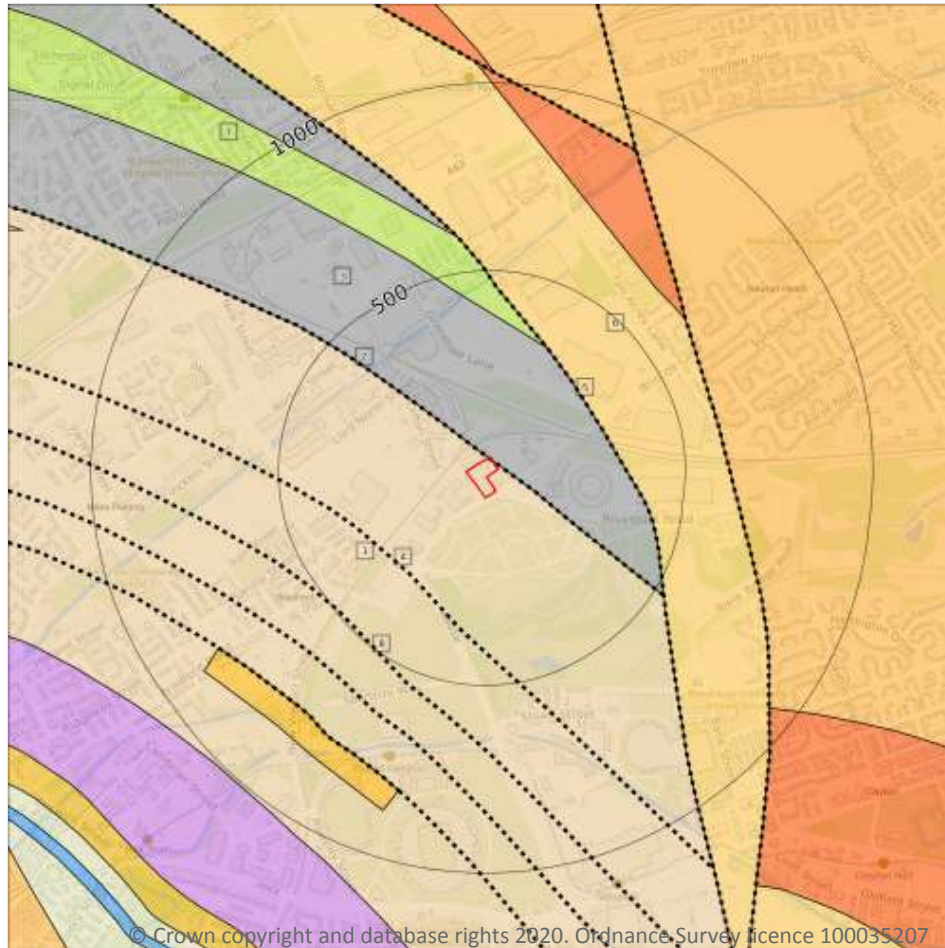
Records within 50m**0**

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

4

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 125**

ID	Location	LEX Code	Description	Rock age
1	On site	PUCM-MDSS	PENNINE UPPER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	293m NE	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN



ID	Location	LEX Code	Description	Rock age
7	331m NE	NHSS-SDST	NEWTON HEATH SANDSTONE - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2
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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
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	4
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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.

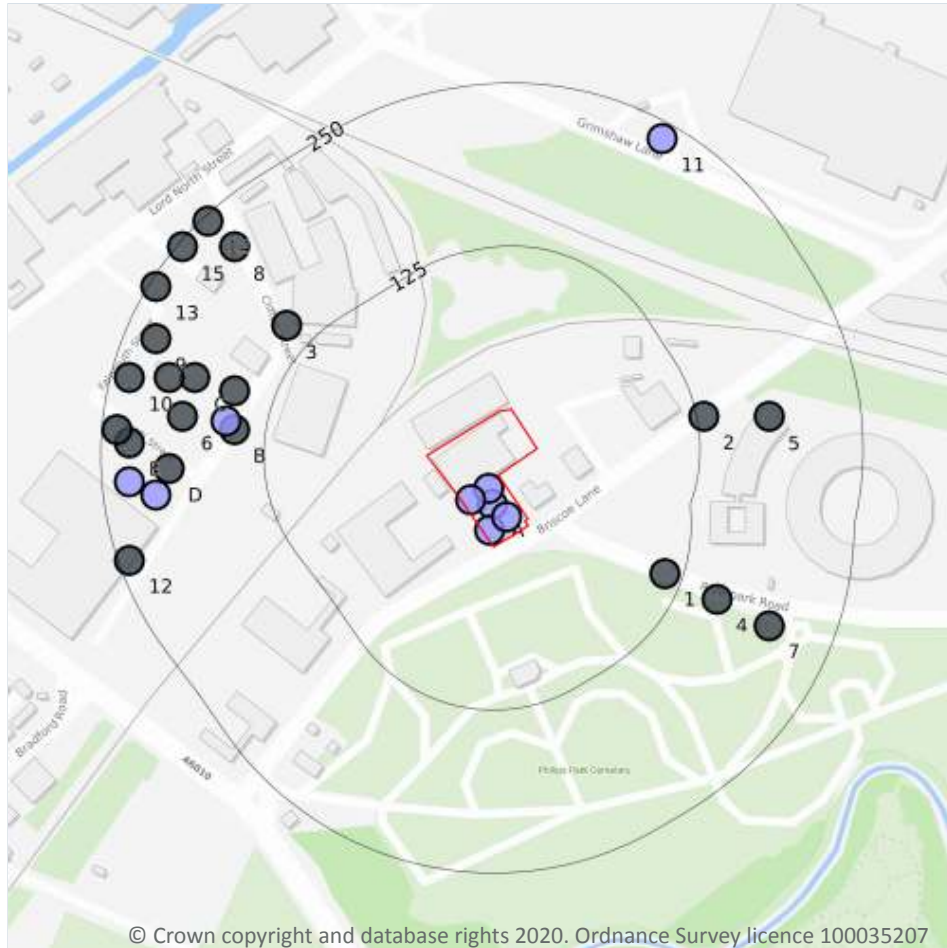
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 125**

ID	Location	Category	Description
2	On site	FOSSIL_HORIZON	Marine band
4	286m SW	ROCK	Coal seam, inferred
5	293m NE	FAULT	Fault, inferred
8	491m SW	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

30

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 127**

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	386928 399473	BRISCOE LANE, NEWTON HEATH, MANCHESTER 3	6.0	N	18291315
A	On site	386925 399485	BRISCOE LANE, NEWTON HEATH, MANCHESTER 4	8.3	N	18291316



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	386911 399476	BRISCOE LANE, NEWTON HEATH, MANCHESTER 1	5.0	N	18291313
A	On site	386926 399453	BRISCOE LANE, NEWTON HEATH, MANCHESTER 5	6.9	N	18291317
A	On site	386939 399463	BRISCOE LANE, NEWTON HEATH, MANCHESTER 2	5.0	N	18291314
1	111m E	387060 399420	BRISCOE LANE/RIVERPARK ROAD 5	-	Y	N/A
2	130m E	387090 399540	BRISCOE LANE 2	-	Y	N/A
3	147m NW	386770 399610	CLIFTON STREET 4	-	Y	N/A
B	149m W	386730 399530	CLIFTON STREET 3	-	Y	N/A
4	155m E	387100 399400	BRISCOE LANE 5	-	Y	N/A
B	156m W	386730 399560	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER 6A	-	Y	N/A
B	156m W	386724 399537	MANCHESTER CORP. CLIFTON STREET	7.62	N	936455
5	180m E	387140 399540	BRISCOE LANE 1	-	Y	N/A
C	188m W	386700 399570	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP6A	-	Y	N/A
6	190m W	386690 399540	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP10A	-	Y	N/A
D	198m W	386680 399500	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER 10A	-	Y	N/A
7	200m E	387140 399380	BRISCOE LANE/RIVERPARK ROAD 6	-	Y	N/A
C	207m W	386680 399570	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER 5A	-	Y	N/A
D	210m W	386670 399480	ALAN TURING WAY MILES PLATTING MANCHESTER 4	10.0	N	15989183
8	218m NW	386730 399670	CLIFTON STREET 5	-	Y	N/A
9	226m NW	386670 399600	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP5A	-	Y	N/A
E	228m W	386650 399520	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP13A	-	Y	N/A
D	229m W	386650 399490	ALAN TURING WAY MILES PLATTING MANCHESTER TP3	4.05	N	15989195



ID	Location	Grid reference	Name	Length	Confidential	Web link
10	236m W	386650 399570	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP9A	-	Y	N/A
11	237m NE	387058 399753	WEIR PUMPS MANCHESTER TP12	5.6	N	18504023
E	239m W	386640 399530	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER 9A	-	Y	N/A
12	242m W	386650 399430	CLIFTON STREET 2	-	Y	N/A
13	245m NW	386670 399640	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP4A	-	Y	N/A
14	246m NW	386710 399690	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER 1A	-	Y	N/A
15	247m NW	386690 399670	ALAN TURING WAY PHASE 2 MILES PLATTING MANCHESTER TP2A	-	Y	N/A

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 130**

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

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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.

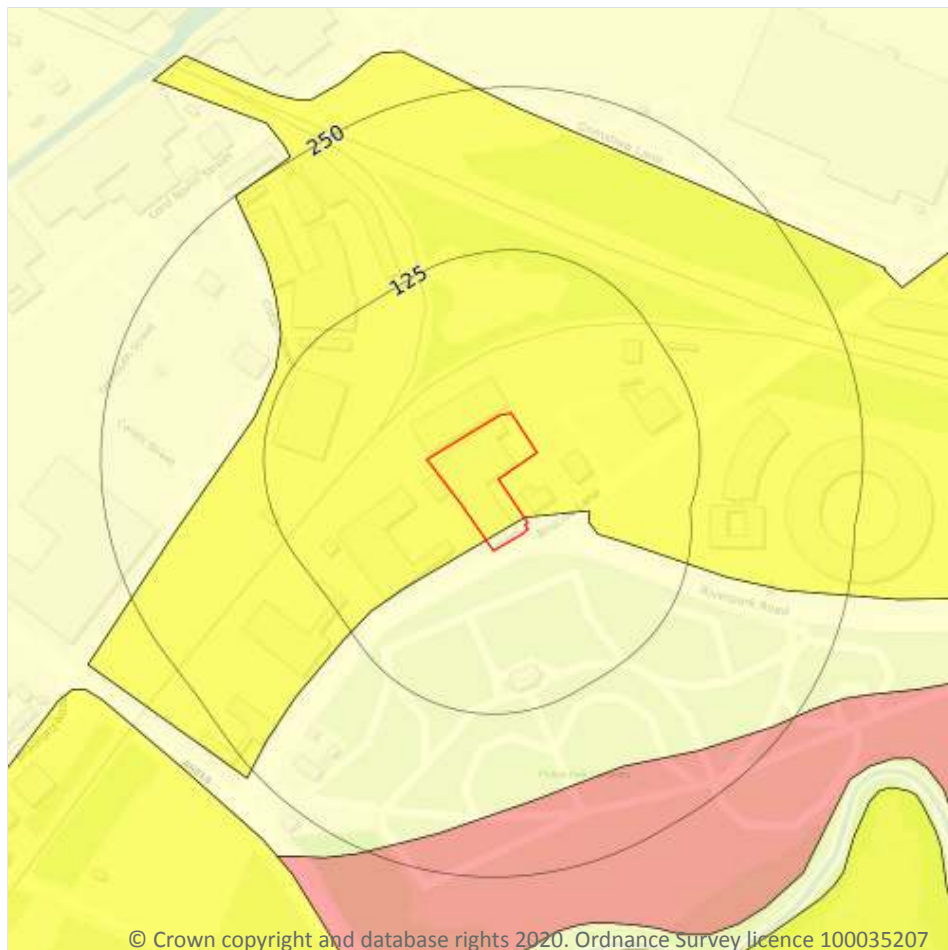
Features are displayed on the Natural ground subsidence - Running sands map on **page 131**

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

2

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

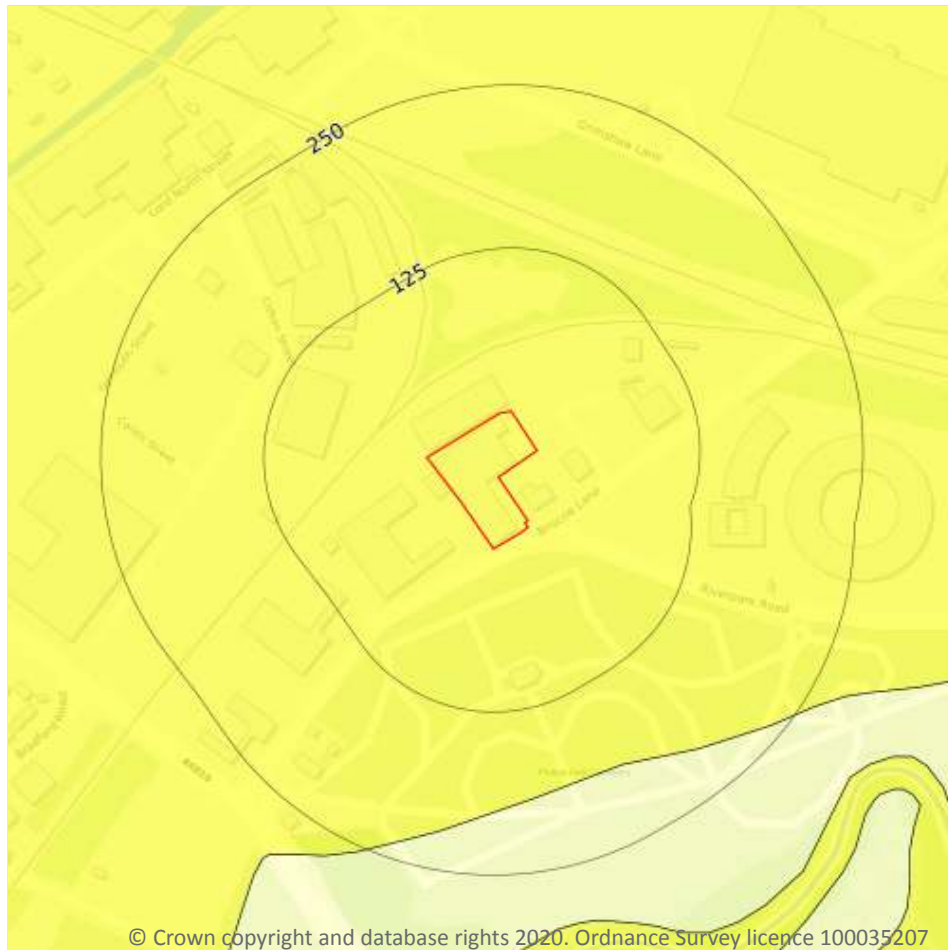
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 132**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

1

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

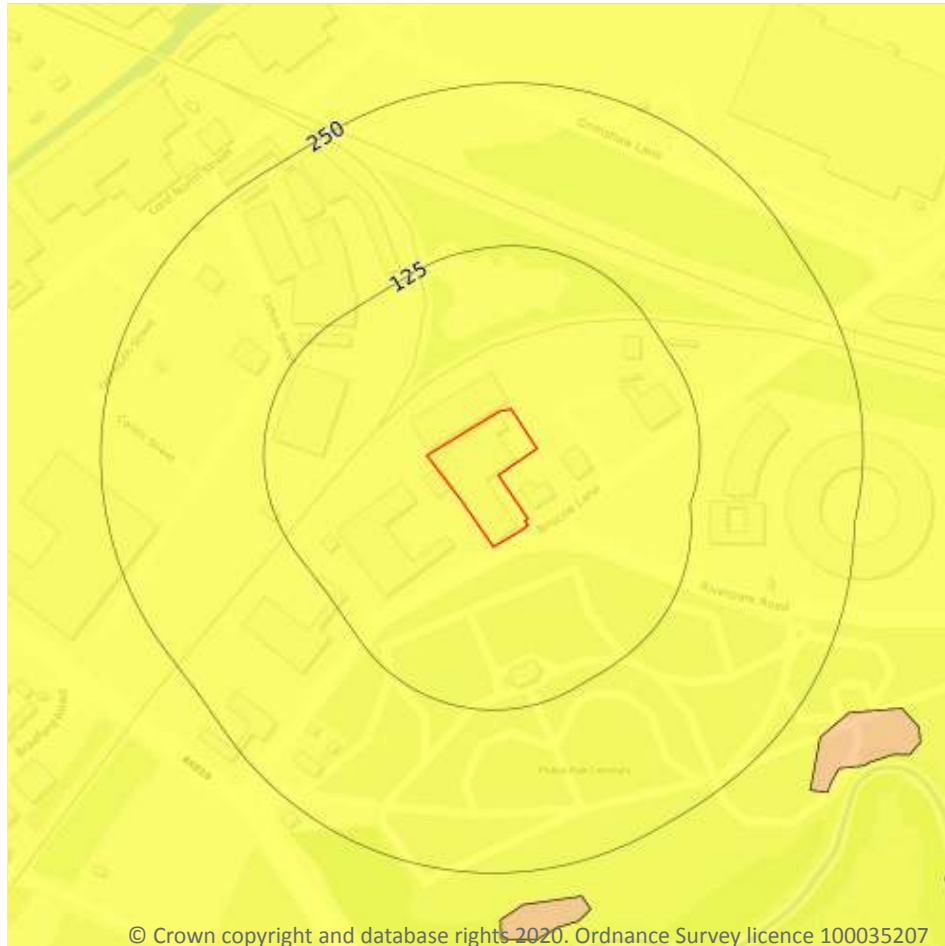
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 134**

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

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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.

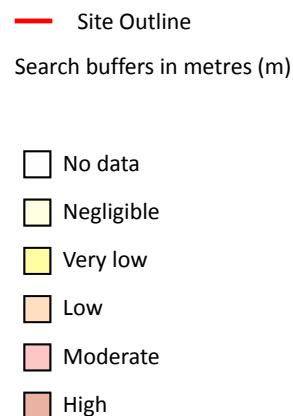
Features are displayed on the Natural ground subsidence - Landslides map on **page 135**

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



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 136**

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 Peter Brett Associates (PBA).

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 138**

ID	Location	Details	Description
A	On site	Name: Philips Park Brick Works Address: Clayton, MANCHESTER, Lancashire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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
G	292m W	Name: Miles Platting Brick Works Address: Miles Platting, MANCHESTER, Lancashire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
K	399m E	Name: Philips Park Brick Works Address: Clayton, MANCHESTER, Lancashire Commodity: Clay & Shale Status: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site	Type: Ceased 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

81

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 138**

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Pit	1938	1:10560
A	On site	Unspecified Pit	1933	1:10560
A	On site	Brick Works	1906	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Old Clay Pit	1921	1:10560
A	On site	Pond	1906	1:10560
A	On site	Clay Pit	1906	1:10560
A	On site	Ponds	1891	1:10560
A	On site	Old Clay Pit	1923	1:10560
B	On site	Brick Works	1921	1:10560
A	6m SW	Pond	1938	1:10560
A	6m SW	Pond	1933	1:10560
1	14m SE	Cemetery	1991	1:10000
C	14m SE	Cemetery	1956	1:10560
C	14m SE	Cemetery	1985	1:10000
C	14m SE	Cemetery	1978	1:10000
C	14m SE	Cemetery	1968	1:10560
C	19m SE	Cemetery	1938	1:10560
C	19m SE	Cemetery	1933	1:10560
C	19m SE	Cemetery	1921	1:10560
C	19m SE	Cemetery	1906	1:10560
C	19m SE	Cemetery	1891	1:10560
C	19m SE	Cemetery	1923	1:10560
B	24m S	Ponds	1851	1:10560
B	29m E	Brick Works	1956	1:10560
D	30m E	Brick Works	1938	1:10560
D	30m E	Brick Works	1933	1:10560
B	47m E	Brick Works	1923	1:10560
B	56m NE	Unspecified Ground Workings	1906	1:10560
B	61m NE	Pond	1933	1:10560
B	61m NE	Pond	1921	1:10560
B	62m NE	Pond	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	62m NE	Pond	1906	1:10560
B	62m NE	Pond	1923	1:10560
B	68m SE	Unspecified Pits	1906	1:10560
E	84m SW	Unspecified Pit	1923	1:10560
B	94m E	Unspecified Ground Workings	1921	1:10560
B	101m NE	Unspecified Ground Workings	1956	1:10560
2	102m NE	Pond	1851	1:10560
E	106m SW	Unspecified Pit	1938	1:10560
E	106m SW	Unspecified Pit	1933	1:10560
E	106m SW	Unspecified Pit	1921	1:10560
E	123m SW	Pond	1891	1:10560
E	131m SW	Pond	1906	1:10560
B	137m E	Ponds	1923	1:10560
B	140m E	Pond	1938	1:10560
B	140m E	Unspecified Pit	1921	1:10560
E	144m SW	Unspecified Pit	1956	1:10560
B	147m E	Pond	1956	1:10560
B	152m E	Unspecified Ground Workings	1923	1:10560
F	157m N	Unspecified Pit	1978	1:10000
F	157m N	Unspecified Pit	1968	1:10560
B	158m E	Pond	1921	1:10560
G	160m W	Brick Works	1891	1:10560
B	162m E	Unspecified Heap	1923	1:10560
B	164m E	Pond	1938	1:10560
B	164m E	Pond	1933	1:10560
B	165m E	Unspecified Pit	1906	1:10560
B	176m E	Unspecified Pit	1891	1:10560
H	190m N	Unspecified Pit	1956	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	190m N	Unspecified Pit	1978	1:10000
H	197m N	Unspecified Pit	1968	1:10560
3	206m E	Unspecified Ground Workings	1956	1:10560
G	214m W	Unspecified Heaps	1891	1:10560
B	221m E	Unspecified Heap	1923	1:10560
B	221m E	Unspecified Ground Workings	1906	1:10560
B	221m E	Unspecified Heap	1921	1:10560
B	224m E	Pond	1891	1:10560
B	228m E	Pond	1906	1:10560
I	231m NE	Pond	1923	1:10560
I	234m NE	Pond	1921	1:10560
I	234m NE	Pond	1906	1:10560
I	234m NE	Reservoir	1956	1:10560
I	234m NE	Reservoir	1978	1:10000
I	234m NE	Reservoir	1968	1:10560
I	235m NE	Reservoir	1938	1:10560
I	235m NE	Reservoir	1933	1:10560
I	240m NE	Reservoir	1985	1:10000
I	240m NE	Reservoir	1991	1:10000
J	242m N	Pond	1923	1:10560
J	247m N	Pond	1921	1:10560
J	247m N	Pond	1906	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

5

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 138**



ID	Location	Land Use	Year of mapping	Mapping scale
-	910m S	Colliery	1921	1:10560
-	910m S	Colliery	1906	1:10560
-	910m S	Colliery	1923	1:10560
-	989m S	Unspecified Shafts	1978	1:10000
-	996m S	Unspecified Disused Shafts	1985	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 138**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
D	29m E	Cemetery Road	Brickearth, clay, bricks	Surface mineral working	Valid	10/6/47

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

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 138**

ID	Location	Mine Address	Mineral	Data source	Publisher
-	979m S	Manchester, Greater Manchester	Fireclay	'Underground Manchester - Secrets of the city revealed'	Willow Publishing

This data is sourced from Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Further details and a quote for services can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

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
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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
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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 Mining Searches UK.

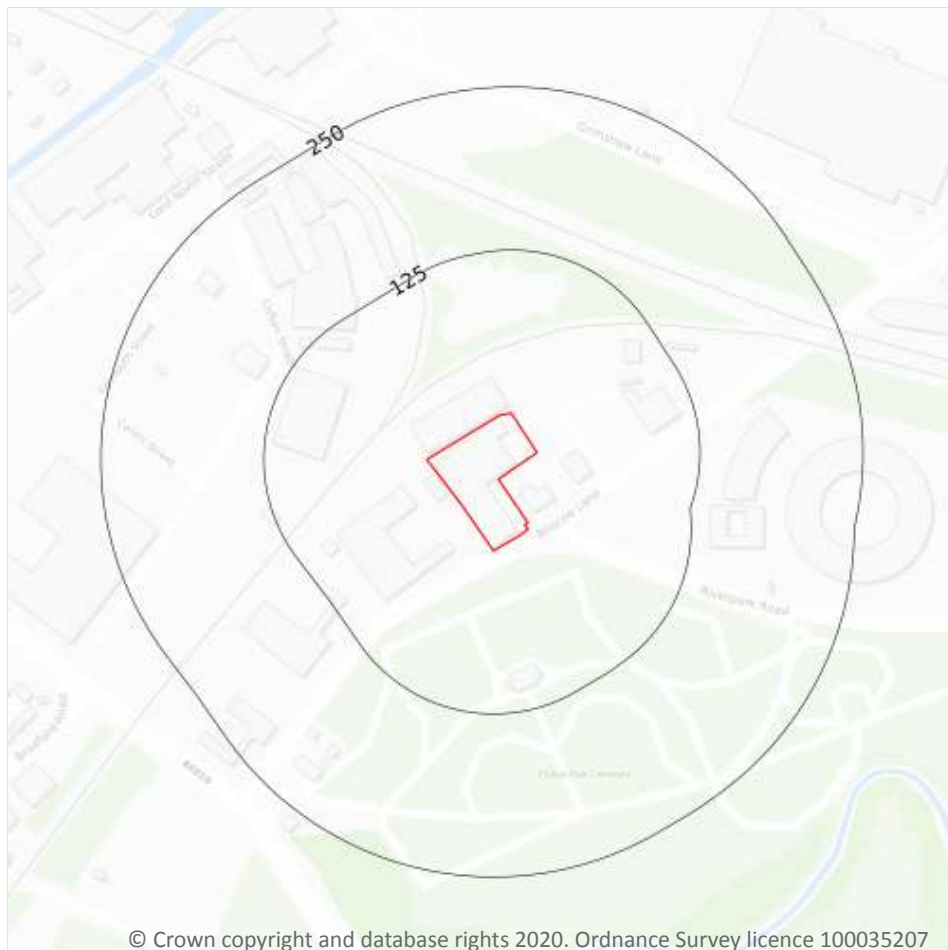
18.13 Clay mining

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



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

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 146**

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

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

6

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
16m W	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
38m NE	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
41m E	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

8

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).



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	31	5.4	71	49	-	92	21	33	6
On site	36	6.3	74	51	-	114	25	38	5
On site	33	5.8	77	53	-	100	30	35	5
On site	26	4.6	70	48	-	82	28	29	6
38m NE	39	6.8	55	38	-	126	18	41	5
40m S	28	4.9	71	49	-	81	19	30	6
41m E	35	6.1	59	41	-	98	23	35	6
50m SW	22	3.8	64	44	-	73	26	26	6

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

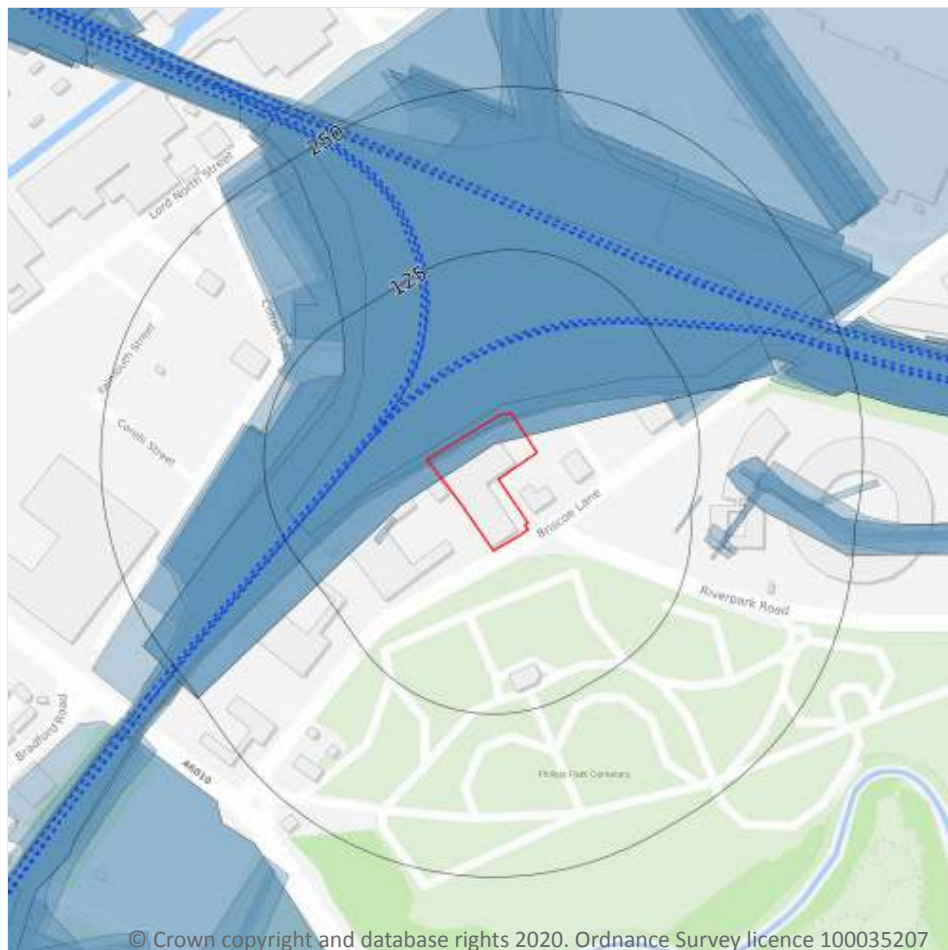
0

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
- Crossrail 1 Worksites
- 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

50

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 149**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1952	1250
On site	Railway Sidings	1949	1250
On site	Railway Sidings	1949	2500
On site	Railway Sidings	1970	2500
On site	Railways	1922	-
On site	Railway Sidings	1922	2500
On site	Railway Sidings	1932	2500
On site	Railway Sidings	1938	10560
On site	Railway Sidings	1933	10560
On site	Railway Sidings	1921	10560
On site	Railway Sidings	1906	10560
On site	Railway Sidings	1891	10560
On site	Railway Sidings	1956	10560
On site	Railway Sidings	1985	10000
On site	Railway Sidings	1991	10000
On site	Railway Sidings	1923	10560
On site	Railway Sidings	1968	10560



Location	Land Use	Year of mapping	Mapping scale
1m NW	Railways	1893	-
5m NW	Railway Sidings	1978	10000
11m N	Railway Sidings	1908	2500
12m NW	Railway Sidings	1893	2500
16m W	Railways	1908	-
16m W	Railways	1934	-
20m W	Railway Sidings	1908	2500
20m W	Railways	1922	-
21m W	Railway Sidings	1922	2500
21m W	Railway Sidings	1931	2500
23m W	Railway Sidings	1893	2500
26m NW	Railway Sidings	1979	1250
32m W	Railway Sidings	1968	1250
35m W	Railway Sidings	1984	1250
41m NW	Railway Sidings	1908	2500
46m SW	Railway Sidings	1908	2500
61m NE	Railway Sidings	1966	1250
96m N	Railway Sidings	1979	1250
113m E	Tramway Sidings	1948	1250
135m E	Tramway Sidings	1932	2500
135m NE	Railway Sidings	1991	1250
137m E	Railway Sidings	1948	1250
142m E	Tramway Sidings	1948	1250
147m E	Tramway Sidings	1938	10560
147m E	Tramway Sidings	1933	10560
155m E	Tramway Sidings	1922	2500
170m E	Tramway Sidings	1956	10560
170m E	Tramway Sidings	1948	1250



Location	Land Use	Year of mapping	Mapping scale
182m N	Mineral Railway Sidings	1908	2500
182m N	Mineral Railway Sidings	1922	2500
204m N	Railway Sidings	1966	1250
204m N	Railway Sidings	1991	1250
213m N	Railway Sidings	1949	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

18

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 149**

Location	Name	Type
41m NW	-	rail
42m NW	Not given	Multi Track
43m NW	Not given	Multi Track
43m NW	Not given	Multi Track



Location	Name	Type
44m NW	-	rail
44m NW	-	rail
45m NW	-	rail
47m NW	-	rail
48m NW	-	rail
145m NE	Not given	Multi Track
146m NE	Huddersfield Line	rail
149m NE	Huddersfield Line	rail
216m NE	-	rail
221m NE	-	rail
233m E	-	rail
233m NE	-	rail
236m E	-	rail
238m NE	-	rail

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>.

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COAL AUTHORITY MINING REPORT



The Coal
Authority

CON29M

coal mining report

ARKADY INDUSTRIAL ESTATE, BRISCOE LANE, NEWTON HEATH, MANCHESTER
M40 2XG



Known or potential coal mining risks

Past underground coal mining	Page 3
Future underground coal mining	Page 3
Withdrawal of support	Page 5



Further action

No further reports from the Coal Authority are required. Further information on any next steps can be found in our Professional opinion.

For more information on our reports please visit
www.groundstability.com



Professional opinion

According to the official mining information records held by the Coal Authority at the time of this search, evidence of, or the potential for, coal mining related features have been identified. It is unlikely that these features will impact on the stability of the enquiry boundary.

Your reference: **6921**
Our reference: **51002229593001**
Date: **21 February 2020**

Client name:
SUB SURFACE LIMITED

If you require any further assistance please
contact our experts on:
0345 762 6848
groundstability@coal.gov.uk



The Law
Society

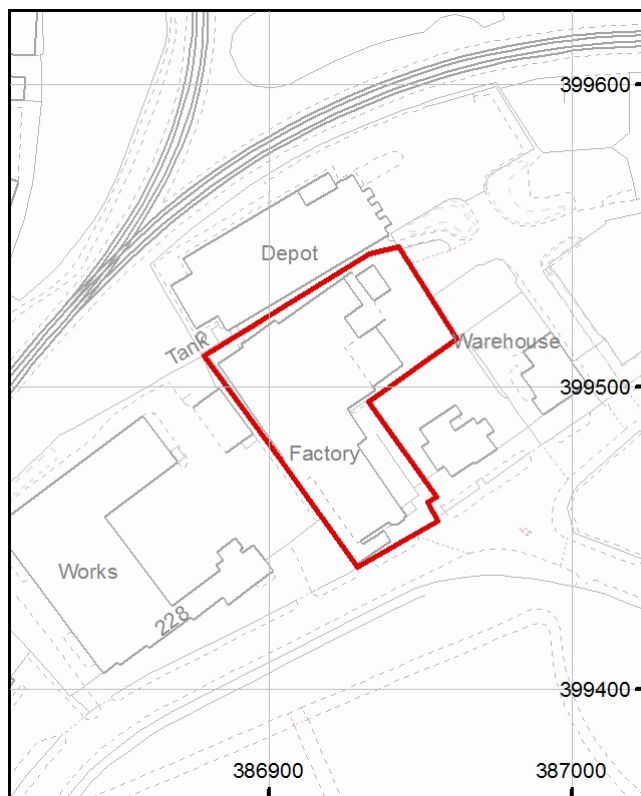
Enquiry boundary

Key

Approximate position of enquiry boundary shown



We can confirm that the location is
on the coalfield



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This report is prepared in accordance with the latest Law Society's Guidance Notes 2018, the User Guide 2018 and the Coal Authority's Terms and Conditions applicable at the time the report was produced.



Accessibility

If you would like this information in an alternative format, please contact our communications team on 0345 762 6848 or email communications@coal.gov.uk.

Detailed findings

Information provided by the Coal Authority in this report is compiled in response to the Law Society's CON29M Coal Mining enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL.

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1 Past underground coal mining

The property is in a surface area that could be affected by underground mining in 3 seams of coal at 280m to 620m depth, and last worked in 1964.

Any movement in the ground due to coal mining activity associated with these workings should have stopped by now.

2 Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3 Future underground coal mining

The property is not in an area where the Coal Authority has received an application for, and is currently considering whether to grant a licence to remove or work coal by underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

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

4 Mine entries

There are no recorded coal mine entries known to the Coal Authority within, or within 20 metres, of the boundary of the property.

5 Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6 Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7 Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8 Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9 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.

10 Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11 Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Coal Authority, under its Emergency Surface Hazard Call Out procedures.

12 Withdrawal of support

The property is in an area where a notice to withdraw support was given in 1955.

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.

13 Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14 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.

Statutory cover



Coal mining subsidence

In the unlikely event of any coal mining related subsidence damage, the Coal Authority or the mine operator has a duty to take remedial action in respect of subsidence caused by the withdrawal of support from land or property in connection with lawful coal mining operations.

When the works are the responsibility of the Coal Authority, our dedicated public safety and subsidence team will manage the claim. The house or land owner ("the owner") is covered for these works under the terms of the Coal Mining Subsidence Act 1991 (as amended by the Coal Industry Act 1994). Please note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

If you believe your land or property is suffering from coal mining subsidence damage and you need more information on what to do next, please use the following link to our website which sets out what your rights are and what you need to consider before making a claim.

www.gov.uk/government/publications/coal-mining-subsidence-damage-notice-form



Coal mining hazards

Our public safety and subsidence team provide a 24 hour a day, 7 days a week hazard reporting service, to help protect the public from hazards caused by past coal workings, such as a mine shaft or shallow working collapse. To report any hazards please call **01623 646 333**. Further information can be found on our website: www.gov.uk/coalauthority.

Glossary



Key terms

adit - horizontal or sloped entrance to a mine

coal mining subsidence - ground movement caused by the removal of coal by underground mining

Coal Mining Subsidence Act 1991 - the Act setting out the duties of the Coal Authority to repair damage caused by coal mining subsidence

coal mining subsidence damage - damage to land, buildings or structures caused by the removal of coal by underground mining

coal seams - bed of coal of varying thickness

future opencast coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal from the surface

future underground coal mining - a licence granted, or licence application received, by the Coal Authority to excavate coal underground. Although it is unlikely, remaining coal reserves could create a possibility for future mining, which would be licensed by the Coal Authority

mine entries - collective name for shafts and adits

payments to owners of former copyhold land - historically, copyhold land gave rights to coal to the copyholder. Legislation was set up to allow others to work this coal, but they had to issue a notice and pay compensation if a copyholder came forward

shaft - vertical entry into a mine

site investigation - investigations of coal mining risks carried out with the Coal Authority's permission

stop notice - a delay to repairs because further coal mining subsidence damage may occur and it would be unwise to carry out permanent repairs

subsidence claim - a formal notice of subsidence damage to the Coal Authority since it was established on 31 October 1994

withdrawal of support - a historic notice informing landowners that the coal beneath their property was going to be worked

working facilities orders - a court order which gave permission, restricted or prevented coal mine workings

SMALL SCALE SURVEY PLANS



Site Details:

Arkady Industrial Estate, Briscoe Lane, Newton Heath, Manchester, M40 2XG

Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1848

Scale: 1:10,560

Printed at: 1:10,560



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Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1890-1891

Scale: 1:10,560

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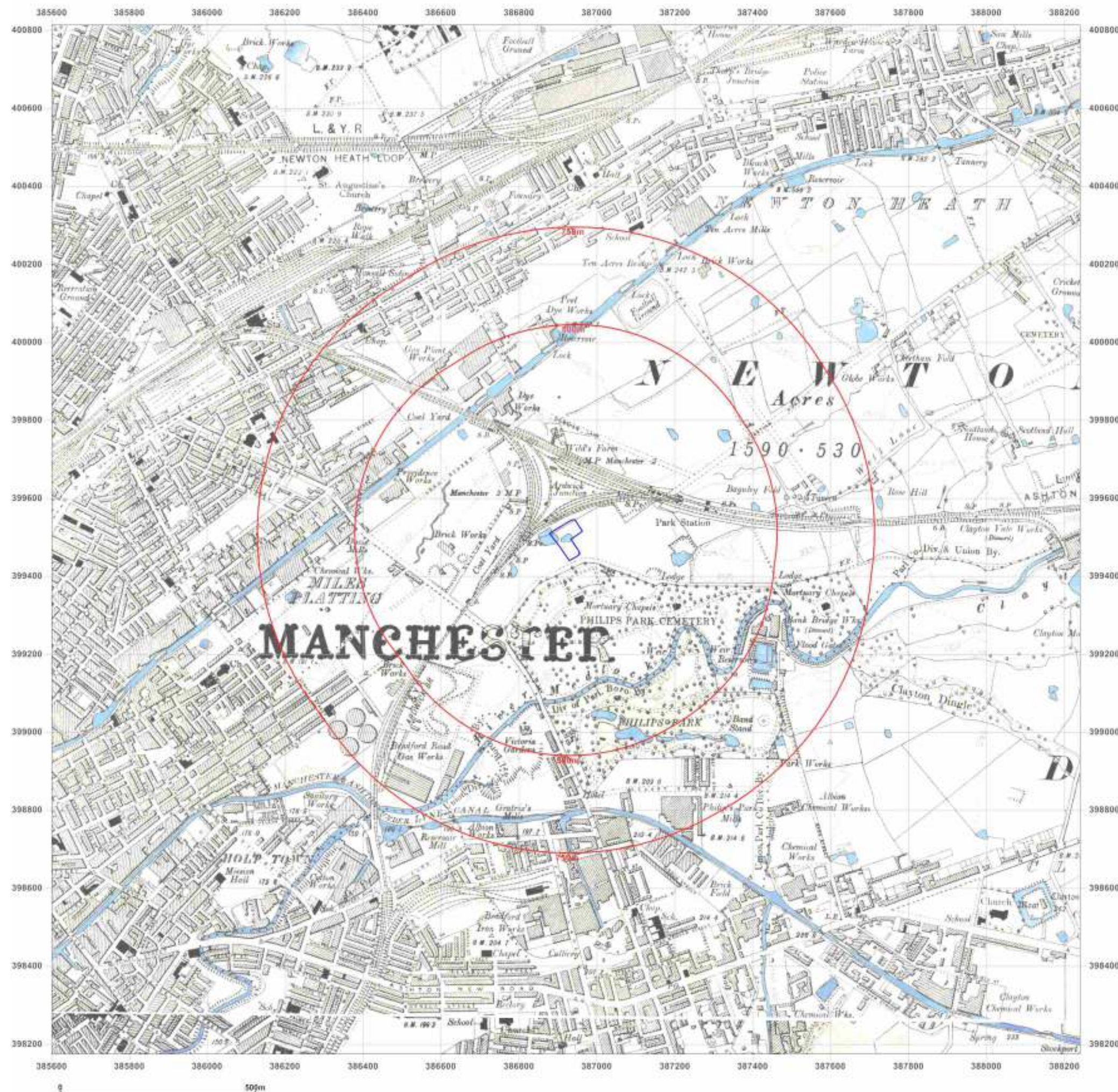


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Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1905-1906

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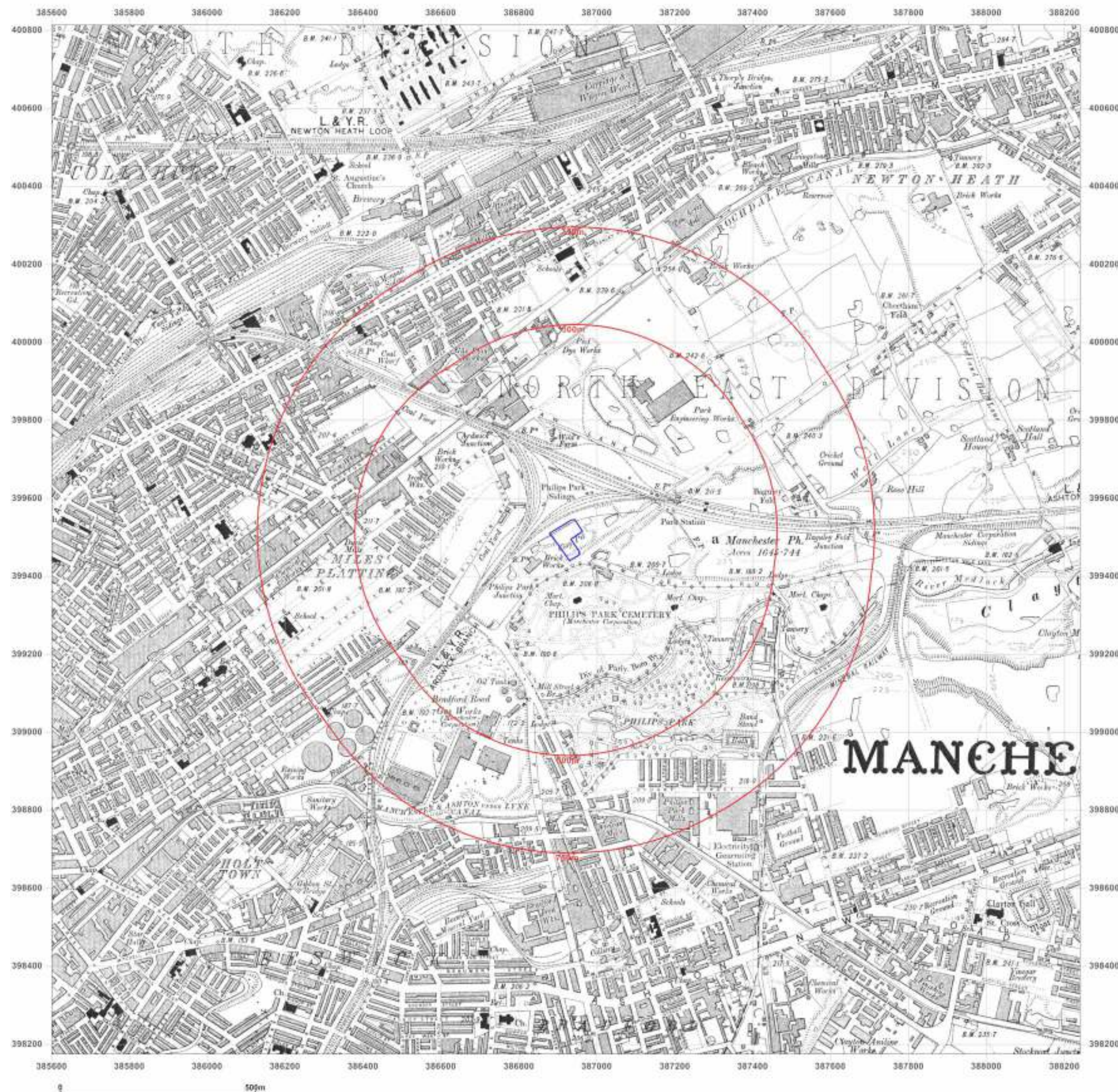


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Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1923

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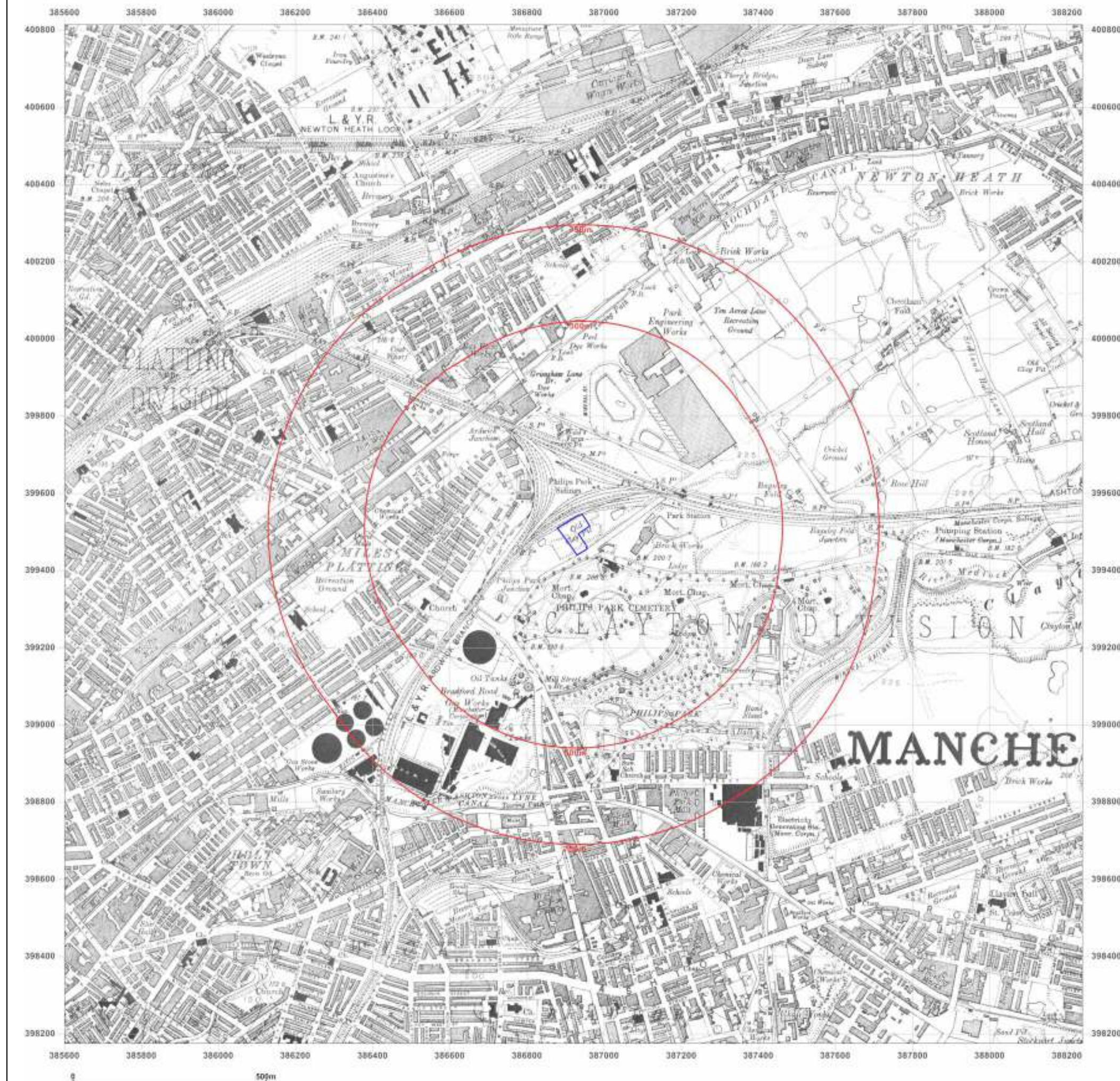


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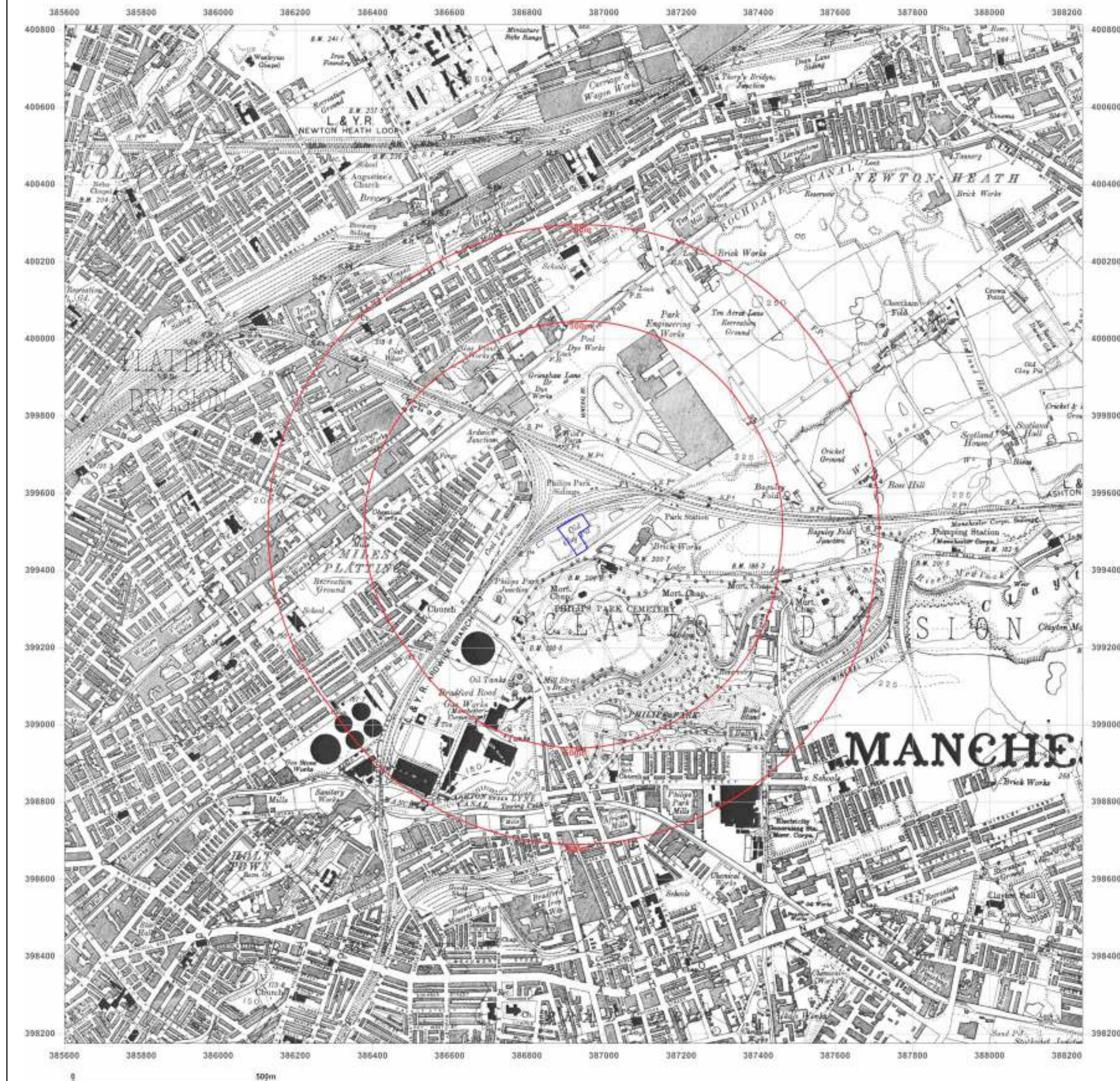


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Map Name: County Series

Map date: 1933-1934

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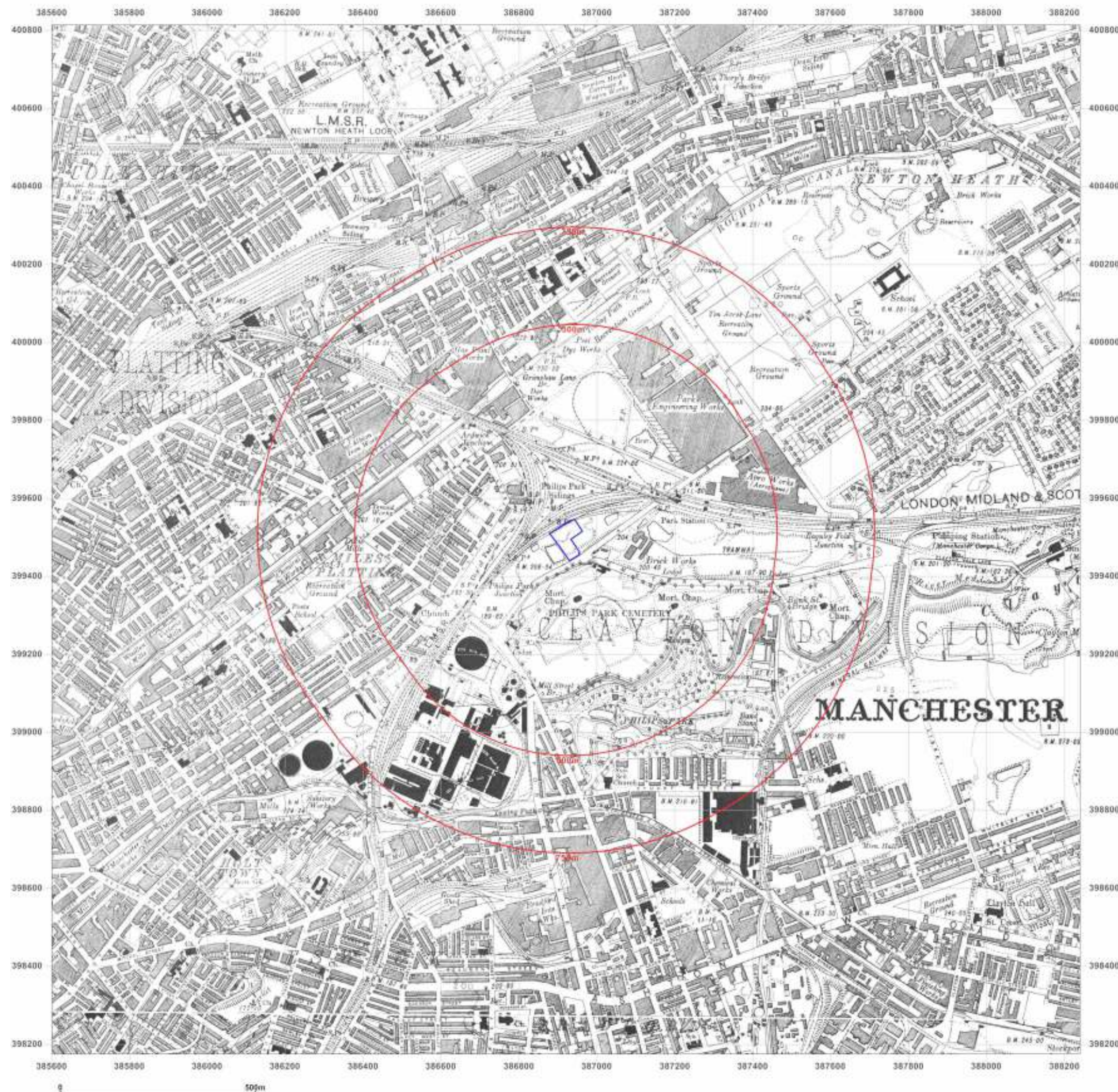


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Client Ref: 4199
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Map Name: County Series

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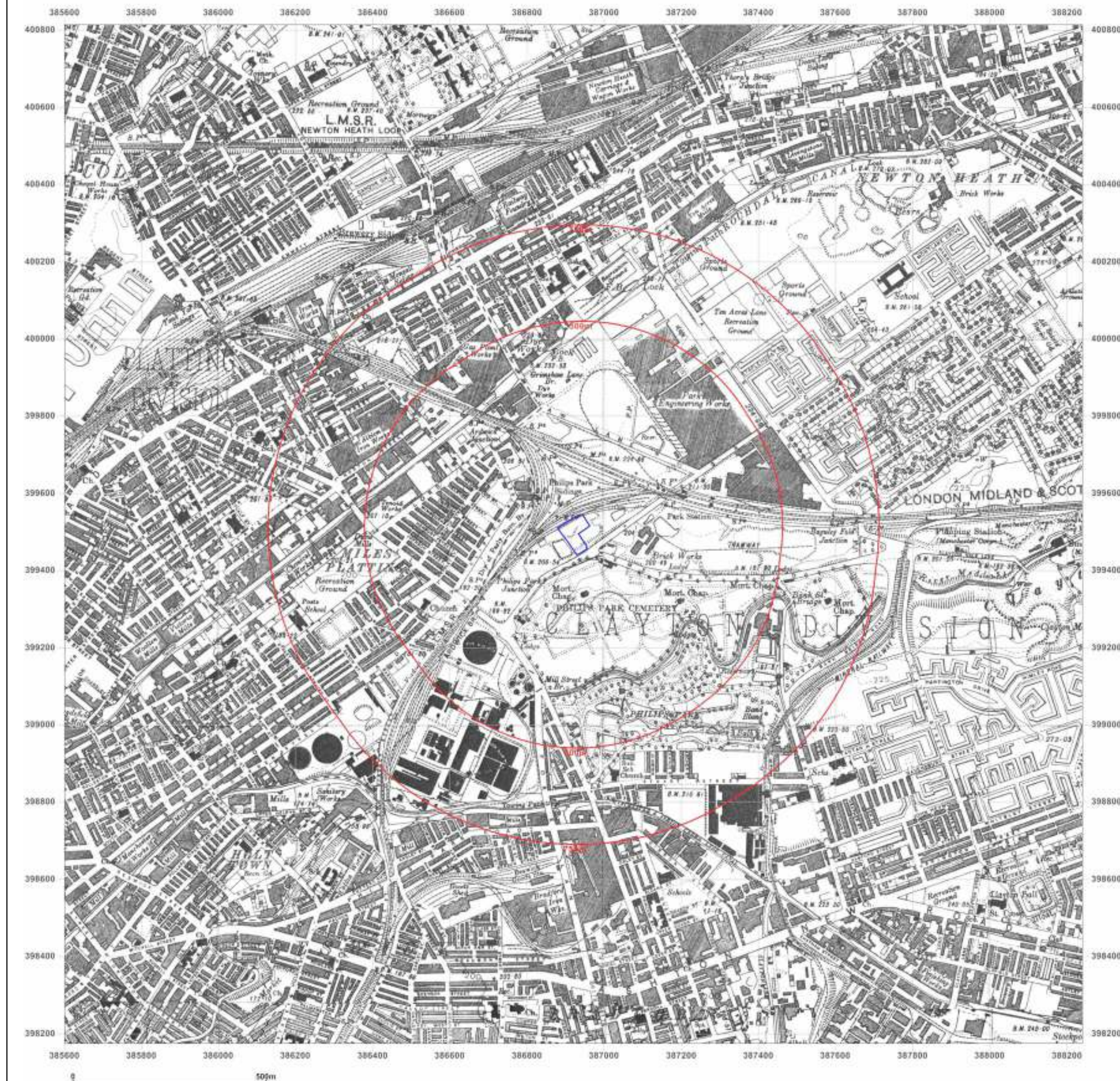


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Grid Ref: 386920, 399493

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

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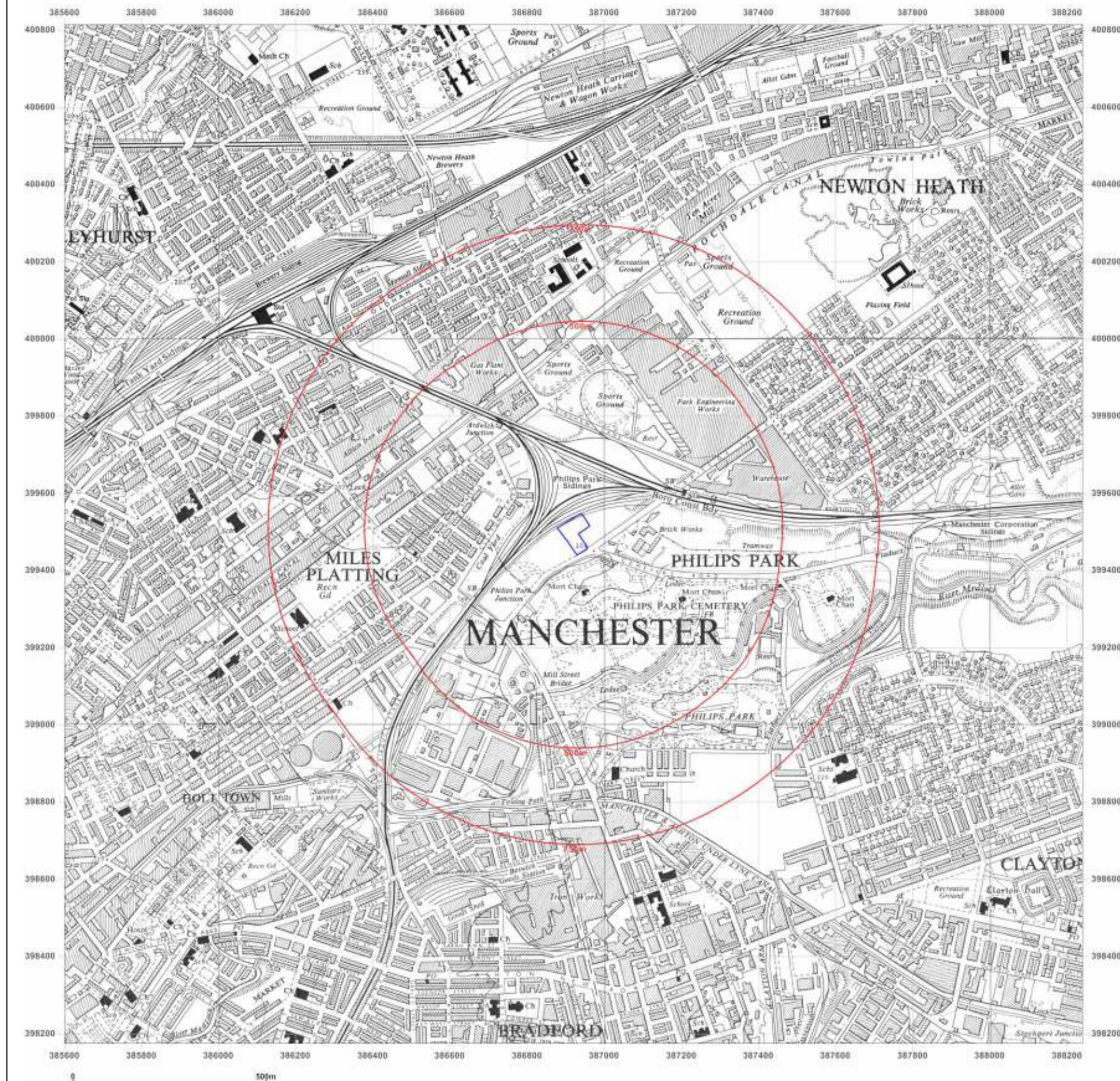


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Grid Ref: 386920, 399493

Map Name: Provisional

Map date: 1966-1968

Scale: 1:10,560

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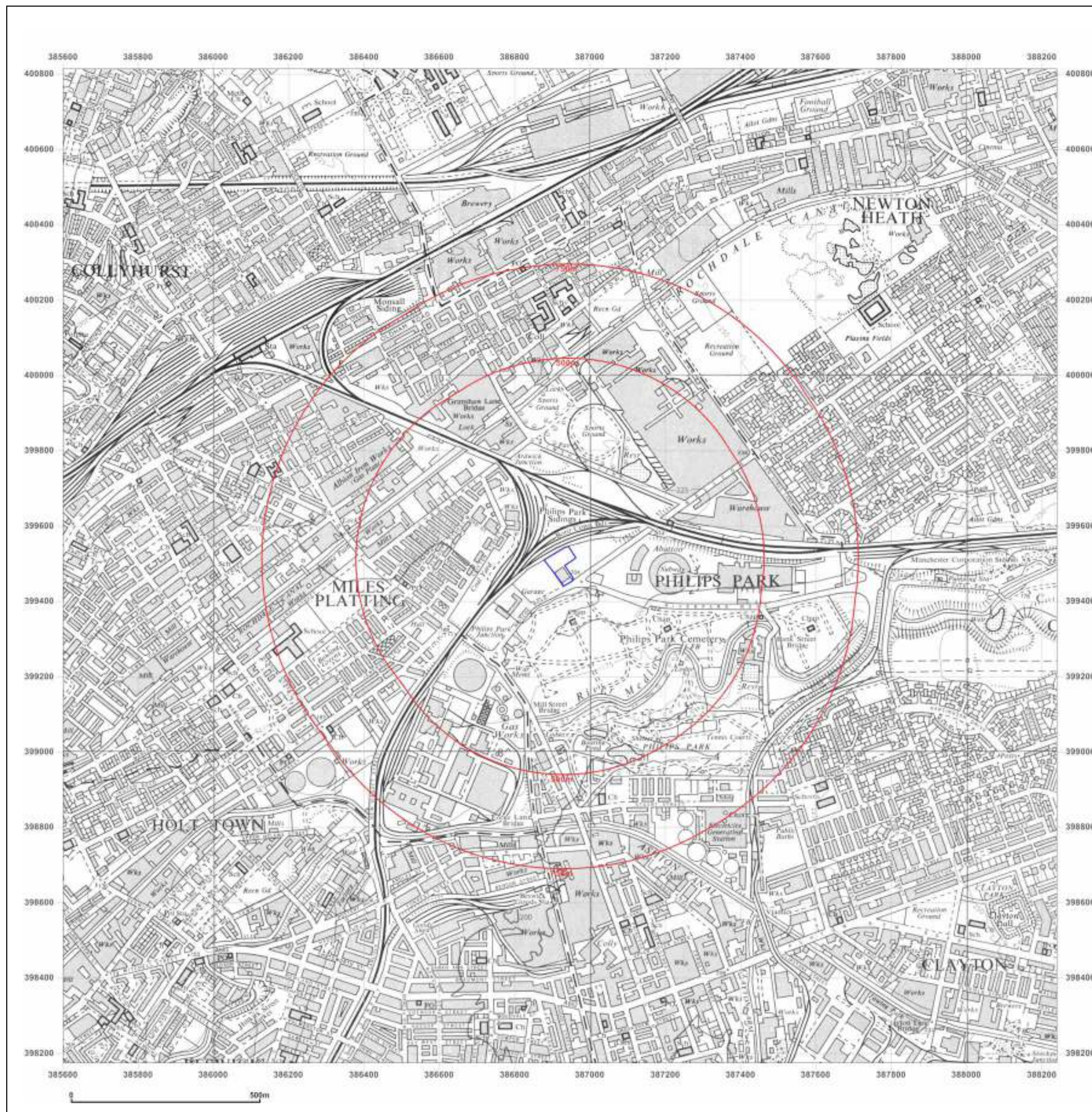


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Grid Ref: 386920, 399493

Map Name: National Grid

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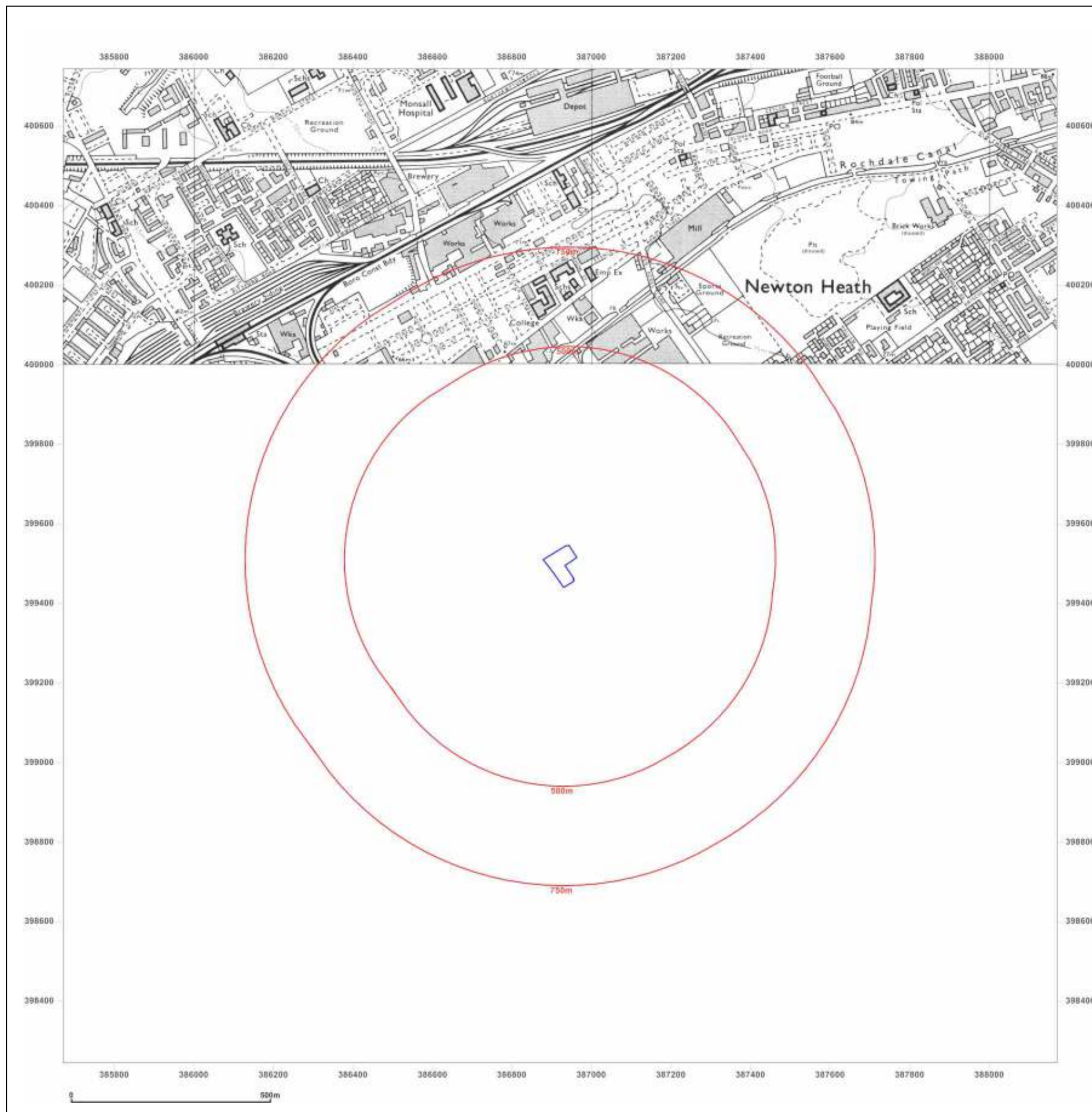


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Map Name: National Grid

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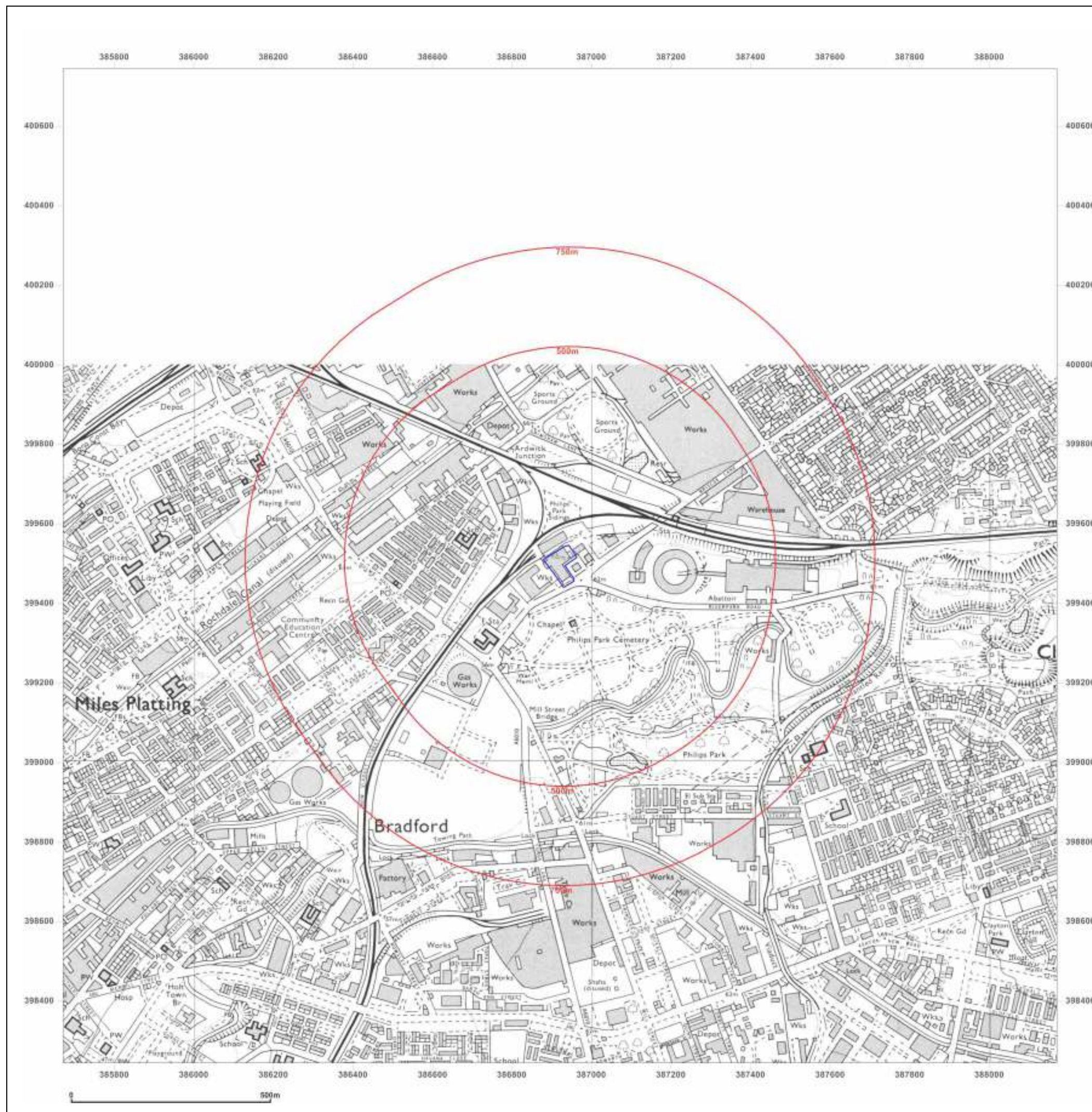


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Site Details:

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Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1988-1991

Scale: 1:10,000

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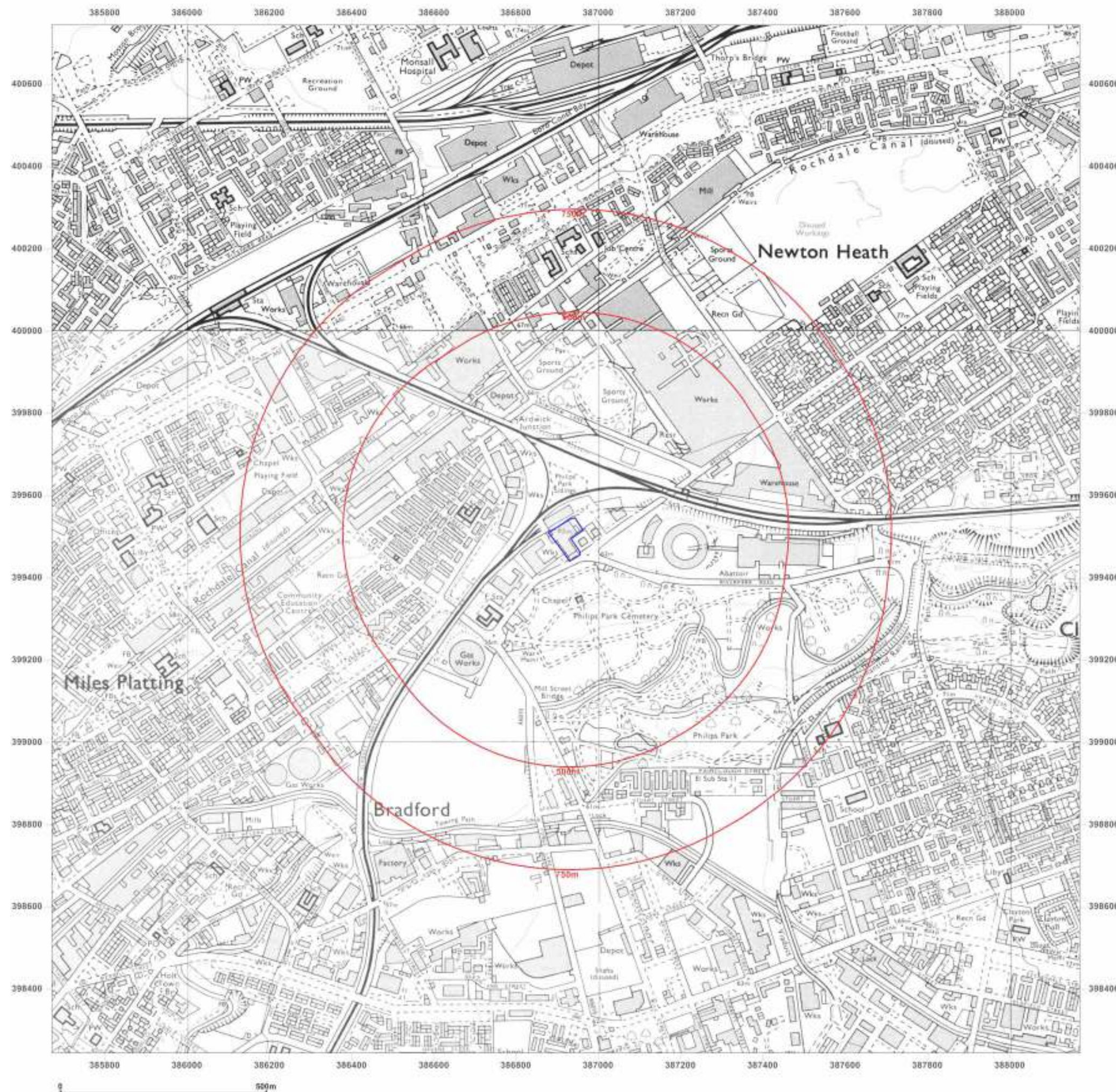


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Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

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Grid Ref: 386920, 399493

Map Name: National Grid

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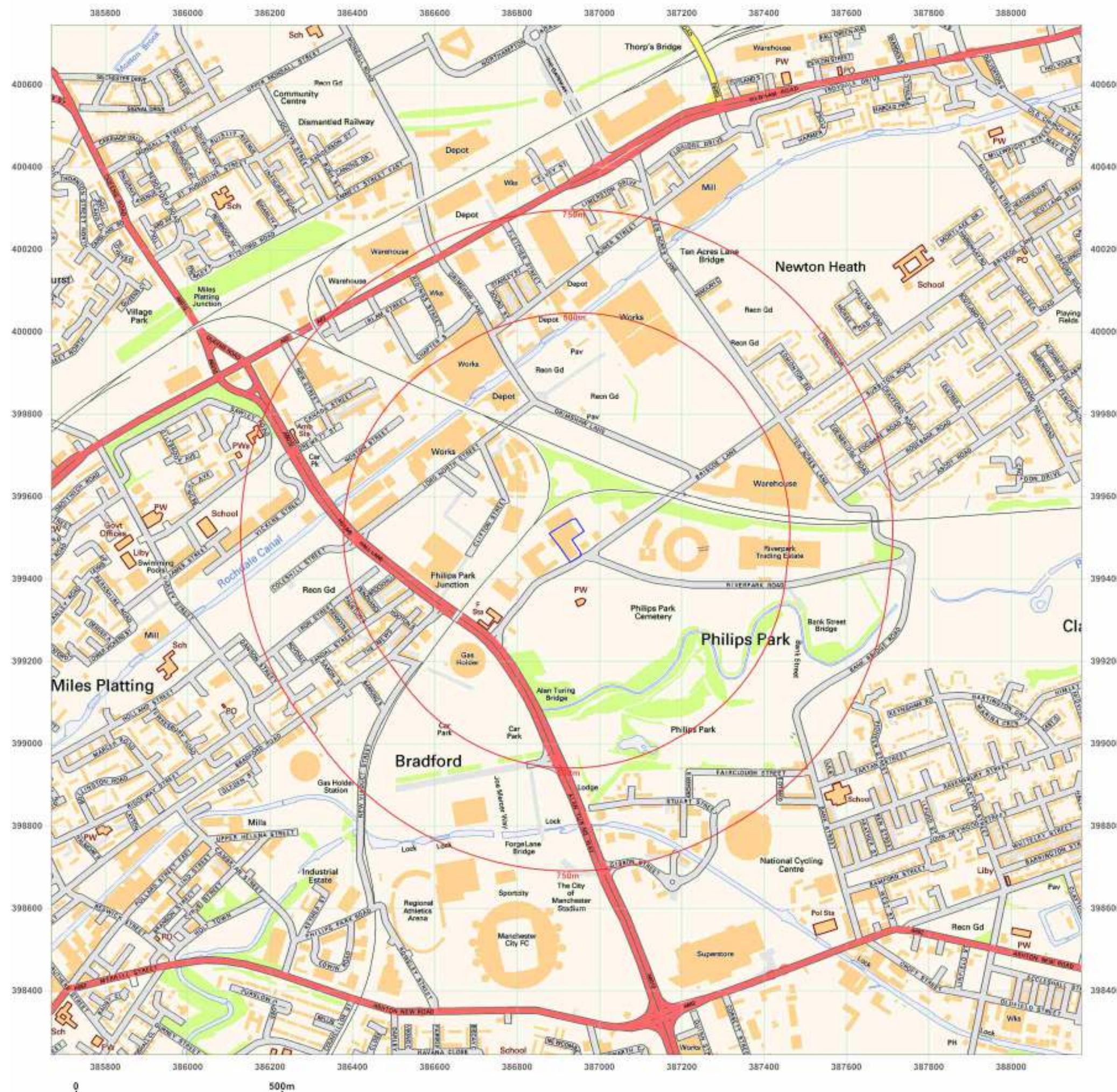


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Site Details:

Arkady Industrial Estate, Briscoe Lane, Newton Heath, Manchester, M40 2XG

Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 2020

Scale: 1:10,000

Printed at: 1:10,000



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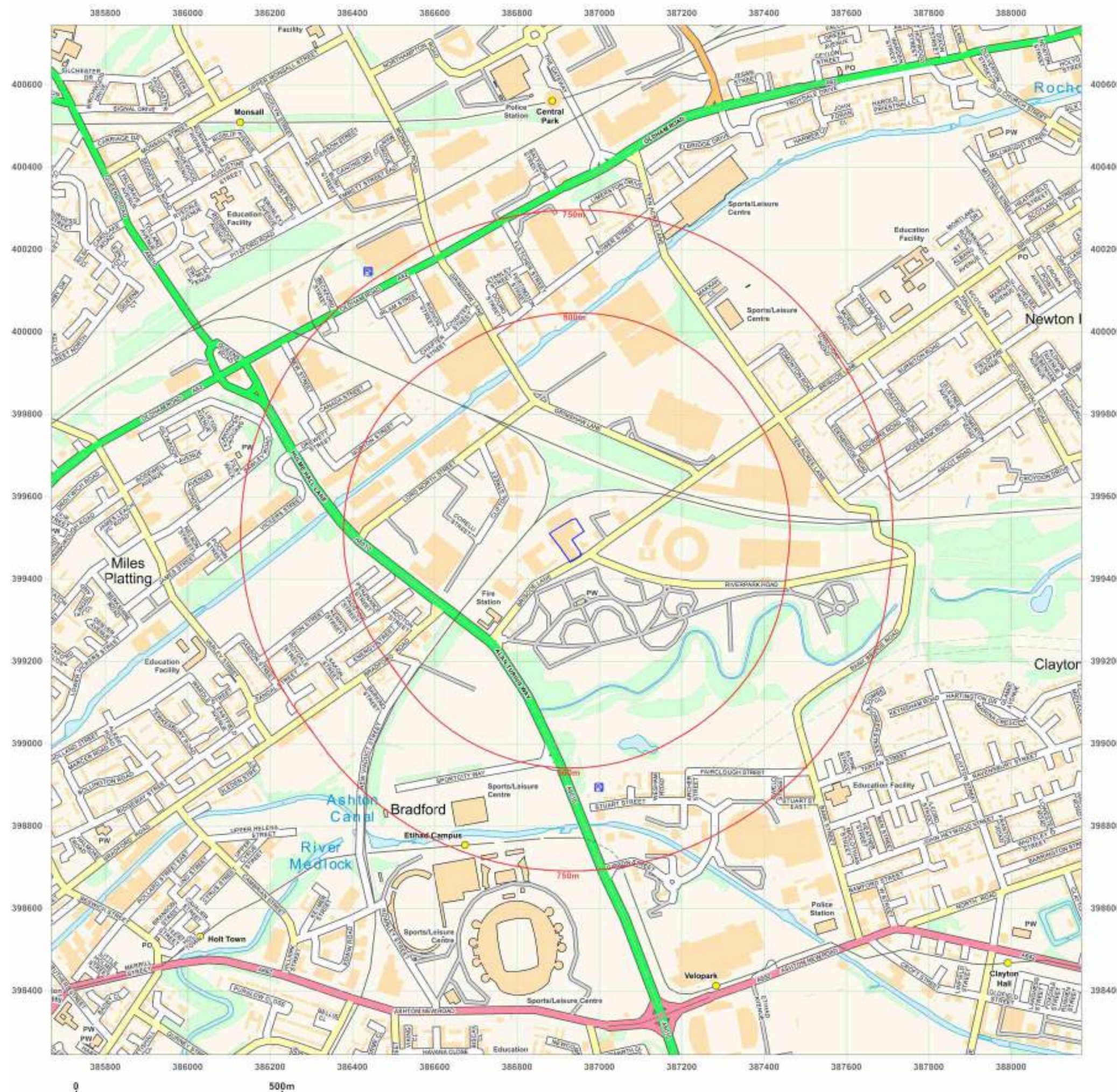


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LARGE SCALE SURVEY PLANS

Site Details:

Arkady Industrial Estate, Briscoe
Lane, Newton Heath,
Manchester, M40 2XG

Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



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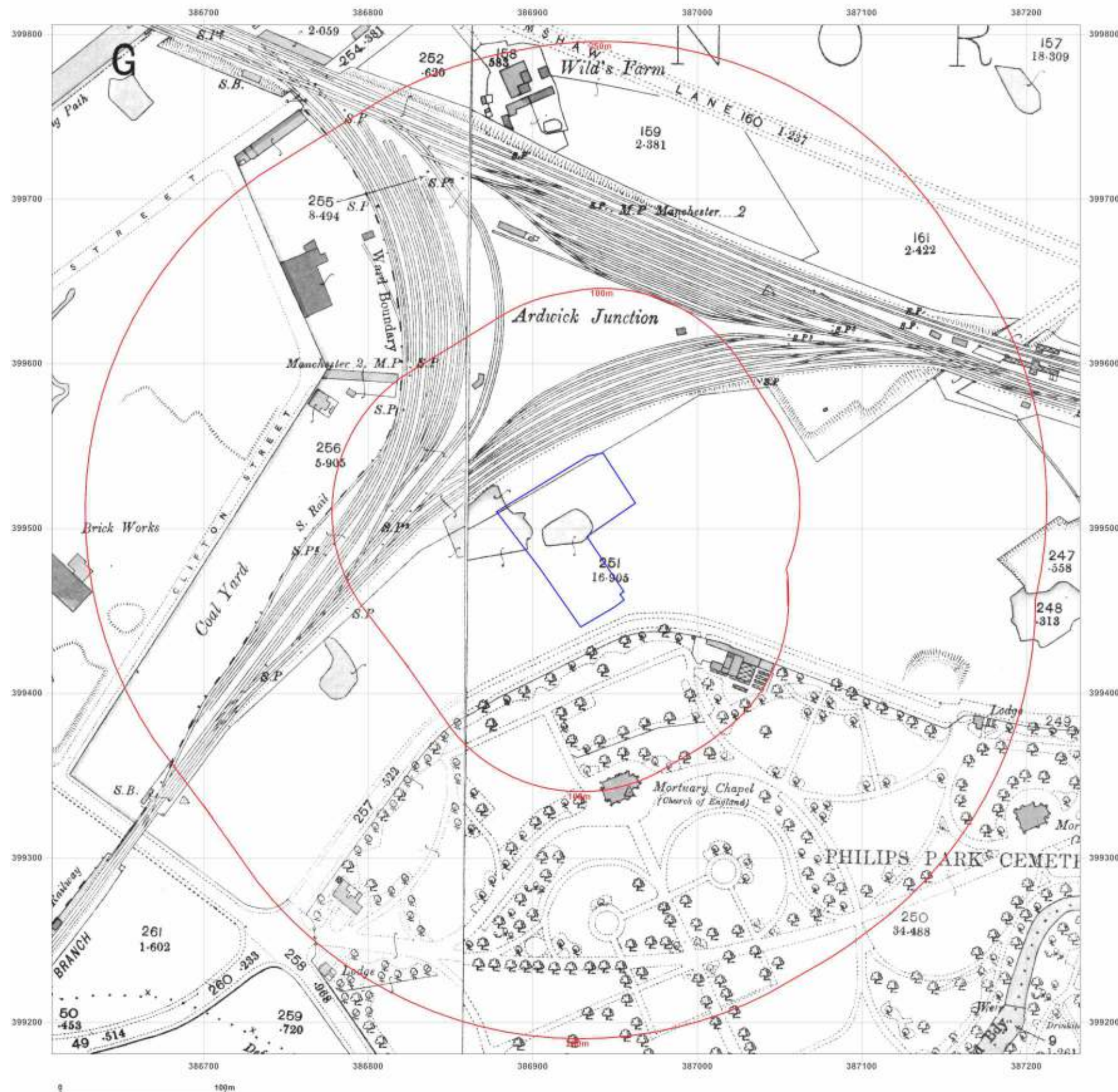


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1908

Scale: 1:2,500

Printed at: 1:2,500



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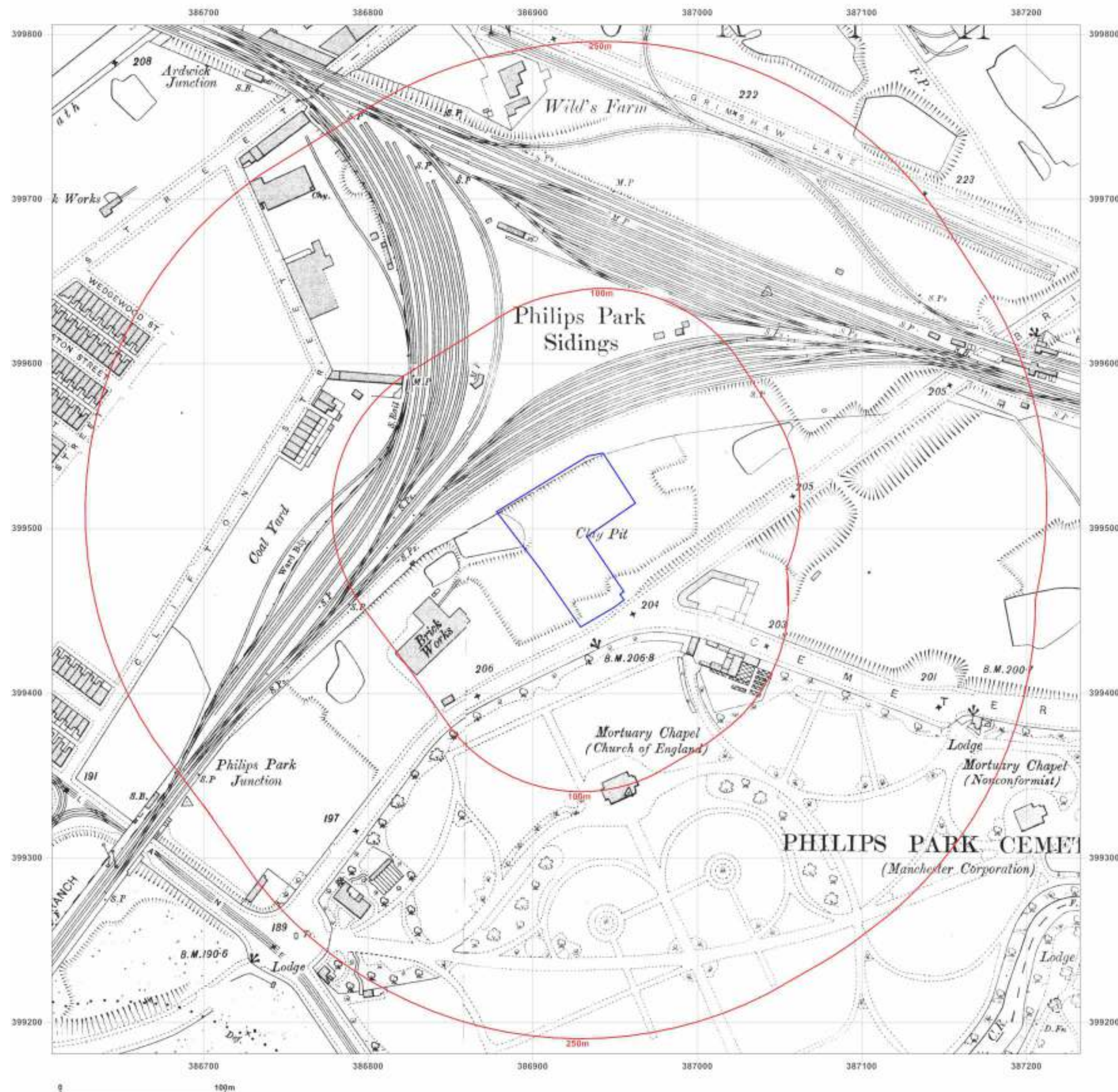


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Site Details:

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Manchester, M40 2XG

Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



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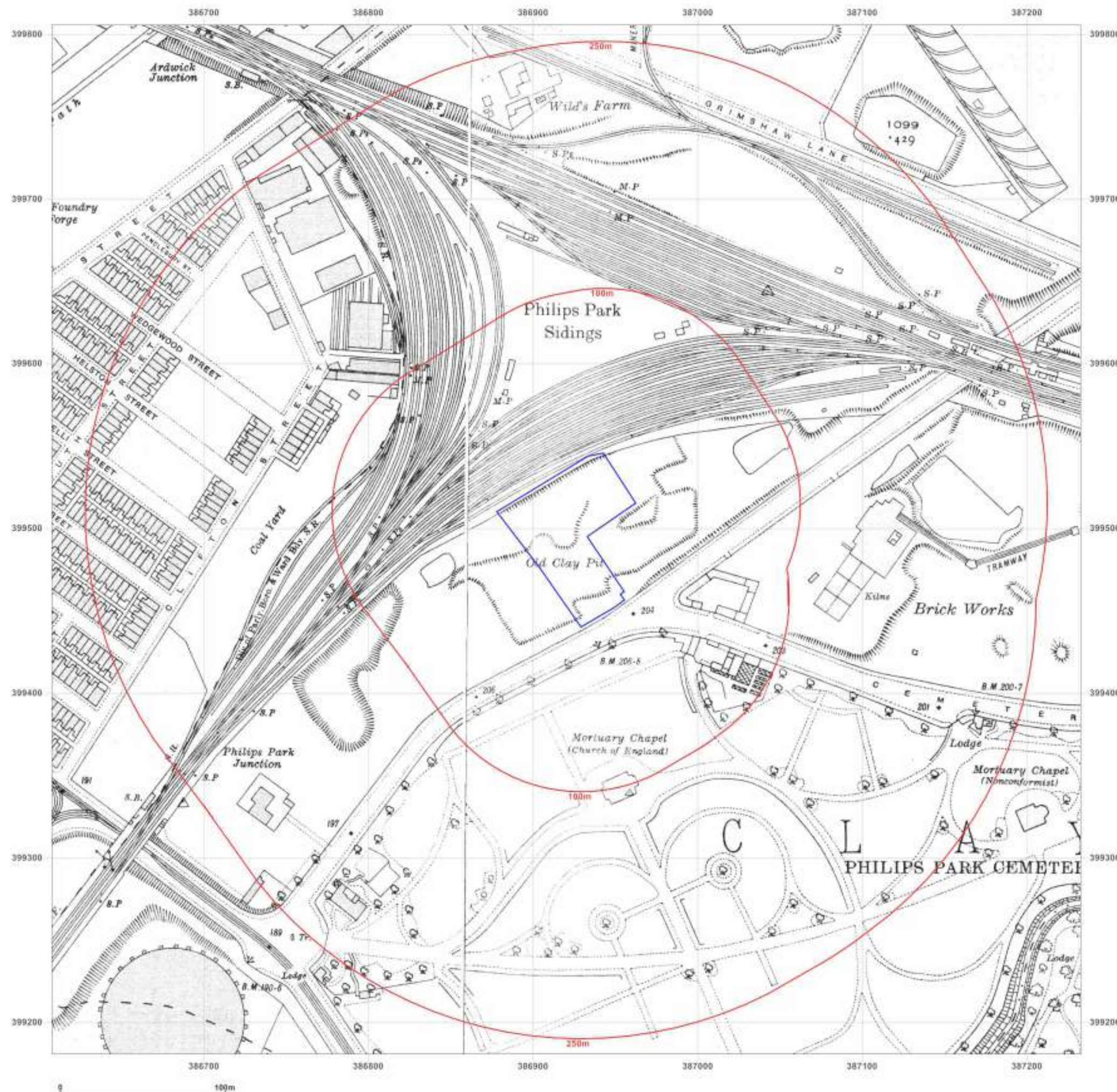


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Site Details:

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Manchester, M40 2XG

Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: County Series

Map date: 1931-1932

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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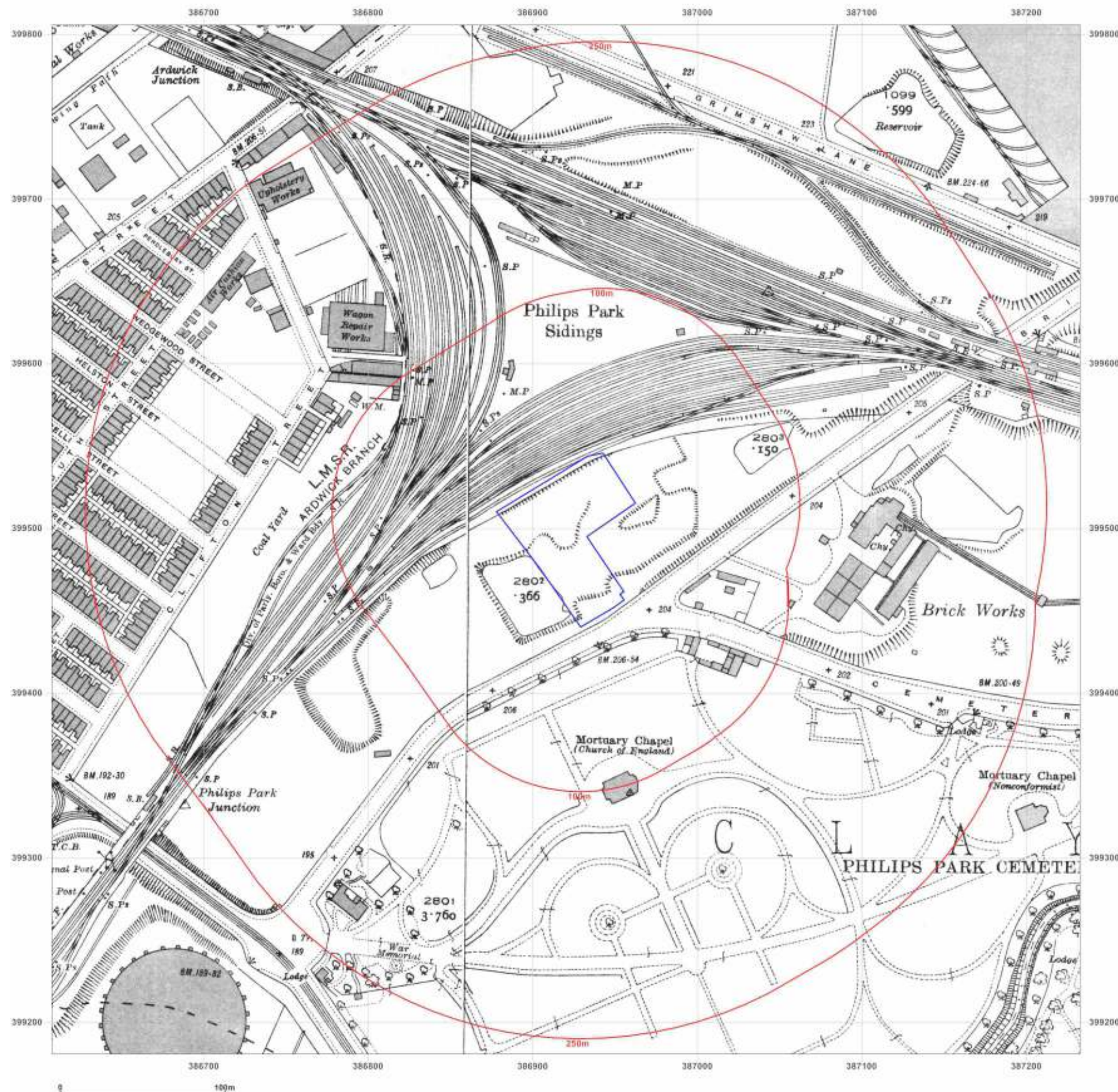


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1948-1949

Scale: 1:1,250

Printed at: 1:2,000



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Surveyed 1948
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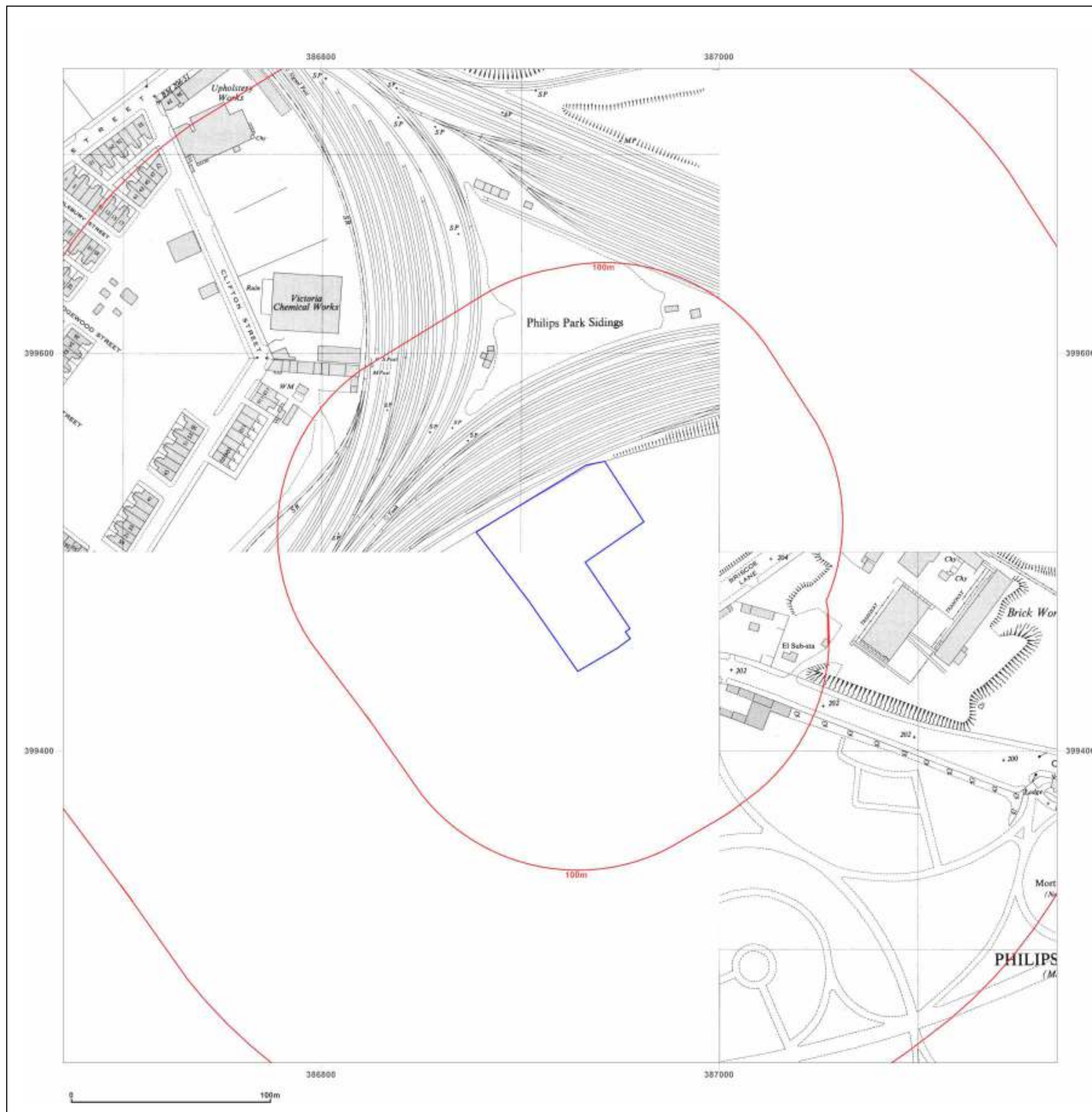


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1949

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1949
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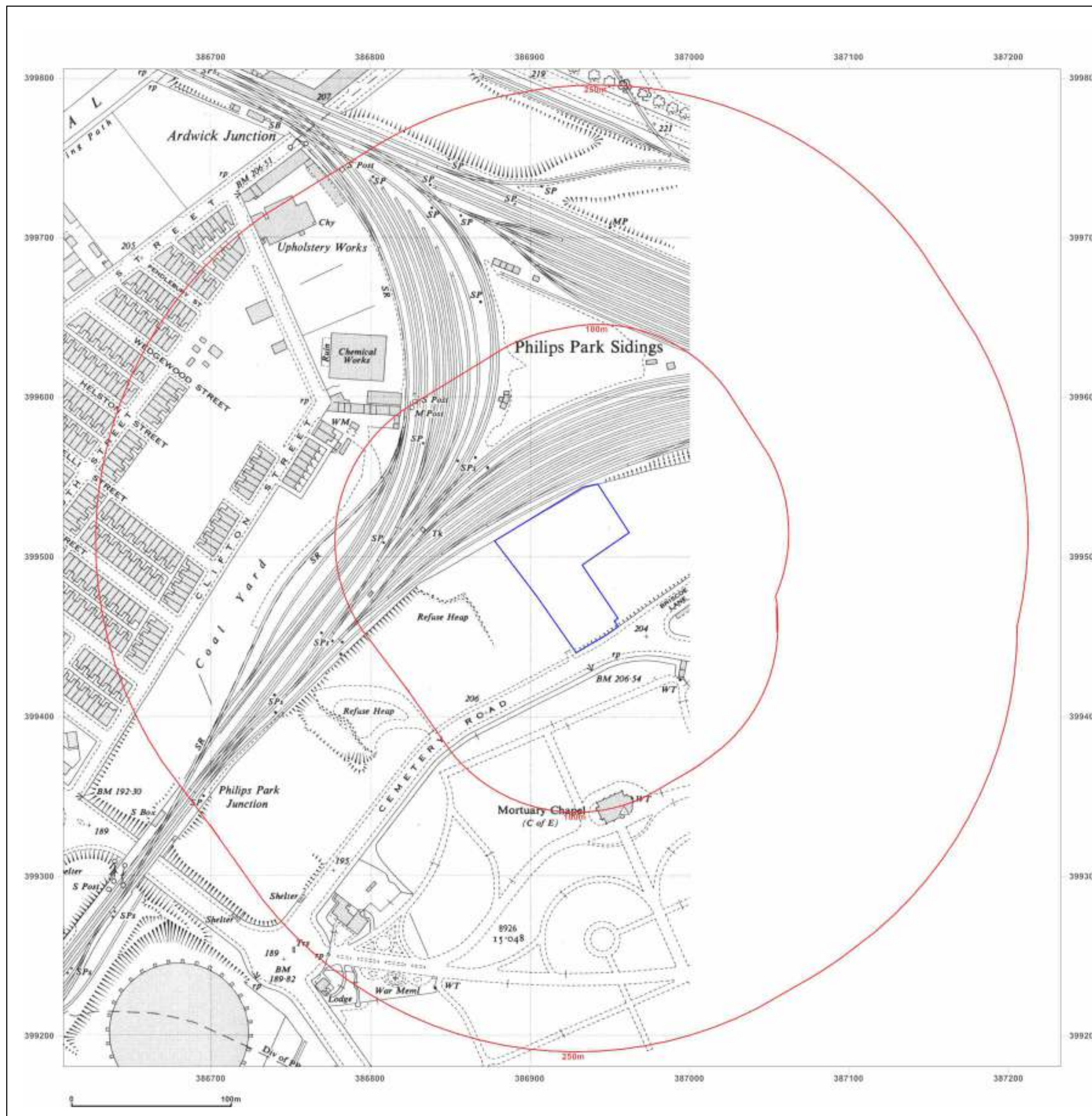


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1951

Scale: 1:2,500

Printed at: 1:2,500



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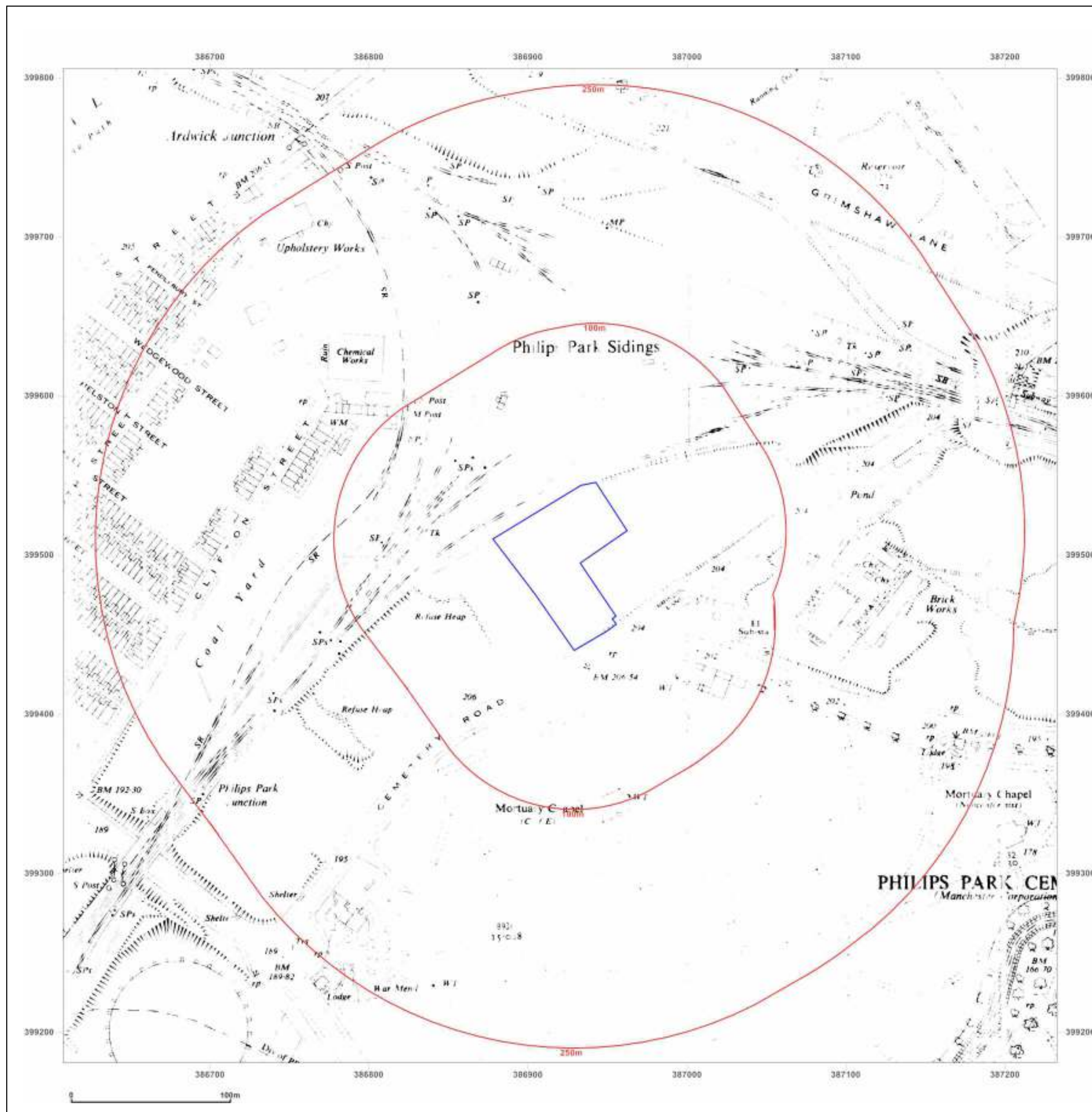


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

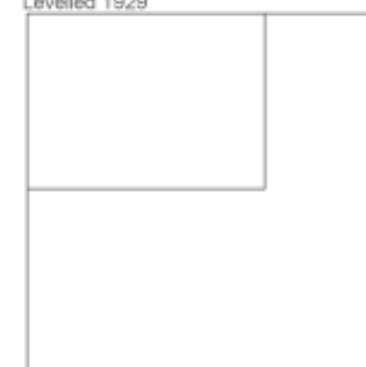
Map date: 1952

Scale: 1:1,250

Printed at: 1:2,000



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Edition N/A
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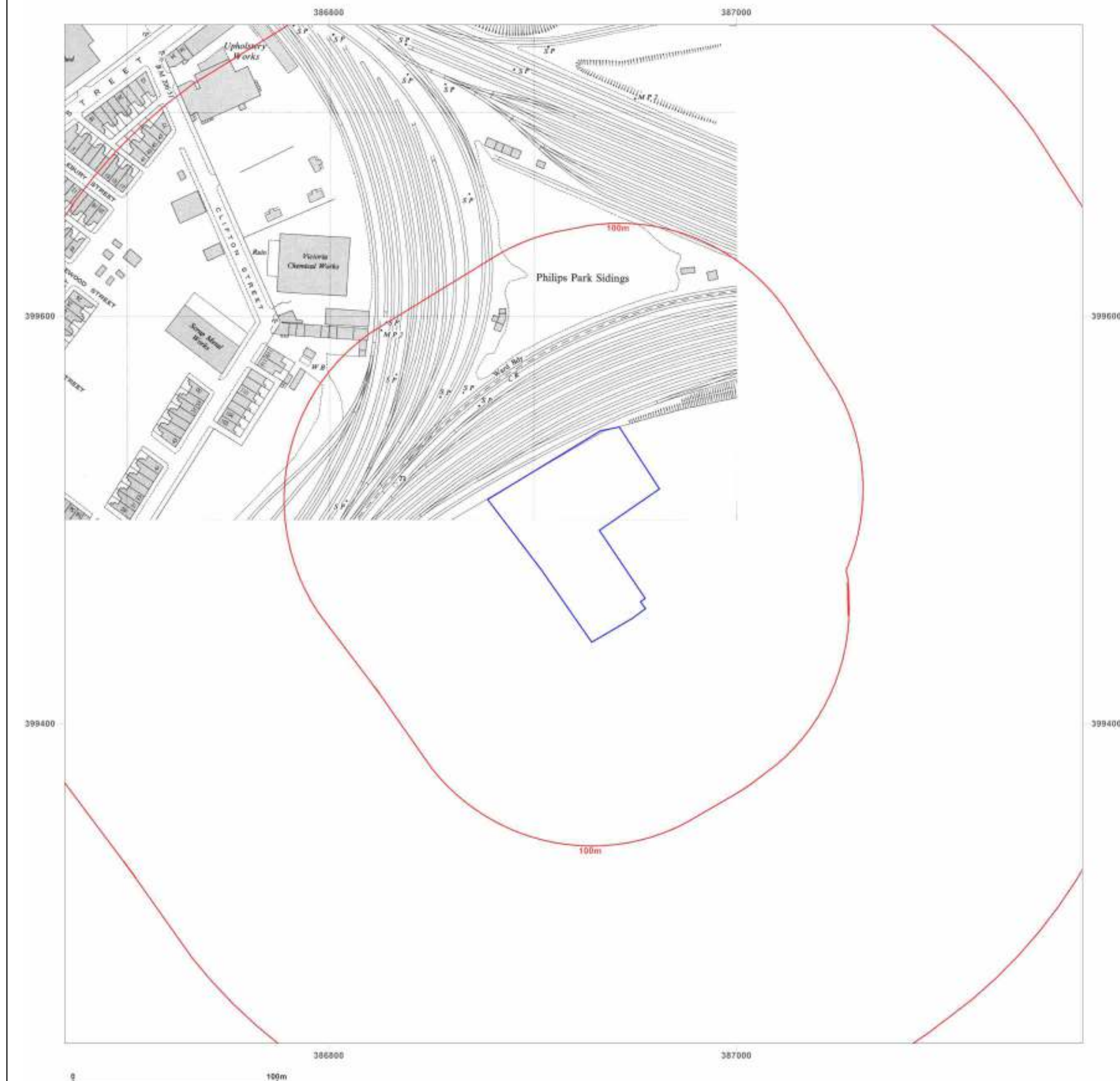


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

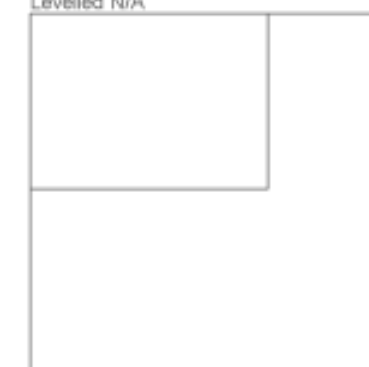
Map date: 1953

Scale: 1:1,250

Printed at: 1:2,000



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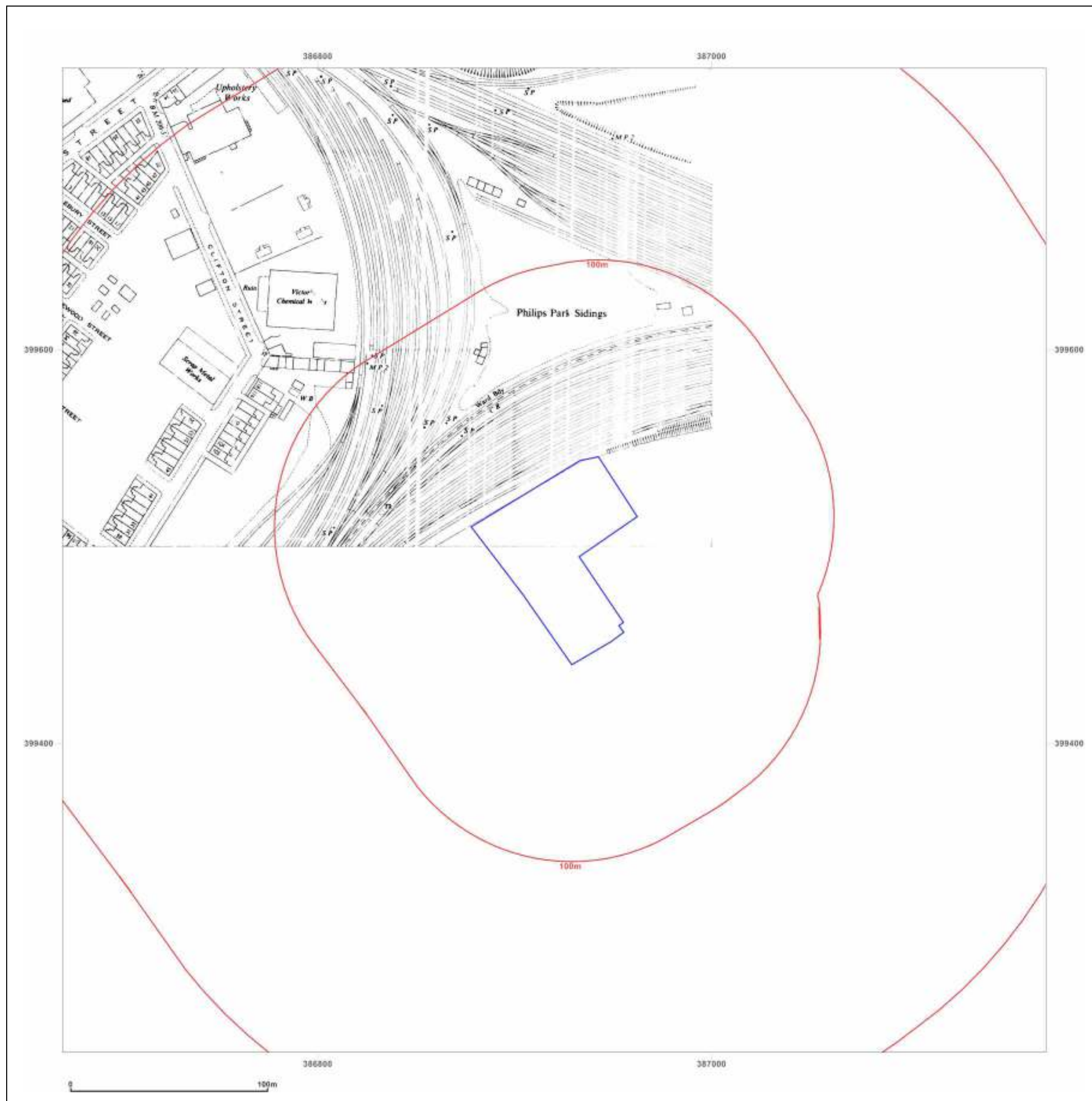


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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

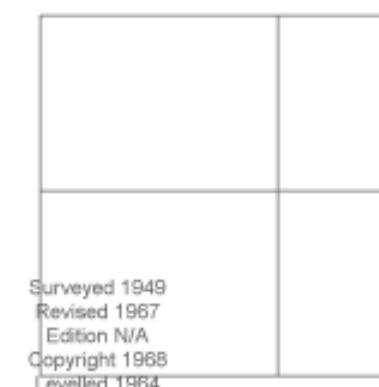
Map date: 1966-1968

Scale: 1:1,250

Printed at: 1:2,000



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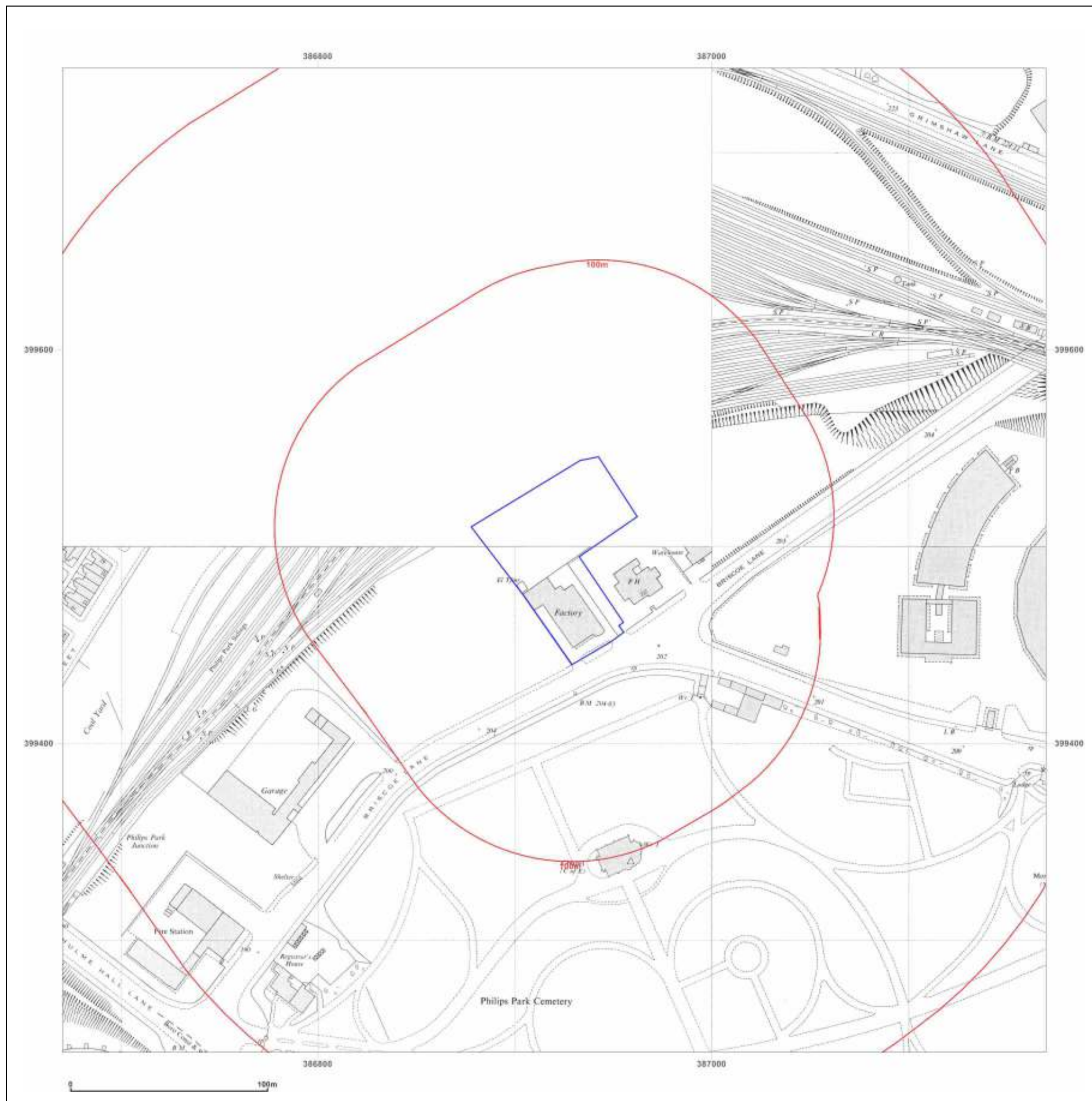


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



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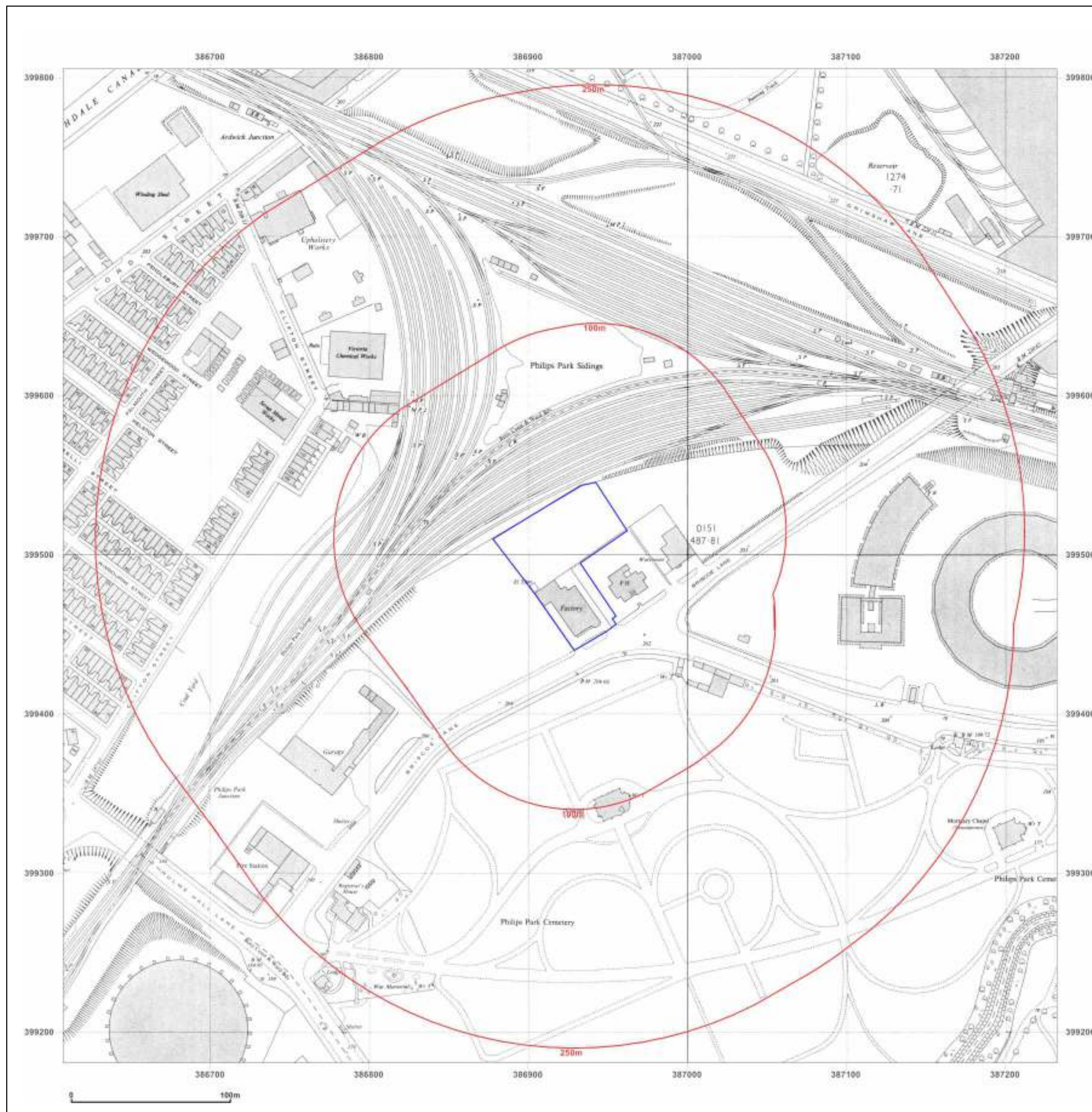


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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1979-1984

Scale: 1:1,250

Printed at: 1:2,000



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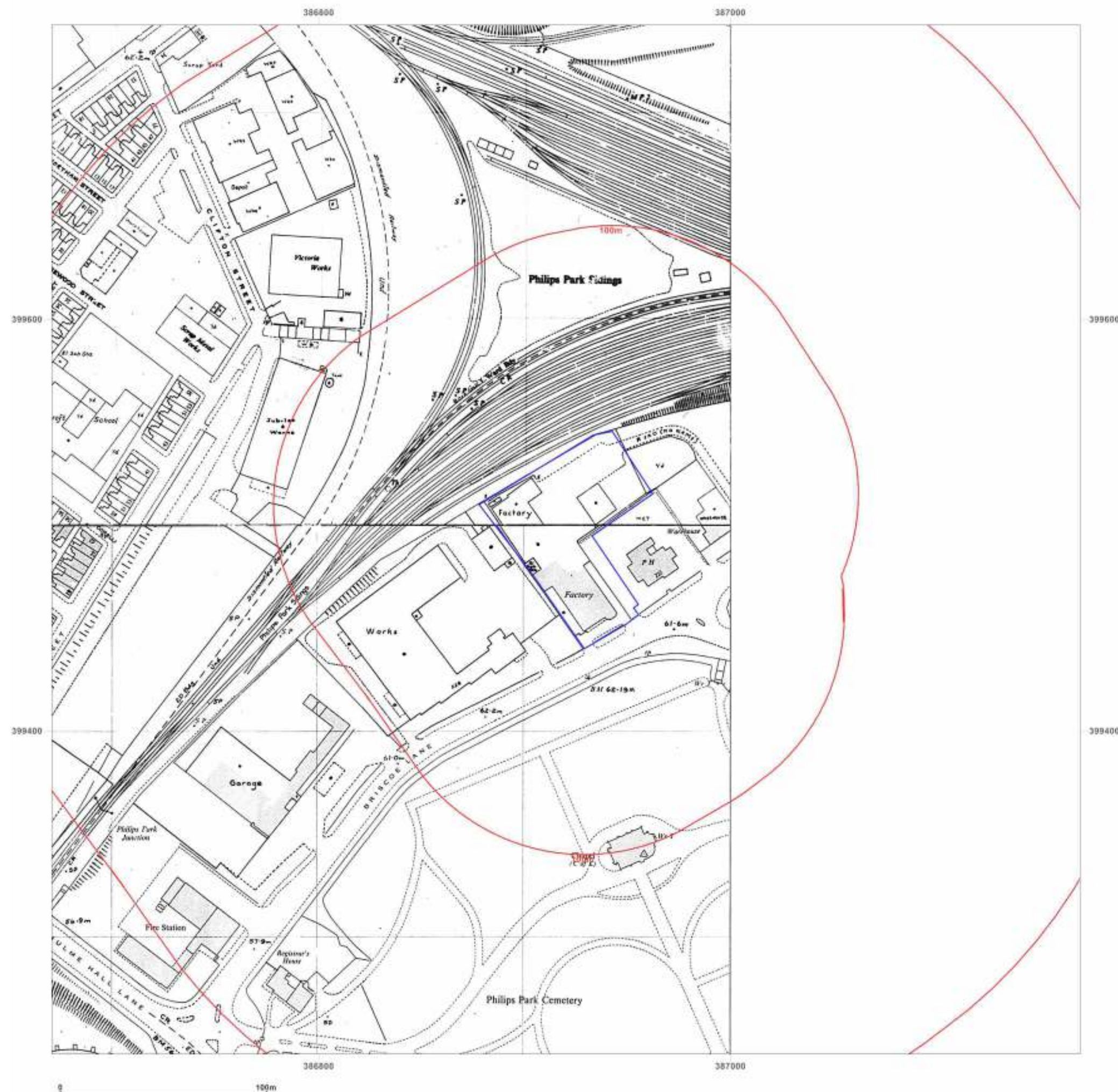


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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1990-1992

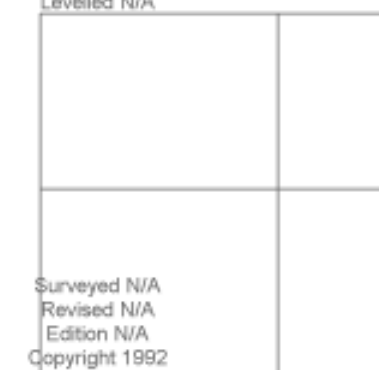
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Revised 1990
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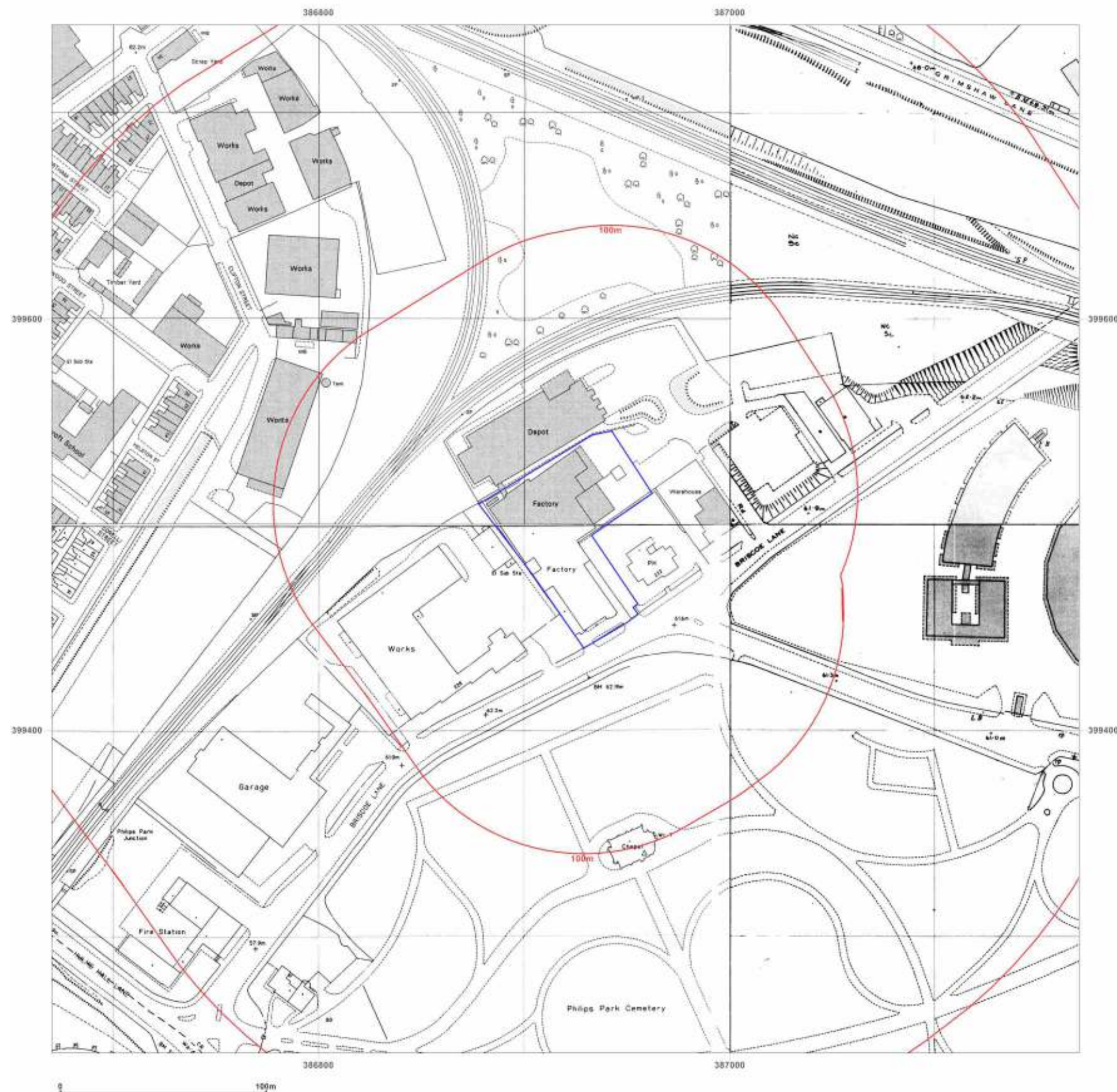


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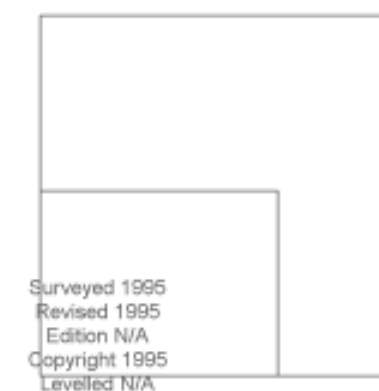
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Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

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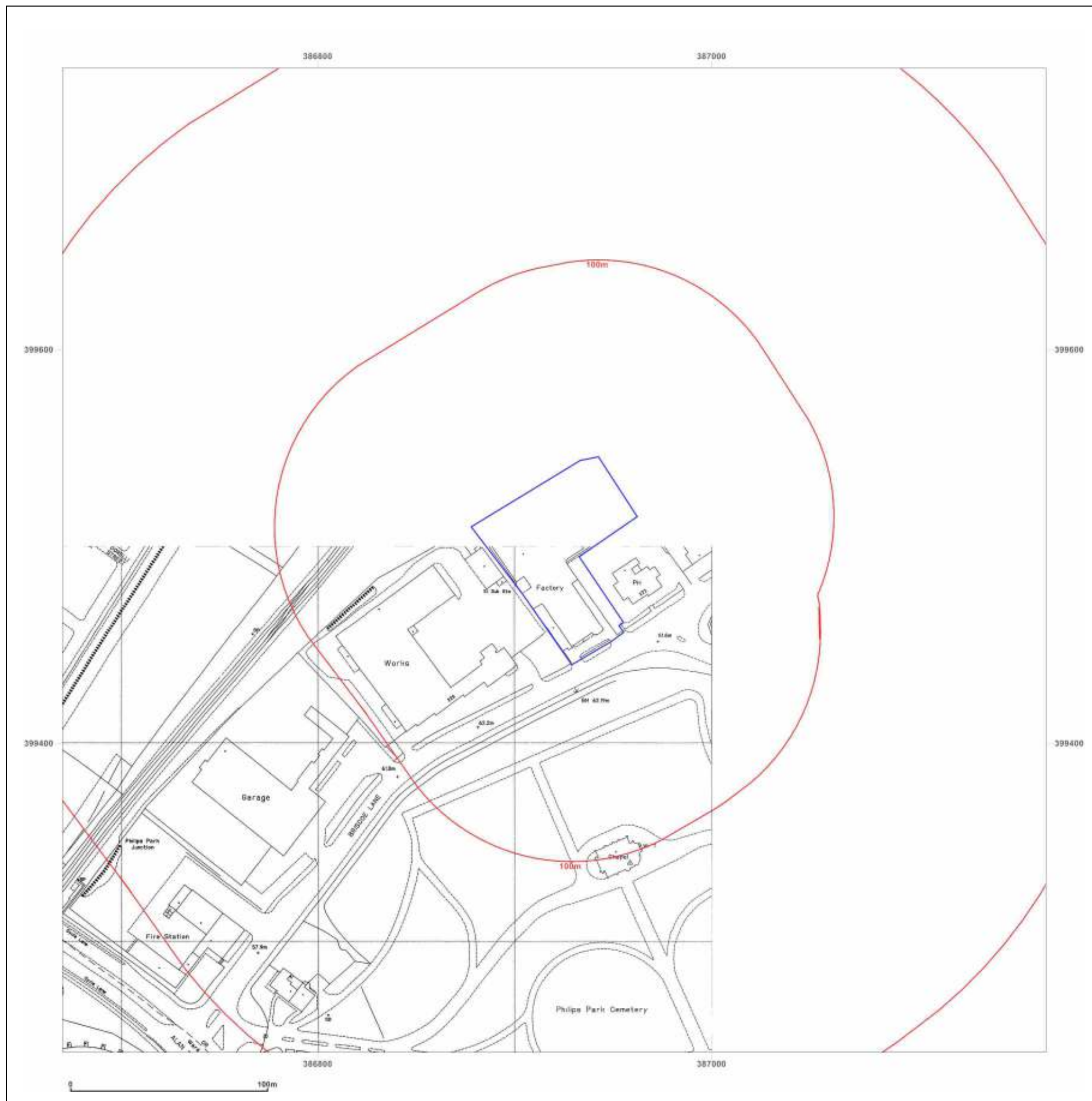


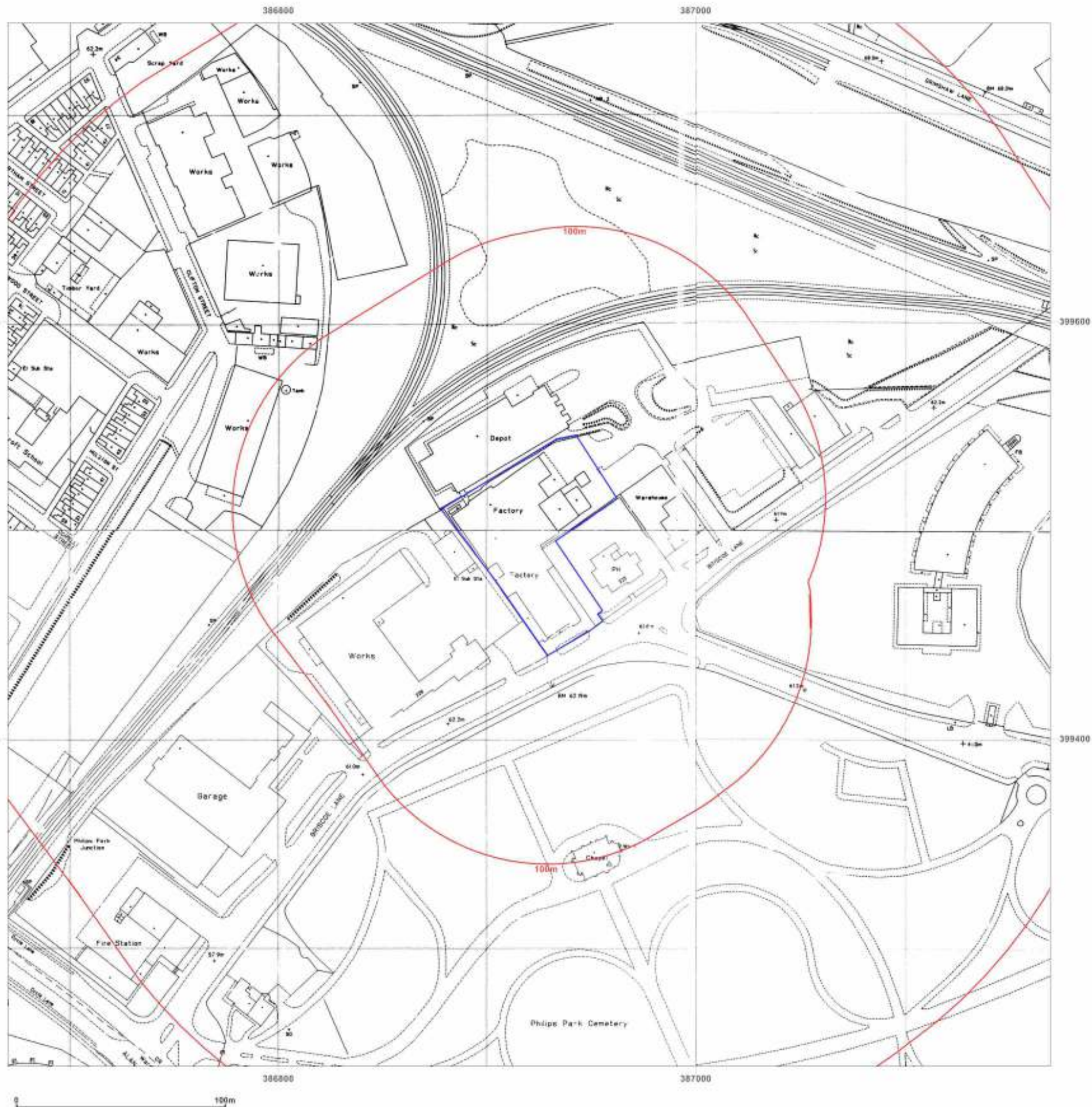
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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name:	National Grid
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Map date: 1992-1995

Scale: 1:1,250

Printed at: 1:2,000

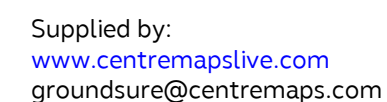
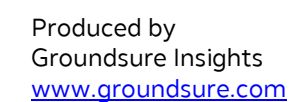


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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



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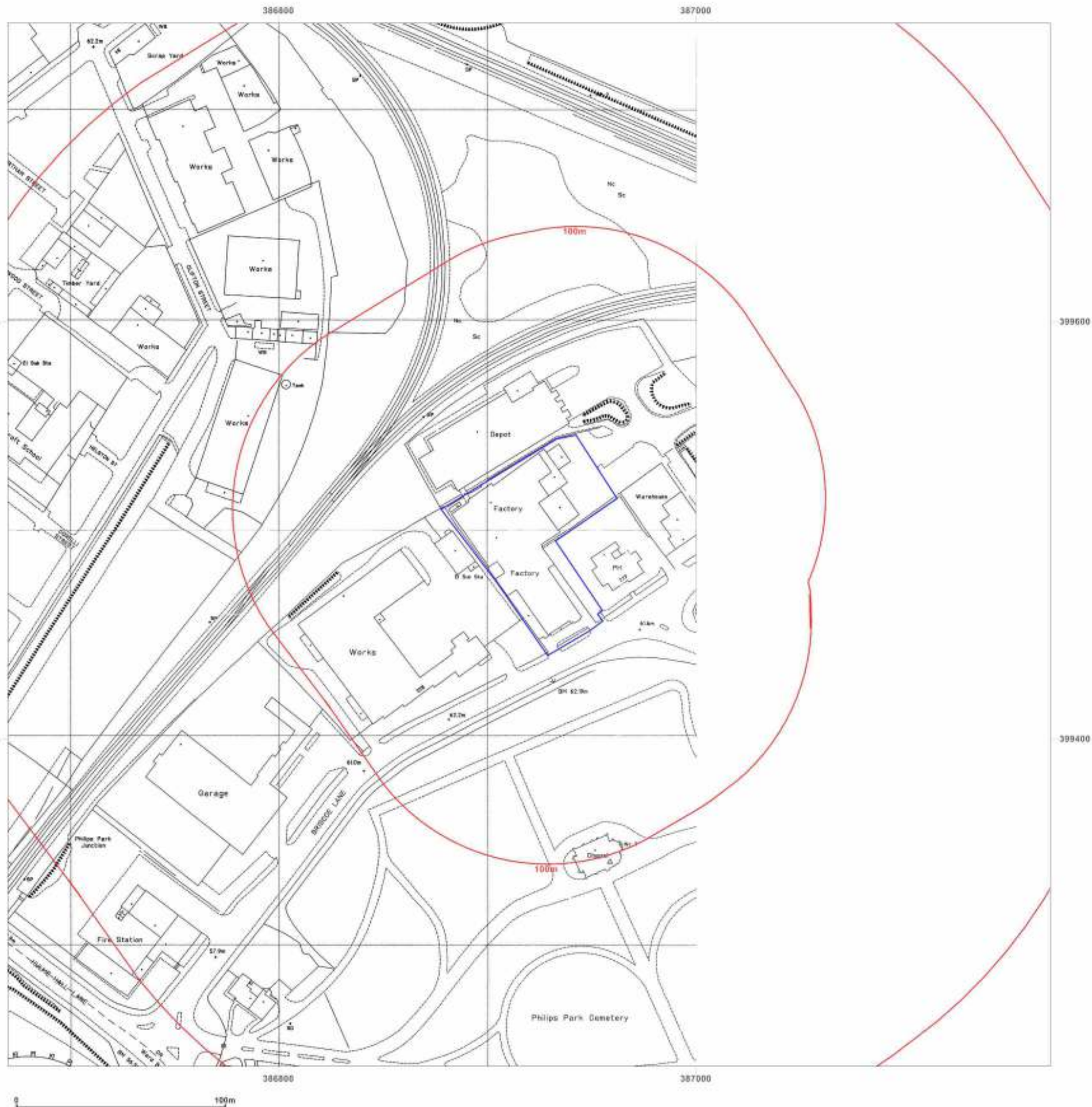
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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name:	National Grid
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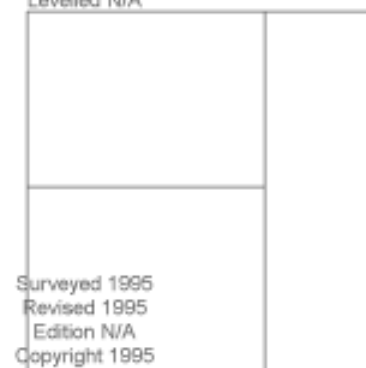
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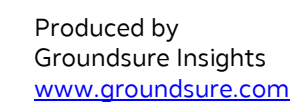
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Site Details:

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Client Ref: 4199
Report Ref: CMAPS-CM-862275-4199-210220HIS
Grid Ref: 386920, 399493

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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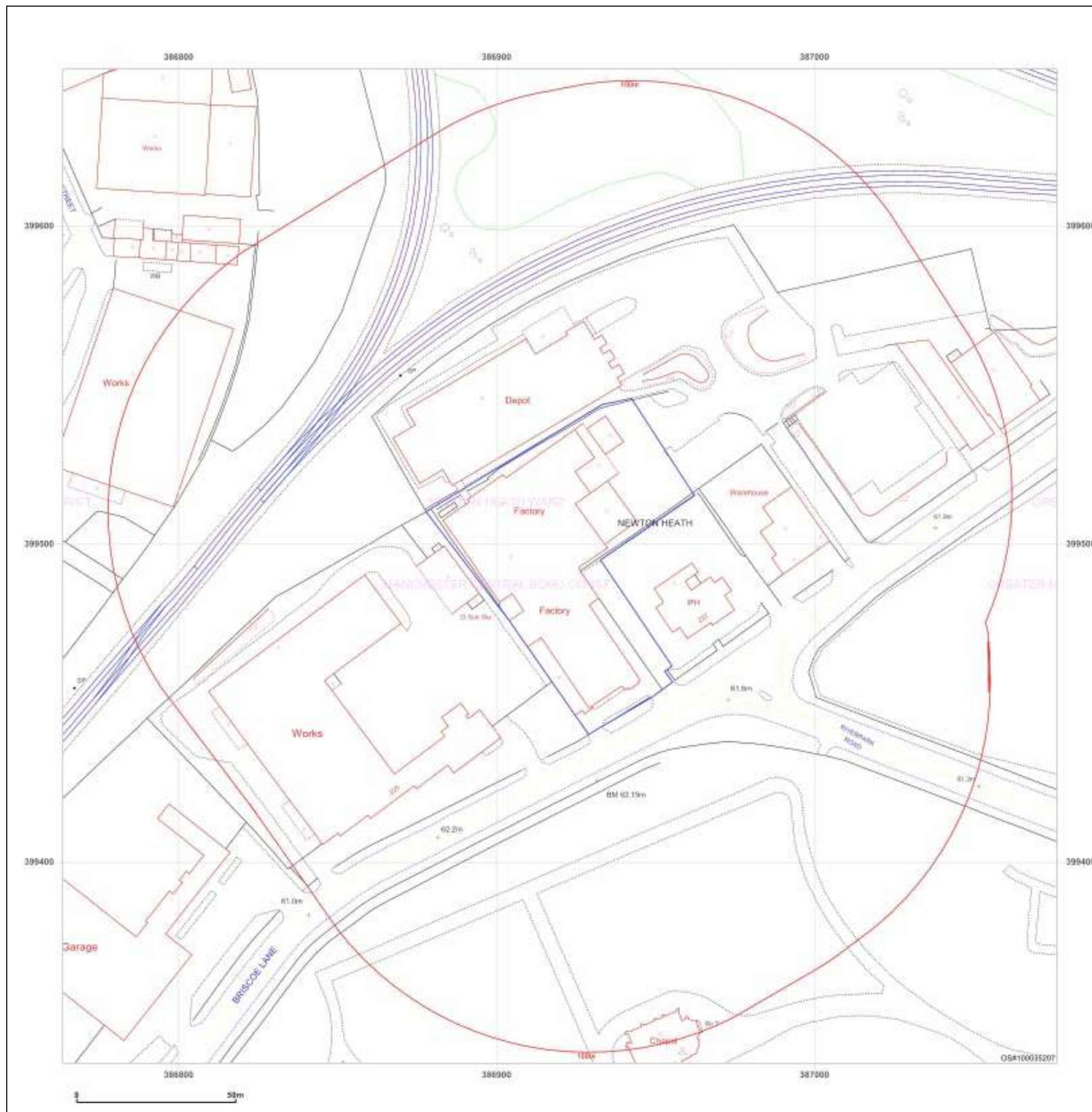


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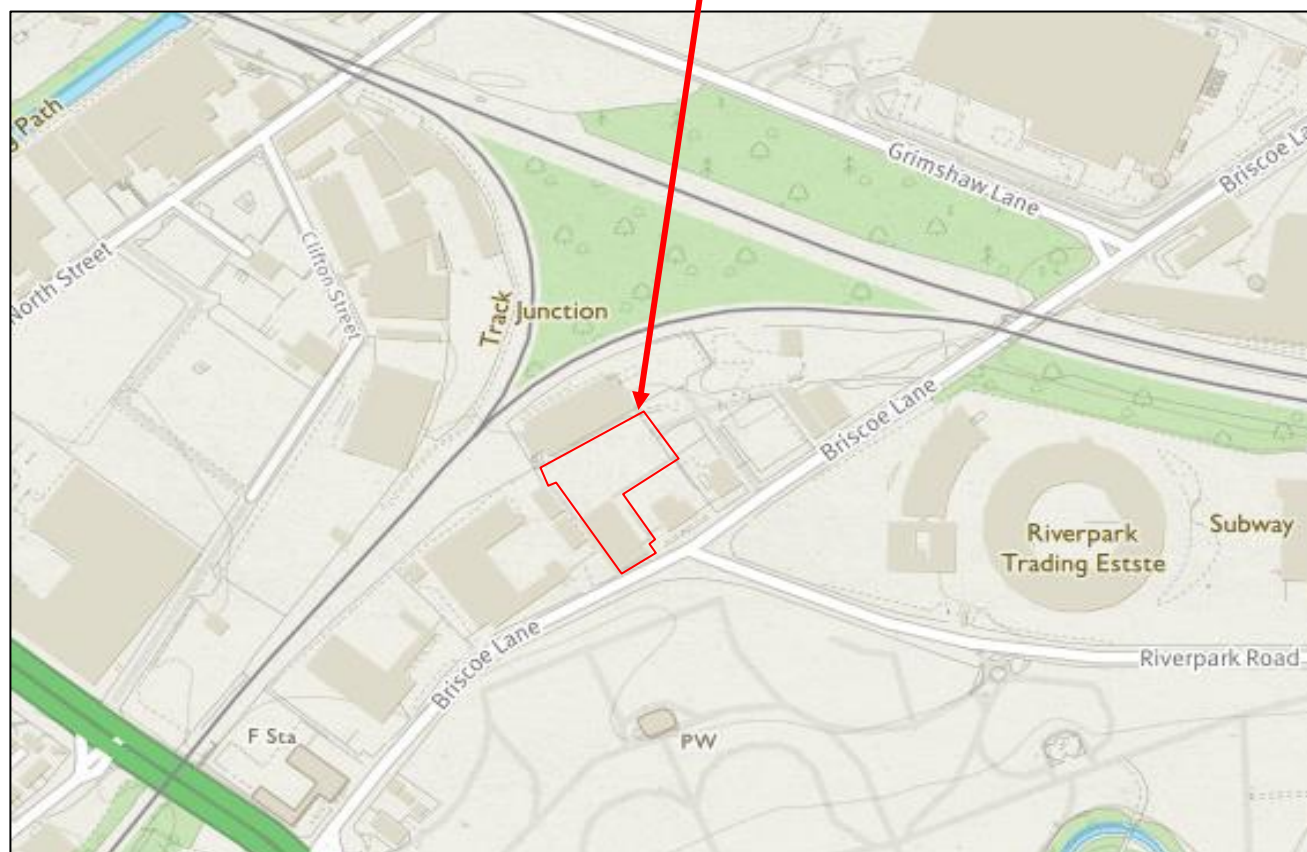
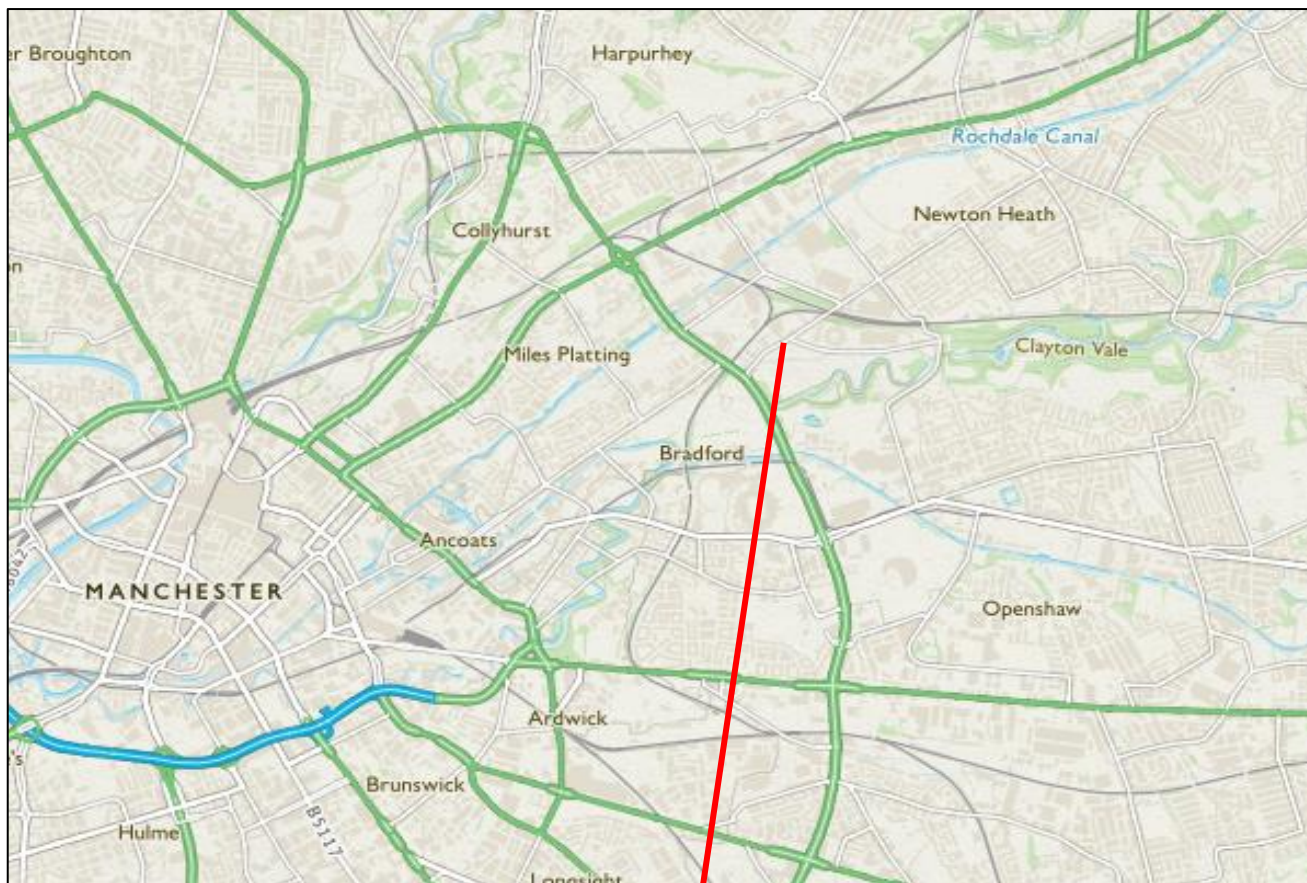
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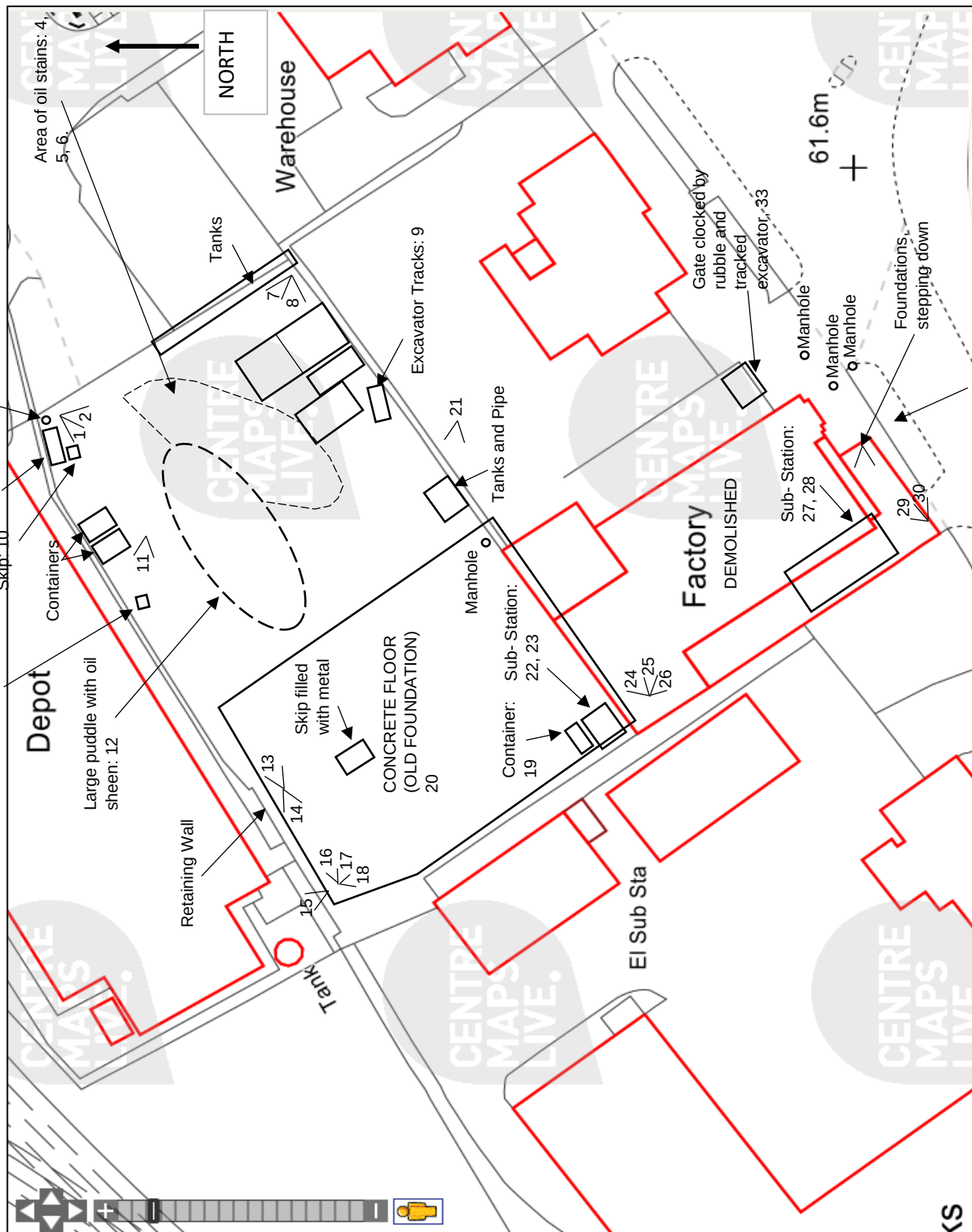


FIGURES

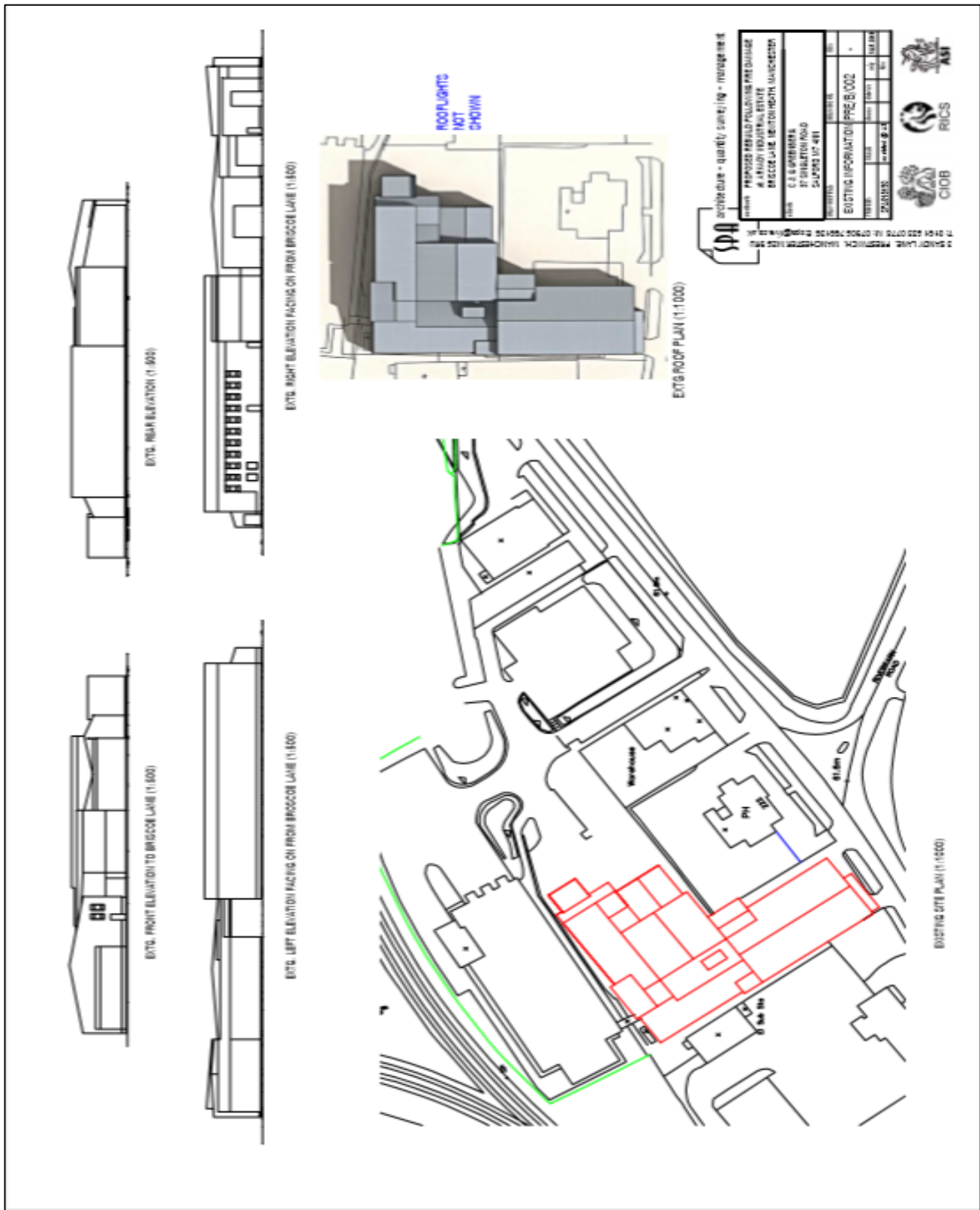


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SS SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Site Location Plan			
Site: ARKADY INDUSTRIAL ESTATE, MANCHESTER	Date Drawn: 26-Feb-20	Date Checked:	Orientation: 	Job Number: 6921
Client: CASSEL & FLETCHER CONSTRUCTION LIMITED	Drawn By: SCB	Checked By:	Scale: —	Figure Number: 1



SUB SURFACE SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907	Site Plan / Walkover Photo Locations			
Site: ARKADY INDUSTRIAL ESTATE, MANCHESTER	Date Drawn: 26-Feb-20	Date Checked:	Orientation: 	Job Number: 6921
Client: CASSEL & FLETCHER CONSTRUCTION LIMITED	Drawn By: SCB	Checked By:	Scale: 1	Figure Number: 2



SUB SURFACE
 SITE INVESTIGATION SPECIALISTS, GEOTECHNICAL & ENVIRONMENTAL CONSULTANTS
 3 Peel Street, Preston, Lancashire, PR2 2QS. Tel: (01772) 561135 Fax: (01772) 204907

Site:
 ARKADY INDUSTRIAL ESTATE, MANCHESTER

Client:
 CASSEL & FLETCHER CONSTRUCTION LIMITED

Proposed Development

Date Drawn: 26-Feb-20	Date Checked:	Orientation: 	Job Number: 6921
Drawn By: SCB	Checked By:	Scale: —	Figure Number: 3