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Job Title

Baptist Church, Rochdale Road, Manchester

Prepared for

Citypoint Developments

Report Type

Phase 1 Desk Study

Date

9 December 2024



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|             |                                    |
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## 1. Introduction

Civic Earth Limited was appointed by Civic Engineers Limited on behalf of Citypoint Developments (the Client) to undertake a Phase 1 Desk Study and Preliminary Risk Assessment for the proposed redevelopment of the Baptist Church on Rochdale Road, Manchester (herein referred to as "the site").

The aim of this report is to evaluate potential human health, environmental and geotechnical risks and constraints associated with the proposed development, including:

- Information obtained from a review of available historical mapping and environmental disclosure report for the site;
- A summary of the anticipated ground conditions and associated geotechnical and geoenvironmental constraints based on review of available published and unpublished sources;
- Preliminary qualitative contamination source-pathway-receptor risk assessment based on the available desk study information and the current proposed redevelopment plan; and
- Recommendations for ground investigation and further assessment, if required.

This document is intended to support a planning application for the development of the site. It is assumed that ecological and archaeological desk studies/assessment will be undertaken by others and fall outside the scope of this report.

## 2. Site Context

### 2.1 Site Location

The site is located at the junction of Rochdale Road and Sharp Street in Manchester. The approximate postcode for the site is M4 4HT. The National Grid coordinates for the approximate centre of the site are 384573E, 399009N and the site is approximately 835m<sup>2</sup> in size. The site location is illustrated in Plate 1.

*Plate 1: OS MasterMap Site Plan (excerpt from Enviro + Geo Insight Report)*



### 2.2 Site Description

A site walkover was carried out on 11 April 2024 by an engineer from Civic Engineers and full details of the site walkover are included in the site walkover record and photographs included in Appendix A.

The site is roughly square in shape and is occupied by the currently vacant Particular Baptist Church and a c. 7m wide strip of tarmac to the east of the church which is typically used for parking and a narrow strip of tarmac to the west; currently un-used. The front half of the church is of red brick construction with small towers along the front, with the rear half having been rendered. A flat roof two-storey extension is present off the northwest corner of the building, labelled '1' in Plate 1 above. This extension and northern portion of the church has a basement below, which is accessed by a staircase down from the carpark to the northeast, or at street level from Dyche Street.

The Baptist Church is bound by a low redbrick wall with iron railings along the southern perimeter whilst chainlink fencing and a brick wall form the western boundary. The northern boundary is defined by the rear wall of the Baptist Church. The carpark area to the east is bound by low concrete fencing panels to the south and metal railings to the east and north, the shared boundary with the Baptist Church comprises of chainlink fencing on concrete posts.

The site is bound by Rochdale Road (A664) to the south, Sharp Street to the east and Dyche Street to the north, with a mix of commercial office space, hotels and residential apartments beyond. West of the site is an area of concrete hardstanding used as carparking with Ludgate Street beyond.

The site is flat with current ground levels around +51.5m above Ordnance Datum (mOD). The site is level with the surrounding land.

### **2.3 Proposed Development**

The Baptist Church is located adjacent to the northwest side of Rochdale Road. The site is bounded by a car park to the southwest, which is soon to be developed into a Premier Inn hotel, Dyche Street to the northwest and Sharp Street to the northeast. The existing building dates back to the early 20th century and is formed primarily of load bearing masonry with timber roof and floor structural elements.

The building is a derelict historical building located in the heart of Manchester city centre and has been designated as a non-designated heritage asset. This report is being produced to support a planning application for the partial demolition of rear of existing building and erection of a 23 storey residential building comprising 133 units with ground floor commercial unit (Use Class E) and associated works. A proposed ground floor layout is presented in Plate 2 below.

Plate 2: Proposed Site Ground Floor Layout



## 2.4 Planning History

A review of the Manchester City Council planning portal<sup>1</sup> suggests that there are no planning applications for the Baptist Church, however the vacant land to the northeast, used as carparking, had a planning application (043067/LE/North/93) in 1993. This covered two additional small sites in the area and was put forward as a land claim suggesting the sites have been used for office space, storage and parking for more than 10 years, this was approved in 2016.

The vacant area to the southwest of the site, currently used as carparking has had a number of planning applications, the most recent of which (138365/LE/2023) was to erect an 11 storey, 229-bedroom hotel with

<sup>1</sup> <https://pa.manchester.gov.uk/online-applications/> - Accessed on 03 June 2024.

ancillary ground floor bar and restaurant. This application has been approved.

Desk Study<sup>2</sup> and Phase 2 Ground Investigation<sup>3</sup> reports were available and have been obtained from Manchester City Council Planning Portal for the above-mentioned planning application. It is noted that the reports included Goad Insurance plans from 1962 which identified the presence of a Petrol Filling Station to the southwest, and two garages with sunken fuel tanks to the southeast and northeast. Furthermore, during the ground investigation, two underground storage tanks (USTs) were located on the adjacent site along the site boundary of Rochdale Road, the report confirms these were used to store fuel for the former petrol filling station.

Where these reports have been referred to herein, the information has not been independently verified.

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<sup>2</sup> LK Consult (2020) Land at Rochdale Road, Manchester, M4 4HT. Phase 1 Preliminary Risk Assessment. Reference CL-602-LKC 20 1328-01 Revision R0. May 2020.

<sup>3</sup> LK Consult (2020) Land at Rochdale Road, Manchester, M4 4HT. Phase 2 Geo-Environmental Investigation, Risk Assessment and Remediation Strategy. Reference CL-602-LKC 20 1328-02 Revision R0. June 2020.

### 3. Historical Development

#### 3.1 Sources of Information

The historical development of the site has been traced from Ordnance Survey mapping (included in Appendix B) and historical satellite mapping included in the Groundsure Enviro + Geo Insight report (included in Appendix C).

#### 3.2 Site History

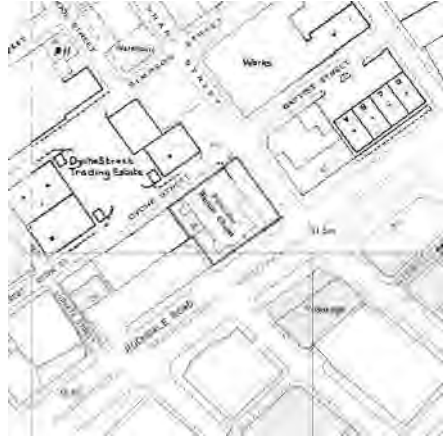
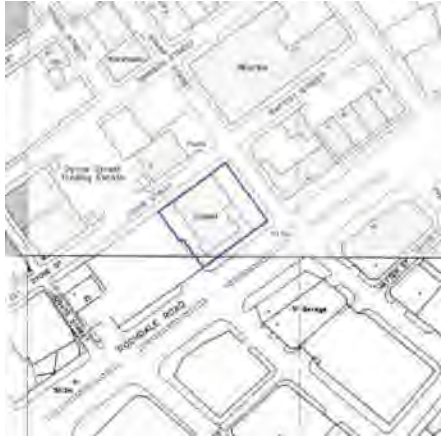
##### 3.2.1 On-Site

The pertinent history of the site is summarised in Table 1 along with relevant excerpts from historical maps and aerial photographs.

Table 1: Summary of Site History

| 1850 – 1:1,056                                                                                                                                                                                                                                                                               | 1891 – 1:500                                                                                                                                                                                                                                                                                    | 1948 – 1953 – 1:1,250                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                            |                                                                                                                                                                                                              |                                                                                                                                                                                                                        |
| The site is occupied by <i>St George's Road Chapel</i> in the centre, with access off <i>Rochdale Road</i> to the southeast and <i>Dyche Street</i> to the northwest. Adjacent the chapel to the northeast are a number of properties, likely residential accessed off <i>Sharp Street</i> . | No significant changes to the layout, however the chapel is renamed <i>Baptist Chapel (Particular)</i> with a capacity of 700.<br><br>Internet sources <sup>4</sup> suggest the chapel was rebuilt in 1907 to its current design and was the 3 <sup>rd</sup> iteration of a church on the site. | A majority of the properties to the northeast against <i>Sharp Street</i> have been demolished, leaving <i>no. 63</i> and <i>no. 65 Rochdale Road</i> . The property adjacent to the northeast wall of the <i>Baptist Church</i> on <i>Dyche Street</i> has been replaced with an extension of the church. |

<sup>4</sup> [www.manchesterhistory.net/manchester/churches/particularchapel.html](http://www.manchesterhistory.net/manchester/churches/particularchapel.html) - Accessed 03 June 2024.

| 1984 - 1988 – 1:1,250                                                                                                   | 1989 - 1992 – 1:1,250                                                                             | 2019 – Aerial photograph                                                            |
|-------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                        |                 |  |
| All properties along <i>Sharp Street</i> have been demolished, with the chapel and <i>no. 59 Dyche Street</i> remaining | <i>No. 59 Dyche Street</i> has been demolished, with just the chapel indicated to remain on site. | No changes to the site since 1992.                                                  |

### 3.2.2 Off-Site

In 1850, the site was in a primarily residential area with a *Cotton Mill* to the west off *Simpson Street* and to the south off *Hatter Lane*. An accompanying school, labelled as *St George's Road Chapel School*, separated for boys and girls is present to the north of *Simpson Street*. Within 100m north of the site boundary was a *Machine Manufactory*, *Timer Yard* and *Smithy* between *Sharp Street* and *Ludgate Hill*.

By 1891, the *Cotton Mill* on *Simpson Street* to the north had been converted to a *Church* and the *Timber Yard* had a pond constructed. At this time, a tram track had been installed along *Rochdale Road*, thinning out to a single line in front of the *Baptist Church* which led to *Rochdale Road Gas works* circa 200m north of the site and *Oldham Road Goods Yard* 250m to the east. A *Cotton Mill* with associated *Factory Workhouses* and *Reservoir* were constructed along *Angel Street*, between 100 and 250m west of the site.

Between 1908 and 1922, *Oldham Road Good Yard*, underwent significant expansion demolishing many properties east of the site, with the yard being within 100m of the site boundary. The *Timber Mill* was amended to a *Tobacco Works* and a *Printing Works* was indicated on *New Mount Street*, 100m to the northwest. The *Cotton Mill* on *Angel Street* became an *Iron Works*. As part of the tram and *Rochdale Road* widening works, neighbouring residential blocks south of the site were cleared leaving empty space.

By 1949, the *Gas Works* to the northwest had an amended layout and the *Goods Yard* to the east had also been amended, with one of the larger sheds being removed. The *Iron Works* (formerly cotton mill) to the west had been demolished. Further neighbouring blocks of residential properties have been cleared along *Simpson Street* and *Baptist Street* to the north with a number of works and warehouses being constructed. A *Garage* is present south of the site on the opposite side of *Rochdale Road*. The tram lines along *Rochdale Road* have been removed and the plot adjacent to the southwest site boundary has been cleared.

The mapping provided by Groundsure did not include the 1962 Goad Insurance Plans that were within the desk study<sup>2</sup> and site investigation<sup>3</sup> reports for the adjacent site. Whilst the mapping provided by Groundsure does not identify garages/ petrol filling stations within the vicinity of the site, when reviewed alongside the 1962 Goad Insurance Plan, it is interpreted that, in the 1959, the adjacent site to the southwest was occupied by a *Petrol Filling Station* with *Sunk Petrol Tanks* and a *Caravan Display* shop, this was removed by 1970. Two further *Garages* with *Sunk Petrol Tanks* were present, one to the southeast, along the opposite side of *Rochdale Road* from 1952 to 2005, and one to the northeast, on the junction of *Baptist Street* and *Sharp Street* from 1958 to 1992. None of these garages/petrol stations are present today.

From 1970, a large *Goods Shed* is shown as part of *Oldham Road Good Yard* to the east and the *Gas Works* has been partially removed leaving a small portion in the north. Most of the neighbouring properties are labelled as *Warehouse* or *Works*, by the late 1970's many of the warehouse or works have been cleared again. The large former *Iron Works* to the west is now a *carpark*.

By 1984 new trading estates occupied the blocks to the north of the site, the adjacent site to the southwest indicated to have remained vacant since 1989. The *Goods Shed* and *Goods Yard* to the east have been repurposed as a *Depot* and *Fire Station* with rail links being removed. Many of the vacant blocks to the south of the site have been repurposed as carparks and remained relatively unchanged until 2015.

From 2015, a number of the carpark areas have been developed with high rise residential and commercial spaces.

### 3.3 Unexploded Ordnance

A review of publicly available online risk mapping<sup>5</sup> indicates that the site is located within an area of moderate risk from unexploded ordnance (UXO), as illustrated in Plate 3. It is therefore recommended that a UXO risk assessment is undertaken for the site to identify whether mitigation measures are required for investigation and development of the site.

Plate 3: UXO Risk Mapping (Zetica Online) (Site Location in Red)



<sup>5</sup> [www.zeticauxo.com](http://www.zeticauxo.com) – Accessed on 03 June 2024.

## 4. Anticipated Ground Conditions

### 4.1 Published BGS Geology

With reference to the British Geological Survey (BGS)<sup>6</sup> website, BGS Sheet 85<sup>7</sup>, BGS Sheet SJ89NW<sup>8</sup> and the Groundsure Enviro + Geo Insight report obtained for the site (see Appendix C), superficial Glacial Till deposits are present beneath the site (see Plate 4) which overly the Chester Sandstone Formation (also known as the Chester Pebble Beds Formation) (see Plate 5).

*Plate 4: Superficial Deposits (based on excerpt from Groundsure Enviro + Geo Insight Report)*



<sup>6</sup> British Geological Survey (BGS), [www.bgs.ac.uk](http://www.bgs.ac.uk) accessed on 03 June 2024.

<sup>7</sup> BGS (2011) Manchester, Sheet 85. Solid and Drift. 1:50,000.

<sup>8</sup> BGS (2011) Manchester, Sheet SJ89NW. Solid and Drift. 1:10,000.

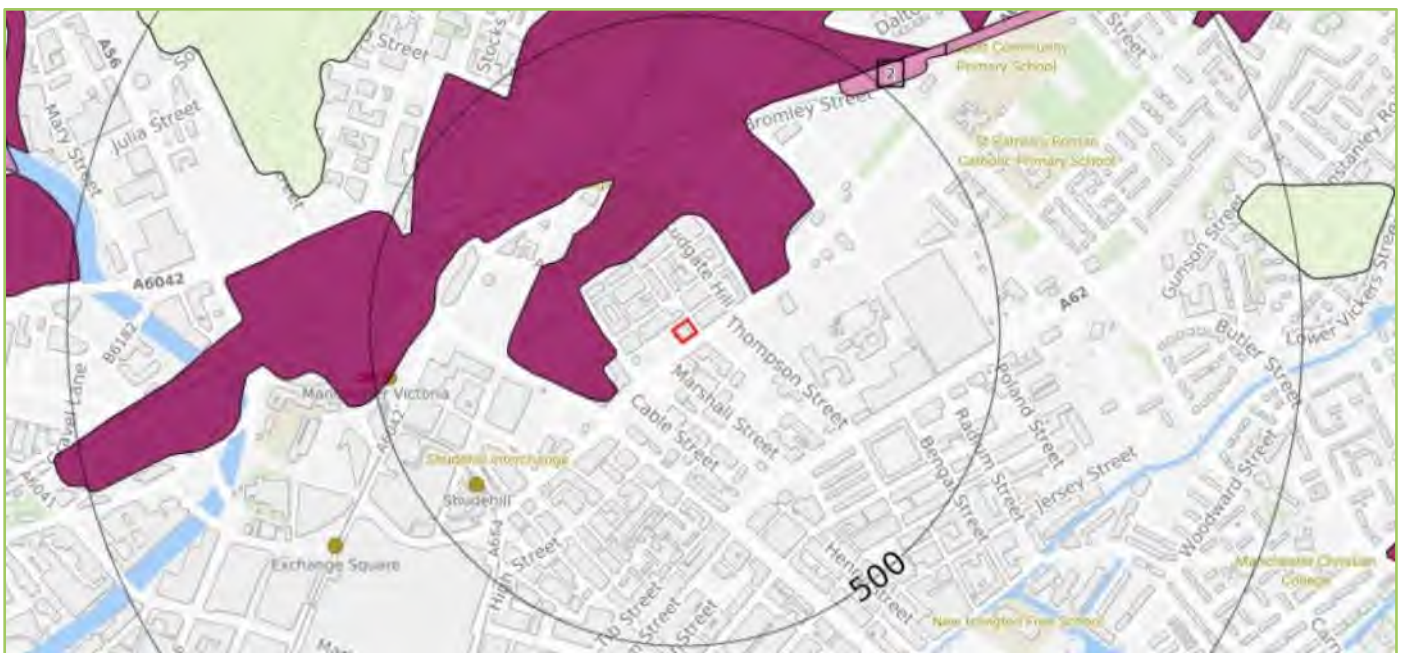
Plate 5: Bedrock Geology (based on excerpt from Groundsure Enviro + Geo Insight Report)



With reference to the Groundsure Enviro + Geo Insight report obtained for the site (see Appendix C), there are two records of Made Ground (or Artificial) and Worked Ground indicated within 500m of the site, as illustrated in Plate 6. The record of Made Ground relates to the Artificial Deposits shown in purple with the record of Worked Ground relate to a record of voids, shown in pink and likely to be associated with the Collyhurst tram tunnel.

In addition, it is considered likely that Made Ground is likely to be present across the site due to the site's historical development.

Plate 6: Excerpt from Groundsure Enviro + Geo Insight Report illustrating Worked Ground / Made Ground



**Note:** Purple = Made Ground, Pink = Worked Ground, Green = Infilled Ground

## 4.2 Unpublished BGS Geology

There are 3 historical BGS records available for review within 100m of the site boundary located to the south as illustrated in Section 16 of the Groundsure Enviro + Geo Insight reports (Appendix C).

The ground conditions typically encountered a variable thickness of Made Ground (<2m) underlain by Glacial Till described as stiff to 'hard' brown and grey silty clay with occasional pebbles to 21.3mbgl with soft red gravels to 21.9mbgl. This is in turn underlain by red sandstone, the Chester Formation. Copies of the BGS records are included in Appendix D.

The phase 2 ground investigation report<sup>3</sup> for the neighbouring development has also been obtained from Manchester City Council planning portal. A review of the logs suggest that the adjacent site is underlain by granular and cohesive Made Ground to c. 2.5m depth, underlain by firm to stiff silty clay (Glacial Till) to approximately 15mbgl. Dense sand and gravels were encountered below the clay to depths between 23m and 28mbgl, which in turn is underlain by the Chester Formation Sandstone which is present as a weak to medium strong medium to coarse grained sandstone with thin mudstone bands. It is considered reasonable to assume that the stratum beneath the proposed development site would follow a similar sequence.

## 4.3 Surface Mining and Ground Workings

There are 3 records of surface ground workings within 250m northwest of the site, one relates to a former pond (now the Co-Operative Group headquarters) and former graveyards (now St Michael's Flags & Angel Meadow Park).

## 4.4 Coal Mining

The site is located within a Coal Mining Reporting Area as defined by the Coal Authority (CA), however, available mapping from the CA indicates that the site is not located within a Development High Risk Area<sup>9</sup>. As such, a Coal Mining Risk Assessment is not required, however a Consultants Coal Mining Report has been obtained for the site and is included in Appendix E. The report concludes that:

- There are two records of past underground mining within the vicinity of the site. Both present to the northeast, the Parker coal seam was worked up until 1935 at a depth of 625mbgl, whilst the Roger coal seam was worked up until 1965 at a depth of 820mbgl.
- There are no probable unrecorded shallow workings,
- There are no spine roadways at shallow depth,
- There are no mine entries within 100m of the site boundary,
- There are no coal seam outcrops,
- There are no geological faults, fissures or breaklines recorded,
- There are no opencast mines or Coal Authority managed tips within 500m of the site,
- There are no records of coal mining related subsidence within 50m of the site and a notice to withdraw support has been given,
- There are no records of mine gas or mine water treatment within 500m of the site.

At this stage, based on the current available data, it is considered unlikely that the effects of historical coal mining will pose a risk to the site's surface stability. Furthermore, there are no records of mining cavities within 250m of the site.

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<sup>9</sup> <https://mapapps2.bgs.ac.uk/coalauthority/home.html> - Accessed 03 June 2024

## 4.5 Hydrology and Hydrogeology

The Environment Agency (EA) has produced an aquifer designation system consistent with the requirements of the Water Framework Directive. The designations have been set for superficial and bedrock geologies and are based on the importance of aquifers for potable water supply and their role in supporting surface water bodies and wetland ecosystems.

The superficial Glacial Till deposits are designated as a Secondary Undifferentiated aquifer and the underlying bedrock of the Chester Sandstone Formation is designated a Principal aquifer. These aquifers are classified as low vulnerability.

The site is not located within a groundwater Source Protection Zone (SPZ) and there are no groundwater or potable abstraction points within 500m of the site.

No surface water features are recorded within 250m of the site; however, the site is located within the Irk catchment area of the River Irwell. The river which is c.300m northwest of the site is currently classified as moderate condition and failed condition with regards to the ecological and chemical classification respectively. These poor statuses are namely due to urban infrastructure, sewage discharge and physical modification.

## 4.6 Ground Hazards

The risks associated with potential geological hazards within 50m of the site have been assessed using the Enviro + Geo Insight report (Appendix C) and are summarised in Table 2.

*Table 2: Geological Hazards*

| Hazard                | Risk       |
|-----------------------|------------|
| Shrink-swell clays    | Very low   |
| Running Sands         | Very low   |
| Compressive Deposits  | Negligible |
| Collapseable Deposits | Very low   |
| Landslides            | Very low   |
| Ground Dissolution    | Negligible |

## 5. Environmental Setting

### 5.1 Environmental Disclosure Report

The Groundsure Enviro + Geo Insights report (included in Appendix C) has been used to provide information on the environmental setting of the site and to assist in identifying possible sources of ground contamination. A summary of the pertinent records generally within 250m from the site is provided below in Table 3. For full details the Groundsure Enviro + Geo Insights reports should be referred to. The records generally reflect the key pertinent features identified on the historical mapping. It is noted that the distances stated are approximate.

*Table 3: Summary of Pertinent Information from the Environmental Disclosure Report*

| Environmental Record                     | Record Details                                                                                                                                                                                                                                    | Distance from Site                                                           |
|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Historical Industrial Land Uses          | 43 records identified within 250m of the site for industries including goods sheds and stations, railway sidings, unspecified commercial/industrial uses, unspecified depots, gas works and gasometers, grave yards (in use & disused)            | Various to the north, northeast, east, southeast, and northwest.             |
| Historical Tanks                         | 21 records of unspecified tanks, tanks or gasometers between 110m and 250m from the site.                                                                                                                                                         | Various to the north and northeast                                           |
| Historical Energy Features               | 10 records of electricity substations identified between 150m and 250m of the site.<br>7 records of gasometers or gas works identified between 100 and 220m of the site                                                                           | Various to the north, northeast, southeast and southwest.                    |
| Historical & Active Petrol Stations      | One record of a Petrol Filling Station on the adjacent site (Goad Insurance Plans)<br>Two records of Garages with underground petrol tanks                                                                                                        | 40m southwest<br>25m southeast & 30m northeast                               |
| Historical Garages                       | 18 records of garages across 7 sites identified between 20m and 250m of the site.                                                                                                                                                                 | Various to the north, northeast, northwest, south and southeast.             |
| Historical or Active Landfills           | Former breakers yards and material recycling site (licensed waste sites). There are no active or historical landfills within 250m of the site.                                                                                                    | 194m, 215m and 249m north                                                    |
| Waste Exemptions                         | 7 records identified between 100m and 250m of the site including use of waste in construction, sorting and de-naturing of controlled drugs for disposal, storage of waste in construction, and screening and blending of waste.                   | 103m and 104m northwest, 213m and 214m west, 237m south, and 243m southeast  |
| Recent Industrial Land Uses              | 17 records identified between 90m and 250m of the site for industries including industrial products and features, infrastructure and facilities, repair and servicing, consumer products, central and local government and construction services. | Various to the north, northeast, east, southeast, south, southwest and west. |
| Licensed Pollutant Releases              | None within 250m of the site.                                                                                                                                                                                                                     | -                                                                            |
| Pollution Incidents to Controlled Waters | None records of pollution incidents within 250m of the site.                                                                                                                                                                                      | -                                                                            |
| Environmental Designations               | The site is located within a SSSI Impact Risk Zone – details are presented in the Geo + Enviro Insight report.                                                                                                                                    | -                                                                            |

### 5.2 Radon

The environmental disclosure report has identified that the site lies within a Radon Affected Area where less than 1% of properties are estimated to have a radon level at or above the action level. Therefore, radon protection

measures are not considered necessary. It is noted that if basements are proposed which shall be occupied or part occupied, current guidance requires monitoring for radon.

## 6. Preliminary Risk Assessment

### 6.1 Introduction

Historical contamination of land may present harm to human health and the environment. Current UK legislation stipulates that the risk associated with potential land contamination is assessed and remediated, if necessary. Under the Town and Country Planning Act 1990 (as amended), potential land contamination is a "material planning consideration" together with the National Planning Policy Framework<sup>10</sup> (revised in July 2023), which means that a planning authority must consider contamination when they prepare development plans or consider individual applications for planning permission. It is the responsibility of the developer to carry out the remediation where it is required and satisfy the Local Authority that the remediation has been carried out as agreed.

Additionally, Part 2A of the Environmental Protection Act 1990 requires that a significant source-pathway-receptor linkage exists to determine a site as contaminated land. This means that there has to be a contaminant present, a receptor that could be harmed by this contaminant, and a pathway linking the two. Part 2A deals with the contamination risk from a site in its current use, however, the planning system requires that the proposed use is considered. Where remediation is carried out under the planning system, it should be ensured that the site is in such a condition that it would still not meet the definition of contaminated land under Part 2A.

### 6.2 Preliminary Conceptual Site Model

A preliminary conceptual model has been compiled for the site with respect to the proposed development to identify the potential sources of contamination and the associated potential contaminant linkages. This model also informs the potential need for further investigation at the site.

#### 6.2.1 Potential Sources

Potential contamination sources can include both current and historical activities on site and in the surrounding area. The potential sources outlined in Table 4 have been identified at the site.

*Table 4: Potential Sources*

| Hazard                                                           | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| On site Made Ground and historical and current land on-site uses | Historical use as a chapel, Baptist Church (current) and residential properties. Potential for Made Ground to be present due to the site's historical development, which could be a potential source of a wide range of contaminants including heavy metals, hydrocarbons and asbestos material. There is the potential for the site to have been used for burials, although there is no evidence of this.                                                                                              |
| Off-site historical land uses                                    | Potentially contaminative land uses have been identified within the vicinity of the site including cotton mills, a Timber yard (later Tobacco manufacture), iron works, engineering works, tanks, garages, infilled land, railway land, gas works, electricity substations and neighbouring petrol filling station and garages with recorded underground fuel storage tanks. These could be potential sources for a wide range of contaminants including heavy metals, hydrocarbons, asbestos and PCBs. |
| Ground gases / vapour                                            | Made Ground can be a source of ground gas where an appreciable organic content is present. If present, degradation of hydrocarbons/organic chemicals can also produce organic vapours and ground gases.                                                                                                                                                                                                                                                                                                 |
| Groundwater                                                      | Perched water within the Made Ground and shallow groundwater in the superficial deposits may be a source of contamination resulting from impacts from the previous on and off-site sources. Potential contaminants in water would be similar to those present in the soils, as discussed above.                                                                                                                                                                                                         |

#### 6.2.2 Potential Pathways

The potential migration pathways that may be present at the site are outlined in Table 5.

<sup>10</sup> Ministry of Housing, Communities and Local Government (2023). National Planning Policy Framework.

Table 5: Potential Pathways

| Hazard                         | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ingestion and inhalation       | Contamination within the Made Ground and/or shallow natural soils can result in the ingestion or inhalation of contaminated soils (and asbestos fibres if present) where soil is exposed and inhalation of ground gases/vapours.                                                                                                                                                                                                                                                                                      |
| Direct / dermal contact        | Direct/dermal contact with contaminated soils or shallow groundwater can result in the uptake of contaminants through the skin (where soil is exposed) or permeation of contaminants through structures.                                                                                                                                                                                                                                                                                                              |
| Root uptake                    | Uptake of phytotoxic contaminants by plants and vegetation within areas of soft landscaping.                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Lateral and vertical migration | Leaching from potential contamination in the soils may impact the water in the Made Ground, Secondary Undifferentiated and Principal aquifers. However, the site will be predominantly covered by hard standing and low permeability layers within the Glacial Till will likely reduce downward migration into the sandstone aquifer which is more than 20mbgl. There are no recorded controlled waters features within 250m of the site boundary, however the River Irwell is present c. 300m northwest of the site. |
| Ground gas / vapour migration  | Lateral migration of ground gases and/or vapours through the soil matrix could lead to accumulation within buildings (if proposed), posing a risk of asphyxiation or explosion.                                                                                                                                                                                                                                                                                                                                       |
| Drainage and services          | Could provide a preferential pathway for dissolved phase contaminant migration and/or ground gases/vapour transport.                                                                                                                                                                                                                                                                                                                                                                                                  |

### 6.2.3 Potential Receptors

The potential receptors have been identified based on the anticipated residential end use of the site and are outlined in Table 6.

Table 6: Potential Receptors

| Hazard                                | Risk, if source and pathway present                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Future site users                     | Users of the site considered to be at risk from possible contamination associated within shallow soils and groundwater, if source and pathway are present.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Construction workers                  | Considered to be at risk from potential contamination within soils and groundwater during groundworks. Such persons are likely to be in close contact with potentially contaminated materials on site associated with the current and historical uses of the site and surrounding area.                                                                                                                                                                                                                                                                                                         |
| Off-site residents                    | Potentially at risk from potential contaminants in wind-blown dust and potential odours/vapours generated during development works.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Controlled waters                     | The surrounding aquifer (Secondary Undifferentiated of the Till deposits and Principal aquifer of the Chester Sandstone Formation) are potentially at risk from the leaching of contaminants from potentially contaminated soils. However, the site will be predominantly covered by hard standing and low permeability layers within the Glacial Till will likely reduce downward migration into the sandstone aquifer which is more than 20mbgl. There are no controlled waters features within 250m of the site boundary, however the River Irwell is present c. 300m northwest of the site. |
| Buildings / Infrastructure / services | Potentially at risk from ground gas migration (excluding radon), aggressive ground conditions and contaminants that may permeate through underground services such as water supply pipes.                                                                                                                                                                                                                                                                                                                                                                                                       |
| Plants and vegetation                 | Primarily at risk from phototoxic contaminants such as boron, copper, nickel and zinc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

### 6.3 Preliminary Risk Assessment

A preliminary qualitative risk assessment has been undertaken for the site based on the findings of the

conceptual site model and the potential contaminant linkages that may exist at the site in accordance with the October 2020 Land Contamination Risk Management Guidance (LCRM)<sup>11</sup>. The magnitude of the risks associated with potential contaminant linkages has been assessed using criteria broadly based on those presented in CIRIA Report C552<sup>12</sup>, and are summarised in Table 7, recommendations or recommended actions are underlined to further characterise the hazard or mitigate the risk outlined. The risk assessment methodology is presented in Appendix F.

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<sup>11</sup> Environment Agency (2020). *Land Contamination Risk Management (LCRM)*.

<sup>12</sup> CIRIA (2001) Contaminated Land Risk Assessment. A guide to good practice. C552.

Table 7: Preliminary Qualitative Risk Assessment

| Potential Source/Medium                                                                                                             | Potential Exposure Route                                                                                          | Potential Receptor                                        | Severity | Probability    | Risk Rating  | Comments                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|----------|----------------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Explosive/ asphyxiating gases/vapours from underlying soils (Made Ground and natural ground), and potential on and off-site sources | Migration of gases and vapours through the surface via permeable soils and drainage & services                    | Internal building spaces & future occupiers (residential) | Medium   | Likely         | Moderate     | Potential for variable thickness of Made Ground on site based on historical development.<br><br><u>Assessment of underlying geology and ground gas monitoring recommended to assess ground gas regime for the site.</u>                                                                                                                                                                             |
| Organic/ inorganic contaminants within underlying soils and perched groundwater within the Made Ground                              | Direct/indirect ingestion of soil and dust, inhalation of particle vapours and asbestos fibres and dermal contact | Construction workers                                      | Medium   | Likely         | Moderate     | Potential for shallow soils to be impacted with asbestos and/or contaminants. However, risk would be mitigated by use of appropriate PPE.<br><br><u>Chemical analysis and assessment of soils and groundwater within anticipated excavation depths required to assess risk.</u>                                                                                                                     |
|                                                                                                                                     |                                                                                                                   | Future site users (residential)                           | Medium   | Low likelihood | Moderate/Low | Potential for shallow soils to be impacted with asbestos and/or contaminants; however, minimal areas of soft landscaping anticipated as part of development works which reduces risk of potential exposure. Likely soft landscaping (if incorporated) will require growth medium or be in raised planters.<br><br><u>Chemical analysis and assessment of shallow soils required to assess risk.</u> |
|                                                                                                                                     |                                                                                                                   | Off-site residents                                        | Medium   | Unlikely       | Low          | Potential for shallow soils to be impacted with asbestos and/or contaminants; however, minimal areas of soft landscaping anticipated as part of development works which reduces risk of potential exposure<br><br><u>Chemical analysis and assessment of shallow soils required to assess risk.</u>                                                                                                 |
|                                                                                                                                     | Direct contact with underground structures and services                                                           | Buildings and structures, buried services                 | Mild     | Likely         | Moderate/Low | Buried concrete to be designed appropriately for the ground conditions present. Potential for contamination within Made Ground where new buried water supply pipes will be laid.<br><br><u>Chemical assessment of soils required to assess risk.</u>                                                                                                                                                |
|                                                                                                                                     | Root uptake                                                                                                       | Plants and vegetation                                     | Minor    | Likely         | Low          | Likely that there will be minimal soft landscaping which                                                                                                                                                                                                                                                                                                                                            |

**Baptist Church, Rochdale Road, Manchester**  
**Phase 1 Desk Study**

| Potential Source/Medium                                                                                | Potential Exposure Route                                 | Potential Receptor                                                 | Severity | Probability    | Risk Rating  | Comments                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------|----------|----------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                        | Vertical migration                                       |                                                                    |          |                |              | will require a growth medium or be in raised planters.<br><i>Chemical analysis and assessment of shallow soils required to assess risk.</i>                                                                                                                                                                                                                            |
|                                                                                                        |                                                          | Shallow Secondary Undifferentiated aquifer (Glacial Till deposits) | Medium   | Likely         | Moderate     | Potential for shallow soils and perched water to be impacted with contaminants. However, the site will be predominantly covered by hard standing and low permeability layers within the Glacial Till will likely reduce downward migration into the sandstone aquifer which is more than 20mbgl.                                                                       |
|                                                                                                        |                                                          | Principal aquifer (Chester Sandstone Formation)                    | Medium   | Low Likelihood | Moderate/Low | <i>Analysis and assessment of soils including leachate testing required to assess risk.</i>                                                                                                                                                                                                                                                                            |
|                                                                                                        |                                                          | Local surface water bodies                                         | Mild     | Unlikely       | Very low     | Very low risk of potential contaminants entering local surface water bodies as none have been identified within 250m of the site.                                                                                                                                                                                                                                      |
| Organic/inorganic contaminants within groundwater (Secondary Undifferentiated and Principal Aquifers). | Direct contact and ingestion of contaminated groundwater | Future site users                                                  | Medium   | Low Likelihood | Moderate/Low | Construction workers may come into contact with groundwater during excavation works. Its noted that there are potential off-site sources of hydrocarbons within the vicinity of the site.<br><i>Assessment of groundwater contamination is required to assess risks.</i>                                                                                               |
|                                                                                                        |                                                          | Construction workers                                               | Medium   | Likely         | Moderate     |                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                        |                                                          | Off-site residents                                                 | Medium   | Unlikely       | Low          |                                                                                                                                                                                                                                                                                                                                                                        |
|                                                                                                        | Inhalation of vapours                                    | Future site users                                                  | Medium   | Low Likelihood | Moderate/Low | <i>Potential risk of vapour intrusion into buildings to be assessed.</i>                                                                                                                                                                                                                                                                                               |
|                                                                                                        | Vertical migration                                       | Principal aquifer (Chester Sandstone Formation)                    | Medium   | Low likelihood | Moderate/Low | Potential for contaminants to migrate to underlying Principal aquifer. However, the site will be predominantly covered by hard standing and low permeability layers within the Glacial Till will likely reduce downward migration into the sandstone aquifer which is more than 20mbgl.<br><i>Assessment of groundwater contamination is required to assess risks.</i> |
|                                                                                                        |                                                          | Local surface water bodies                                         | Mild     | Unlikely       | Very low     | Very low risk of potential contaminants entering local surface water bodies as none identified within 250m of the site.                                                                                                                                                                                                                                                |

Baptist Church, Rochdale Road, Manchester  
Phase 1 Desk Study

| Potential Source/Medium | Potential Exposure Route                                | Potential Receptor       | Severity | Probability | Risk Rating  | Comments                                                                                                                                                                                                                                                         |
|-------------------------|---------------------------------------------------------|--------------------------|----------|-------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Direct contact with underground structures and services | Buildings and structures | Mild     | Likely      | Moderate/Low | Buried concrete to be designed appropriately for the ground conditions present. Potential for contamination within Made Ground where new buried water supply pipes will be laid<br><br><i><u>Chemical assessment of groundwater required to assess risk.</u></i> |

## 7. Geotechnical Preliminary Risk Assessment

Based on the desk study review of the ground model for the proposed development of the site, the potential geotechnical risks are outlined in Table 8 below. Recommended actions are underlined to further characterise the hazard or mitigate the risk outlined.

Table 8: Preliminary Geotechnical Risk Assessment

| Geotechnical Hazard                                                                                                   | Consequence and Impacted Parties                                                                                                         | Risk Rating | Comments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Unexploded Ordnance                                                                                                   | Damage to infrastructure, utilities and loss of life                                                                                     | Moderate    | With reference to publicly available unexploded ordnance (UXO) mapping <sup>5</sup> , the site is indicated to be within an area of moderate risk.<br><br><u>It is therefore recommended that a UXO risk assessment is undertaken for the site to identify whether mitigation measures are required for investigation and development of the site.</u>                                                                                                                                                                                                                                                                                                                                                                                                   |
| Variation in ground level and formation level of current and proposed developed in relation to surrounding topography | Potential for ground movement and impact to structures and underground services                                                          | Moderate    | Design to be considerate of surrounding topography and sensitive structures/services relative to current and proposed ground level.<br><br><u>Site investigation required to determine design parameters for permanent and temporary design.</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Historical and existing buildings and structures                                                                      | Access restrictions for ground investigation, and potential for below ground obstructions including existing and historical foundations. | Moderate    | The existing church may provide a constraint for ground investigation and future construction including excavations, foundations and piling. It is understood that the chapel has been incorporated into the design to retain as much as feasibly possible.<br><br><u>Existing and historical structures will need to be taken into consideration where ground investigation is proposed.</u>                                                                                                                                                                                                                                                                                                                                                            |
| Current basement beneath existing church.                                                                             | Access restrictions for ground investigation, and below ground obstructions                                                              | Moderate    | The existing church basement may provide a constraint for the ground investigation and future construction including excavations, foundations and piling. Further consideration will be required to assess the impact on the proposed design.<br><br>Hard material could potentially be processed and reused as engineered fill. Depending on formation levels, voids will need to be backfilled with engineered fill if not proposed to be used. In addition, the existing and historical structures and foundations provide a constraint for ground investigation.<br><br><u>A ground investigation required to investigate construction details of existing structures, basement to be retained, and presence / absence of historical structures.</u> |
| Variable thickness of Made Ground and unknown shallow ground conditions                                               | Damage to proposed infrastructure through settlement, insufficient bearing capacity, potential for differential settlement               | Moderate    | There is the potential for a variable thickness and composition of Made Ground and superficial deposits that will need to be considered with respect to foundation solutions and pavement/ hardstanding design.<br><br><u>A ground investigation is recommended to obtain geotechnical data on the underlying ground conditions to determine suitable geotechnical design parameters.</u>                                                                                                                                                                                                                                                                                                                                                                |
| Historical Coal Mining                                                                                                | Damage to infrastructure through settlement/collapse, insufficient bearing capacity,                                                     | Low         | No coal mining activities have been undertaken within the vicinity of the site. Furthermore, the shallowest workings are greater than 500m below ground level. A coal mining risk assessment is not considered to be required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

Baptist Church, Rochdale Road, Manchester  
Phase 1 Desk Study

| Geotechnical Hazard          | Consequence and Impacted Parties | Risk Rating | Comments                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------|----------------------------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Aggressive ground conditions | Structural damage to foundations | Moderate    | <p>Aggressive ground towards subsurface concrete can reduce its lifespan, potentially leading to undesirable effects including the chemical erosion and weakening of concrete.</p> <p><i>A ground investigation is recommended to obtain soil and groundwater samples for sulphate and pH analysis, to allow concrete design assessment to be undertaken.</i></p> |

## 8. Conclusions and Recommendations

### 8.1 Conclusions

This Phase 1 Desk Study Report has been produced to evaluate the potential risks to human health and the environment, and to identify potential geotechnical constraints associated with the potential future development at the site.

The preliminary qualitative risk assessment indicates there is generally a low to moderate risk to identified receptors from potential contaminants associated with the current and former uses of the site and surrounding area and potential Made Ground associated with the current and former development of the site.

In addition, the assessment has identified a number of potential geotechnical constraints associated with the existing structures, potential for below ground obstructions, variable thickness of Made Ground associated with the development history of the site, potential variability of the underlying superficial deposits and UXO.

### 8.2 Recommendations

It is considered that an intrusive ground investigation is required to assess for the identified contaminants of concern, to evaluate the potential contaminant linkages through soil, leachate and groundwater sampling, and enable a remediation strategy to be developed, if required. This investigation should include laboratory analysis of soil and groundwater samples for the identified contaminants of concern and a ground gas monitoring programme to confirm the ground gas regime at the site. A UXO assessment should be undertaken prior to commencing the intrusive investigation to confirm whether mitigation is required during the site investigation works.

Without prejudicing the findings of the investigation, it is anticipated that remediation may be required as part of redevelopment of the site. Once an investigation and risk assessment has been completed, a remediation strategy will need to be developed to address the potential risks identified. It is anticipated that pre-commencement planning conditions would be imposed on future development with respect to site investigation, risk assessment, remediation strategy and verification.

In addition, the ground investigation should be designed to evaluate the potential geotechnical risks associated with potential development and to determine geotechnical design parameters for construction of buildings, structures, pavements, car parks and roads, and design of underground services.

Appendix A  
Site Walkover Record and Photographs

**Project Name:** Baptist Church, Rochdale Road, Manchester

**Address:** Baptist Church, Rochdale Road, Manchester, M4 4HT

**Job Number:** 51078

**Date:** 11/04/2024

**Engineer:** Chris Pratt

**Weather:** Partially Sunny

## Site Layout Plan



| Site Access                                                    |                                                                                                                                               |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Pedestrian Access                                              | The site is accessible from the southeast and northeast, via Rochdale Road and Sharp Street respectively.                                     |
| Vehicular Access                                               | Vehicle access is possible from Sharp Street into the associated carpark.                                                                     |
| Parking Arrangements                                           | Parking available onsite.                                                                                                                     |
| Restrictions                                                   | Limited vehicular access to site due to bollards – max width approximately 7m off Sharp Street, 3m off Dyche Street.                          |
| Access for Site Investigation (Drilling Rigs, Excavators etc.) | Good external access (no height restrictions)                                                                                                 |
| Surface Covering                                               |                                                                                                                                               |
| Type of Cover                                                  | Carpark area is tarmac, areas to the southeast and northeast the Baptist Church comprise of paving slabs whilst to the southwest is concrete. |
| Quality of Cover                                               | Typically good, appears some repairs have been done. Weeds growing through cracks between paving slabs                                        |
| Evidence of Existing Boreholes                                 | None observed                                                                                                                                 |
| Topography                                                     |                                                                                                                                               |
| Flat / Sloping / Stepped etc.                                  | Flat – profile across the site (southwest to northeast) drops by approx. 1m                                                                   |
| Evidence of Subsistence                                        | None observed                                                                                                                                 |
| Significant Slopes                                             | Small slope (c. 0.5m) between carpark and Baptist Church paving                                                                               |
| Local Depressions                                              | None observed                                                                                                                                 |
| Vegetation                                                     |                                                                                                                                               |
| Trees (Type & Estimated Height)                                | None observed                                                                                                                                 |
| Other Vegetation                                               | Minor vegetation (weeds) noted in between paving slabs                                                                                        |
| Japanese Knotweed                                              | No obvious evidence noted.                                                                                                                    |
| Giant Hogweed                                                  | No obvious evidence noted.                                                                                                                    |
| Himalayan Balsam                                               | No obvious evidence noted.                                                                                                                    |

|                                                                                 |                                                                                                                                                                 |
|---------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signs of Stressed Vegetation / Poor Growth / Disease                            | N/A                                                                                                                                                             |
| <b>Services</b>                                                                 |                                                                                                                                                                 |
| Location and Details of Manhole Covers, Wells, Marker Pegs                      | No major covers observed, rainwater downpipes re-enter the building or outfall into gullies in the paving slabs.                                                |
| Overhead Services                                                               | Telecommunication overhead services to the northwest of the site along Dyche Street. Broken and or disconnected.                                                |
| Water Supply                                                                    | Unknown                                                                                                                                                         |
| <b>Buildings and Structures</b>                                                 |                                                                                                                                                                 |
| Number, Height, Construction Material, Roof Construction Material               | One two storey Baptist Church of red brick and white render construction. Roof comprises of slate tiles                                                         |
| Current Uses                                                                    | Currently vacant Baptist Church and carparking                                                                                                                  |
| Evidence of Subsistence / Cracking / Water Damage                               | Building in poor state of repair, not signs of significant damages.                                                                                             |
| Presence of Potential Asbestos Containing Material (ACM)                        | N/A                                                                                                                                                             |
| Existing Foundations                                                            | N/A                                                                                                                                                             |
| Existing Basements / Cellars                                                    | Basement areas present beneath the north and the northeastern portion of the church, accessed via stairs from the carpark or at street level from Dyche Street. |
| <b>Surface Water and Groundwater</b>                                            |                                                                                                                                                                 |
| Evidence of Flooding                                                            | None observed.                                                                                                                                                  |
| Evidence of High Water Table                                                    | None observed.                                                                                                                                                  |
| Rivers, Springs, Wells, Ponds, Ditches, Streams (incl. Flow Direction and Size) | None observed.                                                                                                                                                  |
| <b>Potential Sources of Contamination</b>                                       |                                                                                                                                                                 |
| Fly Tipped Material                                                             | N/A                                                                                                                                                             |
| Evidence of Filled Ground                                                       | N/A                                                                                                                                                             |
| Evidence of Tanks (USTs, ASTs, Interceptors, Pipework) incl. Fuel Spillages     | N/A                                                                                                                                                             |

|                                                                                          |                                                                                                                                           |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Stored Substances                                                                        | N/A                                                                                                                                       |
| Electricity Substations                                                                  | N/A                                                                                                                                       |
| Other Identified Potential Sources                                                       | N/A                                                                                                                                       |
| <b>Surrounding Land Use</b>                                                              |                                                                                                                                           |
| Residential / Commercial / Industrial<br>incl. Type of Industry / Commercial<br>Activity | Residential to the north and south with commercial (hotel) to the east.<br>West of the site is vacant land currently used as car parking. |
| Railways / Viaducts / Bridges                                                            | N/A                                                                                                                                       |
| Tunnels                                                                                  | N/A                                                                                                                                       |
| Other Identified Pertinent Uses                                                          | N/A                                                                                                                                       |
| <b>Anecdotal Information</b>                                                             |                                                                                                                                           |
| Tenants / Landowners / Client                                                            | N/A                                                                                                                                       |
| Neighbours / Locals                                                                      | N/A                                                                                                                                       |
| <b>Other Comments</b>                                                                    |                                                                                                                                           |
| N/A                                                                                      |                                                                                                                                           |

**Project Name:** Baptist Church, Rochdale Road, Manchester

**Address:** Baptist Church, Rochdale Road, Manchester, M4 4HT

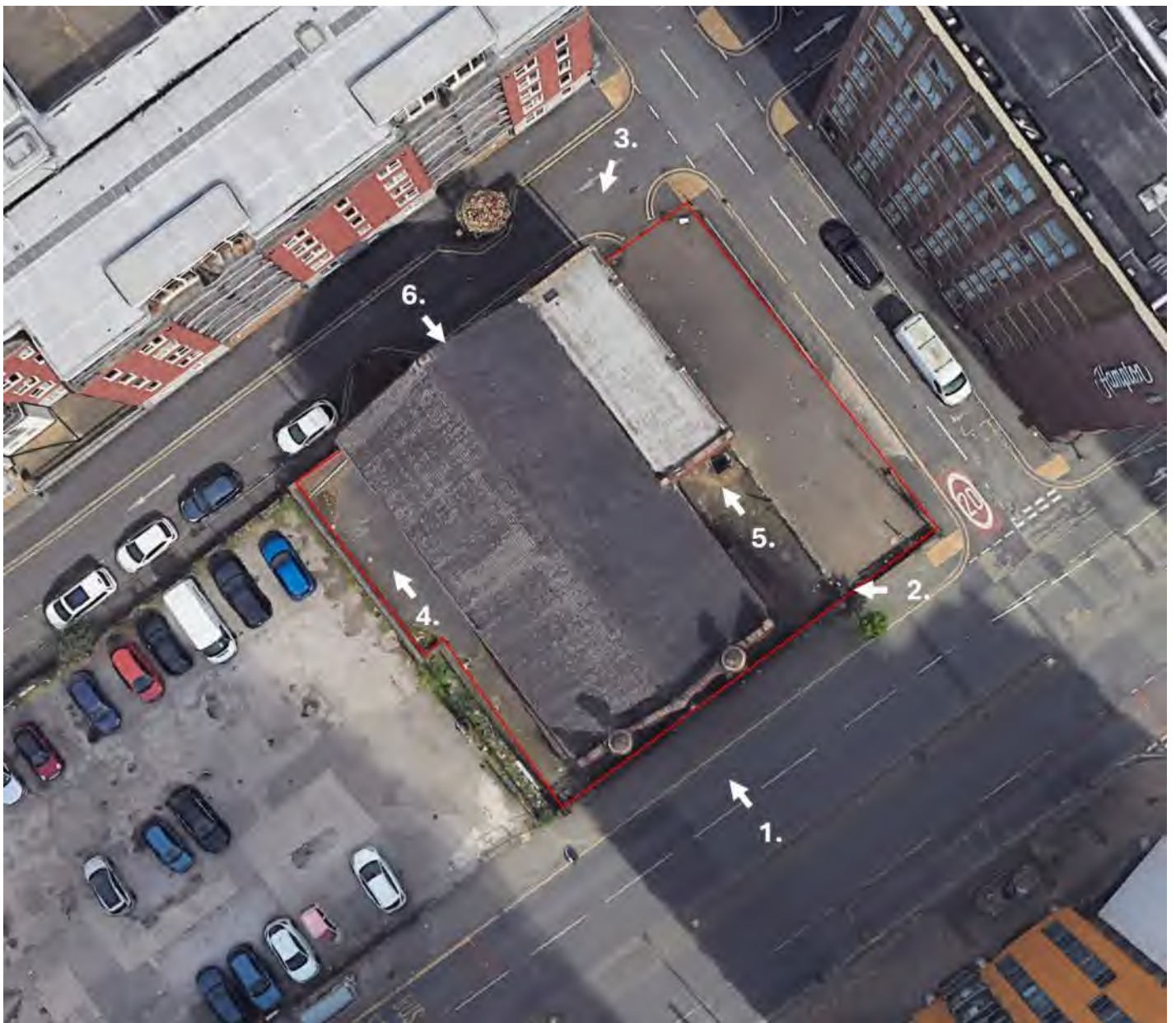
**Job Number:** 51078

**Date:** 11/04/2024

**Engineer:** Chris Pratt

**Weather:** Partially Sunny

### Photo Location Plan (External)



Site Photos (External)



1. Front of church off Rochdale Road



2. Southeast of site (looking northwest)



3. Northeast of site (looking southwest)



4. Concrete paving west of church



5. Basement access (down) and side access to church



6. Basement void beneath the northeast of the church

**PARTICULAR BAPTIST CHAPEL,  
ROCHDALE ROAD,  
MANCHESTER.**

ACCOMMODATION FOLIO NO. 11294.  
GROUND FLOOR SEATS 305 ADULTS  
GALLERY " 196  
TOTAL 501 ADULTS.

**BASEMENT PLAN.**

**GALLERY PLAN.**

7039  
J. W. Wills & Sons  
Architects & Surveyors  
Victoria Chambers,  
Derby.

INNER DOORS TO BE  
UP DOORS  
JERAPUR  
GROUND PLAN.

SCALE 1" = 10' FEET.

Site Photos (Internal)



7. Ground floor entrance off Rochdale Road.



8. Ground floor side entrance (see picture 5 for external)



9. Ground floor hall entrance area.



10. Ground floor of church hall.



11. Mezzanine floor of church hall.



12. Mezzanine dining room.

## Appendix B

### Historical Maps

#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** 1056 Scale Town Plan

**Map date:** 1850

**Scale:** 1:1,056

**Printed at:** 1:1,056



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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series Town Plan

**Map date:** 1891

**Scale:** 1:500

**Printed at:** 1:1,000



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Revised N/A  
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Surveyed 1891  
Revised N/A  
Edition 1891  
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0 50m

#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1892-1893

**Scale:** 1:2,500

**Printed at:** 1:2,500



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Edition 1892  
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Revised N/A  
Edition 1893  
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Levelled N/A

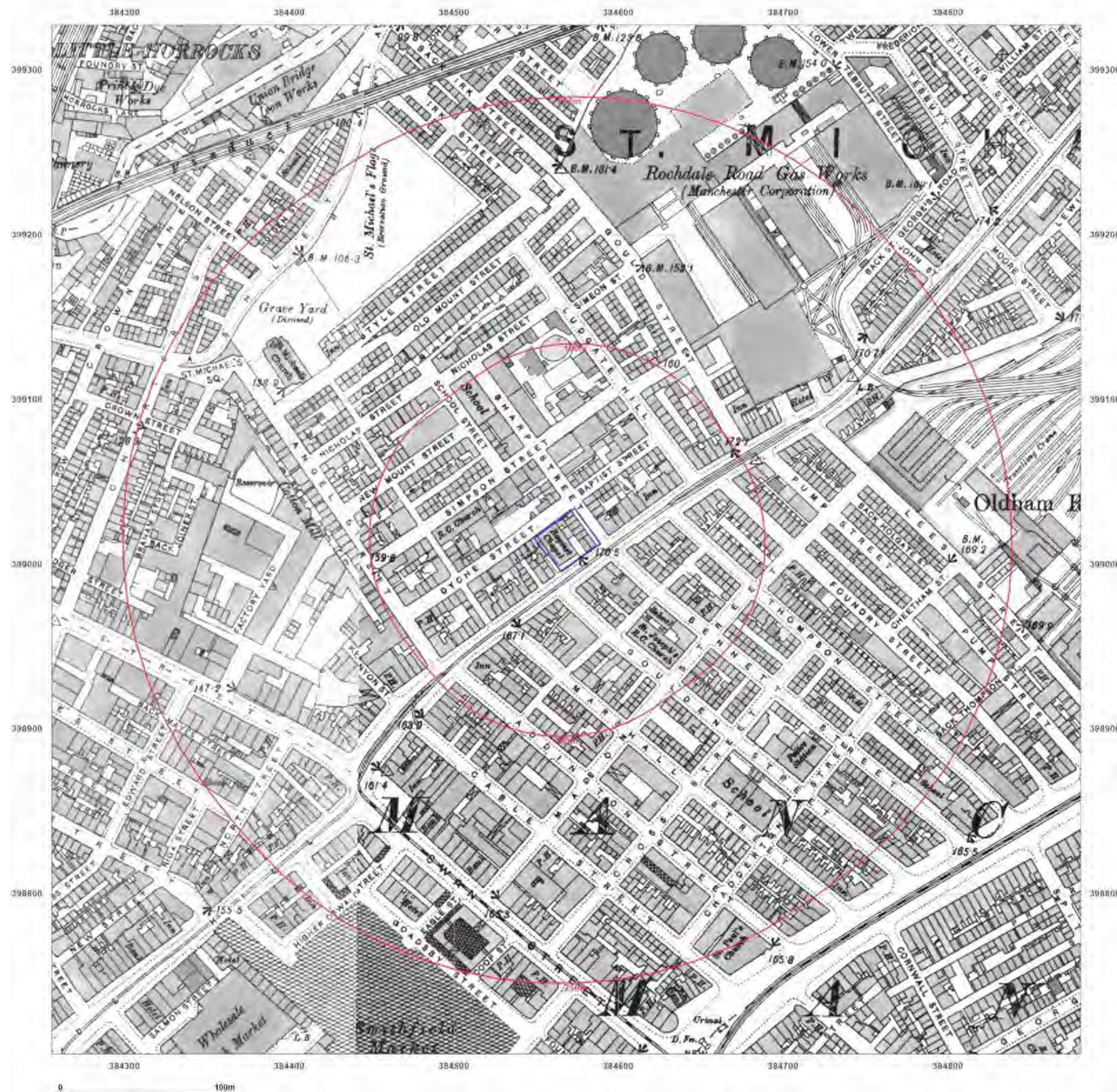


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1908

**Scale:** 1:2,500

**Printed at:** 1:2,500



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Edition 1908  
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Revised 1905  
Edition 1908  
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Levelled N/A

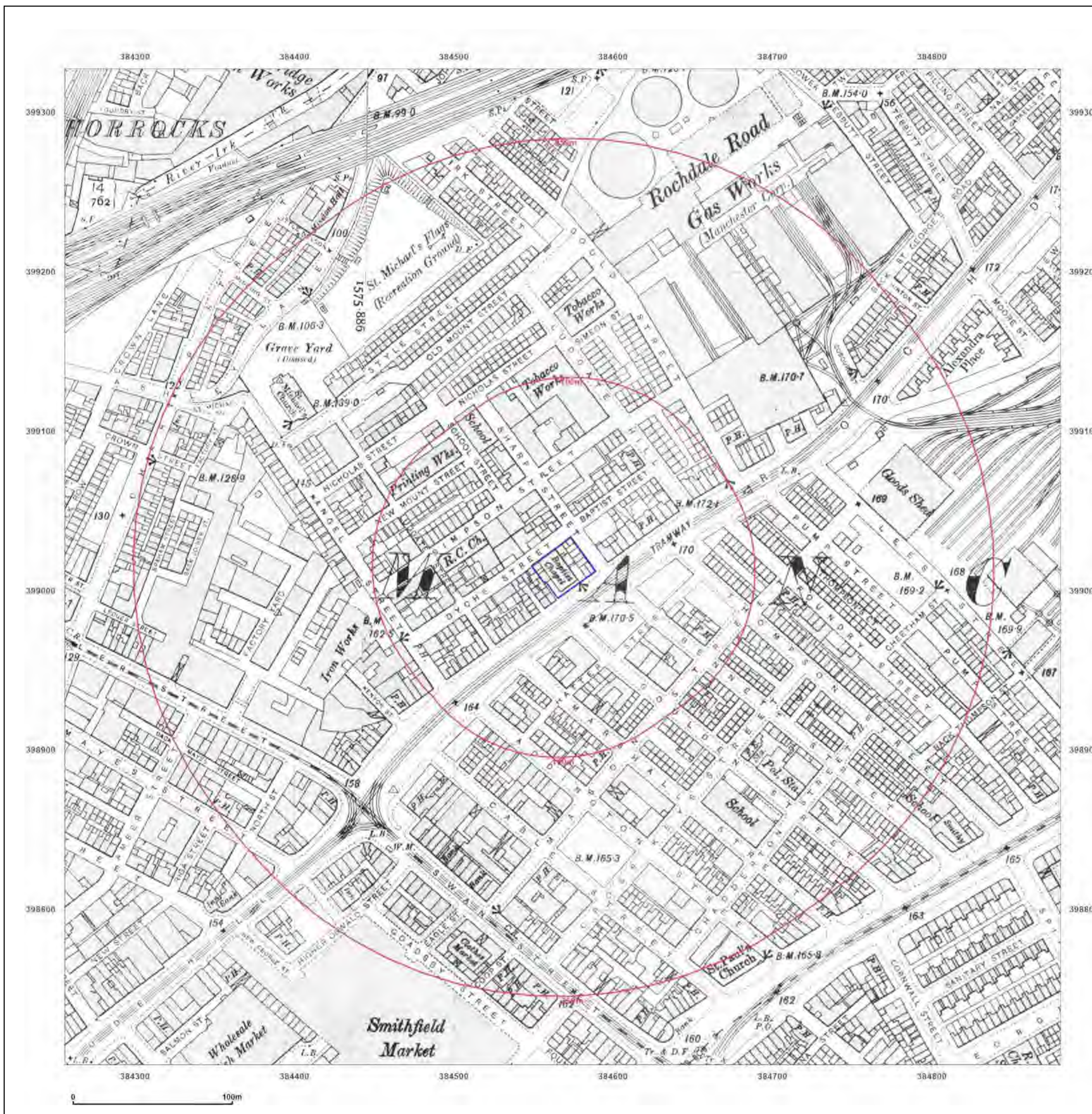


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1922

**Scale:** 1:2,500

**Printed at:** 1:2,500



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Edition 1922  
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Edition 1922  
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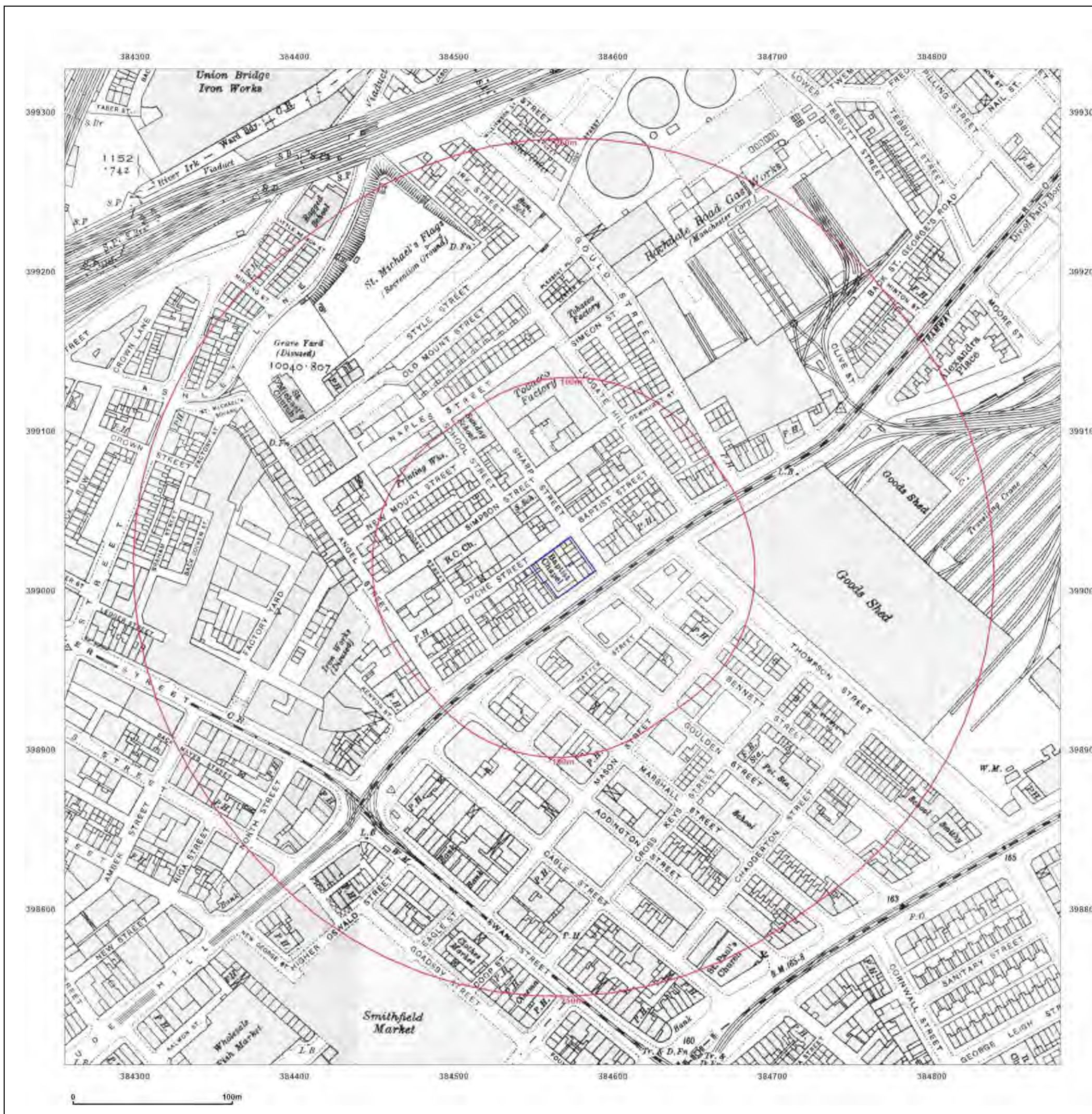


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1931-1933

**Scale:** 1:2,500

**Printed at:** 1:2,500



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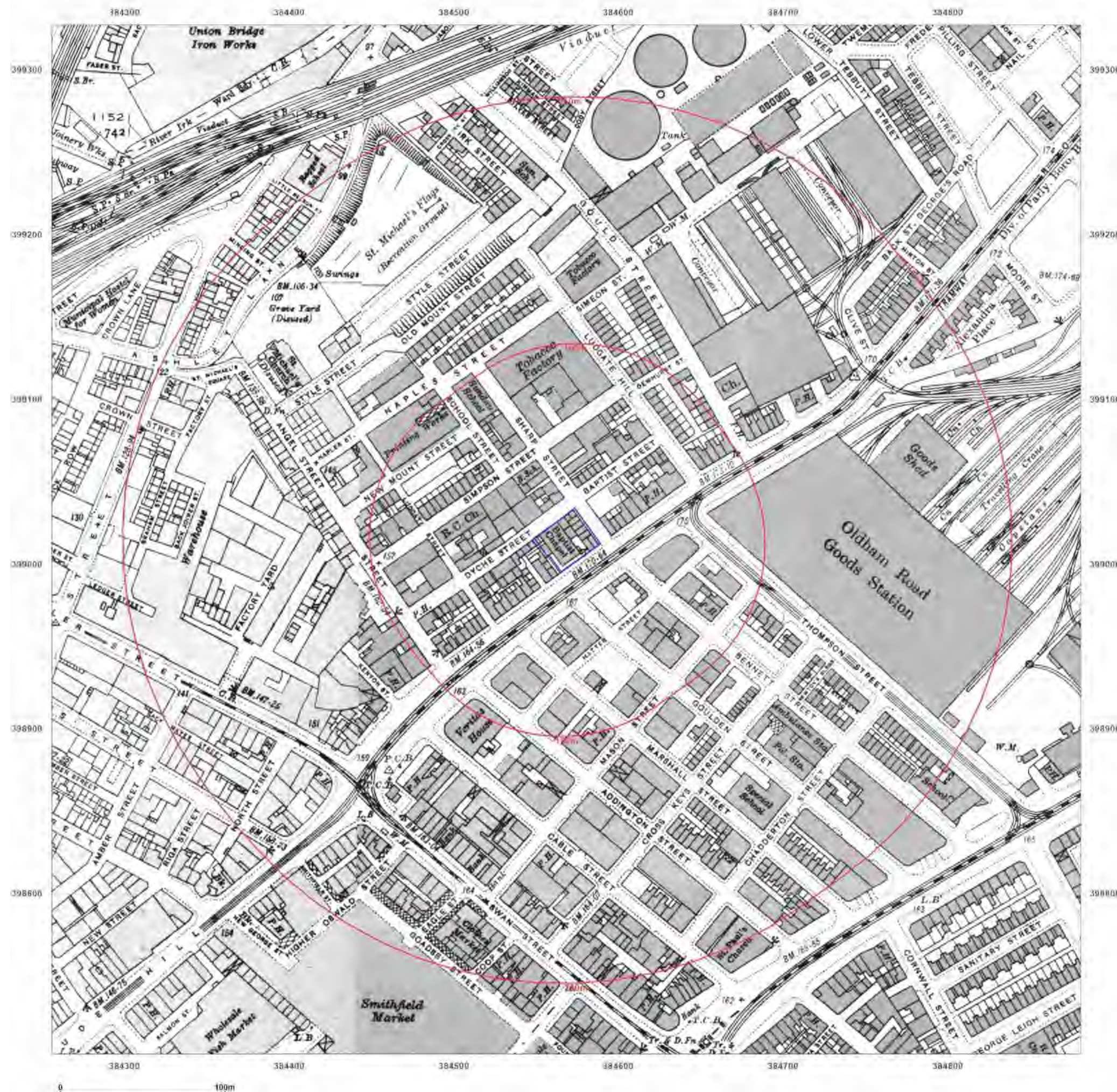


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

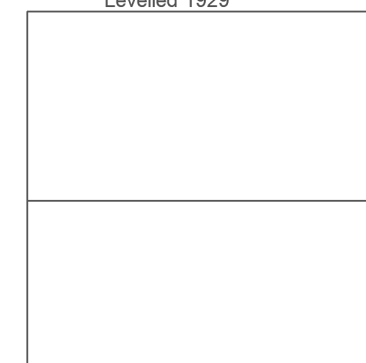
**Map date:** 1949

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1949  
Revised 1949  
Edition N/A  
Copyright 1950  
Levelled 1929

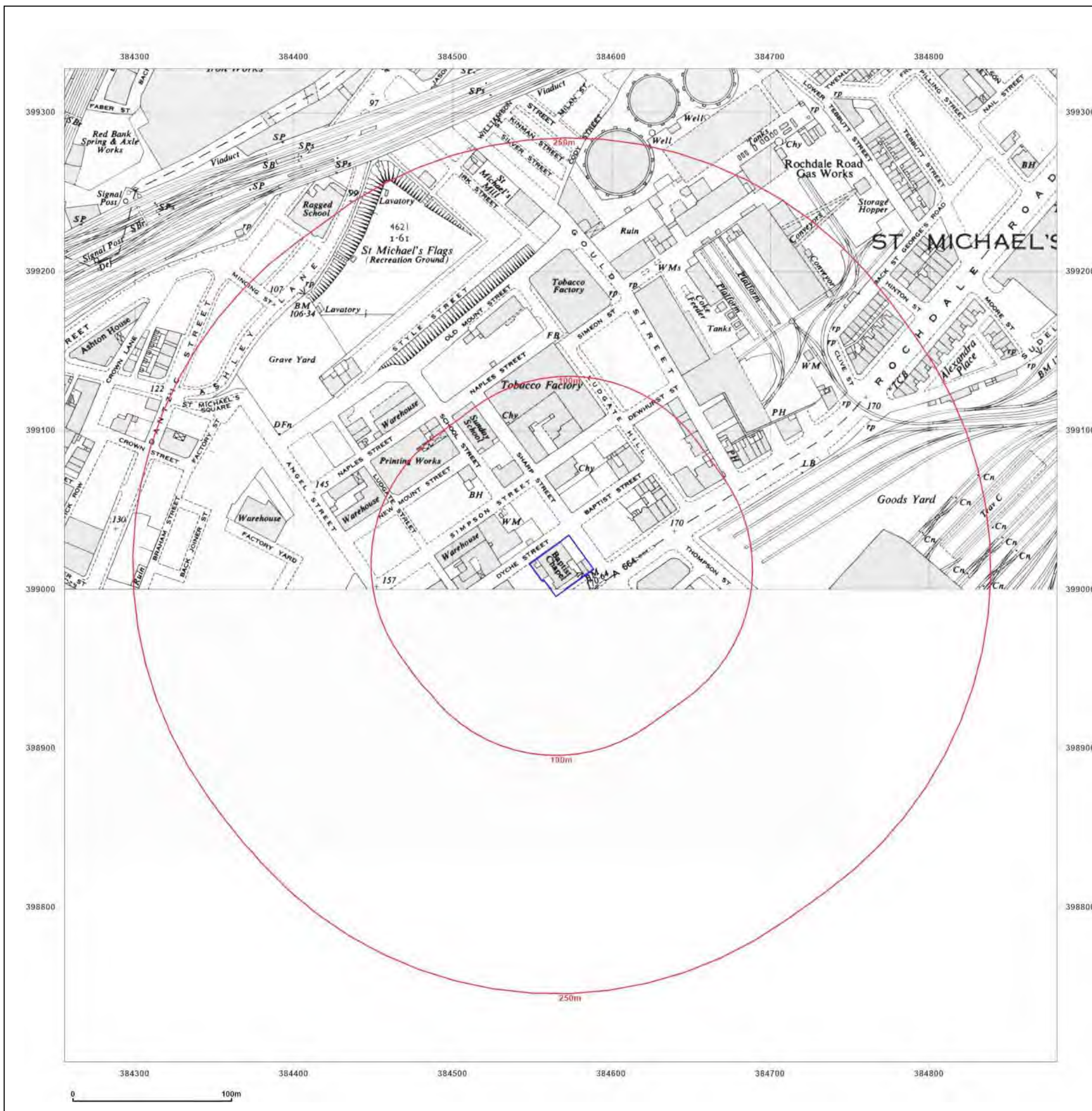


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1951-1952

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1952  
Revised 1952  
Edition N/A  
Copyright 1952  
Levelled 1929

Surveyed 1952  
Revised 1952  
Edition N/A  
Copyright 1952  
Levelled 1929

Surveyed 1951  
Revised 1951  
Edition N/A  
Copyright 1951  
Levelled 1929

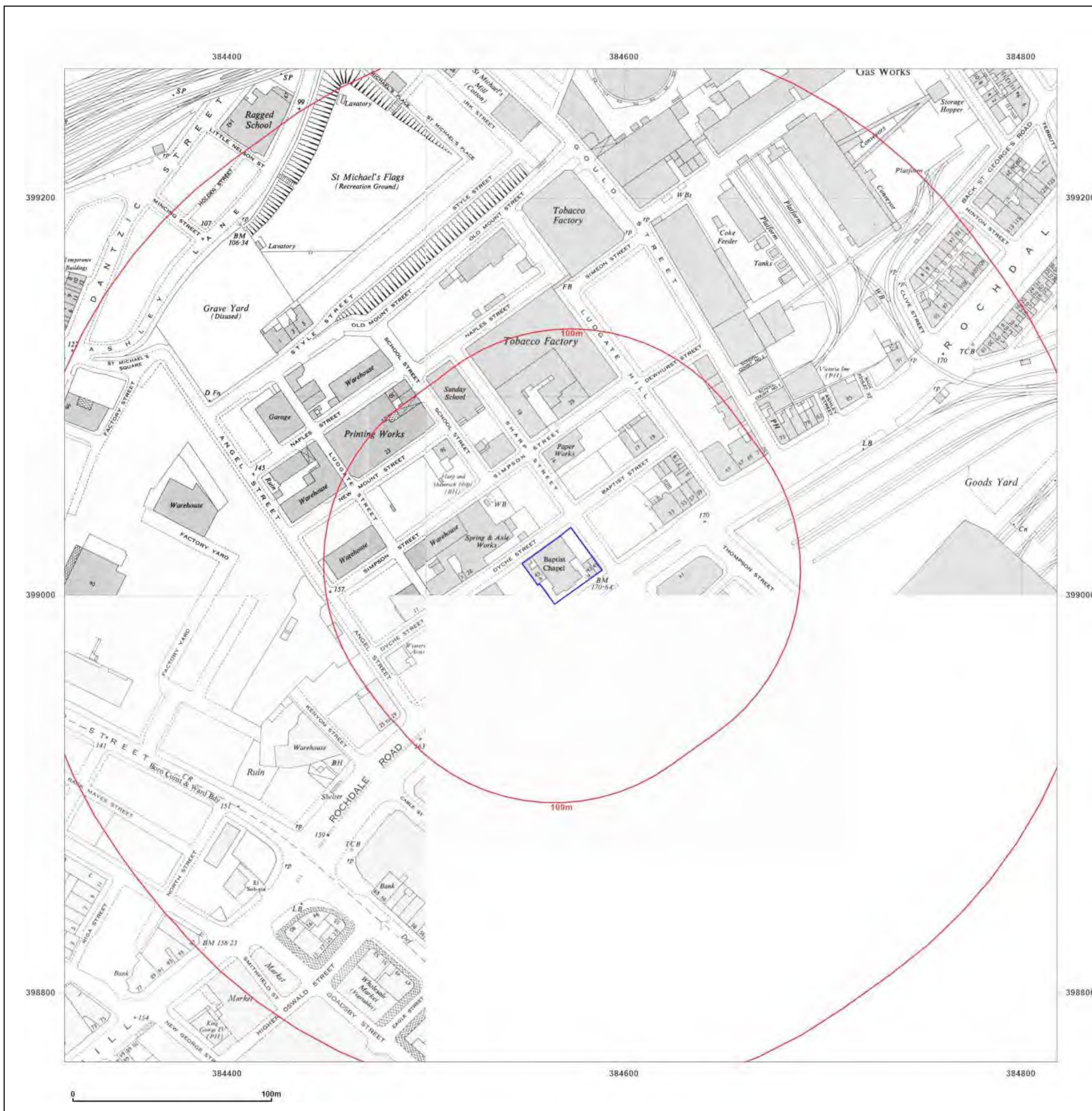


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

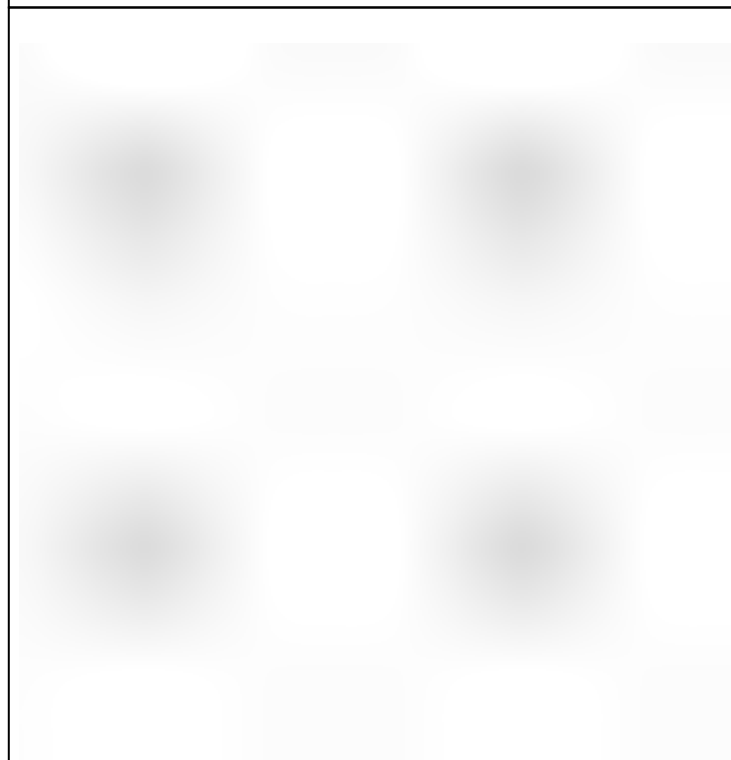
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**Report Ref:** GS-ZBR-U6I-NIA-S5G  
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**Map Name:** National Grid

**Map date:** 1948-1953

**Scale:** 1:1,250

**Printed at:** 1:2,000

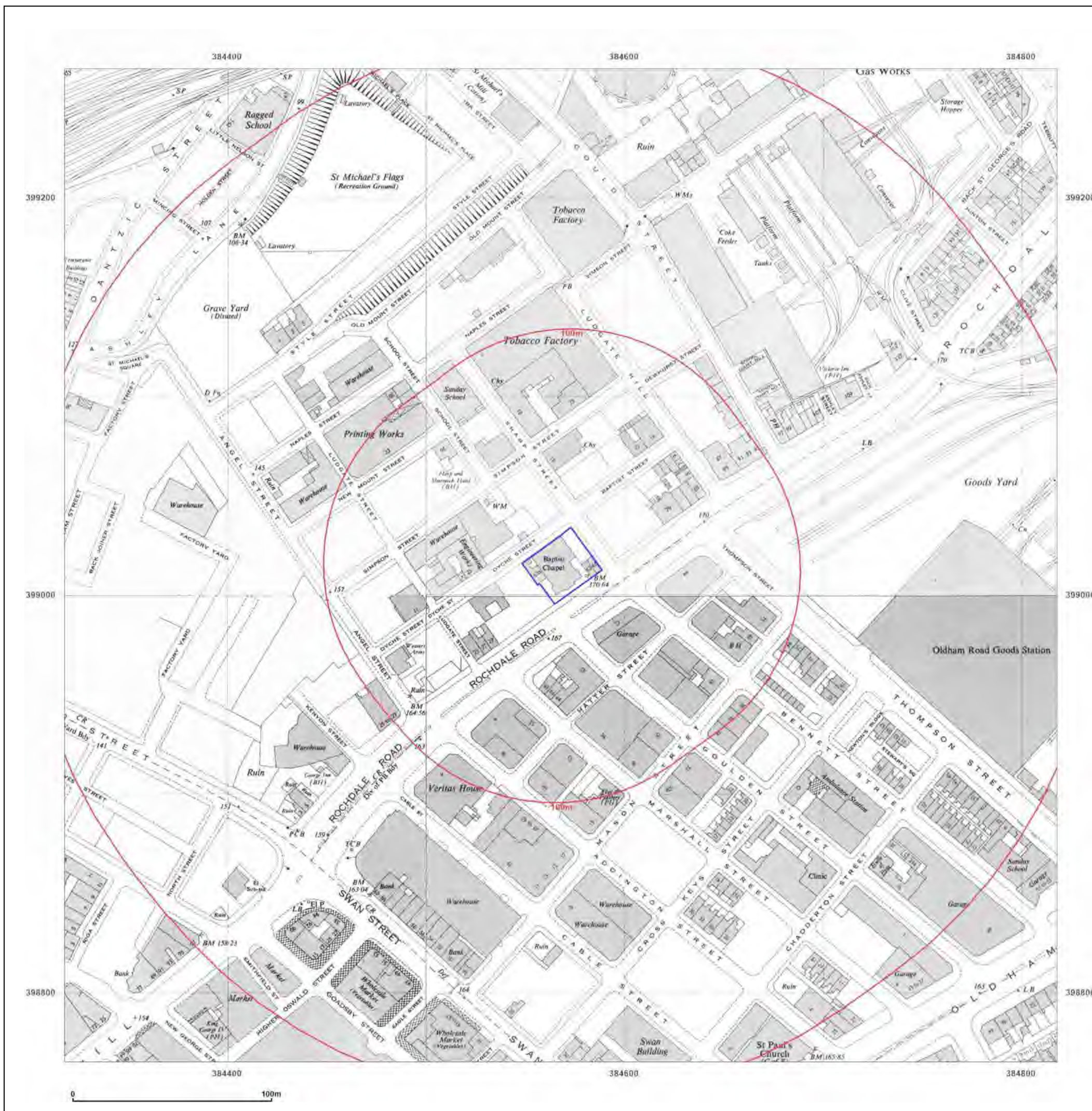


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1952-1953

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1952  
Revised 1952  
Edition N/A  
Copyright 1953  
Levelled 1929

Surveyed 1948  
Revised 1948  
Edition N/A  
Copyright 1954  
Levelled 1929

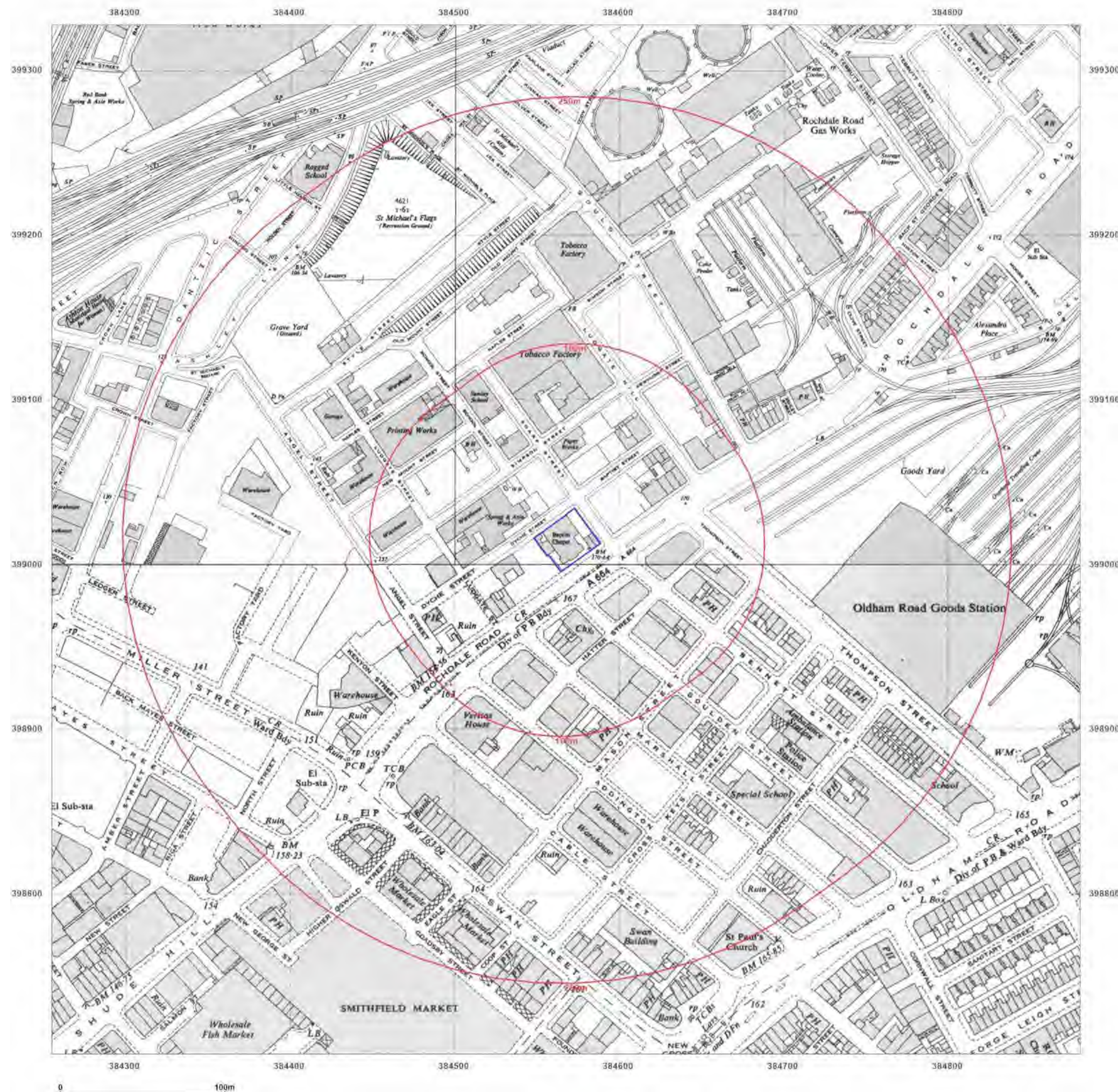


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1953-1958

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1958  
Revised 1958  
Edition N/A  
Copyright 1959  
Levelled 1929

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

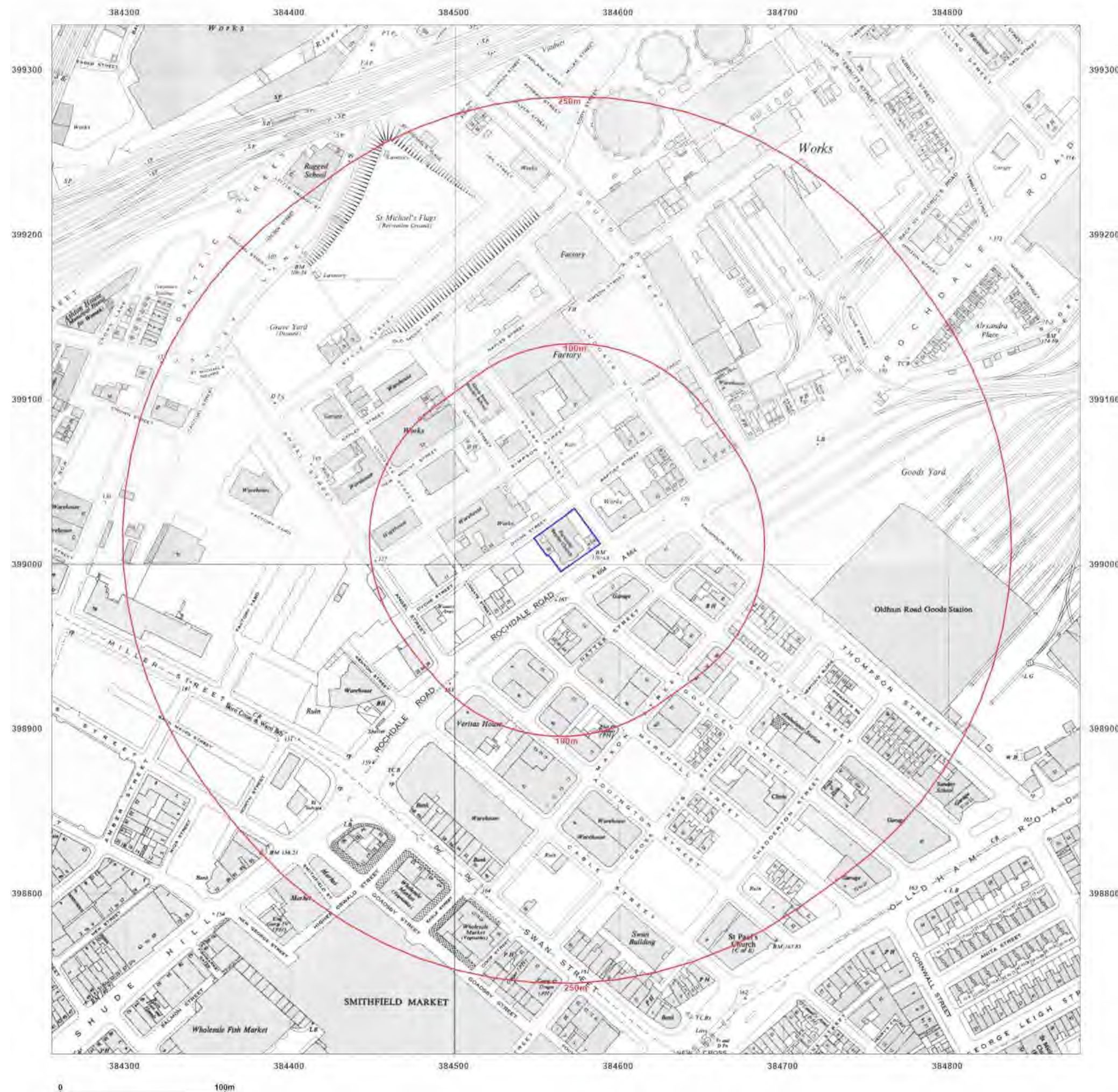


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
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**Map Name:** National Grid

**Map date:** 1958-1963

**Scale:** 1:1,250

**Printed at:** 1:2,000

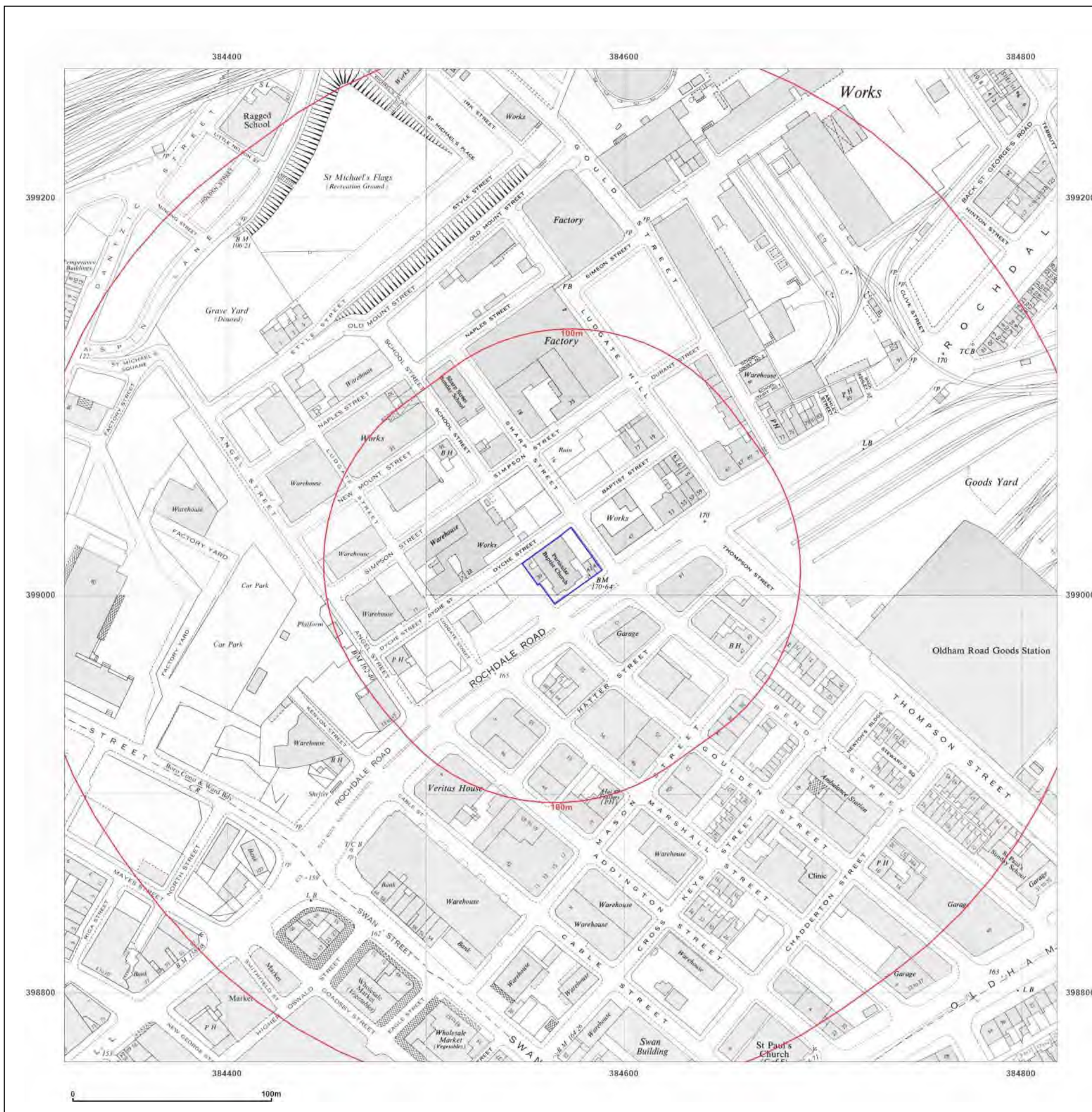


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1964-1965

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1964  
Revised 1964  
Edition N/A  
Copyright 1966  
Levelled 1964

Surveyed N/A  
Revised 1964  
Edition N/A  
Copyright 1965  
Levelled 1959

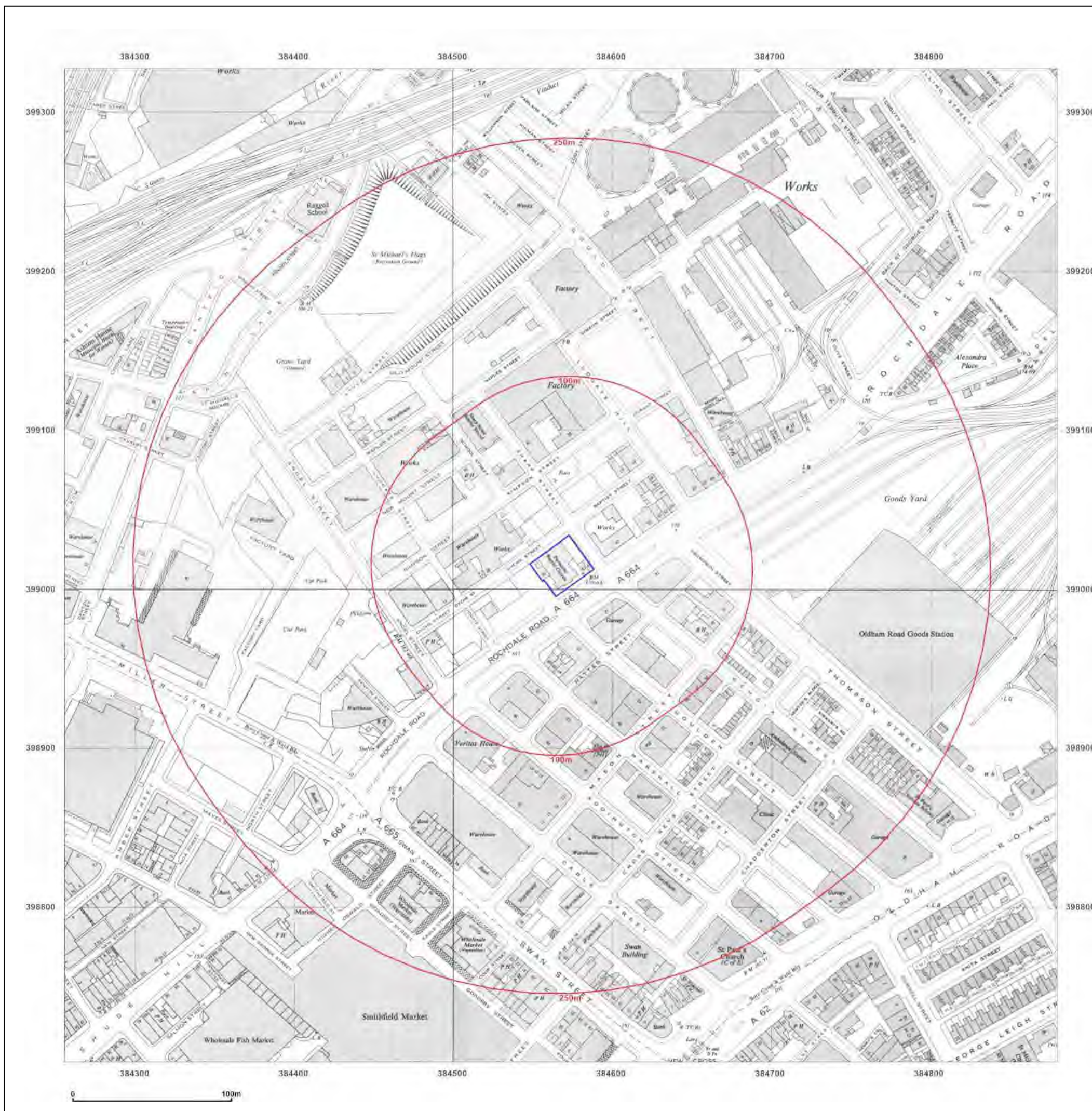


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**Site Details:**

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1967

**Scale:** 1:2,500

**Printed at:** 1:2,500



Surveyed 1967  
Revised 1967  
Edition N/A  
Copyright 1969  
Levelled 1964

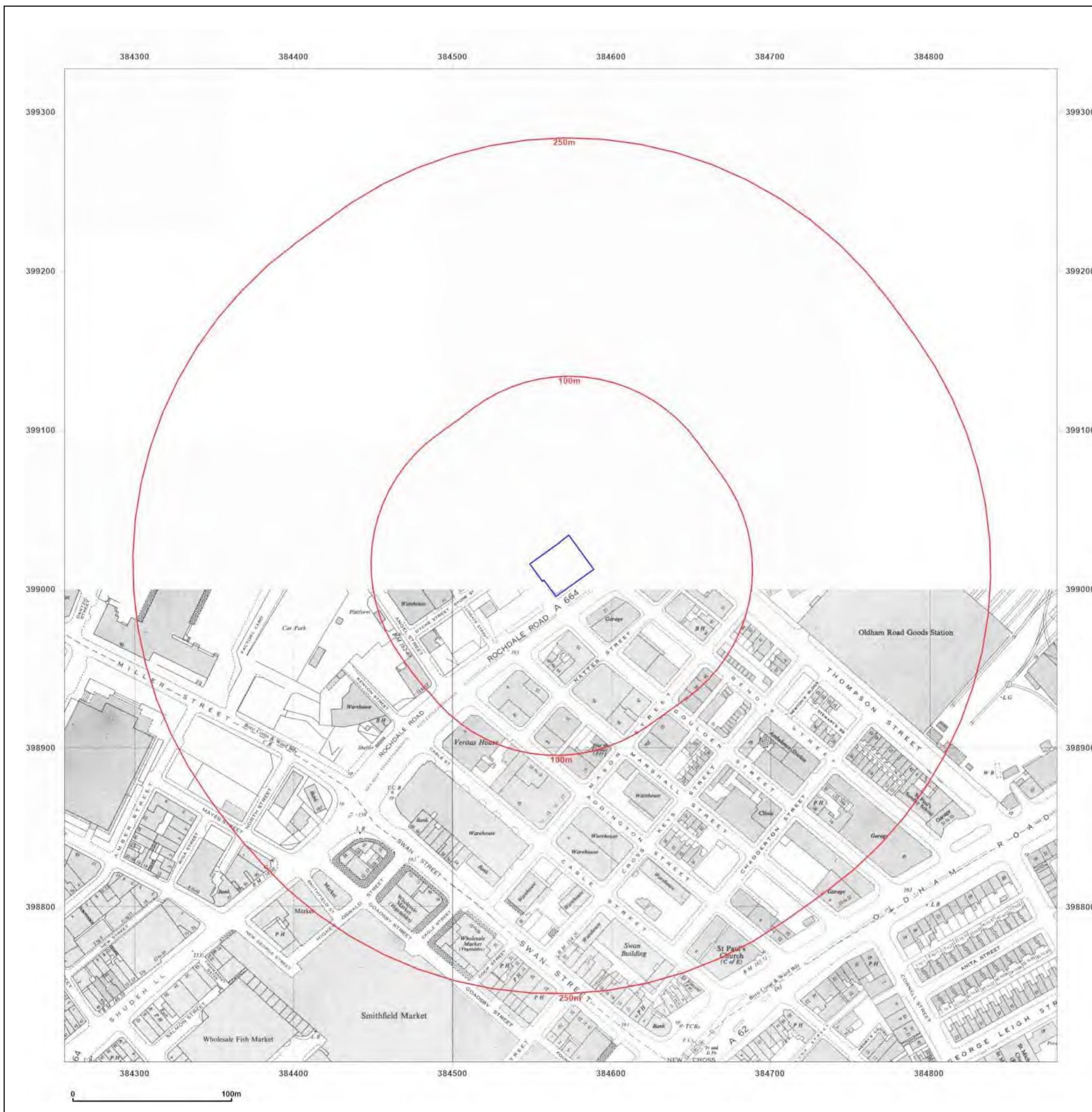


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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1969

**Scale:** 1:2,500

**Printed at:** 1:2,500



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

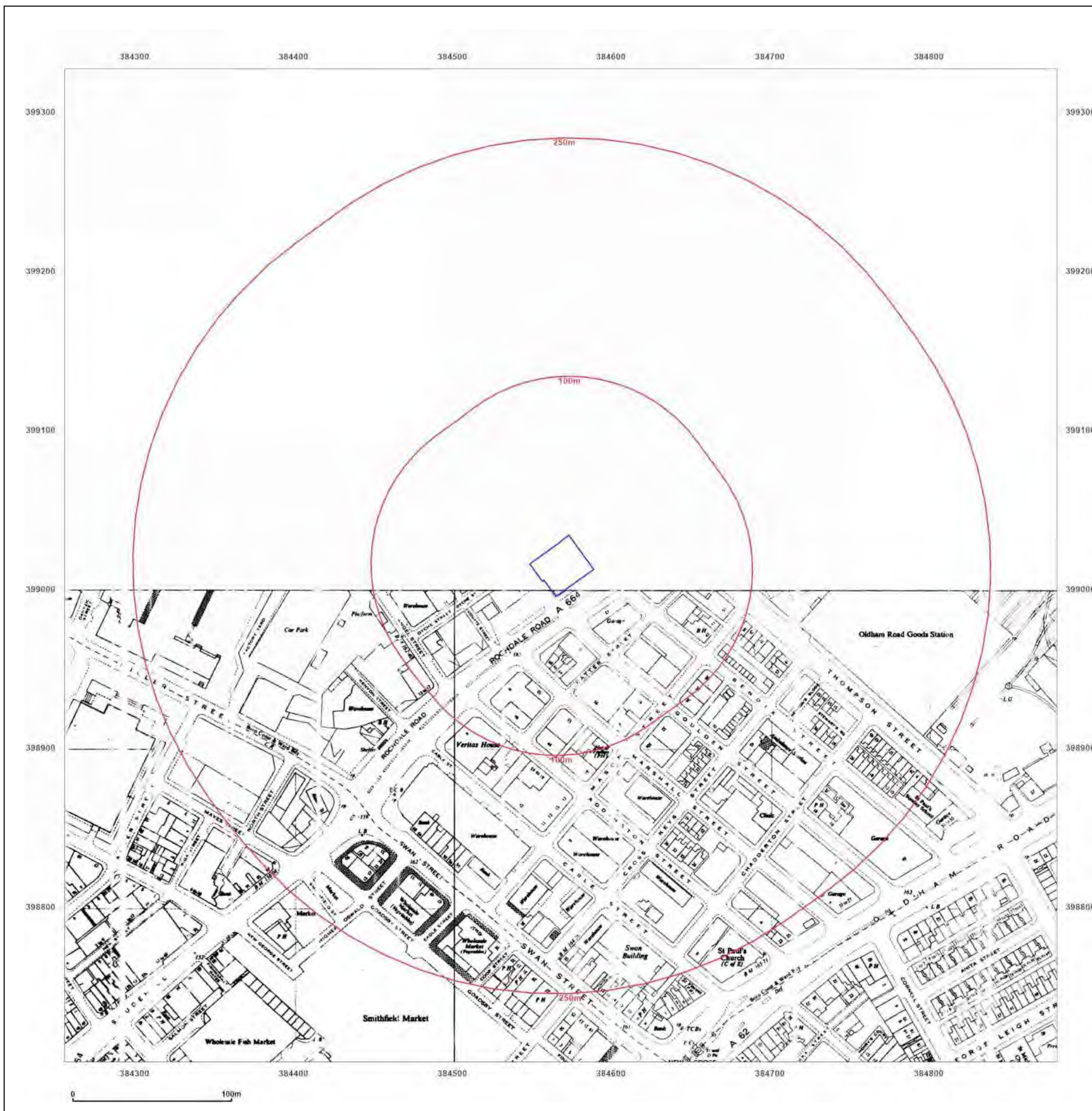


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#### Site Details:

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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

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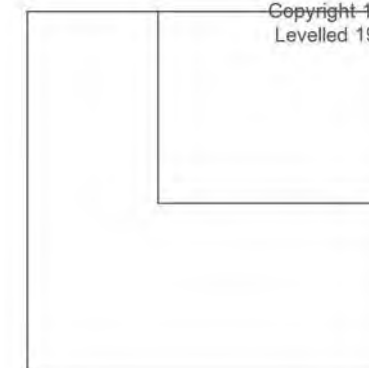
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Surveyed 1949  
Revised 1969  
Edition N/A  
Copyright 1970  
Levelled 1964

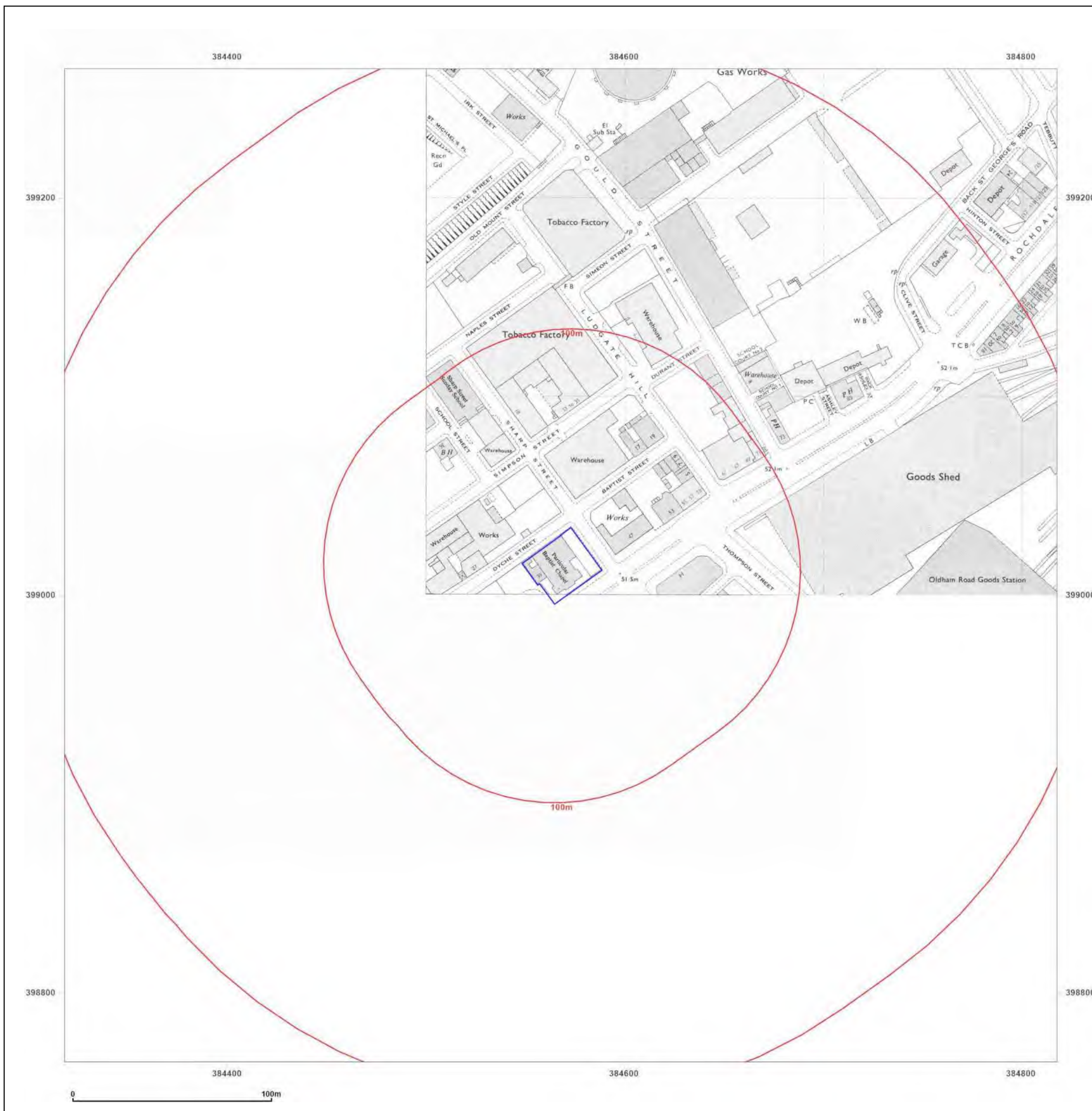


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1978-1980

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed N/A  
Revised N/A  
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Levelled N/A

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Revised N/A  
Edition N/A  
Copyright 1980  
Levelled 1964



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**Site Details:**

Baptist Church, Rochdale Road,  
Manchester

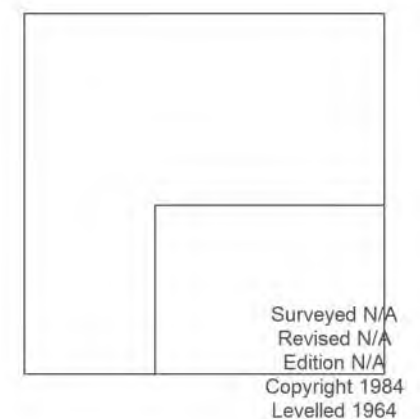
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**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1984

**Scale:** 1:1,250

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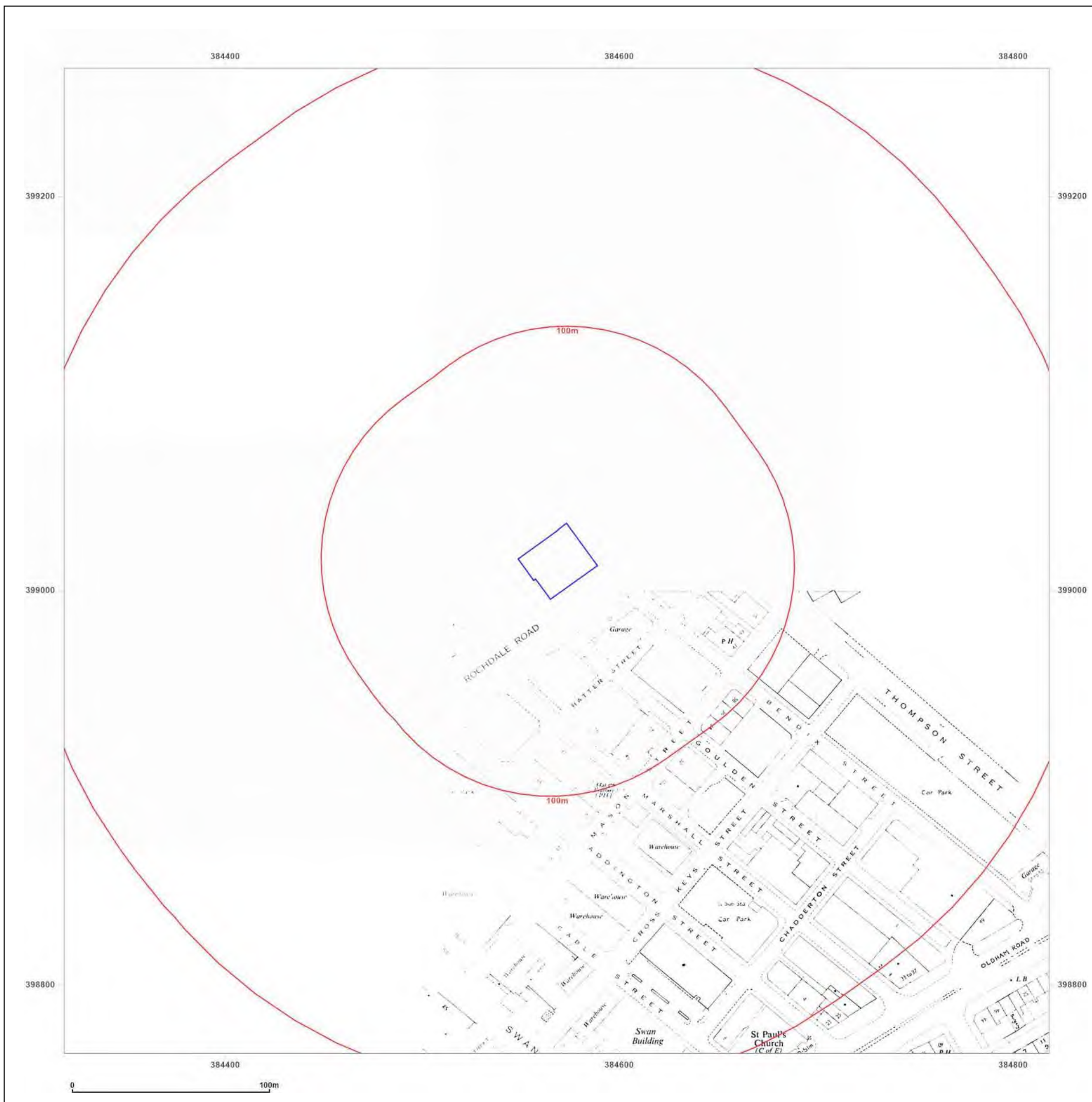


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1984-1988

**Scale:** 1:1,250

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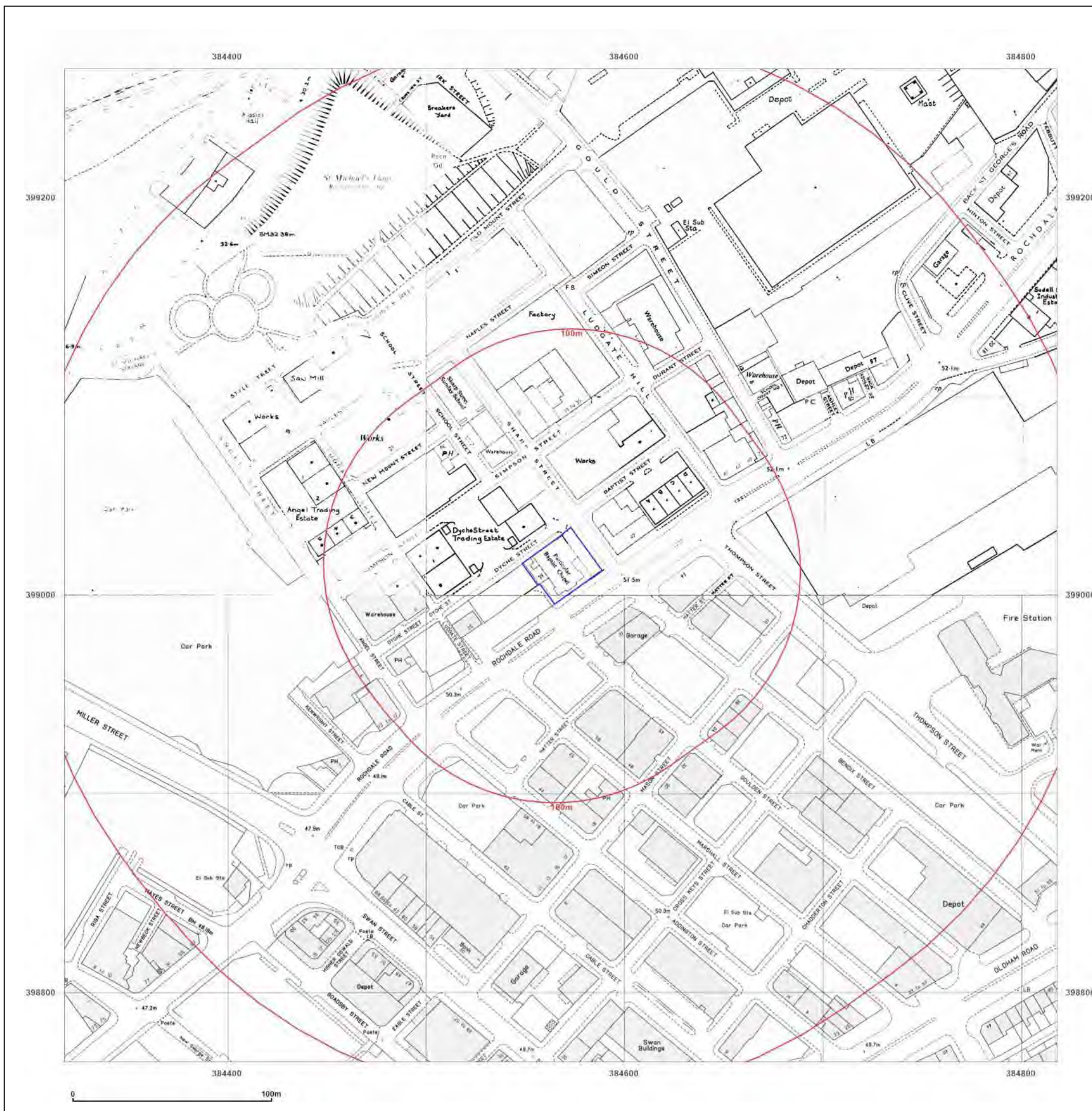


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1989-1992

**Scale:** 1:1,250

**Printed at:** 1:2,000

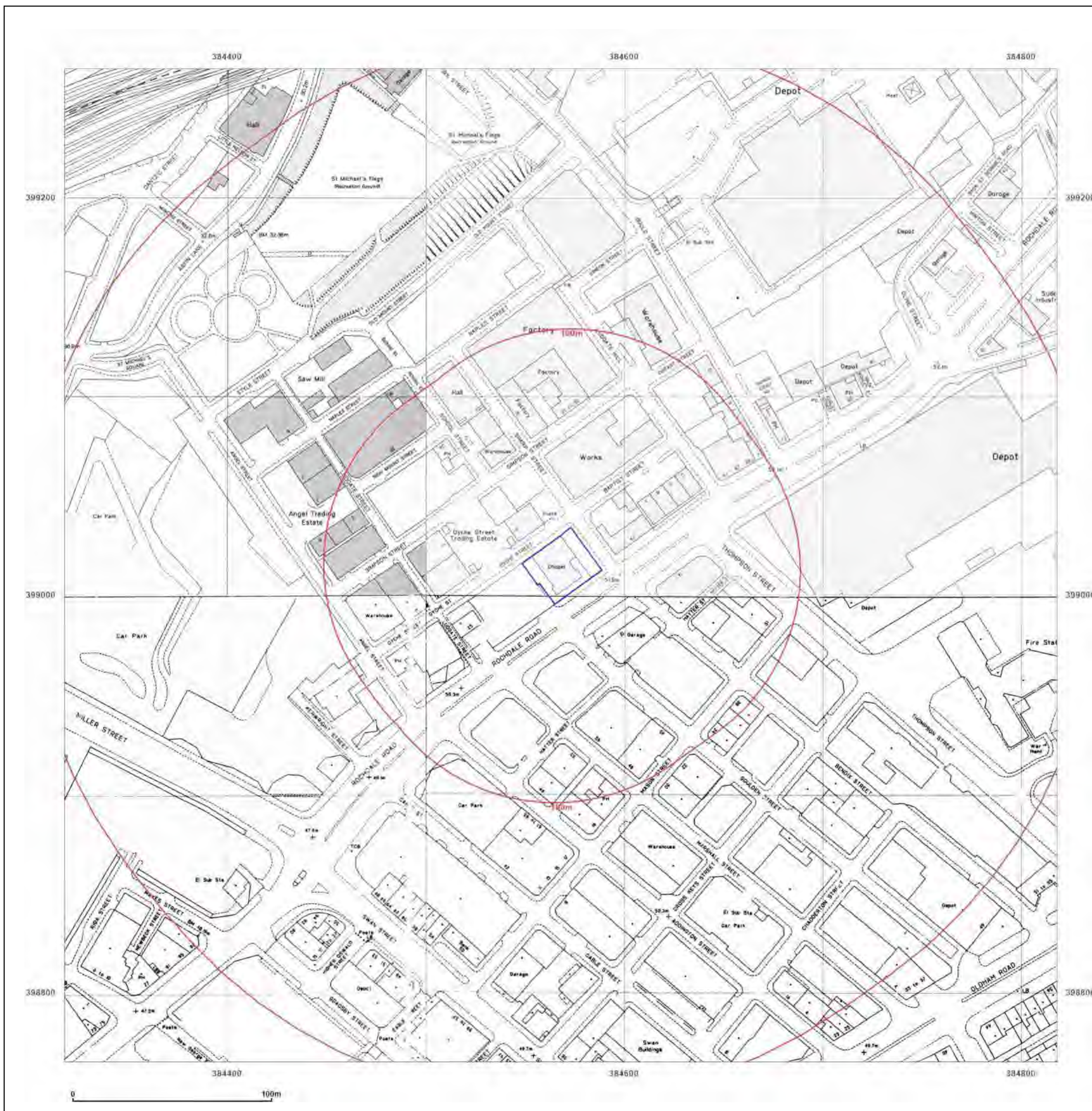


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#### Site Details:

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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1994

**Scale:** 1:1,250

**Printed at:** 1:2,000



Surveyed 1994  
Revised 1994  
Edition N/A  
Copyright 1994  
Levelled N/A

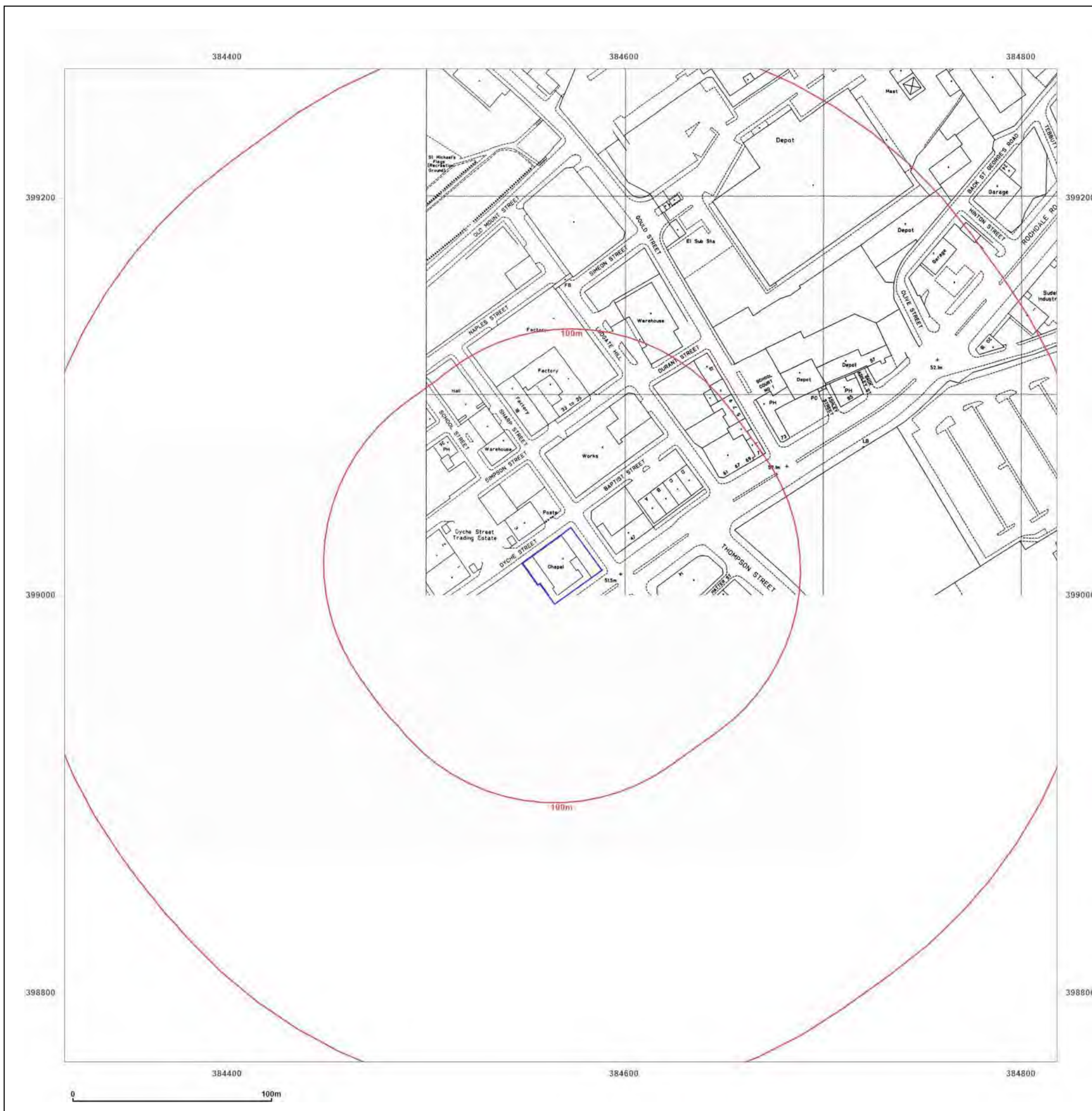


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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1990-1995

**Scale:** 1:1,250

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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1992-1995

**Scale:** 1:1,250

**Printed at:** 1:2,000



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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
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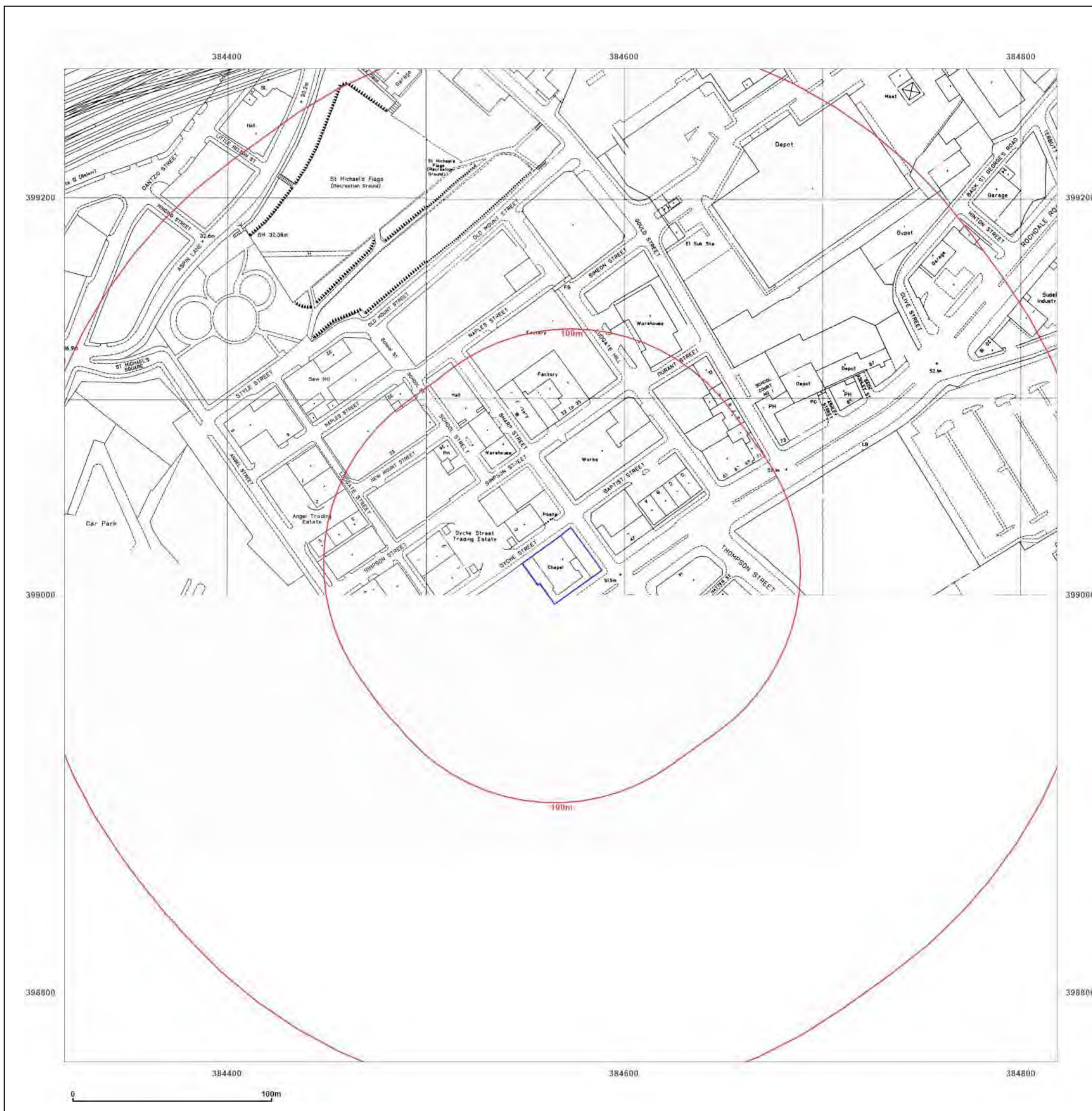


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**Site Details:**

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

**Printed at:** 1:1,250



2003



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#### Site Details:

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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1848

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

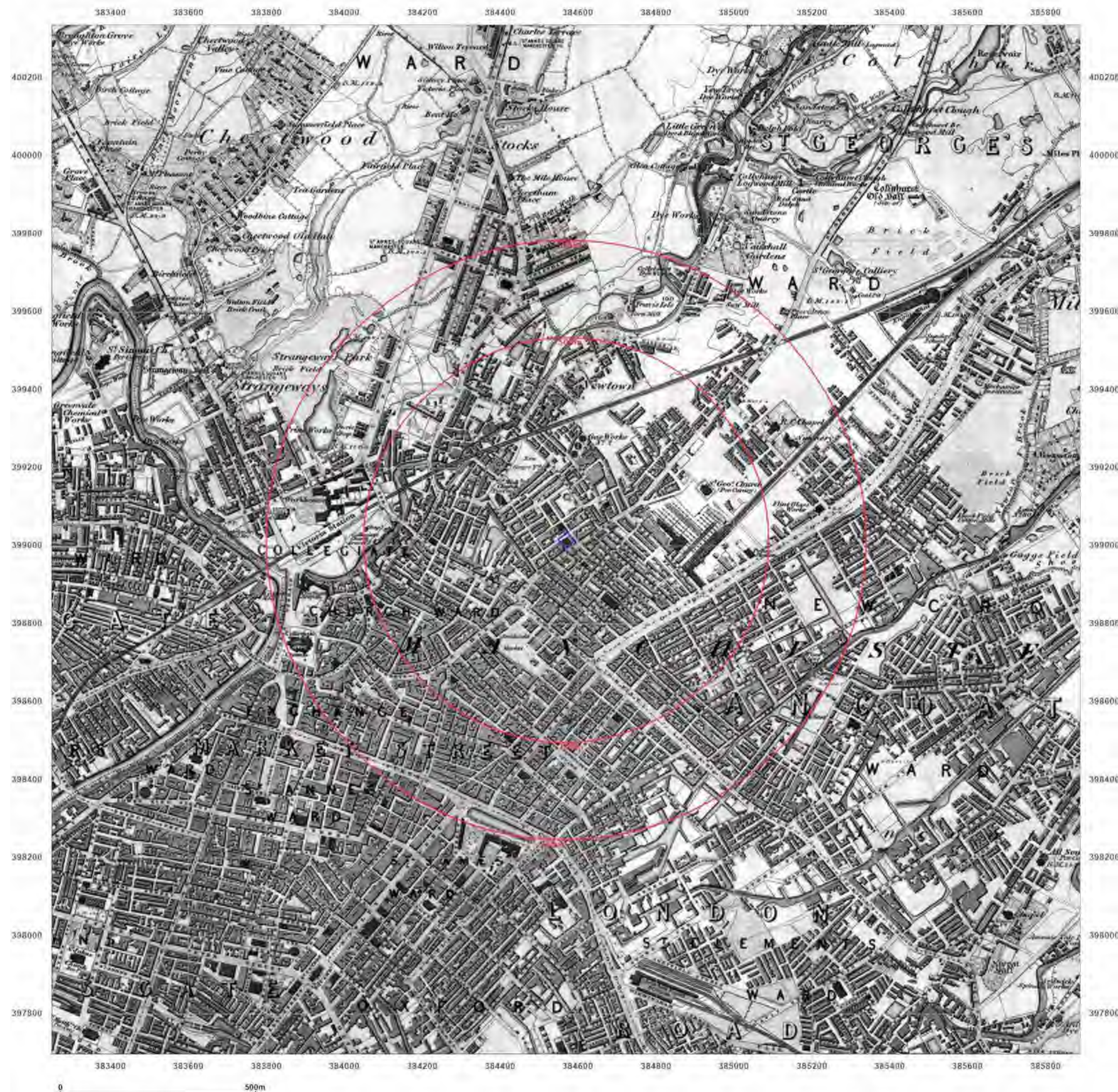


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**Site Details:**

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

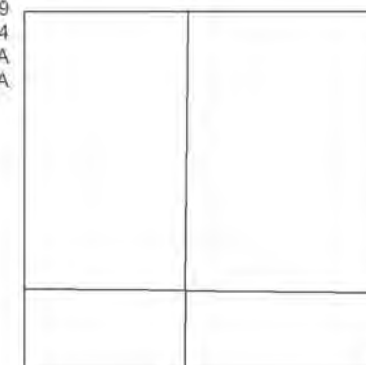
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Revised 1889  
Edition 1894  
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Surveyed 1890  
Revised 1890  
Edition 1890  
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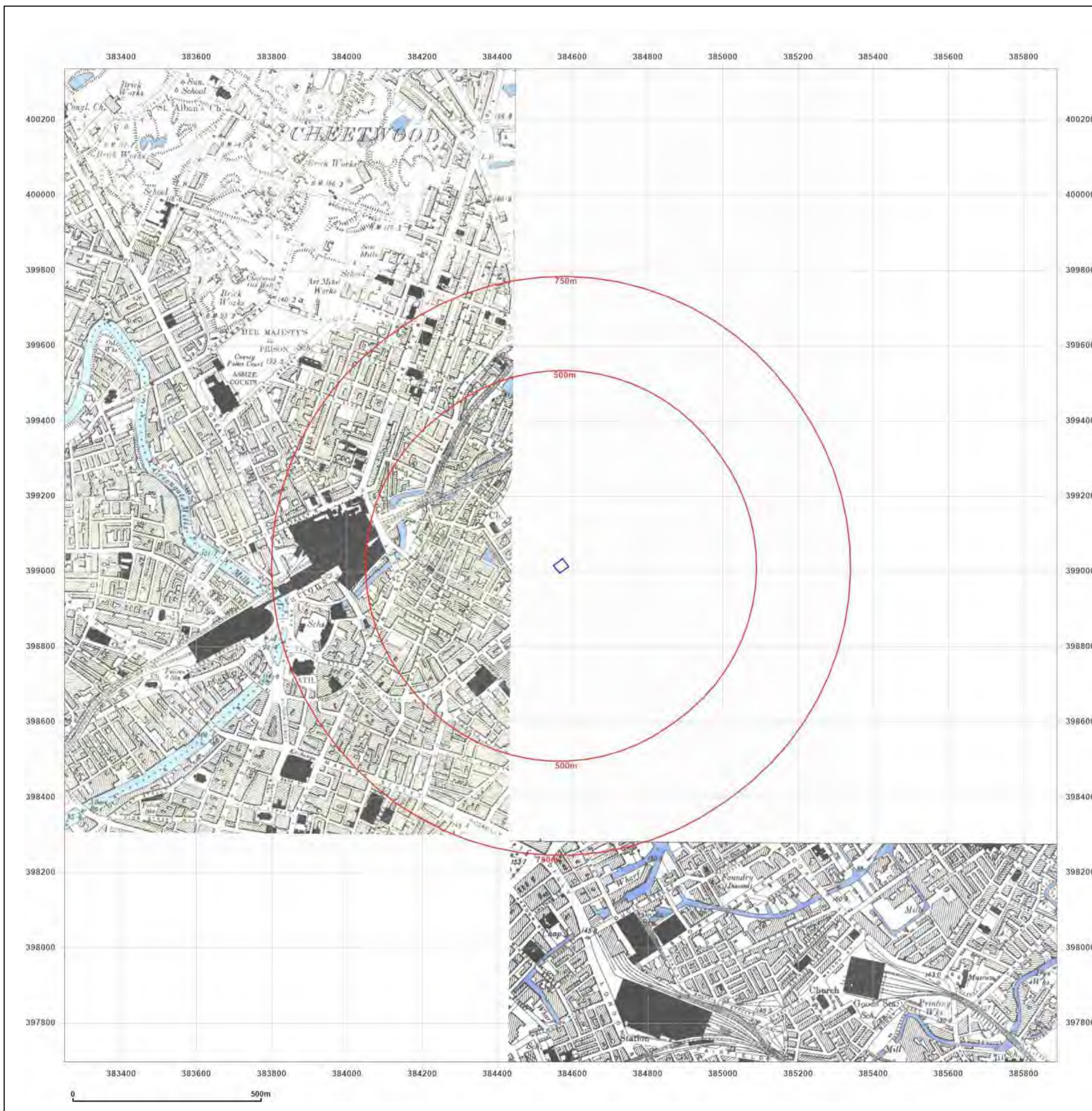


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**Site Details:**

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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1891-1896

**Scale:** 1:10,560

**Printed at:** 1:10,560



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

Surveyed 1894  
Revised 1896  
Edition 1896  
Copyright N/A  
Levelled N/A

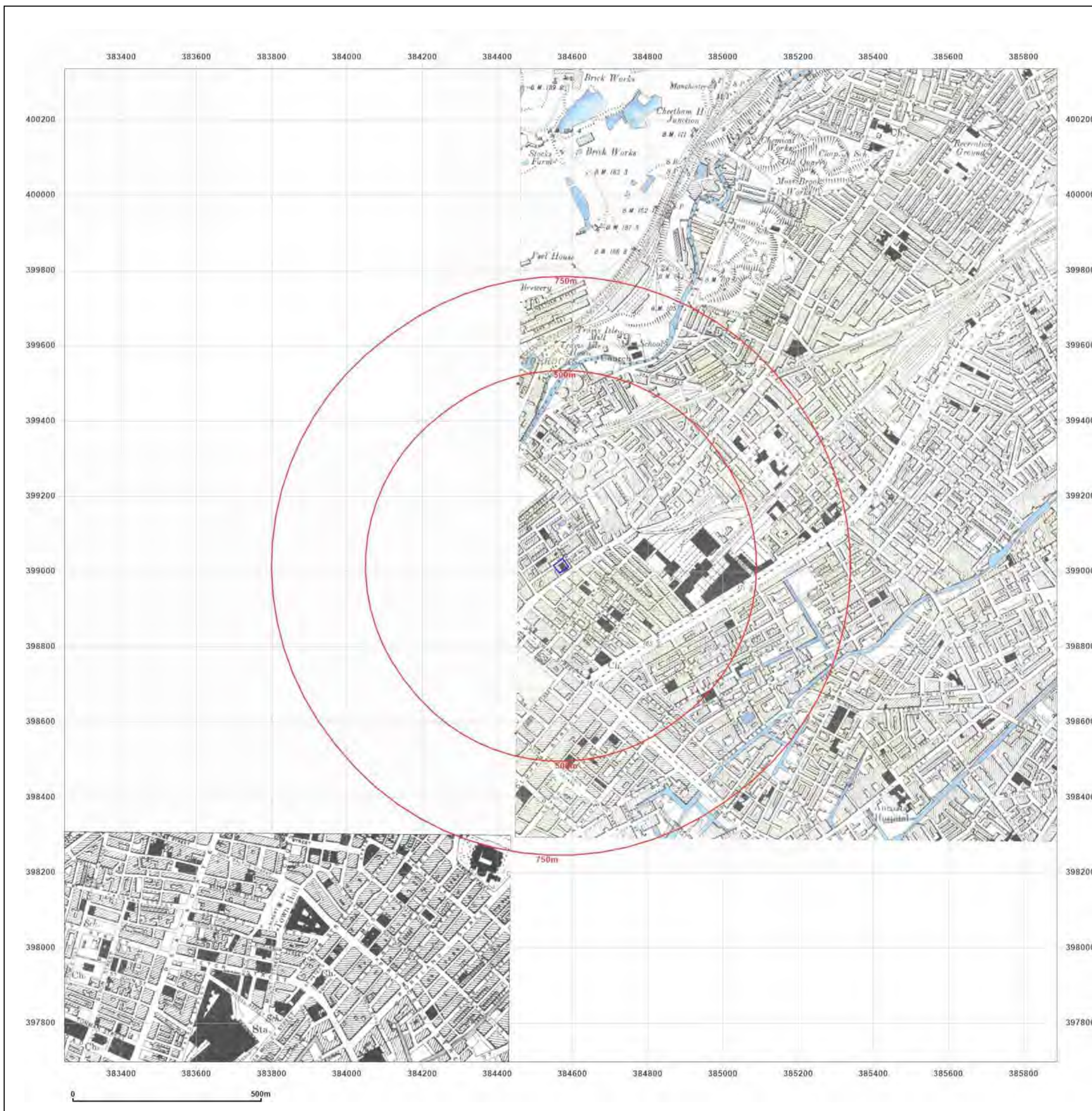


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1905-1906

**Scale:** 1:10,560

**Printed at:** 1:10,560



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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

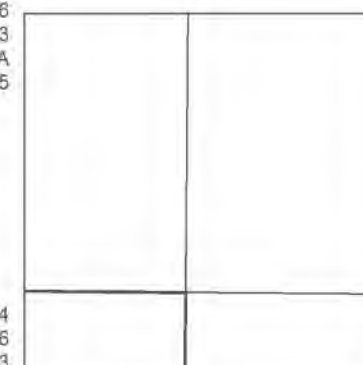
**Map date:** 1923

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1844  
Revised 1916  
Edition 1923  
Copyright N/A  
Levelled 1915



Surveyed 1844  
Revised 1916  
Edition 1923  
Copyright N/A  
Levelled 1915

Surveyed 1844  
Revised 1915  
Edition 1923  
Copyright N/A  
Levelled 1915

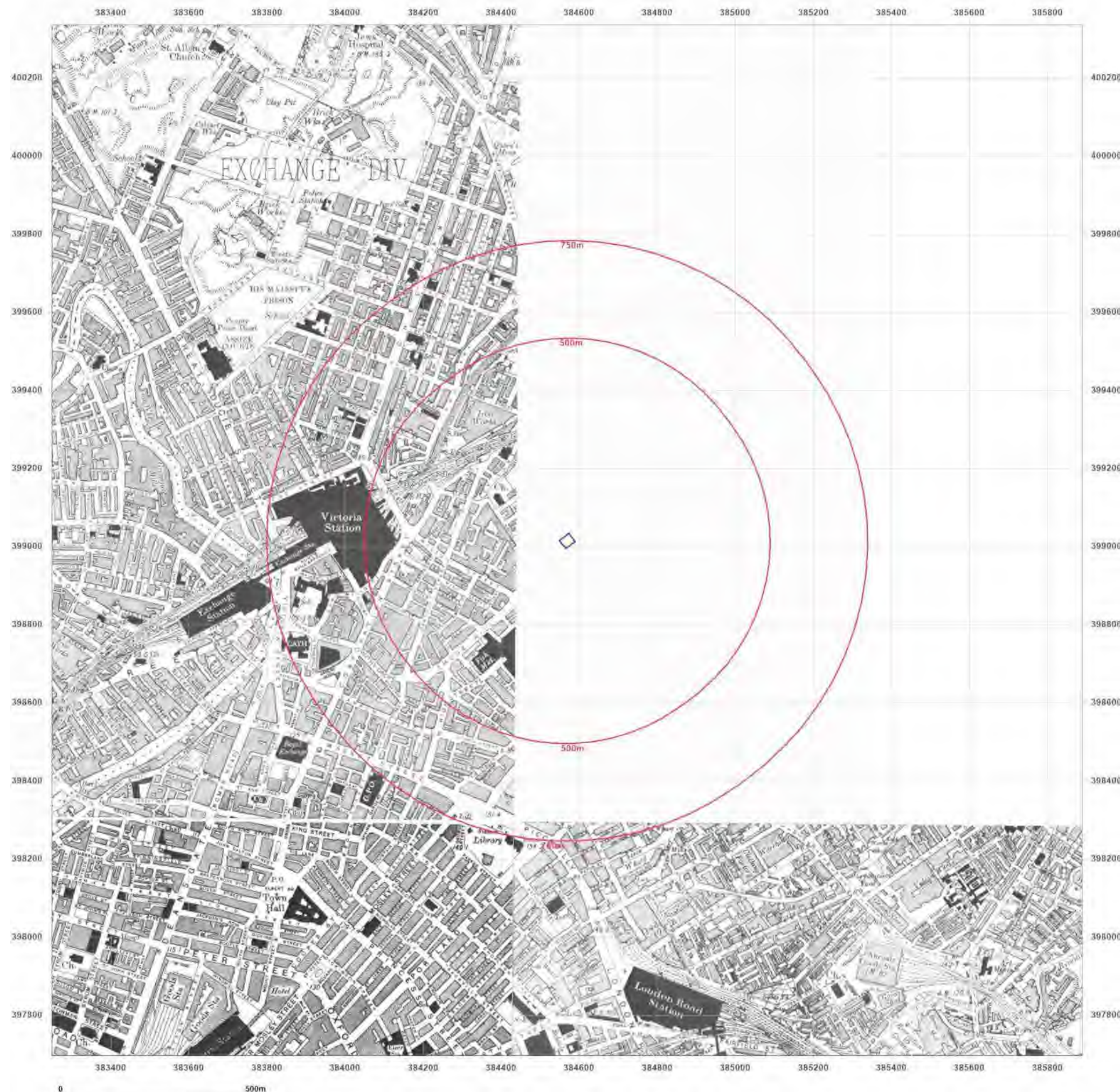


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**Site Details:**

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1923

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1844  
Revised 1921  
Edition 1923  
Copyright N/A  
Levelled 1906

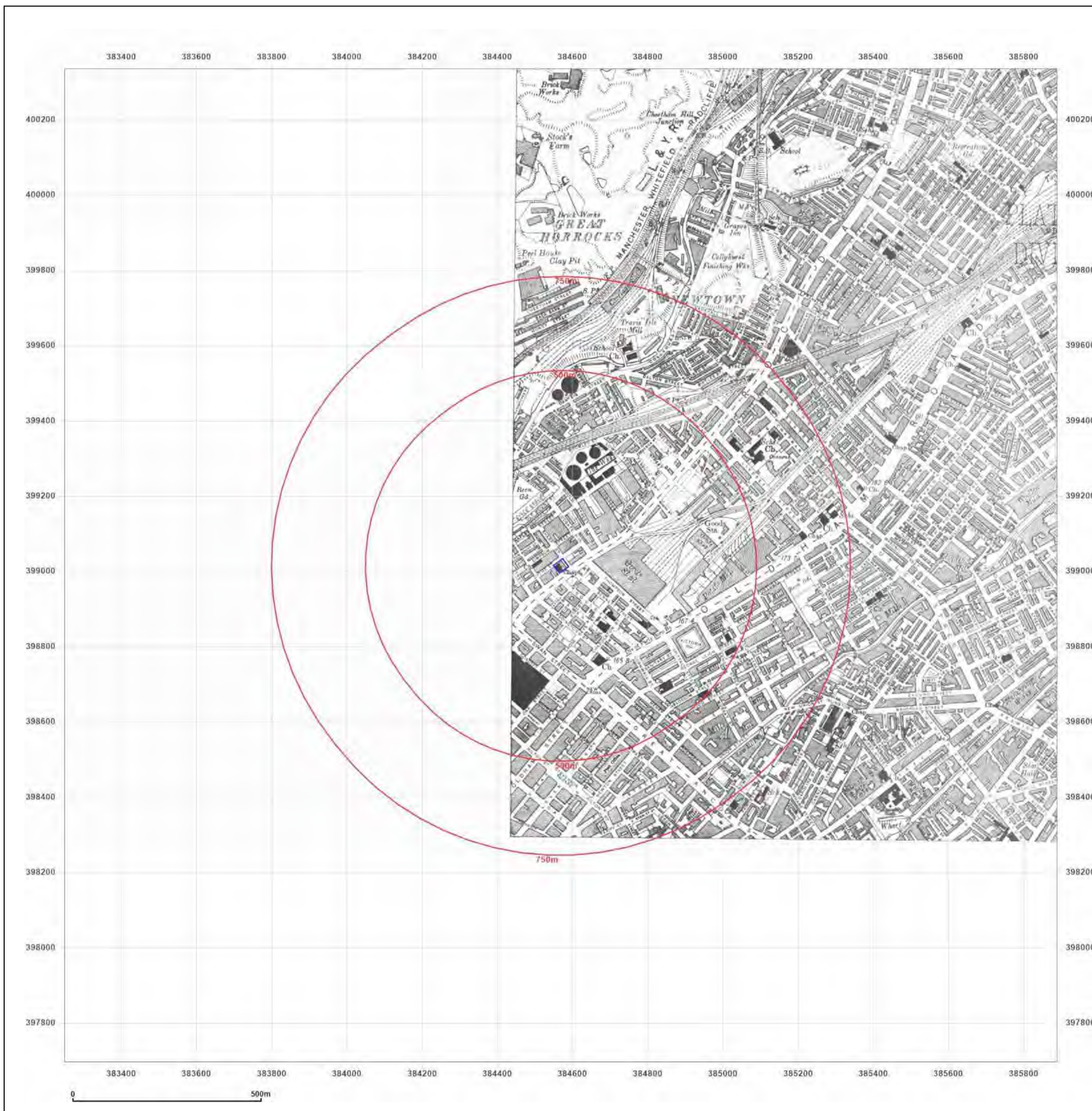


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**Site Details:**

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1923

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1844  
Revised 1916  
Edition 1923  
Copyright N/A  
Levelled 1915

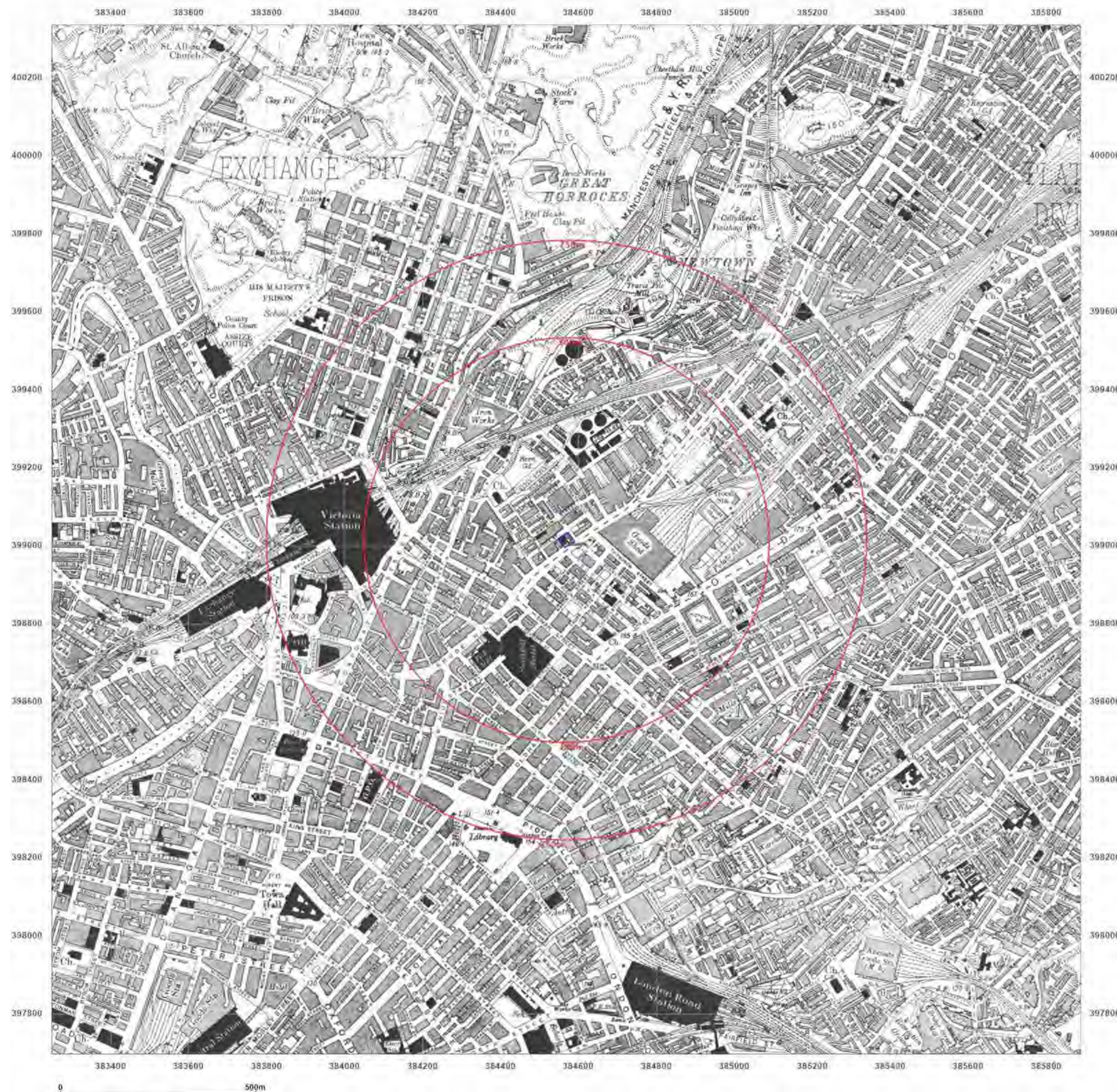


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1931-1934

**Scale:** 1:10,560

**Printed at:** 1:10,560

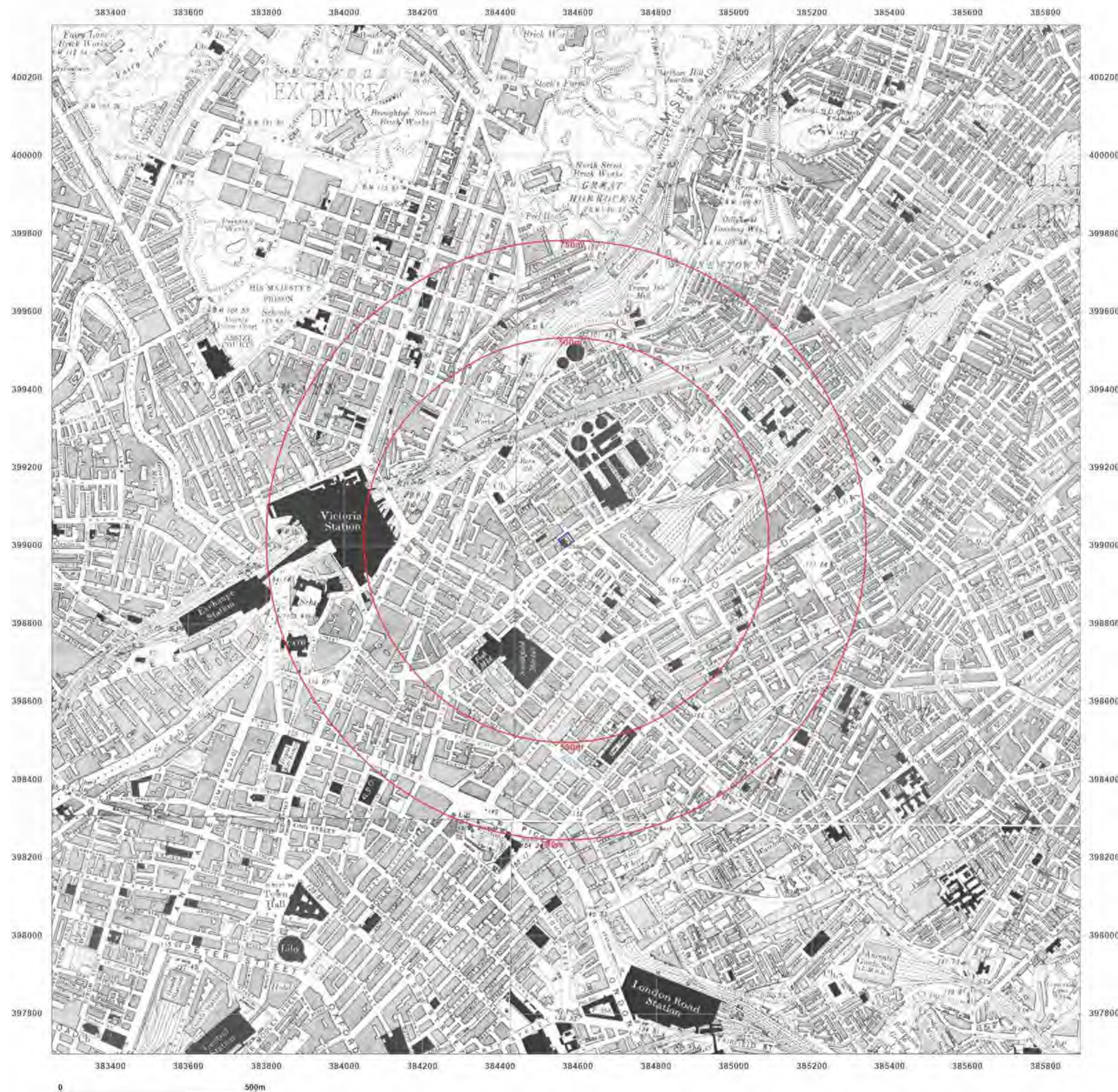


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1844  
Revised 1938  
Edition 1938  
Copyright N/A  
Levelled 1927



Surveyed 1844  
Revised 1938  
Edition 1938  
Copyright N/A  
Levelled 1927

Surveyed 1844  
Revised 1938  
Edition 1938  
Copyright N/A  
Levelled 1927

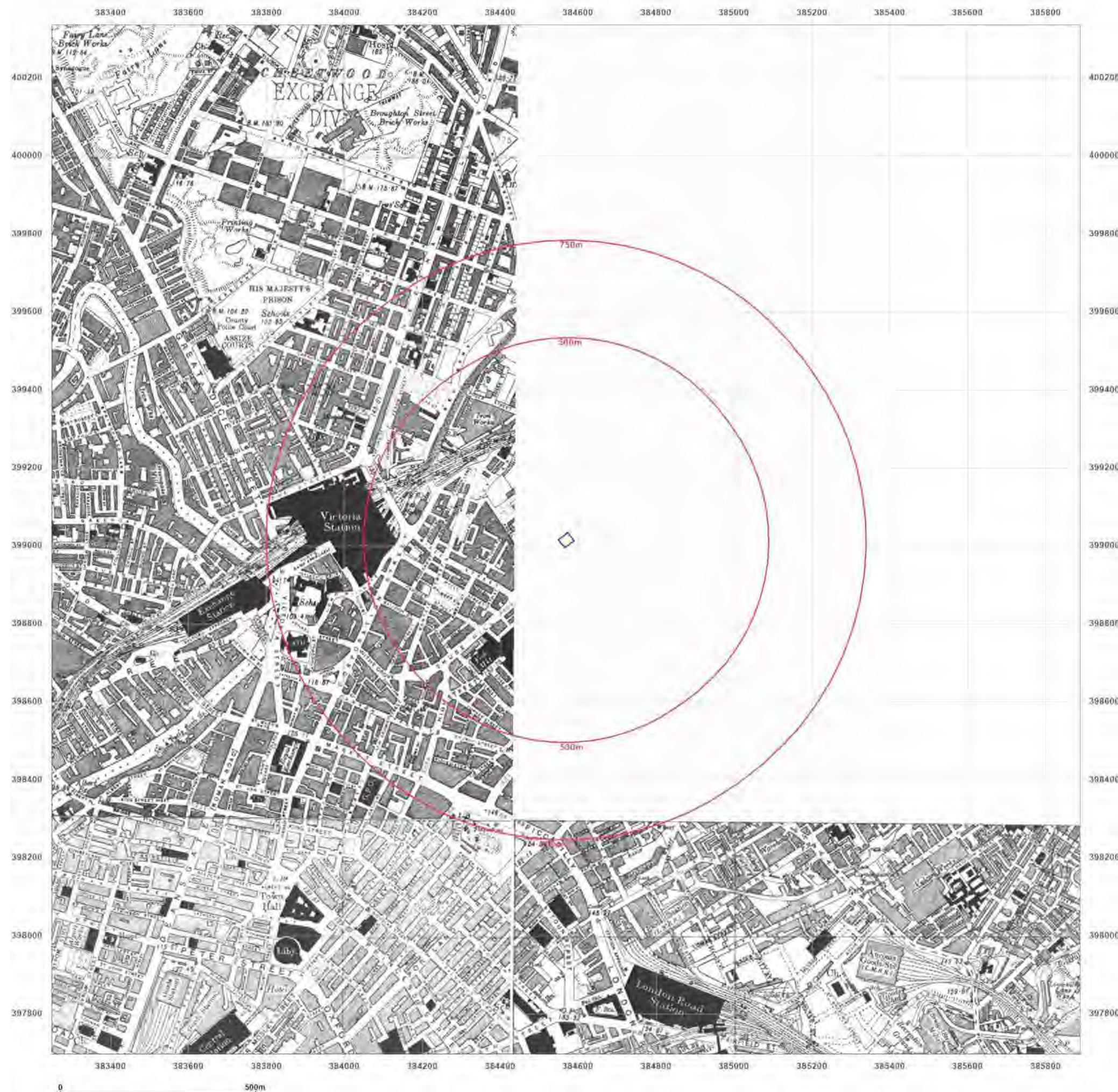


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**Site Details:**

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** County Series

**Map date:** 1938

**Scale:** 1:10,560

**Printed at:** 1:10,560



Surveyed 1844  
Revised 1938  
Edition 1938  
Copyright N/A  
Levelled 1927

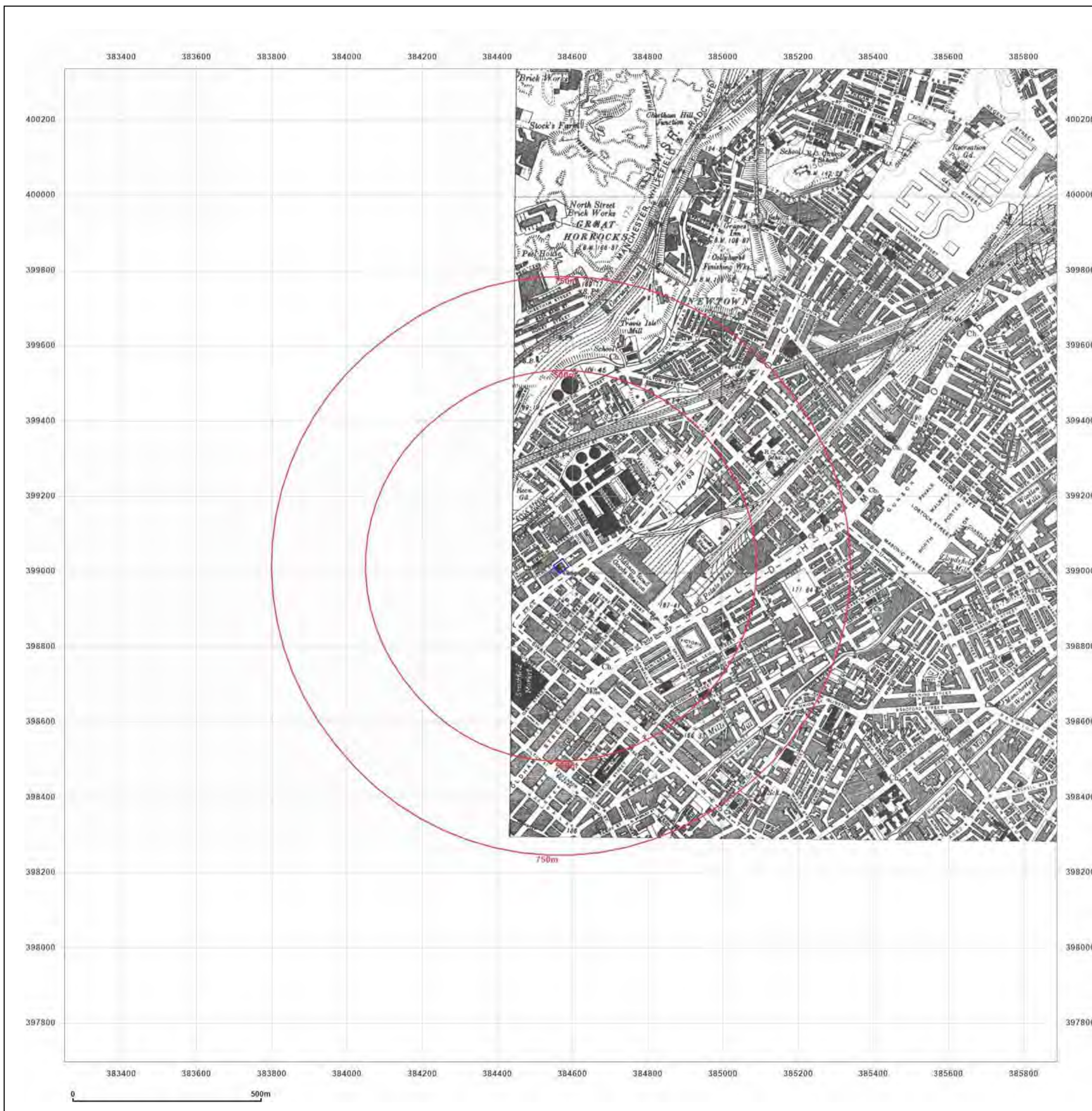


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Site Details:

Baptist Church, Rochdale Road,  
Manchester

Client Ref: 51078 - Baptist Church, Rochdale Road, Manchester  
Report Ref: GS-ZBR-U6I-NIA-S5G  
Grid Ref: 384568, 399015

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



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

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

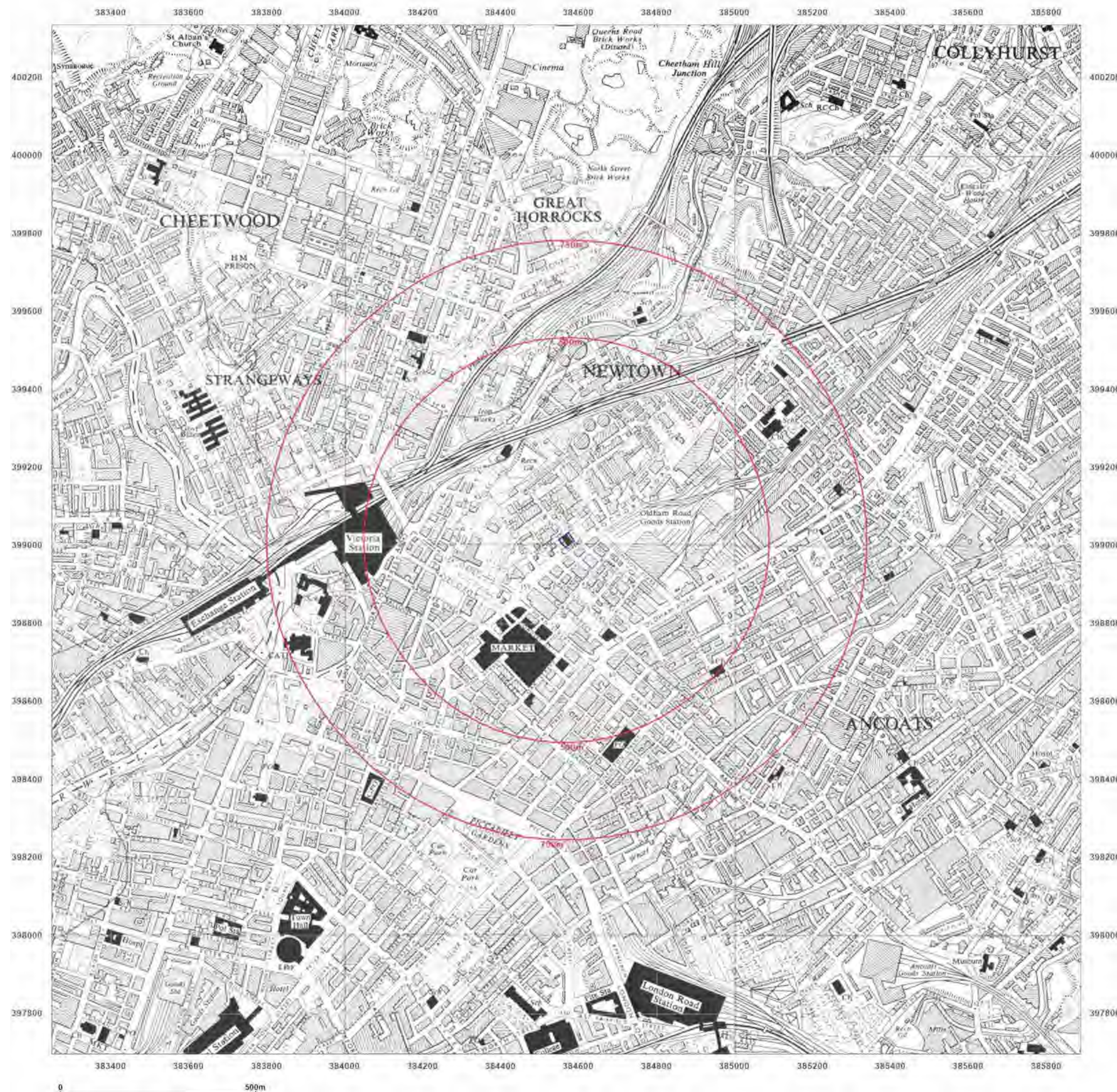


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Site Details:

Baptist Church, Rochdale Road,  
Manchester

Client Ref: 51078 - Baptist Church, Rochdale Road, Manchester  
Report Ref: GS-ZBR-U6I-NIA-S5G  
Grid Ref: 384568, 399015

Map Name: Provisional

Map date: 1966-1968

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1966  
Revised 1966  
Edition N/A  
Copyright N/A  
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Surveyed 1968  
Revised 1968  
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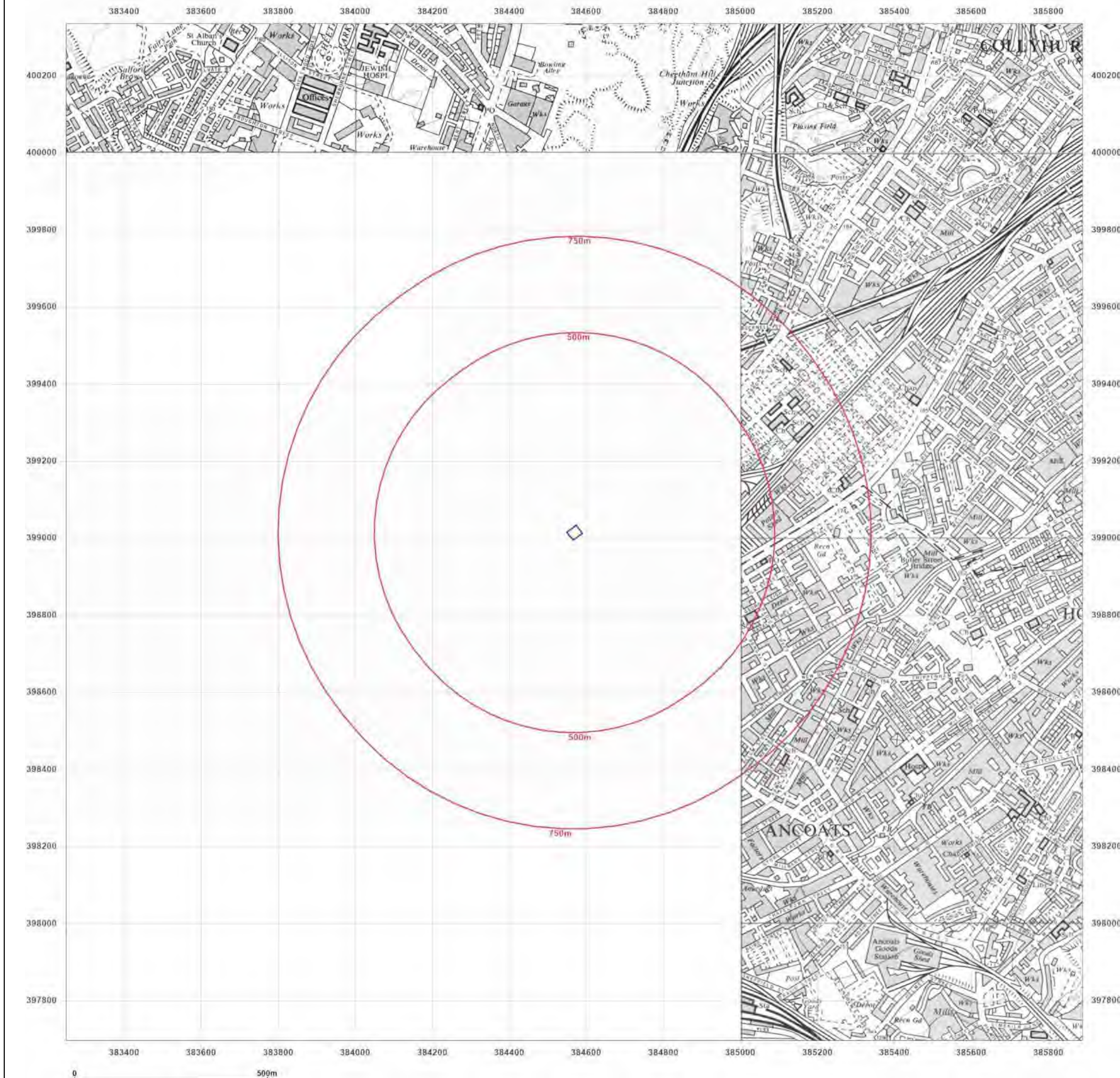


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#### Site Details:

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1972-1977

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1975  
Revised 1977  
Edition N/A  
Copyright N/A  
Levelled N/A

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

Surveyed 1971  
Revised 1972  
Edition N/A  
Copyright 1972  
Levelled 1972

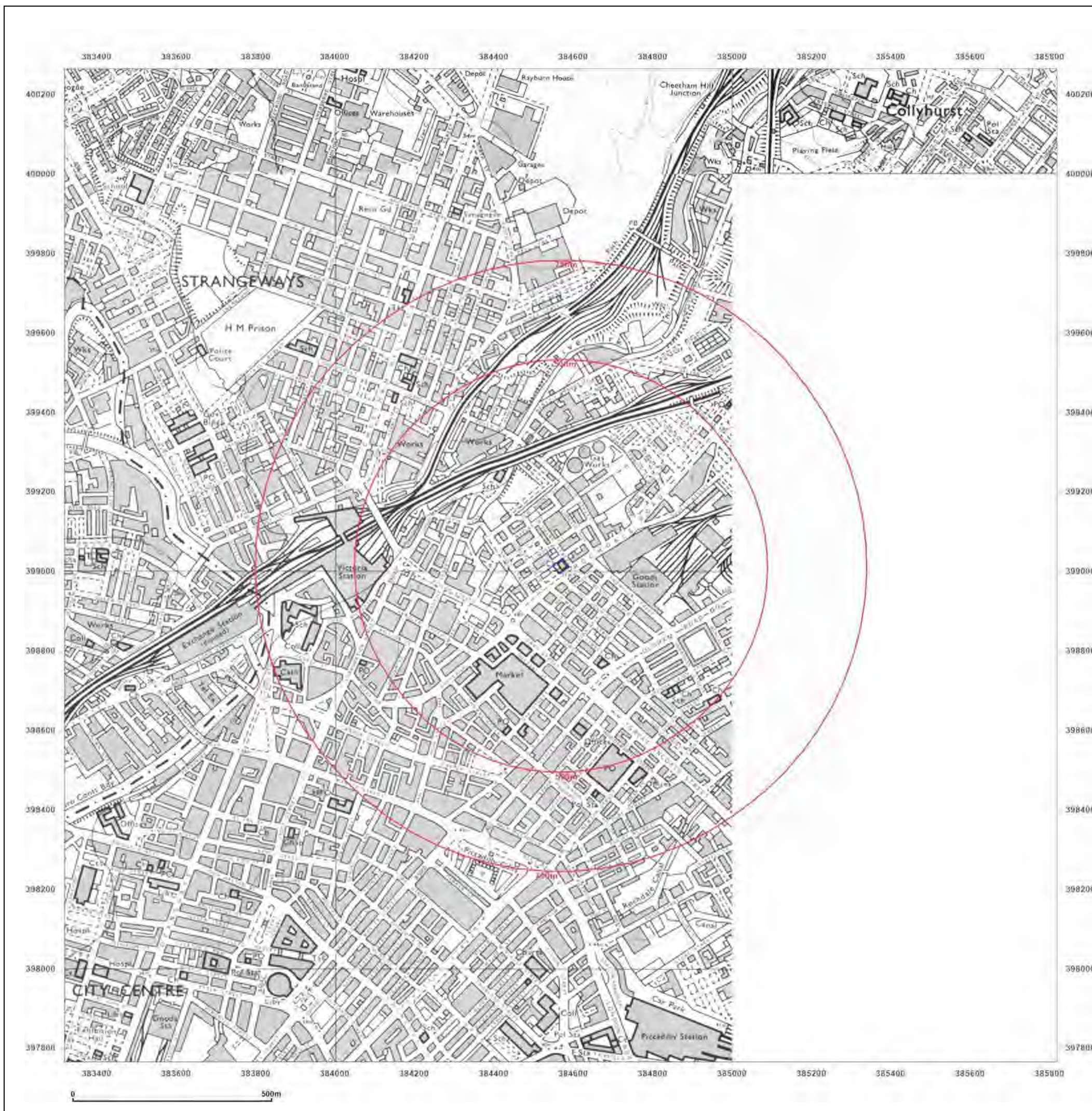


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1980-1985

**Scale:** 1:10,000

**Printed at:** 1:10,000



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

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

Surveyed 1976  
Revised 1980  
Edition N/A  
Copyright 1980  
Levelled 1976

Surveyed 1976  
Revised 1980  
Edition N/A  
Copyright 1981  
Levelled 1976

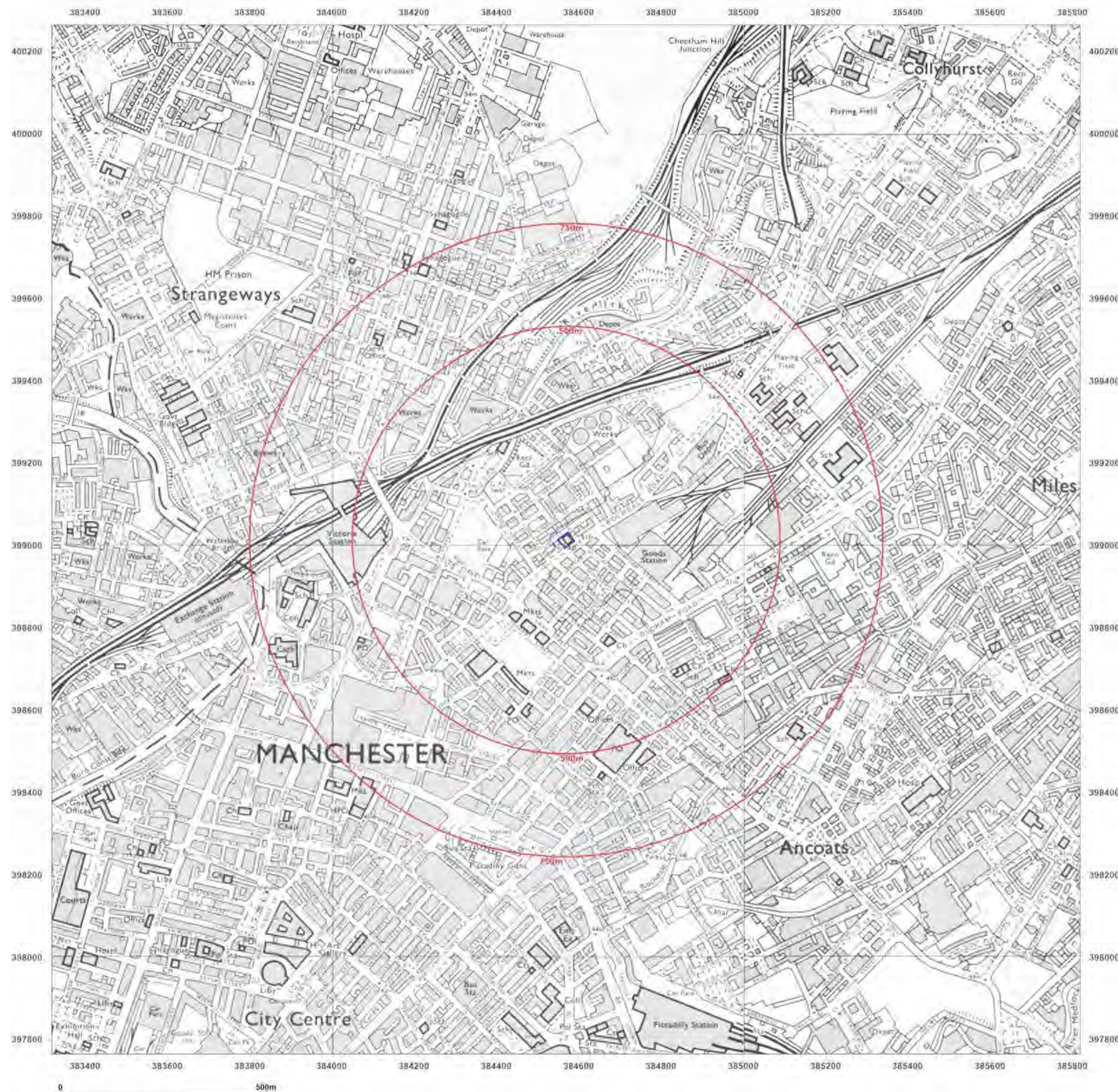


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**Site Details:**

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1985-1988

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1987  
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Edition N/A  
Copyright N/A  
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Surveyed 1983  
Revised 1985  
Edition N/A  
Copyright 1985  
Levelled 1981

Surveyed 1985  
Revised 1985  
Edition N/A  
Copyright 1985  
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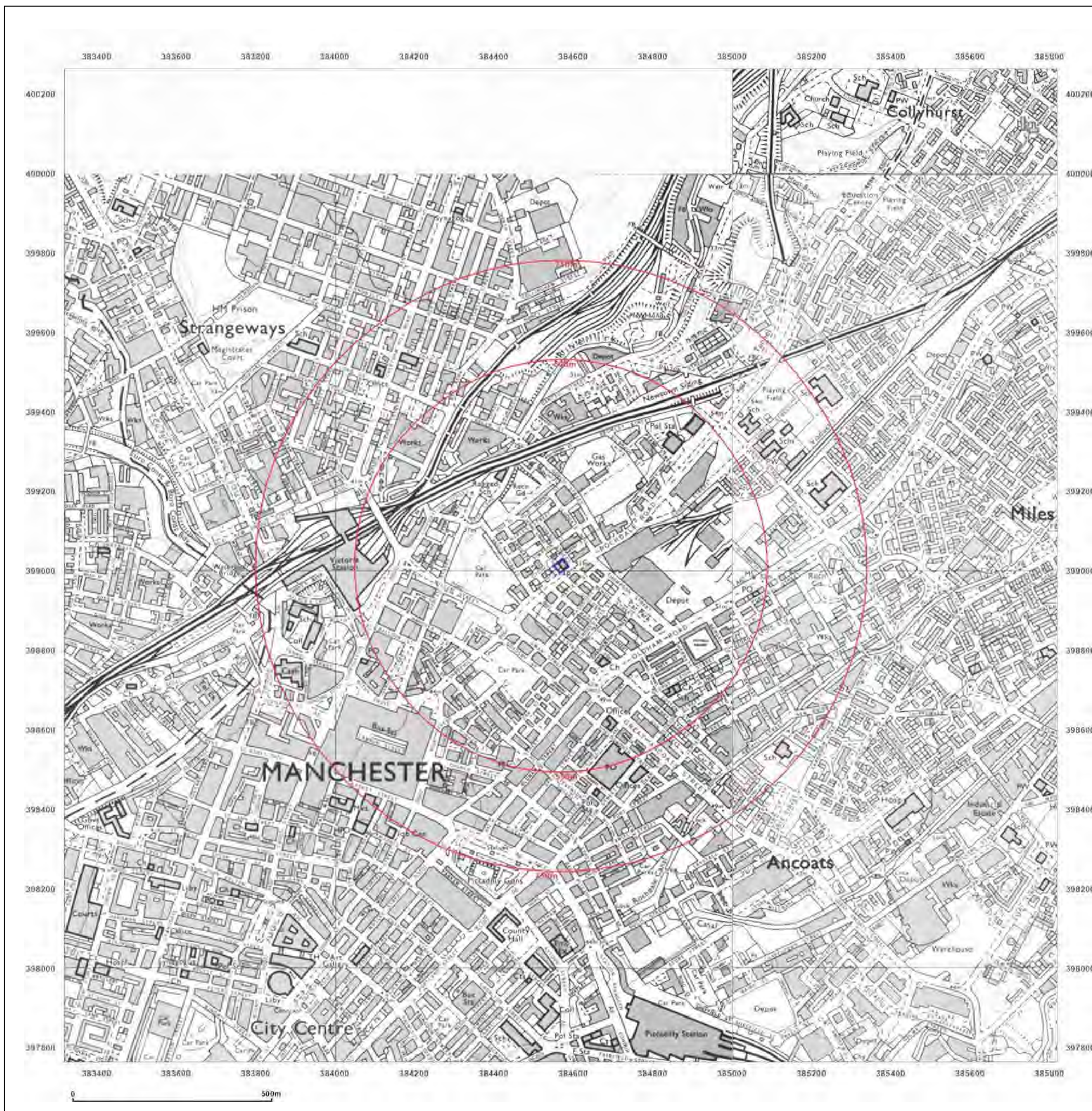


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**Site Details:**

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Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1988-1991

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1986  
Revised 1988  
Edition N/A  
Copyright 1988  
Levelled 1981

Surveyed 1985  
Revised 1991  
Edition N/A  
Copyright 1991  
Levelled 1981

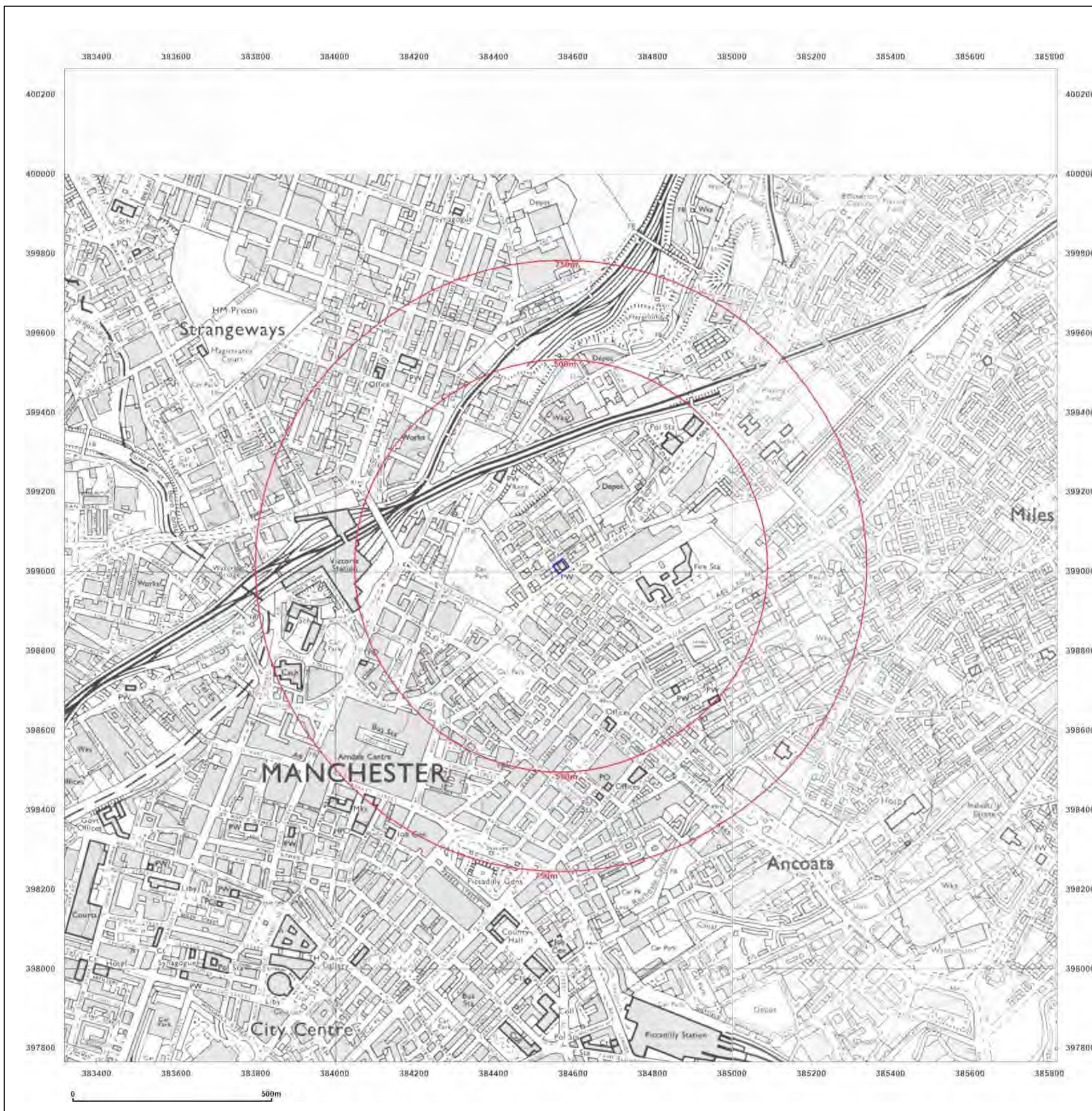


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**Site Details:**

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 1994

**Scale:** 1:10,000

**Printed at:** 1:10,000



Surveyed 1986  
Revised 1994  
Edition N/A  
Copyright 1994  
Levelled 1981

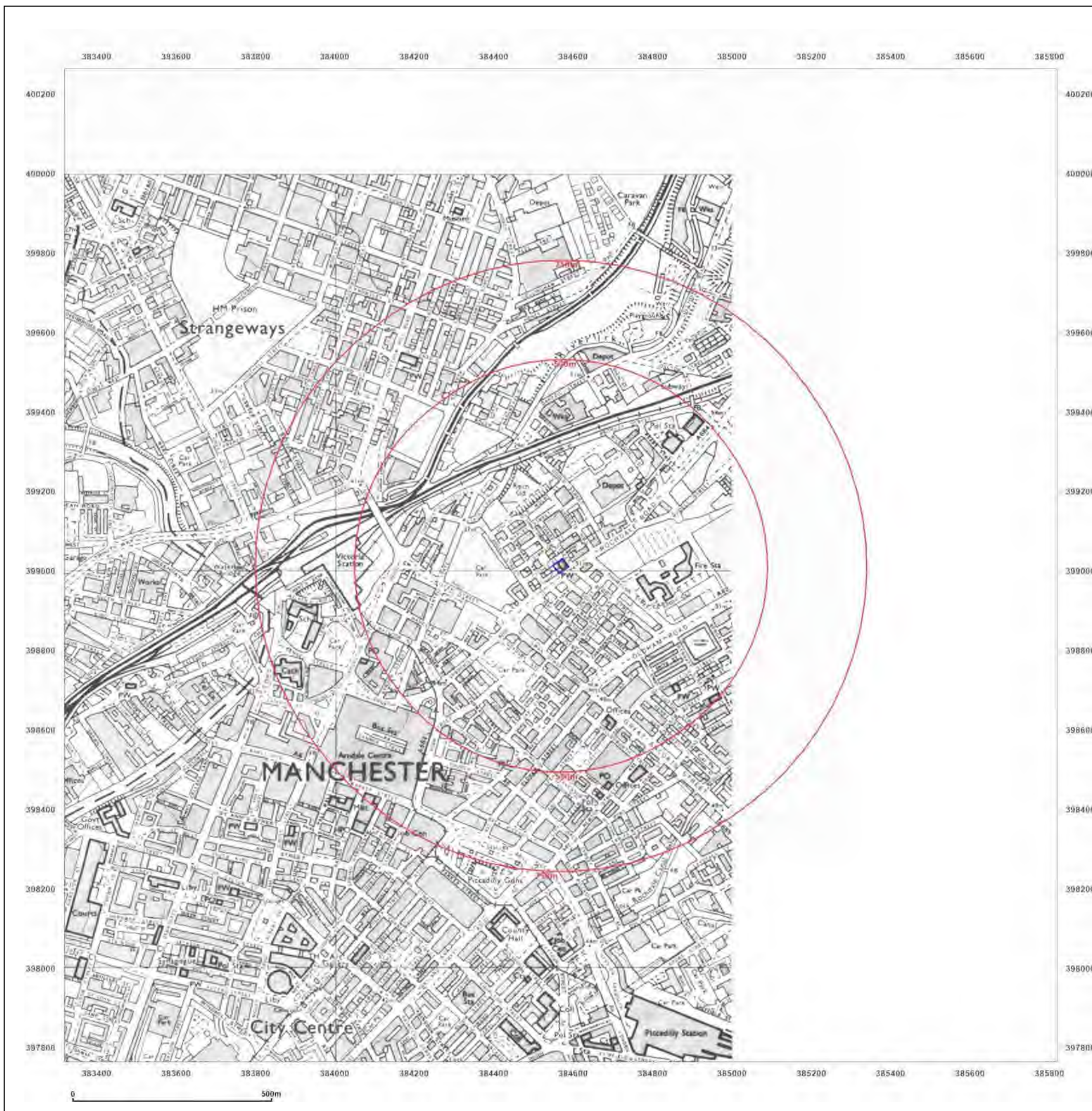


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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 2001

**Scale:** 1:10,000

**Printed at:** 1:10,000



2001



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#### Site Details:

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**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

**Map Name:** National Grid

**Map date:** 2010

**Scale:** 1:10,000

**Printed at:** 1:10,000



2010



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#### Site Details:

Baptist Church, Rochdale Road,  
Manchester

**Client Ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Report Ref:** GS-ZBR-U6I-NIA-S5G  
**Grid Ref:** 384568, 399015

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**Map date:** 2024

**Scale:** 1:10,000

**Printed at:** 1:10,000



2024

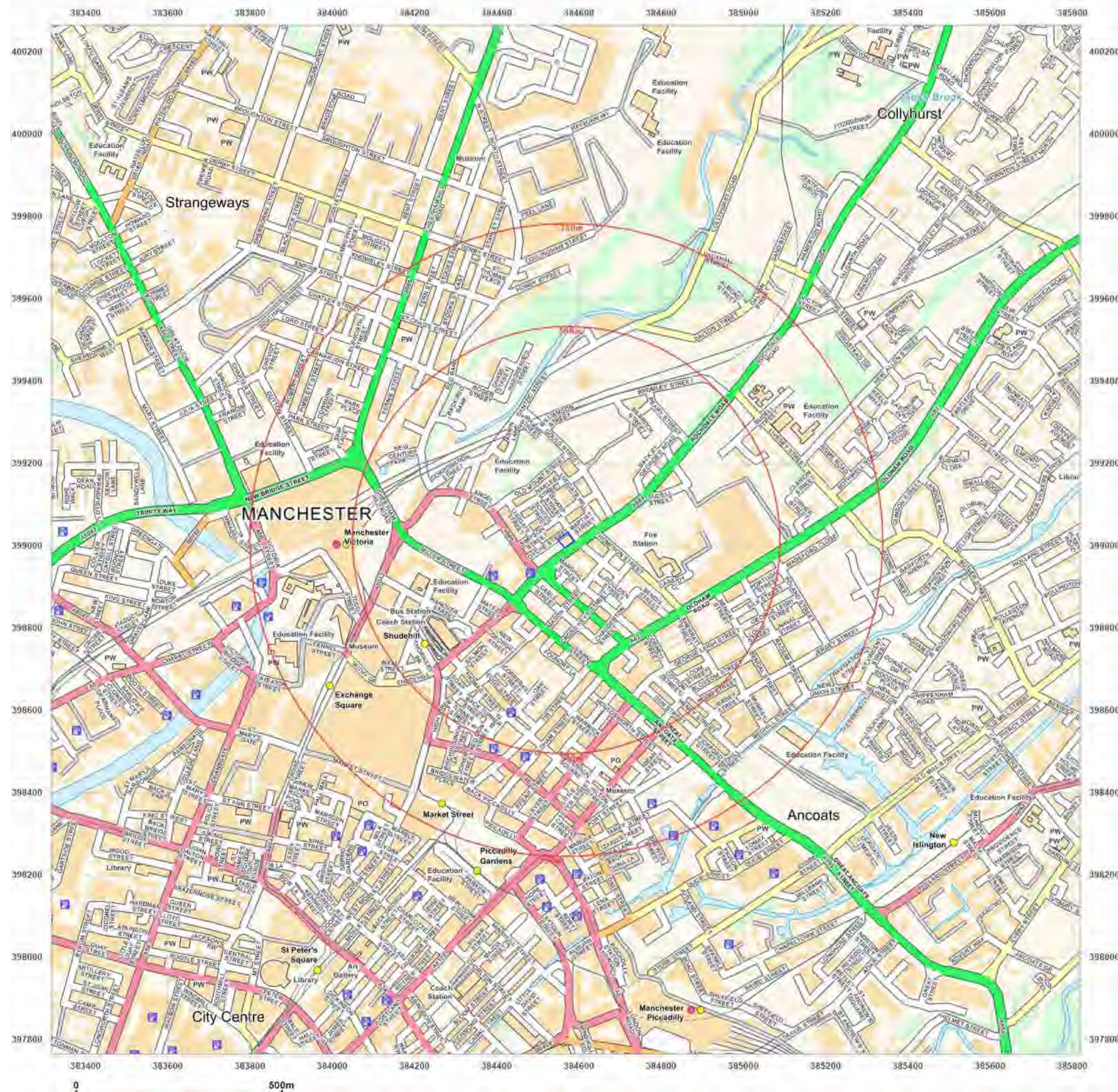


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Appendix C  
Groundsure Enviro + Geo Insight Report

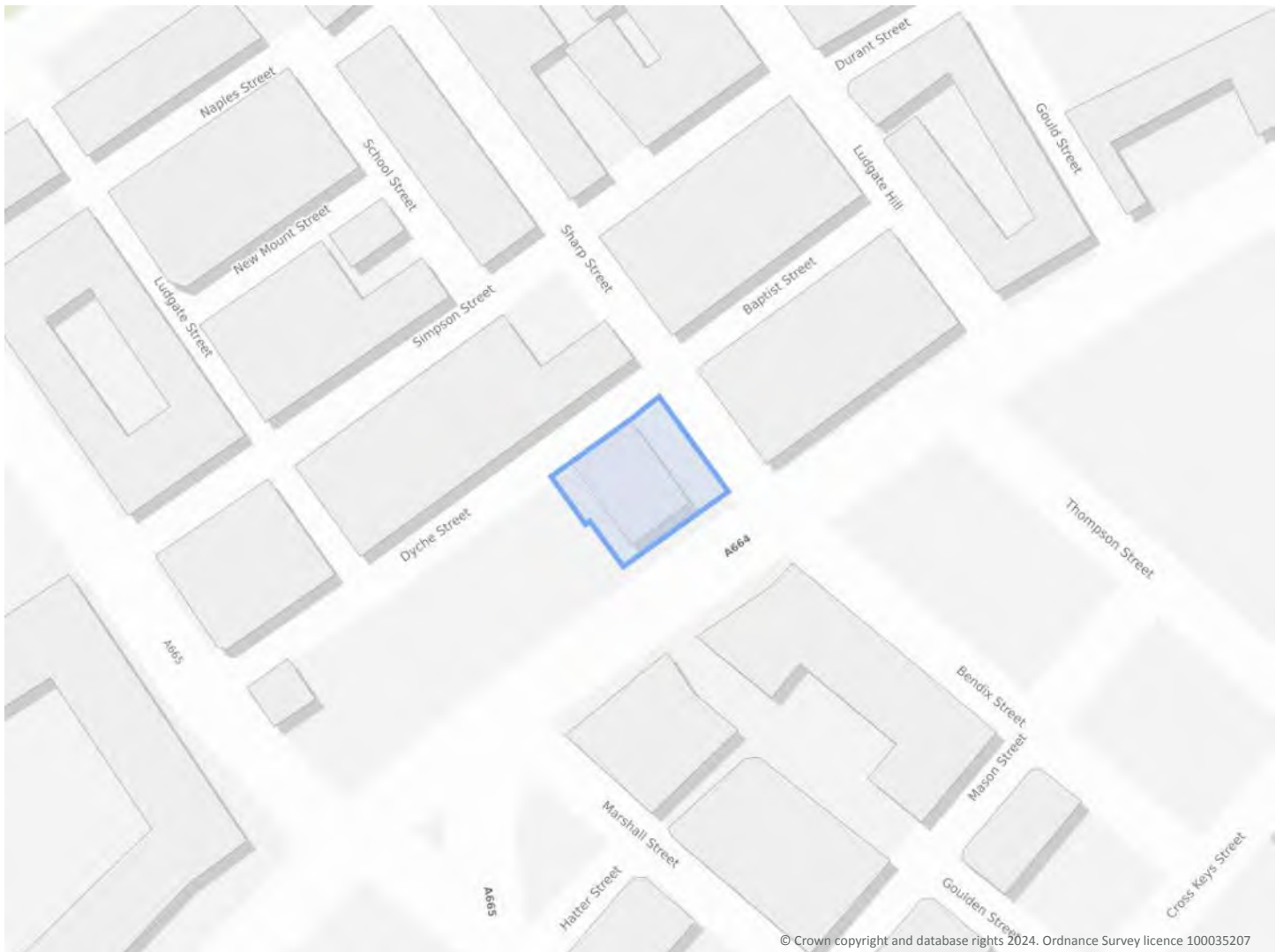
## Baptist Church, Rochdale Road, Manchester

### Order Details

**Date:** 28/05/2024  
**Your ref:** 51078 - Baptist Church, Rochdale Road, Manchester  
**Our Ref:** GS-7MI-WOZ-4W5-UUP

### Site Details

**Location:** 384568 399014  
**Area:** 0.08 ha  
**Authority:** [Manchester City Council](#) ↗



[Summary of findings](#)

[p. 2 >](#) [Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 >](#) [Insight User Guide](#) ↗

Contact us with any questions at:

[info@groundsure.com](mailto:info@groundsure.com) ↗

01273 257 755

## Summary of findings

| Page                    | Section                  | <a href="#">Past land use &gt;</a>                     | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|-------------------------|--------------------------|--------------------------------------------------------|---------|-------|---------|----------|-----------|
| <a href="#">15 &gt;</a> | <a href="#">1.1 &gt;</a> | <a href="#">Historical industrial land uses &gt;</a>   | 0       | 0     | 43      | 148      | -         |
| <a href="#">22 &gt;</a> | <a href="#">1.2 &gt;</a> | <a href="#">Historical tanks &gt;</a>                  | 0       | 0     | 21      | 63       | -         |
| <a href="#">26 &gt;</a> | <a href="#">1.3 &gt;</a> | <a href="#">Historical energy features &gt;</a>        | 0       | 0     | 17      | 48       | -         |
| 28                      | 1.4                      | Historical petrol stations                             | 0       | 0     | 0       | 0        | -         |
| <a href="#">29 &gt;</a> | <a href="#">1.5 &gt;</a> | <a href="#">Historical garages &gt;</a>                | 0       | 3     | 15      | 25       | -         |
| 31                      | 1.6                      | Historical military land                               | 0       | 0     | 0       | 0        | -         |
| Page                    | Section                  | <a href="#">Past land use - un-grouped &gt;</a>        | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">32 &gt;</a> | <a href="#">2.1 &gt;</a> | <a href="#">Historical industrial land uses &gt;</a>   | 0       | 0     | 58      | 208      | -         |
| <a href="#">42 &gt;</a> | <a href="#">2.2 &gt;</a> | <a href="#">Historical tanks &gt;</a>                  | 0       | 0     | 40      | 110      | -         |
| <a href="#">48 &gt;</a> | <a href="#">2.3 &gt;</a> | <a href="#">Historical energy features &gt;</a>        | 0       | 0     | 40      | 100      | -         |
| 53                      | 2.4                      | Historical petrol stations                             | 0       | 0     | 0       | 0        | -         |
| <a href="#">53 &gt;</a> | <a href="#">2.5 &gt;</a> | <a href="#">Historical garages &gt;</a>                | 0       | 8     | 24      | 48       | -         |
| Page                    | Section                  | <a href="#">Waste and landfill &gt;</a>                | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 57                      | 3.1                      | Active or recent landfill                              | 0       | 0     | 0       | 0        | -         |
| 57                      | 3.2                      | Historical landfill (BGS records)                      | 0       | 0     | 0       | 0        | -         |
| 58                      | 3.3                      | Historical landfill (LA/mapping records)               | 0       | 0     | 0       | 0        | -         |
| 58                      | 3.4                      | Historical landfill (EA/NRW records)                   | 0       | 0     | 0       | 0        | -         |
| <a href="#">58 &gt;</a> | <a href="#">3.5 &gt;</a> | <a href="#">Historical waste sites &gt;</a>            | 0       | 0     | 2       | 9        | -         |
| <a href="#">60 &gt;</a> | <a href="#">3.6 &gt;</a> | <a href="#">Licensed waste sites &gt;</a>              | 0       | 0     | 1       | 11       | -         |
| <a href="#">64 &gt;</a> | <a href="#">3.7 &gt;</a> | <a href="#">Waste exemptions &gt;</a>                  | 0       | 0     | 7       | 15       | -         |
| Page                    | Section                  | <a href="#">Current industrial land use &gt;</a>       | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">66 &gt;</a> | <a href="#">4.1 &gt;</a> | <a href="#">Recent industrial land uses &gt;</a>       | 0       | 0     | 17      | -        | -         |
| <a href="#">68 &gt;</a> | <a href="#">4.2 &gt;</a> | <a href="#">Current or recent petrol stations &gt;</a> | 0       | 0     | 1       | 2        | -         |
| 68                      | 4.3                      | Electricity cables                                     | 0       | 0     | 0       | 0        | -         |
| 68                      | 4.4                      | Gas pipelines                                          | 0       | 0     | 0       | 0        | -         |
| 68                      | 4.5                      | Sites determined as Contaminated Land                  | 0       | 0     | 0       | 0        | -         |



| 69             | 4.6              | Control of Major Accident Hazards (COMAH)                   | 0                        | 0     | 0       | 0        | -         |
|----------------|------------------|-------------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 69             | 4.7              | Regulated explosive sites                                   | 0                        | 0     | 0       | 0        | -         |
| 69             | 4.8              | Hazardous substance storage/usage                           | 0                        | 0     | 0       | 0        | -         |
| 69             | 4.9              | Historical licensed industrial activities (IPC)             | 0                        | 0     | 0       | 0        | -         |
| 69             | 4.10             | Licensed industrial activities (Part A(1))                  | 0                        | 0     | 0       | 0        | -         |
| <b>70 &gt;</b> | <b>4.11 &gt;</b> | <b><u>Licensed pollutant release (Part A(2)/B) &gt;</u></b> | 0                        | 0     | 0       | 7        | -         |
| <b>71 &gt;</b> | <b>4.12 &gt;</b> | <b><u>Radioactive Substance Authorisations &gt;</u></b>     | 0                        | 0     | 1       | 0        | -         |
| <b>71 &gt;</b> | <b>4.13 &gt;</b> | <b><u>Licensed Discharges to controlled waters &gt;</u></b> | 0                        | 0     | 0       | 32       | -         |
| 76             | 4.14             | Pollutant release to surface waters (Red List)              | 0                        | 0     | 0       | 0        | -         |
| 76             | 4.15             | Pollutant release to public sewer                           | 0                        | 0     | 0       | 0        | -         |
| 76             | 4.16             | List 1 Dangerous Substances                                 | 0                        | 0     | 0       | 0        | -         |
| 76             | 4.17             | List 2 Dangerous Substances                                 | 0                        | 0     | 0       | 0        | -         |
| <b>77 &gt;</b> | <b>4.18 &gt;</b> | <b><u>Pollution Incidents (EA/NRW) &gt;</u></b>             | 0                        | 0     | 0       | 6        | -         |
| 77             | 4.19             | Pollution inventory substances                              | 0                        | 0     | 0       | 0        | -         |
| 78             | 4.20             | Pollution inventory waste transfers                         | 0                        | 0     | 0       | 0        | -         |
| 78             | 4.21             | Pollution inventory radioactive waste                       | 0                        | 0     | 0       | 0        | -         |
| Page           | Section          | <b><u>Hydrogeology &gt;</u></b>                             | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>79 &gt;</b> | <b>5.1 &gt;</b>  | <b><u>Superficial aquifer &gt;</u></b>                      | Identified (within 500m) |       |         |          |           |
| <b>81 &gt;</b> | <b>5.2 &gt;</b>  | <b><u>Bedrock aquifer &gt;</u></b>                          | Identified (within 500m) |       |         |          |           |
| <b>83 &gt;</b> | <b>5.3 &gt;</b>  | <b><u>Groundwater vulnerability &gt;</u></b>                | Identified (within 50m)  |       |         |          |           |
| 84             | 5.4              | Groundwater vulnerability- soluble rock risk                | None (within 0m)         |       |         |          |           |
| 84             | 5.5              | Groundwater vulnerability- local information                | None (within 0m)         |       |         |          |           |
| <b>85 &gt;</b> | <b>5.6 &gt;</b>  | <b><u>Groundwater abstractions &gt;</u></b>                 | 0                        | 0     | 0       | 0        | 42        |
| 96             | 5.7              | Surface water abstractions                                  | 0                        | 0     | 0       | 0        | 0         |
| <b>96 &gt;</b> | <b>5.8 &gt;</b>  | <b><u>Potable abstractions &gt;</u></b>                     | 0                        | 0     | 0       | 0        | 10        |
| 99             | 5.9              | Source Protection Zones                                     | 0                        | 0     | 0       | 0        | -         |
| 99             | 5.10             | Source Protection Zones (confined aquifer)                  | 0                        | 0     | 0       | 0        | -         |
| Page           | Section          | <b><u>Hydrology &gt;</u></b>                                | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 100            | 6.1              | Water Network (OS MasterMap)                                | 0                        | 0     | 0       | -        | -         |



| 100                   | 6.2                   | Surface water features                              | 0                       | 0     | 0       | -        | -         |
|-----------------------|-----------------------|-----------------------------------------------------|-------------------------|-------|---------|----------|-----------|
| <a href="#">101</a> > | <a href="#">6.3</a> > | <a href="#">WFD Surface water body catchments</a> > | 1                       | -     | -       | -        | -         |
| <a href="#">101</a> > | <a href="#">6.4</a> > | <a href="#">WFD Surface water bodies</a> >          | 0                       | 0     | 0       | -        | -         |
| <a href="#">101</a> > | <a href="#">6.5</a> > | <a href="#">WFD Groundwater bodies</a> >            | 1                       | -     | -       | -        | -         |
| Page                  | Section               | River and coastal flooding                          | On site                 | 0-50m | 50-250m | 250-500m | 500-2000m |
| 103                   | 7.1                   | Risk of flooding from rivers and the sea            | None (within 50m)       |       |         |          |           |
| 103                   | 7.2                   | Historical Flood Events                             | 0                       | 0     | 0       | -        | -         |
| 103                   | 7.3                   | Flood Defences                                      | 0                       | 0     | 0       | -        | -         |
| 104                   | 7.4                   | Areas Benefiting from Flood Defences                | 0                       | 0     | 0       | -        | -         |
| 104                   | 7.5                   | Flood Storage Areas                                 | 0                       | 0     | 0       | -        | -         |
| 105                   | 7.6                   | Flood Zone 2                                        | None (within 50m)       |       |         |          |           |
| 105                   | 7.7                   | Flood Zone 3                                        | None (within 50m)       |       |         |          |           |
| Page                  | Section               | Surface water flooding                              |                         |       |         |          |           |
| 106                   | 8.1                   | Surface water flooding                              | Negligible (within 50m) |       |         |          |           |
| Page                  | Section               | <a href="#">Groundwater flooding</a> >              |                         |       |         |          |           |
| <a href="#">107</a> > | <a href="#">9.1</a> > | <a href="#">Groundwater flooding</a> >              | Low (within 50m)        |       |         |          |           |
| Page                  | Section               | Environmental designations                          | On site                 | 0-50m | 50-250m | 250-500m | 500-2000m |
| 108                   | 10.1                  | Sites of Special Scientific Interest (SSSI)         | 0                       | 0     | 0       | 0        | 0         |
| 108                   | 10.2                  | Conserved wetland sites (Ramsar sites)              | 0                       | 0     | 0       | 0        | 0         |
| 108                   | 10.3                  | Special Areas of Conservation (SAC)                 | 0                       | 0     | 0       | 0        | 0         |
| 108                   | 10.4                  | Special Protection Areas (SPA)                      | 0                       | 0     | 0       | 0        | 0         |
| 109                   | 10.5                  | National Nature Reserves (NNR)                      | 0                       | 0     | 0       | 0        | 0         |
| 109                   | 10.6                  | Local Nature Reserves (LNR)                         | 0                       | 0     | 0       | 0        | 0         |
| 109                   | 10.7                  | Designated Ancient Woodland                         | 0                       | 0     | 0       | 0        | 0         |
| 109                   | 10.8                  | Biosphere Reserves                                  | 0                       | 0     | 0       | 0        | 0         |
| 110                   | 10.9                  | Forest Parks                                        | 0                       | 0     | 0       | 0        | 0         |
| 110                   | 10.10                 | Marine Conservation Zones                           | 0                       | 0     | 0       | 0        | 0         |
| 110                   | 10.11                 | Green Belt                                          | 0                       | 0     | 0       | 0        | 0         |
| 110                   | 10.12                 | Proposed Ramsar sites                               | 0                       | 0     | 0       | 0        | 0         |



| 110                   | 10.13                   | Possible Special Areas of Conservation (pSAC)      | 0                        | 0     | 0       | 0        | 0         |
|-----------------------|-------------------------|----------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| 111                   | 10.14                   | Potential Special Protection Areas (pSPA)          | 0                        | 0     | 0       | 0        | 0         |
| 111                   | 10.15                   | Nitrate Sensitive Areas                            | 0                        | 0     | 0       | 0        | 0         |
| <a href="#">111</a> > | <a href="#">10.16</a> > | <a href="#">Nitrate Vulnerable Zones</a> >         | 1                        | 0     | 0       | 1        | 2         |
| <a href="#">112</a> > | <a href="#">10.17</a> > | <a href="#">SSSI Impact Risk Zones</a> >           | 1                        | -     | -       | -        | -         |
| 113                   | 10.18                   | SSSI Units                                         | 0                        | 0     | 0       | 0        | 0         |
| Page                  | Section                 | <a href="#">Visual and cultural designations</a> > | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 114                   | 11.1                    | World Heritage Sites                               | 0                        | 0     | 0       | -        | -         |
| 115                   | 11.2                    | Area of Outstanding Natural Beauty                 | 0                        | 0     | 0       | -        | -         |
| 115                   | 11.3                    | National Parks                                     | 0                        | 0     | 0       | -        | -         |
| <a href="#">115</a> > | <a href="#">11.4</a> >  | <a href="#">Listed Buildings</a> >                 | 0                        | 0     | 8       | -        | -         |
| <a href="#">116</a> > | <a href="#">11.5</a> >  | <a href="#">Conservation Areas</a> >               | 0                        | 0     | 2       | -        | -         |
| 116                   | 11.6                    | Scheduled Ancient Monuments                        | 0                        | 0     | 0       | -        | -         |
| 116                   | 11.7                    | Registered Parks and Gardens                       | 0                        | 0     | 0       | -        | -         |
| Page                  | Section                 | <a href="#">Agricultural designations</a> >        | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">118</a> > | <a href="#">12.1</a> >  | <a href="#">Agricultural Land Classification</a> > | Urban (within 250m)      |       |         |          |           |
| 119                   | 12.2                    | Open Access Land                                   | 0                        | 0     | 0       | -        | -         |
| 119                   | 12.3                    | Tree Felling Licences                              | 0                        | 0     | 0       | -        | -         |
| 119                   | 12.4                    | Environmental Stewardship Schemes                  | 0                        | 0     | 0       | -        | -         |
| 119                   | 12.5                    | Countryside Stewardship Schemes                    | 0                        | 0     | 0       | -        | -         |
| Page                  | Section                 | <a href="#">Habitat designations</a>               | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 120                   | 13.1                    | Priority Habitat Inventory                         | 0                        | 0     | 0       | -        | -         |
| 120                   | 13.2                    | Habitat Networks                                   | 0                        | 0     | 0       | -        | -         |
| 120                   | 13.3                    | Open Mosaic Habitat                                | 0                        | 0     | 0       | -        | -         |
| 120                   | 13.4                    | Limestone Pavement Orders                          | 0                        | 0     | 0       | -        | -         |
| Page                  | Section                 | <a href="#">Geology 1:10,000 scale</a> >           | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">121</a> > | <a href="#">14.1</a> >  | <a href="#">10k Availability</a> >                 | Identified (within 500m) |       |         |          |           |
| <a href="#">122</a> > | <a href="#">14.2</a> >  | <a href="#">Artificial and made ground (10k)</a> > | 0                        | 0     | 1       | 1        | -         |
| <a href="#">123</a> > | <a href="#">14.3</a> >  | <a href="#">Superficial geology (10k)</a> >        | 1                        | 0     | 0       | 2        | -         |

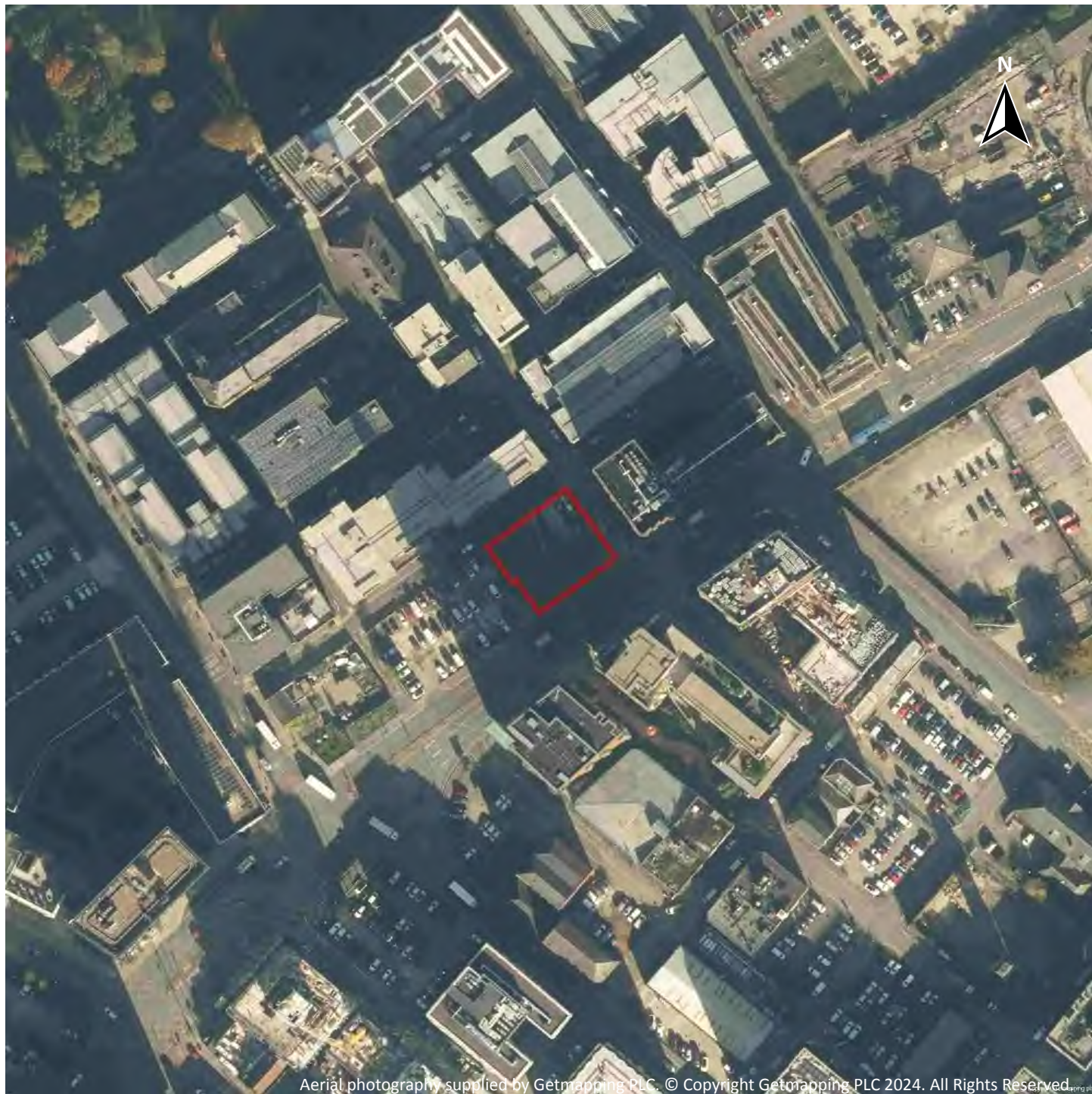
| 124                      | 14.4                       | Landslip (10k)                                                      | 0                        | 0     | 0       | 0        | -         |
|--------------------------|----------------------------|---------------------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| <a href="#">125 &gt;</a> | <a href="#">14.5 &gt;</a>  | <a href="#">Bedrock geology (10k) &gt;</a>                          | 1                        | 0     | 0       | 4        | -         |
| <a href="#">126 &gt;</a> | <a href="#">14.6 &gt;</a>  | <a href="#">Bedrock faults and other linear features (10k) &gt;</a> | 0                        | 1     | 0       | 3        | -         |
| Page                     | Section                    | <a href="#">Geology 1:50,000 scale &gt;</a>                         | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">127 &gt;</a> | <a href="#">15.1 &gt;</a>  | <a href="#">50k Availability &gt;</a>                               | Identified (within 500m) |       |         |          |           |
| <a href="#">128 &gt;</a> | <a href="#">15.2 &gt;</a>  | <a href="#">Artificial and made ground (50k) &gt;</a>               | 0                        | 0     | 1       | 0        | -         |
| 129                      | 15.3                       | Artificial ground permeability (50k)                                | 0                        | 0     | -       | -        | -         |
| <a href="#">130 &gt;</a> | <a href="#">15.4 &gt;</a>  | <a href="#">Superficial geology (50k) &gt;</a>                      | 1                        | 0     | 0       | 1        | -         |
| <a href="#">131 &gt;</a> | <a href="#">15.5 &gt;</a>  | <a href="#">Superficial permeability (50k) &gt;</a>                 | Identified (within 50m)  |       |         |          |           |
| 131                      | 15.6                       | Landslip (50k)                                                      | 0                        | 0     | 0       | 0        | -         |
| 131                      | 15.7                       | Landslip permeability (50k)                                         | None (within 50m)        |       |         |          |           |
| <a href="#">132 &gt;</a> | <a href="#">15.8 &gt;</a>  | <a href="#">Bedrock geology (50k) &gt;</a>                          | 1                        | 0     | 0       | 2        | -         |
| <a href="#">133 &gt;</a> | <a href="#">15.9 &gt;</a>  | <a href="#">Bedrock permeability (50k) &gt;</a>                     | Identified (within 50m)  |       |         |          |           |
| <a href="#">133 &gt;</a> | <a href="#">15.10 &gt;</a> | <a href="#">Bedrock faults and other linear features (50k) &gt;</a> | 0                        | 1     | 0       | 2        | -         |
| Page                     | Section                    | <a href="#">Boreholes &gt;</a>                                      | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">134 &gt;</a> | <a href="#">16.1 &gt;</a>  | <a href="#">BGS Boreholes &gt;</a>                                  | 0                        | 2     | 38      | -        | -         |
| Page                     | Section                    | <a href="#">Natural ground subsidence &gt;</a>                      |                          |       |         |          |           |
| <a href="#">137 &gt;</a> | <a href="#">17.1 &gt;</a>  | <a href="#">Shrink swell clays &gt;</a>                             | Very low (within 50m)    |       |         |          |           |
| <a href="#">138 &gt;</a> | <a href="#">17.2 &gt;</a>  | <a href="#">Running sands &gt;</a>                                  | Very low (within 50m)    |       |         |          |           |
| <a href="#">139 &gt;</a> | <a href="#">17.3 &gt;</a>  | <a href="#">Compressible deposits &gt;</a>                          | Negligible (within 50m)  |       |         |          |           |
| <a href="#">140 &gt;</a> | <a href="#">17.4 &gt;</a>  | <a href="#">Collapsible deposits &gt;</a>                           | Very low (within 50m)    |       |         |          |           |
| <a href="#">141 &gt;</a> | <a href="#">17.5 &gt;</a>  | <a href="#">Landslides &gt;</a>                                     | Very low (within 50m)    |       |         |          |           |
| <a href="#">142 &gt;</a> | <a href="#">17.6 &gt;</a>  | <a href="#">Ground dissolution of soluble rocks &gt;</a>            | Negligible (within 50m)  |       |         |          |           |
| Page                     | Section                    | <a href="#">Mining and ground workings &gt;</a>                     | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 144                      | 18.1                       | BritPits                                                            | 0                        | 0     | 0       | 0        | -         |
| <a href="#">145 &gt;</a> | <a href="#">18.2 &gt;</a>  | <a href="#">Surface ground workings &gt;</a>                        | 0                        | 0     | 3       | -        | -         |
| <a href="#">145 &gt;</a> | <a href="#">18.3 &gt;</a>  | <a href="#">Underground workings &gt;</a>                           | 0                        | 0     | 0       | 0        | 10        |
| 146                      | 18.4                       | Underground mining extents                                          | 0                        | 0     | 0       | 0        | -         |
| 146                      | 18.5                       | Historical Mineral Planning Areas                                   | 0                        | 0     | 0       | 0        | -         |



| <a href="#">146</a> > | <a href="#">18.6</a> >  | <a href="#">Non-coal mining</a> >                         | 0                        | 0     | 0       | 0        | 1         |
|-----------------------|-------------------------|-----------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| <a href="#">146</a> > | <a href="#">18.7</a> >  | <a href="#">JPB mining areas</a> >                        | Identified (within 0m)   |       |         |          |           |
| 147                   | 18.8                    | The Coal Authority non-coal mining                        | 0                        | 0     | 0       | 0        | -         |
| 147                   | 18.9                    | Researched mining                                         | 0                        | 0     | 0       | 0        | -         |
| 147                   | 18.10                   | Mining record office plans                                | 0                        | 0     | 0       | 0        | -         |
| 148                   | 18.11                   | BGS mine plans                                            | 0                        | 0     | 0       | 0        | -         |
| <a href="#">148</a> > | <a href="#">18.12</a> > | <a href="#">Coal mining</a> >                             | Identified (within 0m)   |       |         |          |           |
| 148                   | 18.13                   | Brine areas                                               | None (within 0m)         |       |         |          |           |
| 148                   | 18.14                   | Gypsum areas                                              | None (within 0m)         |       |         |          |           |
| 148                   | 18.15                   | Tin mining                                                | None (within 0m)         |       |         |          |           |
| 149                   | 18.16                   | Clay mining                                               | None (within 0m)         |       |         |          |           |
| Page                  | Section                 | Ground cavities and sinkholes                             | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 150                   | 19.1                    | Natural cavities                                          | 0                        | 0     | 0       | 0        | -         |
| 150                   | 19.2                    | Mining cavities                                           | 0                        | 0     | 0       | 0        | 0         |
| 150                   | 19.3                    | Reported recent incidents                                 | 0                        | 0     | 0       | 0        | -         |
| 150                   | 19.4                    | Historical incidents                                      | 0                        | 0     | 0       | 0        | -         |
| 151                   | 19.5                    | National karst database                                   | 0                        | 0     | 0       | 0        | -         |
| Page                  | Section                 | <a href="#">Radon</a> >                                   |                          |       |         |          |           |
| <a href="#">152</a> > | <a href="#">20.1</a> >  | <a href="#">Radon</a> >                                   | Less than 1% (within 0m) |       |         |          |           |
| Page                  | Section                 | <a href="#">Soil chemistry</a> >                          | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">154</a> > | <a href="#">21.1</a> >  | <a href="#">BGS Estimated Background Soil Chemistry</a> > | 2                        | 1     | -       | -        | -         |
| <a href="#">154</a> > | <a href="#">21.2</a> >  | <a href="#">BGS Estimated Urban Soil Chemistry</a> >      | 2                        | 3     | -       | -        | -         |
| 155                   | 21.3                    | BGS Measured Urban Soil Chemistry                         | 0                        | 0     | -       | -        | -         |
| Page                  | Section                 | <a href="#">Railway infrastructure and projects</a> >     | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 156                   | 22.1                    | Underground railways (London)                             | 0                        | 0     | 0       | -        | -         |
| 156                   | 22.2                    | Underground railways (Non-London)                         | 0                        | 0     | 0       | -        | -         |
| 157                   | 22.3                    | Railway tunnels                                           | 0                        | 0     | 0       | -        | -         |
| <a href="#">157</a> > | <a href="#">22.4</a> >  | <a href="#">Historical railway and tunnel features</a> >  | 0                        | 0     | 35      | -        | -         |
| 158                   | 22.5                    | Royal Mail tunnels                                        | 0                        | 0     | 0       | -        | -         |

|     |       |                     |   |   |   |   |   |
|-----|-------|---------------------|---|---|---|---|---|
| 159 | 22.6  | Historical railways | 0 | 0 | 0 | - | - |
| 159 | 22.7  | Railways            | 0 | 0 | 0 | - | - |
| 159 | 22.8  | Crossrail 1         | 0 | 0 | 0 | 0 | - |
| 159 | 22.9  | Crossrail 2         | 0 | 0 | 0 | 0 | - |
| 159 | 22.10 | HS2                 | 0 | 0 | 0 | 0 | - |

## Recent aerial photograph



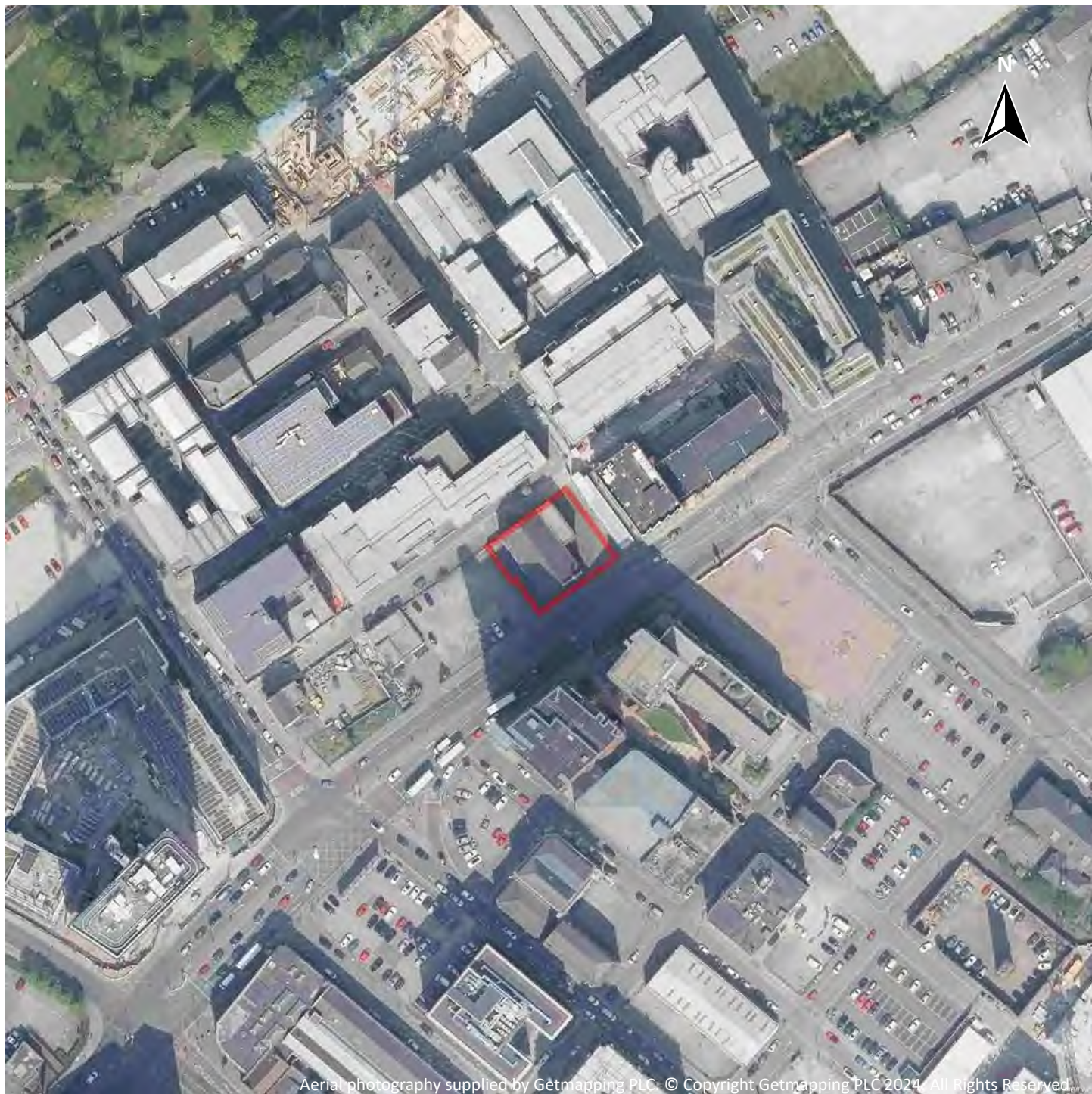
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 18/10/2022

Site Area: 0.08ha



## Recent site history - 2019 aerial photograph



Capture Date: 22/04/2019

Site Area: 0.08ha



## Recent site history - 2015 aerial photograph



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

Capture Date: 11/06/2015

Site Area: 0.08ha



## Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.08ha



## Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 0.08ha



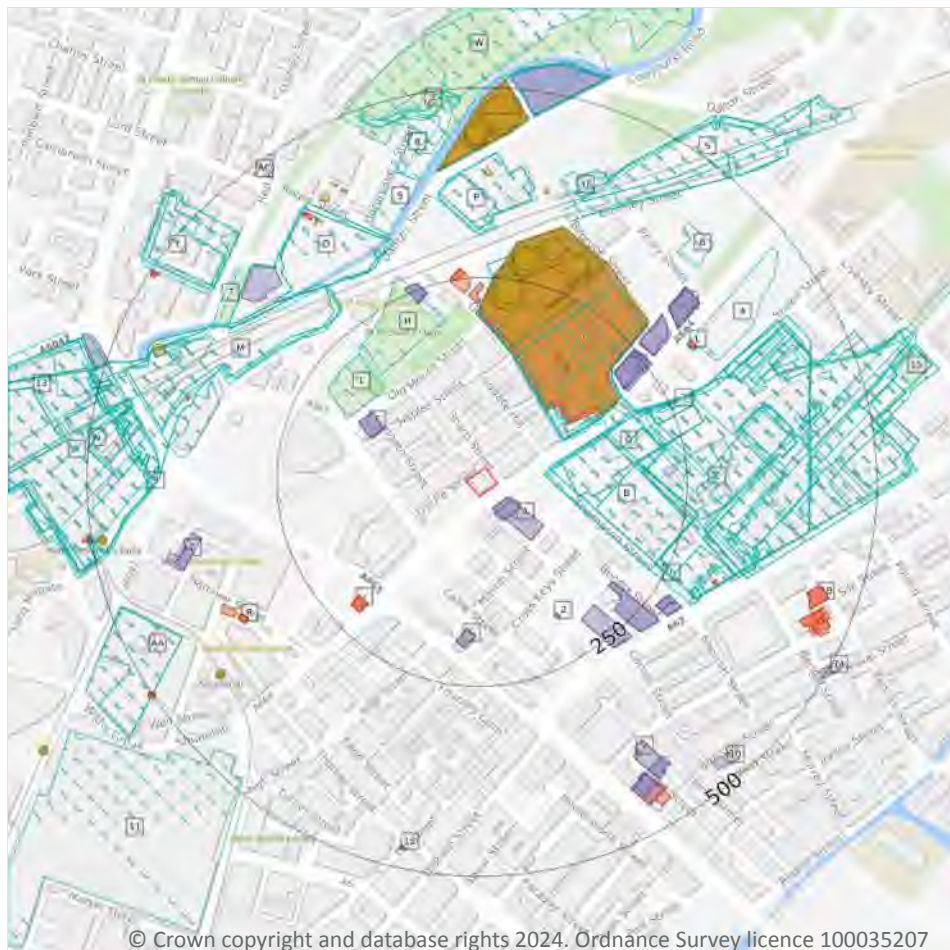
## OS MasterMap site plan



Site Area: 0.08ha



## 1 Past land use



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

### 1.1 Historical industrial land uses

Records within 500m

191

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 1:10,560 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

| ID | Location | Land use      | Dates present | Group ID |
|----|----------|---------------|---------------|----------|
| B  | 62m E    | Goods Station | 1933 - 1938   | 948848   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| B  | 63m E    | Goods Shed                        | 1921 - 1923   | 856754   |
| C  | 71m E    | Unspecified Depot                 | 1985          | 818411   |
| C  | 71m E    | Railway Sidings                   | 1956          | 988070   |
| D  | 89m E    | Railway Building                  | 1978          | 863970   |
| D  | 89m E    | Railway Building                  | 1971          | 893090   |
| D  | 89m E    | Railway Building                  | 1985          | 964524   |
| E  | 103m NE  | Unspecified Commercial/Industrial | 1923          | 852600   |
| E  | 104m NE  | Unspecified Commercial/Industrial | 1933 - 1938   | 855454   |
| E  | 104m NE  | Unspecified Commercial/Industrial | 1891          | 900580   |
| E  | 107m NE  | Unspecified Commercial/Industrial | 1921          | 899114   |
| E  | 114m NE  | Unspecified Commercial/Industrial | 1956          | 893063   |
| C  | 114m NE  | Railway Sidings                   | 1891          | 952502   |
| E  | 126m NE  | Unspecified Depot                 | 1988 - 1994   | 943169   |
| B  | 133m E   | Railway Building                  | 1985          | 820394   |
| B  | 133m E   | Goods Station                     | 1956 - 1971   | 907126   |
| B  | 133m E   | Goods Station                     | 1978          | 910356   |
| E  | 145m NE  | Railway Sidings                   | 1956          | 990431   |
| C  | 155m E   | Unspecified Commercial/Industrial | 1906 - 1921   | 945036   |
| C  | 155m E   | Railway Sidings                   | 1906 - 1938   | 960473   |
| E  | 156m N   | Gas Works                         | 1921 - 1923   | 898774   |
| E  | 160m N   | Gas Works                         | 1906          | 871049   |
| 1  | 162m NW  | Disused Grave Yard                | 1978          | 831119   |
| E  | 165m N   | Unspecified Commercial/Industrial | 1956          | 888742   |
| C  | 176m E   | Unspecified Commercial/Industrial | 1891          | 848669   |
| E  | 177m N   | Gas Works                         | 1851          | 985416   |
| H  | 178m NW  | Grave Yard                        | 1851          | 817297   |
| C  | 185m E   | Railway Sidings                   | 1971          | 893733   |
| C  | 185m E   | Railway Sidings                   | 1978 - 1985   | 962506   |



| ID | Location | Land use          | Dates present | Group ID |
|----|----------|-------------------|---------------|----------|
| E  | 189m N   | Gas Works         | 1971          | 933471   |
| E  | 189m N   | Gas Works         | 1978 - 1985   | 979009   |
| C  | 206m E   | Railway Sidings   | 1851          | 929380   |
| E  | 207m N   | Gasometer         | 1851          | 873568   |
| E  | 208m N   | Unspecified Tank  | 1933          | 825275   |
| E  | 208m N   | Gasometer         | 1906 - 1923   | 904595   |
| E  | 208m N   | Unspecified Tanks | 1938          | 967707   |
| E  | 208m N   | Unspecified Tanks | 1891          | 983548   |
| E  | 215m N   | Unspecified Tanks | 1956          | 951765   |
| E  | 215m N   | Gasometer         | 1978          | 855772   |
| E  | 215m N   | Gasometer         | 1971          | 882554   |
| C  | 220m E   | Railway Building  | 1851          | 936143   |
| 3  | 233m E   | Railway Building  | 1938          | 820396   |
| I  | 248m SE  | Railway Building  | 1938          | 820395   |
| E  | 252m N   | Unspecified Tanks | 1971          | 920274   |
| E  | 252m N   | Unspecified Tanks | 1978          | 901396   |
| E  | 257m N   | Gasometer         | 1906 - 1923   | 885946   |
| E  | 257m N   | Unspecified Tank  | 1891          | 924769   |
| E  | 257m N   | Unspecified Tank  | 1933 - 1938   | 965032   |
| C  | 262m E   | Fire Station      | 1988 - 1994   | 925390   |
| M  | 272m NW  | Railway Sidings   | 1923          | 940408   |
| N  | 275m NW  | Railway Sidings   | 1956 - 1971   | 858586   |
| N  | 275m NW  | Railway Sidings   | 1985 - 1994   | 894545   |
| N  | 275m NW  | Railway Sidings   | 1978          | 975236   |
| E  | 277m N   | Gasometer         | 1906 - 1923   | 857096   |
| E  | 277m N   | Unspecified Tank  | 1891          | 868883   |
| E  | 277m N   | Unspecified Tank  | 1933 - 1938   | 936967   |
| M  | 277m NW  | Railway Sidings   | 1931 - 1938   | 856860   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| M  | 277m NW  | Railway Sidings                   | 1906 - 1916   | 866321   |
| C  | 278m E   | Railway Station                   | 1851          | 822944   |
| C  | 278m E   | Railway Building                  | 1978          | 873626   |
| C  | 278m E   | Railway Building                  | 1956 - 1971   | 887537   |
| C  | 280m E   | Unspecified Commercial/Industrial | 1923          | 911009   |
| C  | 281m E   | Railway Building                  | 1938          | 991355   |
| E  | 283m NE  | Unspecified Tank                  | 1891          | 825281   |
| C  | 285m E   | Railway Building                  | 1985          | 966505   |
| I  | 286m SE  | Railway Building                  | 1956          | 937629   |
| I  | 290m SE  | Railway Building                  | 1978          | 962352   |
| I  | 290m SE  | Railway Building                  | 1985          | 985358   |
| I  | 290m SE  | Railway Building                  | 1971          | 992000   |
| I  | 293m SE  | Railway Building                  | 1956 - 1971   | 924812   |
| I  | 293m SE  | Railway Building                  | 1978          | 952803   |
| I  | 293m SE  | Railway Building                  | 1985          | 967480   |
| I  | 295m SE  | Railway Building                  | 1938 - 1956   | 940179   |
| O  | 299m NW  | Iron Works                        | 1906          | 851941   |
| O  | 299m NW  | Iron Works                        | 1938          | 876520   |
| O  | 299m NW  | Iron Works                        | 1923 - 1931   | 933061   |
| O  | 299m NW  | Iron Works                        | 1916          | 930264   |
| O  | 300m NW  | Unspecified Works                 | 1971          | 849948   |
| O  | 300m NW  | Unspecified Works                 | 1978          | 919630   |
| O  | 300m NW  | Iron Works                        | 1956          | 936332   |
| O  | 300m NW  | Unspecified Works                 | 1985          | 988311   |
| P  | 307m N   | Rubber Works                      | 1933 - 1938   | 970692   |
| P  | 308m N   | Rubber Works                      | 1923          | 963246   |
| 4  | 309m NE  | Bus Depot                         | 1978          | 832317   |
| P  | 314m N   | Unspecified Works                 | 1978          | 866997   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| P  | 314m N   | Unspecified Works                 | 1985          | 890872   |
| C  | 319m E   | Goods Station                     | 1906          | 821663   |
| C  | 319m E   | Goods Shed                        | 1923 - 1938   | 923020   |
| P  | 323m N   | Unspecified Works                 | 1988 - 1994   | 885381   |
| C  | 324m E   | Goods Shed                        | 1921          | 912383   |
| C  | 329m E   | Railway Building                  | 1985          | 851516   |
| C  | 329m E   | Railway Building                  | 1978          | 886595   |
| C  | 329m E   | Railway Building                  | 1956 - 1971   | 991623   |
| 5  | 331m N   | Unspecified Commercial/Industrial | 1923          | 796751   |
| C  | 334m NE  | Railway Buildings                 | 1971          | 890026   |
| C  | 334m NE  | Railway Buildings                 | 1978          | 904671   |
| C  | 334m NE  | Railway Buildings                 | 1985          | 976778   |
| C  | 335m NE  | Railway Building                  | 1956          | 820415   |
| C  | 341m E   | Railway Building                  | 1985          | 987455   |
| S  | 342m N   | Railway Sidings                   | 1891          | 966175   |
| N  | 342m W   | Unspecified Commercial/Industrial | 1923          | 796753   |
| C  | 346m E   | Railway Building                  | 1971          | 847949   |
| C  | 346m E   | Railway Building                  | 1978          | 862044   |
| C  | 346m E   | Railway Building                  | 1985          | 948508   |
| C  | 351m E   | Railway Building                  | 1956          | 965368   |
| C  | 351m E   | Railway Building                  | 1923          | 925478   |
| S  | 354m N   | Railway Sidings                   | 1923          | 938097   |
| C  | 359m E   | Railway Building                  | 1923          | 820428   |
| C  | 360m E   | Railway Building                  | 1956          | 952415   |
| S  | 373m N   | Railway Sidings                   | 1933 - 1938   | 899799   |
| S  | 373m N   | Railway Sidings                   | 1906 - 1921   | 984232   |
| U  | 378m N   | Railway Building                  | 1923          | 820409   |
| 6  | 380m NE  | Police Station                    | 1985 - 1994   | 944528   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| N  | 382m NW  | Railway Sidings                   | 1894          | 918058   |
| W  | 387m N   | Railway Sidings                   | 1906 - 1994   | 2367776  |
| S  | 388m NE  | Railway Sidings                   | 1971 - 1988   | 891110   |
| S  | 388m NE  | Railway Sidings                   | 1956          | 915512   |
| 7  | 389m NW  | Railway Building                  | 1894          | 820406   |
| U  | 389m N   | Railway Building                  | 1923          | 820408   |
| U  | 391m N   | Unspecified Ground Workings       | 1956          | 800626   |
| C  | 392m E   | Railway Building                  | 1978          | 856971   |
| C  | 392m E   | Railway Building                  | 1971          | 978761   |
| P  | 393m N   | Unspecified Commercial/Industrial | 1923          | 877652   |
| C  | 397m E   | Railway Building                  | 1923          | 844951   |
| P  | 398m N   | Unspecified Commercial/Industrial | 1956          | 849656   |
| C  | 400m E   | Railway Buildings                 | 1891          | 833665   |
| 8  | 402m N   | Refuse Heap                       | 1933 - 1938   | 944667   |
| N  | 402m W   | Railway Building                  | 1916          | 876678   |
| N  | 402m W   | Railway Building                  | 1931          | 990567   |
| C  | 402m E   | Railway Building                  | 1923          | 862543   |
| C  | 405m E   | Railway Building                  | 1923          | 820429   |
| N  | 405m W   | Railway Sidings                   | 1906 - 1916   | 869948   |
| N  | 405m W   | Railway Sidings                   | 1931 - 1938   | 965979   |
| X  | 405m W   | Railway Station                   | 1906 - 1916   | 850180   |
| X  | 405m W   | Railway Station                   | 1931 - 1938   | 955531   |
| C  | 405m E   | Railway Building                  | 1938          | 946193   |
| N  | 407m W   | Railway Sidings                   | 1923          | 896600   |
| N  | 407m W   | Railway Building                  | 1923          | 820404   |
| 9  | 407m W   | Railway Building                  | 1923          | 820398   |
| N  | 408m NW  | Railway Building                  | 1985          | 925125   |
| C  | 410m E   | Railway Sidings                   | 1968          | 844444   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| N  | 410m NW  | Railway Building                  | 1971          | 962973   |
| N  | 411m NW  | Railway Building                  | 1931          | 871716   |
| N  | 411m NW  | Railway Building                  | 1916          | 928990   |
| C  | 412m E   | Goods Station                     | 1923          | 821664   |
| C  | 412m E   | Unspecified Commercial/Industrial | 1956          | 939440   |
| C  | 413m E   | Police Station                    | 1851          | 832595   |
| X  | 414m W   | Railway Station                   | 1978          | 848398   |
| X  | 414m W   | Railway Station                   | 1971          | 933110   |
| X  | 414m W   | Railway Station                   | 1956          | 944542   |
| C  | 414m E   | Good Station                      | 1921          | 797870   |
| C  | 414m E   | Railway Building                  | 1933 - 1968   | 894084   |
| X  | 415m W   | Railway Station                   | 1985 - 1988   | 946558   |
| P  | 417m N   | Unspecified Tank                  | 1891 - 1938   | 940246   |
| Y  | 417m NW  | Unspecified Commercial/Industrial | 1923 - 1931   | 845927   |
| X  | 418m W   | Railway Station                   | 1923          | 982510   |
| Z  | 419m N   | Unspecified Ground Workings       | 1921          | 905219   |
| Y  | 419m NW  | Unspecified Works                 | 1985 - 1988   | 870906   |
| Y  | 419m NW  | Unspecified Works                 | 1978          | 932157   |
| Y  | 419m NW  | Unspecified Works                 | 1971          | 978140   |
| Y  | 422m NW  | Unspecified Commercial/Industrial | 1916          | 973762   |
| Y  | 424m NW  | Unspecified Commercial/Industrial | 1938          | 905224   |
| P  | 426m N   | Unspecified Tanks                 | 1956          | 952176   |
| AA | 427m SW  | Unspecified Commercial/Industrial | 1916          | 919326   |
| AA | 427m SW  | Unspecified Commercial/Industrial | 1931          | 988948   |
| AA | 427m SW  | Unspecified Commercial/Industrial | 1938          | 856039   |
| N  | 432m NW  | Railway Building                  | 1923          | 989904   |
| N  | 434m NW  | Railway Building                  | 1931          | 820405   |
| X  | 434m W   | Gravel Yard                       | 1851          | 834691   |



| ID | Location | Land use                    | Dates present | Group ID |
|----|----------|-----------------------------|---------------|----------|
| P  | 436m N   | Unspecified Tank            | 1923          | 877926   |
| P  | 436m N   | Unspecified Tank            | 1938          | 883812   |
| P  | 436m N   | Unspecified Tanks           | 1921          | 889282   |
| P  | 436m N   | Unspecified Tank            | 1891 - 1906   | 901711   |
| P  | 436m N   | Unspecified Tanks           | 1933          | 911005   |
| C  | 446m E   | Potato Shed                 | 1968          | 802280   |
| C  | 446m E   | Railway Building            | 1956          | 820427   |
| X  | 447m W   | Railway Stations            | 1894          | 814475   |
| X  | 454m W   | Railway Station             | 1994          | 938921   |
| C  | 456m E   | Railway Building            | 1923          | 990168   |
| C  | 457m E   | Railway Building            | 1938          | 969824   |
| Z  | 464m N   | Unspecified Ground Workings | 1988 - 1994   | 878030   |
| Z  | 466m N   | Unspecified Ground Workings | 1956          | 952523   |
| P  | 466m N   | Unspecified Depot           | 1985 - 1994   | 951202   |
| P  | 466m N   | Unspecified Depot           | 1978          | 887857   |
| C  | 468m E   | Railway Building            | 1891          | 820426   |
| 11 | 469m SW  | Bus Station                 | 1985 - 1994   | 940823   |
| N  | 469m W   | Railway Building            | 1894          | 820403   |
| 13 | 483m W   | Workhouse                   | 1851          | 794985   |
| W  | 489m N   | Railway Sidings             | 1891          | 847105   |
| 15 | 494m E   | Unspecified Works           | 1968          | 830453   |
| S  | 499m NE  | Railway Building            | 1923          | 820416   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 1.2 Historical tanks

**Records within 500m**

**84**

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or



succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| E  | 116m NE  | Gas Works        | 1949 - 1952   | 147458   |
| E  | 163m NE  | Tanks            | 1949 - 1952   | 125888   |
| E  | 164m N   | Gas Works        | 1970          | 125307   |
| E  | 167m NE  | Tanks            | 1949 - 1952   | 141887   |
| E  | 168m NE  | Tanks            | 1949 - 1952   | 139306   |
| E  | 168m NE  | Tanks            | 1949 - 1952   | 124911   |
| E  | 170m NE  | Tanks            | 1949 - 1952   | 127628   |
| E  | 209m N   | Gasometer        | 1893 - 1970   | 137091   |
| E  | 209m N   | Unspecified Tank | 1931 - 1964   | 144572   |
| E  | 209m N   | Gasometer        | 1891          | 124649   |
| E  | 217m N   | Gasometer        | 1949 - 1952   | 129138   |
| E  | 219m N   | Unspecified Tank | 1931          | 116015   |
| E  | 221m N   | Tanks            | 1893          | 128327   |
| E  | 222m N   | Unspecified Tank | 1958          | 129249   |
| E  | 222m N   | Unspecified Tank | 1958          | 139650   |
| E  | 222m N   | Tanks            | 1891          | 126147   |
| E  | 222m N   | Unspecified Tank | 1964          | 140647   |
| E  | 237m NE  | Unspecified Tank | 1891          | 116044   |
| E  | 243m NE  | Unspecified Tank | 1891          | 116042   |
| E  | 249m NE  | Unspecified Tank | 1891          | 116043   |
| E  | 249m N   | Unspecified Tank | 1891 - 1931   | 135459   |
| E  | 251m NE  | Unspecified Tank | 1891          | 116041   |
| E  | 255m N   | Gasometers       | 1893          | 149293   |
| E  | 256m N   | Tanks            | 1931          | 106838   |
| E  | 256m N   | Gasometers       | 1908 - 1922   | 135222   |
| E  | 256m N   | Unspecified Tank | 1958 - 1964   | 128516   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| E  | 257m N   | Gasometer        | 1891 - 1970   | 138173   |
| E  | 259m NE  | Tanks            | 1952          | 128060   |
| E  | 259m NE  | Tanks            | 1949          | 149212   |
| E  | 259m NE  | Tanks            | 1949 - 1952   | 122334   |
| E  | 265m N   | Unspecified Tank | 1958 - 1964   | 145904   |
| E  | 267m NE  | Unspecified Tank | 1891          | 116045   |
| E  | 268m NE  | Tanks            | 1949 - 1952   | 126610   |
| E  | 274m NE  | Tanks            | 1952          | 146176   |
| E  | 276m NE  | Gasometer        | 1891          | 108528   |
| E  | 277m NE  | Tanks            | 1891 - 1893   | 143344   |
| E  | 278m N   | Gasometer        | 1891          | 130378   |
| E  | 278m NE  | Unspecified Tank | 1958 - 1964   | 138368   |
| E  | 286m N   | Unspecified Tank | 1958 - 1964   | 135314   |
| E  | 286m N   | Gasometer        | 1949 - 1952   | 140097   |
| E  | 286m N   | Gasometer        | 1949 - 1970   | 131636   |
| E  | 286m N   | Unspecified Tank | 1958          | 138197   |
| E  | 294m NE  | Unspecified Tank | 1891          | 116046   |
| C  | 337m E   | Unspecified Tank | 1891          | 116004   |
| O  | 364m NW  | Unspecified Tank | 1891          | 116014   |
| U  | 369m N   | Unspecified Tank | 1958          | 129894   |
| P  | 382m N   | Tanks            | 1949 - 1952   | 136817   |
| O  | 390m NW  | Unspecified Tank | 1908 - 1922   | 145358   |
| O  | 392m NW  | Unspecified Tank | 1958          | 116016   |
| P  | 396m N   | Gas Works        | 1949 - 1952   | 147827   |
| P  | 397m N   | Gas Works        | 1949 - 1952   | 145203   |
| O  | 405m NW  | Tanks            | 1952          | 122840   |
| O  | 408m NW  | Tanks            | 1963 - 1990   | 135076   |
| N  | 412m W   | Unspecified Tank | 1949 - 1964   | 133849   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| C  | 417m E   | Unspecified Tank | 1908          | 116003   |
| O  | 418m NW  | Tanks            | 1990          | 106862   |
| P  | 419m N   | Tanks            | 1931 - 1958   | 134997   |
| P  | 419m N   | Gasometers       | 1908 - 1922   | 147538   |
| P  | 420m N   | Gasometer        | 1891 - 1952   | 146675   |
| P  | 421m N   | Gasometer        | 1893          | 146069   |
| P  | 425m N   | Unspecified Tank | 1958 - 1964   | 128286   |
| P  | 426m N   | Gasometer        | 1949 - 1952   | 139782   |
| N  | 432m W   | Unspecified Tank | 1949          | 116005   |
| P  | 435m N   | Unspecified Tank | 1891          | 116028   |
| P  | 438m N   | Gasometer        | 1891 - 1893   | 142311   |
| P  | 441m N   | Unspecified Tank | 1958 - 1964   | 141504   |
| P  | 445m N   | Unspecified Tank | 1958          | 141682   |
| P  | 445m N   | Gasometer        | 1949 - 1952   | 146935   |
| P  | 445m N   | Unspecified Tank | 1964          | 129536   |
| P  | 445m N   | Gasometer        | 1949 - 1952   | 137884   |
| C  | 453m E   | Unspecified Tank | 1891          | 116001   |
| P  | 460m N   | Unspecified Tank | 1891          | 116027   |
| P  | 466m N   | Unspecified Tank | 1958          | 123707   |
| P  | 466m N   | Unspecified Tank | 1958          | 135369   |
| P  | 466m N   | Gas Works        | 1952          | 145819   |
| P  | 466m N   | Gasometer        | 1952          | 122698   |
| P  | 467m N   | Unspecified Tank | 1964          | 140262   |
| Z  | 484m N   | Unspecified Tank | 1891          | 116023   |
| Z  | 488m N   | Unspecified Tank | 1891          | 116024   |
| AC | 490m NW  | Unspecified Tank | 1952          | 139714   |
| AC | 492m NW  | Unspecified Tank | 1952          | 135439   |
| AC | 492m NW  | Unspecified Tank | 1963 - 1964   | 141033   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| Z  | 499m N   | Tanks            | 1891          | 106863   |
| Z  | 500m N   | Unspecified Tank | 1891          | 116025   |

*This data is sourced from Ordnance Survey / Groundsure.*

### 1.3 Historical energy features

#### Records within 500m

65

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 un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| E  | 108m NE  | Gas Work               | 1893 - 1922   | 64181    |
| E  | 111m NE  | Corporation Gas Works  | 1891          | 81629    |
| E  | 116m NE  | Gas Works              | 1949 - 1952   | 78529    |
| E  | 155m N   | Electricity Substation | 1989 - 1994   | 84672    |
| E  | 155m N   | Electricity Substation | 1984          | 67824    |
| E  | 164m N   | Gas Works              | 1970          | 74802    |
| 2  | 185m SE  | Electricity Substation | 1984 - 1995   | 79779    |
| E  | 190m N   | Electricity Substation | 1970          | 62196    |
| J  | 203m SW  | Electricity Substation | 1953          | 72139    |
| J  | 204m SW  | Electricity Substation | 1948 - 1980   | 65345    |
| J  | 207m SW  | Electricity Substation | 1986 - 1992   | 70345    |
| E  | 209m N   | Gasometer              | 1893 - 1970   | 67831    |
| E  | 209m N   | Gasometer              | 1891          | 83973    |
| E  | 216m N   | Electricity Substation | 1970 - 1989   | 80781    |
| E  | 217m N   | Gasometer              | 1949 - 1952   | 76759    |
| E  | 231m N   | Electricity Substation | 1984          | 76742    |



| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| E  | 249m N   | Electricity Substation | 1993 - 1994   | 65101    |
| E  | 255m N   | Gasometers             | 1893          | 83216    |
| E  | 256m N   | Gasometers             | 1908 - 1922   | 76658    |
| E  | 257m N   | Gasometer              | 1891 - 1970   | 68352    |
| E  | 276m NE  | Gasometer              | 1891          | 59721    |
| E  | 278m N   | Gasometer              | 1891          | 78215    |
| E  | 286m N   | Gasometer              | 1949 - 1952   | 71892    |
| E  | 286m N   | Gasometer              | 1949 - 1970   | 80243    |
| L  | 311m NE  | Electricity Substation | 1952 - 1994   | 64598    |
| L  | 311m NE  | Electricity Substation | 1952          | 78153    |
| I  | 312m SE  | Electricity Substation | 1988 - 1995   | 66419    |
| R  | 339m SW  | Electricity Substation | 1948 - 1992   | 68894    |
| R  | 340m SW  | Electricity Substation | 1980          | 74220    |
| R  | 348m SW  | Electricity Substation | 1953          | 62197    |
| N  | 380m W   | Electricity Substation | 1990 - 1995   | 72645    |
| V  | 392m SE  | Electricity Substation | 1988          | 62189    |
| P  | 396m N   | Gas Works              | 1949 - 1952   | 65382    |
| V  | 396m SE  | Electricity Substation | 1995          | 62190    |
| P  | 397m N   | Gas Works              | 1949 - 1952   | 76664    |
| O  | 399m NW  | Electricity Substation | 1949          | 64848    |
| O  | 399m NW  | Electricity Substation | 1949 - 1952   | 69035    |
| O  | 407m NW  | Electricity Substation | 1952          | 66277    |
| P  | 419m N   | Gasometers             | 1908 - 1922   | 72342    |
| P  | 420m N   | Gasometer              | 1891 - 1952   | 79302    |
| P  | 421m N   | Gasometer              | 1893          | 67441    |
| AB | 432m E   | Electricity Substation | 1951 - 1953   | 68562    |
| AB | 432m E   | Electricity Substation | 1967          | 85080    |
| AB | 435m E   | Electricity Substation | 1948          | 82960    |



| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| AB | 437m SE  | Electricity Substation | 1948 - 1988   | 69737    |
| V  | 437m SE  | Electricity Substation | 1988 - 1995   | 73444    |
| AB | 437m SE  | Electricity Substation | 1994 - 1995   | 77530    |
| P  | 438m N   | Gasometer              | 1891          | 75716    |
| P  | 439m N   | Gasometer              | 1893          | 66162    |
| V  | 441m SE  | Electricity Substation | 1953 - 1984   | 66121    |
| V  | 443m SE  | Electricity Substation | 1953          | 79102    |
| P  | 445m N   | Gasometer              | 1949 - 1952   | 65786    |
| P  | 445m N   | Gasometer              | 1949 - 1952   | 64144    |
| AB | 449m SE  | Electricity Substation | 1908 - 1951   | 64523    |
| AB | 457m E   | Electricity Substation | 1983          | 68145    |
| AB | 457m E   | Electricity Substation | 1978          | 81137    |
| AB | 457m E   | Electricity Substation | 1991          | 84212    |
| P  | 466m N   | Gas Works              | 1952          | 64023    |
| P  | 466m N   | Gasometer              | 1952          | 73746    |
| 12 | 470m S   | Electricity Substation | 1980 - 1992   | 84709    |
| Y  | 487m NW  | Electricity Substation | 1990          | 82431    |
| Y  | 491m NW  | Electricity Substation | 1949 - 1952   | 71824    |
| Y  | 491m NW  | Electricity Substation | 1949 - 1995   | 74729    |
| AA | 496m SW  | Electricity Substation | 1948 - 1953   | 76409    |
| AA | 497m SW  | Electricity Substation | 1953          | 75919    |

*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

43

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

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

| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| A  | 22m SE   | Garage   | 1995          | 22760    |
| A  | 23m SE   | Garage   | 1953 - 1988   | 24669    |
| A  | 29m SE   | Garage   | 1984          | 23099    |
| F  | 128m NW  | Garage   | 1952 - 1958   | 25678    |
| F  | 130m NW  | Garage   | 1952          | 21174    |
| G  | 174m S   | Garage   | 1963 - 1988   | 26869    |
| G  | 175m S   | Garage   | 1995          | 23135    |
| I  | 199m SE  | Garage   | 1953 - 1967   | 26994    |
| I  | 199m SE  | Garage   | 1953 - 1963   | 27557    |
| I  | 204m SE  | Garage   | 1965 - 1967   | 25022    |
| K  | 208m NE  | Garage   | 1984          | 22671    |
| K  | 208m NE  | Garage   | 1993 - 1994   | 27751    |
| K  | 208m NE  | Garage   | 1989          | 21025    |
| K  | 209m NE  | Garage   | 1970          | 21146    |
| H  | 232m N   | Garage   | 1990 - 1995   | 25034    |
| H  | 235m N   | Garage   | 1990          | 20982    |
| I  | 241m SE  | Garage   | 1953 - 1963   | 25549    |
| I  | 241m SE  | Garage   | 1953          | 20729    |
| L  | 260m NE  | Garage   | 1989          | 23881    |
| L  | 261m NE  | Garage   | 1993 - 1994   | 25631    |



| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| I  | 263m SE  | Garage   | 1953 - 1963   | 25431    |
| I  | 263m SE  | Garage   | 1984          | 21085    |
| I  | 263m SE  | Garage   | 1953 - 1967   | 26523    |
| Q  | 312m NE  | Garage   | 1958          | 25337    |
| Q  | 313m NE  | Garage   | 1964 - 1989   | 26144    |
| Q  | 313m NE  | Garage   | 1993 - 1994   | 24556    |
| Q  | 313m NE  | Garage   | 1984          | 23898    |
| O  | 356m NW  | Garage   | 1990          | 24926    |
| T  | 357m W   | Garage   | 1953          | 23565    |
| T  | 371m W   | Garage   | 1948 - 1951   | 26197    |
| V  | 386m SE  | Garage   | 1995          | 22436    |
| V  | 418m SE  | Garage   | 1953 - 1984   | 27263    |
| V  | 419m SE  | Garage   | 1953 - 1988   | 27234    |
| V  | 423m SE  | Garage   | 1995          | 21222    |
| V  | 423m SE  | Garage   | 1963          | 22668    |
| V  | 423m SE  | Garage   | 1988          | 23595    |
| V  | 424m SE  | Garage   | 1965 - 1967   | 24701    |
| V  | 425m SE  | Garage   | 1953          | 26539    |
| 10 | 463m SE  | Garage   | 1988 - 1995   | 25375    |
| P  | 468m N   | Garage   | 1952 - 1964   | 26541    |
| P  | 471m N   | Garage   | 1952 - 1958   | 26069    |
| 14 | 490m SE  | Garages  | 1948 - 1951   | 26623    |
| N  | 495m W   | Garage   | 1963 - 1964   | 27831    |

*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

266

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 32](#) >

| ID | Location | Land Use      | Date | Group ID |
|----|----------|---------------|------|----------|
| B  | 62m E    | Goods Station | 1938 | 948848   |
| B  | 62m E    | Goods Station | 1933 | 948848   |
| B  | 63m E    | Goods Shed    | 1921 | 856754   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| B  | 64m E    | Goods Shed                        | 1923 | 856754   |
| C  | 71m E    | Unspecified Depot                 | 1985 | 818411   |
| C  | 71m E    | Railway Sidings                   | 1956 | 988070   |
| D  | 89m E    | Railway Building                  | 1971 | 893090   |
| D  | 89m E    | Railway Building                  | 1978 | 863970   |
| D  | 89m E    | Railway Building                  | 1985 | 964524   |
| E  | 103m NE  | Unspecified Commercial/Industrial | 1923 | 852600   |
| E  | 104m NE  | Unspecified Commercial/Industrial | 1891 | 900580   |
| E  | 104m NE  | Unspecified Commercial/Industrial | 1938 | 855454   |
| E  | 104m NE  | Unspecified Commercial/Industrial | 1933 | 855454   |
| E  | 107m NE  | Unspecified Commercial/Industrial | 1921 | 899114   |
| E  | 114m NE  | Unspecified Commercial/Industrial | 1956 | 893063   |
| C  | 114m NE  | Railway Sidings                   | 1891 | 952502   |
| E  | 126m NE  | Unspecified Depot                 | 1988 | 943169   |
| E  | 126m NE  | Unspecified Depot                 | 1994 | 943169   |
| B  | 133m E   | Goods Station                     | 1971 | 907126   |
| B  | 133m E   | Goods Station                     | 1956 | 907126   |
| B  | 133m E   | Goods Station                     | 1978 | 910356   |
| B  | 133m E   | Railway Building                  | 1985 | 820394   |
| E  | 145m NE  | Railway Sidings                   | 1956 | 990431   |
| C  | 155m E   | Railway Sidings                   | 1921 | 960473   |
| C  | 155m E   | Unspecified Commercial/Industrial | 1921 | 945036   |
| C  | 155m E   | Railway Sidings                   | 1906 | 960473   |
| C  | 155m E   | Unspecified Commercial/Industrial | 1906 | 945036   |
| C  | 155m E   | Railway Sidings                   | 1923 | 960473   |
| C  | 156m E   | Railway Sidings                   | 1938 | 960473   |
| C  | 156m E   | Railway Sidings                   | 1933 | 960473   |
| E  | 156m N   | Gas Works                         | 1923 | 898774   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| E  | 160m N   | Gas Works                         | 1906 | 871049   |
| E  | 161m N   | Gas Works                         | 1921 | 898774   |
| 1  | 162m NW  | Disused Grave Yard                | 1978 | 831119   |
| E  | 165m N   | Unspecified Commercial/Industrial | 1956 | 888742   |
| C  | 176m E   | Unspecified Commercial/Industrial | 1891 | 848669   |
| E  | 177m N   | Gas Works                         | 1851 | 985416   |
| H  | 178m NW  | Grave Yard                        | 1851 | 817297   |
| C  | 185m E   | Railway Sidings                   | 1971 | 893733   |
| C  | 185m E   | Railway Sidings                   | 1978 | 962506   |
| C  | 185m E   | Railway Sidings                   | 1985 | 962506   |
| E  | 189m N   | Gas Works                         | 1971 | 933471   |
| E  | 189m N   | Gas Works                         | 1978 | 979009   |
| E  | 189m N   | Gas Works                         | 1985 | 979009   |
| C  | 206m E   | Railway Sidings                   | 1851 | 929380   |
| E  | 207m N   | Gasometer                         | 1851 | 873568   |
| E  | 208m N   | Gasometer                         | 1921 | 904595   |
| E  | 208m N   | Gasometer                         | 1906 | 904595   |
| E  | 208m N   | Unspecified Tanks                 | 1891 | 983548   |
| E  | 208m N   | Unspecified Tanks                 | 1938 | 967707   |
| E  | 208m N   | Unspecified Tank                  | 1933 | 825275   |
| E  | 208m N   | Gasometer                         | 1923 | 904595   |
| E  | 215m N   | Unspecified Tanks                 | 1956 | 951765   |
| E  | 215m N   | Gasometer                         | 1971 | 882554   |
| E  | 215m N   | Gasometer                         | 1978 | 855772   |
| C  | 220m E   | Railway Building                  | 1851 | 936143   |
| 2  | 233m E   | Railway Building                  | 1938 | 820396   |
| J  | 248m SE  | Railway Building                  | 1938 | 820395   |
| E  | 252m N   | Unspecified Tanks                 | 1971 | 920274   |



| ID | Location | Land Use          | Date | Group ID |
|----|----------|-------------------|------|----------|
| E  | 252m N   | Unspecified Tanks | 1978 | 901396   |
| E  | 257m N   | Gasometer         | 1921 | 885946   |
| E  | 257m N   | Gasometer         | 1906 | 885946   |
| E  | 257m N   | Unspecified Tank  | 1891 | 924769   |
| E  | 257m N   | Unspecified Tank  | 1938 | 965032   |
| E  | 257m N   | Unspecified Tank  | 1933 | 965032   |
| E  | 257m N   | Gasometer         | 1923 | 885946   |
| C  | 262m E   | Fire Station      | 1988 | 925390   |
| C  | 262m E   | Fire Station      | 1994 | 925390   |
| N  | 272m NW  | Railway Sidings   | 1923 | 940408   |
| O  | 275m NW  | Railway Sidings   | 1971 | 858586   |
| O  | 275m NW  | Railway Sidings   | 1956 | 858586   |
| O  | 275m NW  | Railway Sidings   | 1988 | 894545   |
| O  | 275m NW  | Railway Sidings   | 1978 | 975236   |
| O  | 275m NW  | Railway Sidings   | 1985 | 894545   |
| O  | 275m NW  | Railway Sidings   | 1994 | 894545   |
| E  | 277m N   | Gasometer         | 1921 | 857096   |
| E  | 277m N   | Gasometer         | 1906 | 857096   |
| E  | 277m N   | Unspecified Tank  | 1891 | 868883   |
| E  | 277m N   | Unspecified Tank  | 1938 | 936967   |
| E  | 277m N   | Unspecified Tank  | 1933 | 936967   |
| E  | 277m N   | Gasometer         | 1923 | 857096   |
| N  | 277m NW  | Railway Sidings   | 1938 | 856860   |
| N  | 277m NW  | Railway Sidings   | 1931 | 856860   |
| N  | 277m NW  | Railway Sidings   | 1916 | 866321   |
| N  | 277m NW  | Railway Sidings   | 1906 | 866321   |
| C  | 278m E   | Railway Station   | 1851 | 822944   |
| C  | 278m E   | Railway Building  | 1971 | 887537   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| C  | 278m E   | Railway Building                  | 1956 | 887537   |
| C  | 278m E   | Railway Building                  | 1978 | 873626   |
| C  | 280m E   | Unspecified Commercial/Industrial | 1923 | 911009   |
| C  | 281m E   | Railway Building                  | 1938 | 991355   |
| E  | 283m NE  | Unspecified Tank                  | 1891 | 825281   |
| C  | 285m E   | Railway Building                  | 1985 | 966505   |
| J  | 286m SE  | Railway Building                  | 1956 | 937629   |
| J  | 290m SE  | Railway Building                  | 1971 | 992000   |
| J  | 290m SE  | Railway Building                  | 1978 | 962352   |
| J  | 290m SE  | Railway Building                  | 1985 | 985358   |
| J  | 293m SE  | Railway Building                  | 1971 | 924812   |
| J  | 293m SE  | Railway Building                  | 1978 | 952803   |
| J  | 293m SE  | Railway Building                  | 1985 | 967480   |
| J  | 295m SE  | Railway Building                  | 1938 | 940179   |
| J  | 296m SE  | Railway Building                  | 1956 | 940179   |
| P  | 299m NW  | Iron Works                        | 1938 | 876520   |
| P  | 299m NW  | Iron Works                        | 1931 | 933061   |
| P  | 299m NW  | Iron Works                        | 1916 | 930264   |
| P  | 299m NW  | Iron Works                        | 1906 | 851941   |
| P  | 299m NW  | Iron Works                        | 1923 | 933061   |
| J  | 300m SE  | Railway Building                  | 1956 | 924812   |
| P  | 300m NW  | Unspecified Works                 | 1971 | 849948   |
| P  | 300m NW  | Iron Works                        | 1956 | 936332   |
| P  | 300m NW  | Unspecified Works                 | 1978 | 919630   |
| P  | 300m NW  | Unspecified Works                 | 1985 | 988311   |
| Q  | 307m N   | Rubber Works                      | 1938 | 970692   |
| Q  | 307m N   | Rubber Works                      | 1933 | 970692   |
| Q  | 308m N   | Rubber Works                      | 1923 | 963246   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| 3  | 309m NE  | Bus Depot                         | 1978 | 832317   |
| Q  | 314m N   | Unspecified Works                 | 1978 | 866997   |
| Q  | 314m N   | Unspecified Works                 | 1985 | 890872   |
| C  | 319m E   | Goods Station                     | 1906 | 821663   |
| C  | 319m E   | Goods Shed                        | 1938 | 923020   |
| C  | 319m E   | Goods Shed                        | 1933 | 923020   |
| C  | 319m E   | Goods Shed                        | 1923 | 923020   |
| Q  | 323m N   | Unspecified Works                 | 1988 | 885381   |
| Q  | 323m N   | Unspecified Works                 | 1994 | 885381   |
| C  | 324m E   | Goods Shed                        | 1921 | 912383   |
| C  | 329m E   | Railway Building                  | 1971 | 991623   |
| C  | 329m E   | Railway Building                  | 1956 | 991623   |
| C  | 329m E   | Railway Building                  | 1978 | 886595   |
| C  | 329m E   | Railway Building                  | 1985 | 851516   |
| 4  | 331m N   | Unspecified Commercial/Industrial | 1923 | 796751   |
| C  | 334m NE  | Railway Buildings                 | 1971 | 890026   |
| C  | 334m NE  | Railway Buildings                 | 1978 | 904671   |
| C  | 334m NE  | Railway Buildings                 | 1985 | 976778   |
| C  | 335m NE  | Railway Building                  | 1956 | 820415   |
| C  | 341m E   | Railway Building                  | 1985 | 987455   |
| S  | 342m N   | Railway Sidings                   | 1891 | 966175   |
| O  | 342m W   | Unspecified Commercial/Industrial | 1923 | 796753   |
| C  | 346m E   | Railway Building                  | 1971 | 847949   |
| C  | 346m E   | Railway Building                  | 1978 | 862044   |
| C  | 346m E   | Railway Building                  | 1985 | 948508   |
| C  | 351m E   | Railway Building                  | 1956 | 965368   |
| C  | 351m E   | Railway Building                  | 1923 | 925478   |
| S  | 354m N   | Railway Sidings                   | 1923 | 938097   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| C  | 359m E   | Railway Building                  | 1923 | 820428   |
| C  | 360m E   | Railway Building                  | 1956 | 952415   |
| S  | 373m N   | Railway Sidings                   | 1906 | 984232   |
| S  | 373m N   | Railway Sidings                   | 1938 | 899799   |
| S  | 373m N   | Railway Sidings                   | 1933 | 899799   |
| S  | 373m N   | Railway Sidings                   | 1921 | 984232   |
| U  | 378m N   | Railway Building                  | 1923 | 820409   |
| V  | 380m NE  | Police Station                    | 1988 | 944528   |
| V  | 380m NE  | Police Station                    | 1985 | 944528   |
| V  | 380m NE  | Police Station                    | 1994 | 944528   |
| O  | 382m NW  | Railway Sidings                   | 1894 | 918058   |
| X  | 387m N   | Railway Sidings                   | 1923 | 2367776  |
| S  | 388m NE  | Railway Sidings                   | 1971 | 891110   |
| S  | 388m NE  | Railway Sidings                   | 1956 | 915512   |
| S  | 388m NE  | Railway Sidings                   | 1978 | 891110   |
| S  | 388m NE  | Railway Sidings                   | 1985 | 891110   |
| 5  | 389m NW  | Railway Building                  | 1894 | 820406   |
| U  | 389m N   | Railway Building                  | 1923 | 820408   |
| X  | 389m N   | Railway Sidings                   | 1938 | 2367776  |
| X  | 389m N   | Railway Sidings                   | 1933 | 2367776  |
| U  | 391m N   | Unspecified Ground Workings       | 1956 | 800626   |
| X  | 392m N   | Railway Sidings                   | 1921 | 2367776  |
| X  | 392m N   | Railway Sidings                   | 1906 | 2367776  |
| C  | 392m E   | Railway Building                  | 1971 | 978761   |
| C  | 392m E   | Railway Building                  | 1978 | 856971   |
| Q  | 393m N   | Unspecified Commercial/Industrial | 1923 | 877652   |
| C  | 397m E   | Railway Building                  | 1923 | 844951   |
| Q  | 398m N   | Unspecified Commercial/Industrial | 1956 | 849656   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| C  | 400m E   | Railway Buildings                 | 1891 | 833665   |
| O  | 402m W   | Railway Building                  | 1931 | 990567   |
| O  | 402m W   | Railway Building                  | 1916 | 876678   |
| Y  | 402m N   | Refuse Heap                       | 1938 | 944667   |
| C  | 402m E   | Railway Building                  | 1923 | 862543   |
| Y  | 404m N   | Refuse Heap                       | 1933 | 944667   |
| C  | 405m E   | Railway Building                  | 1923 | 820429   |
| O  | 405m W   | Railway Sidings                   | 1938 | 965979   |
| O  | 405m W   | Railway Sidings                   | 1931 | 965979   |
| O  | 405m W   | Railway Sidings                   | 1916 | 869948   |
| O  | 405m W   | Railway Sidings                   | 1906 | 869948   |
| Z  | 405m W   | Railway Station                   | 1938 | 955531   |
| Z  | 405m W   | Railway Station                   | 1931 | 955531   |
| Z  | 405m W   | Railway Station                   | 1916 | 850180   |
| Z  | 405m W   | Railway Station                   | 1906 | 850180   |
| C  | 405m E   | Railway Building                  | 1938 | 946193   |
| O  | 407m W   | Railway Sidings                   | 1923 | 896600   |
| O  | 407m W   | Railway Building                  | 1923 | 820404   |
| 6  | 407m W   | Railway Building                  | 1923 | 820398   |
| O  | 408m NW  | Railway Building                  | 1985 | 925125   |
| C  | 410m E   | Railway Sidings                   | 1956 | 988070   |
| C  | 410m E   | Railway Sidings                   | 1968 | 844444   |
| O  | 410m NW  | Railway Building                  | 1971 | 962973   |
| C  | 411m E   | Railway Sidings                   | 1978 | 962506   |
| O  | 411m NW  | Railway Building                  | 1931 | 871716   |
| O  | 411m NW  | Railway Building                  | 1916 | 928990   |
| C  | 412m E   | Goods Station                     | 1923 | 821664   |
| C  | 412m E   | Unspecified Commercial/Industrial | 1956 | 939440   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| C  | 413m E   | Police Station                    | 1851 | 832595   |
| Z  | 414m W   | Railway Station                   | 1971 | 933110   |
| Z  | 414m W   | Railway Station                   | 1956 | 944542   |
| Z  | 414m W   | Railway Station                   | 1978 | 848398   |
| C  | 414m E   | Good Station                      | 1921 | 797870   |
| C  | 414m E   | Railway Building                  | 1938 | 894084   |
| C  | 414m E   | Railway Building                  | 1933 | 894084   |
| Z  | 415m W   | Railway Station                   | 1988 | 946558   |
| Z  | 415m W   | Railway Station                   | 1985 | 946558   |
| Q  | 417m N   | Unspecified Tank                  | 1906 | 940246   |
| Q  | 417m N   | Unspecified Tank                  | 1891 | 940246   |
| Q  | 417m N   | Unspecified Tank                  | 1938 | 940246   |
| Q  | 417m N   | Unspecified Tank                  | 1933 | 940246   |
| Q  | 417m N   | Unspecified Tank                  | 1921 | 940246   |
| Q  | 417m N   | Unspecified Tank                  | 1923 | 940246   |
| AA | 417m NW  | Unspecified Commercial/Industrial | 1923 | 845927   |
| Z  | 418m W   | Railway Station                   | 1923 | 982510   |
| Y  | 419m N   | Unspecified Ground Workings       | 1921 | 905219   |
| AA | 419m NW  | Unspecified Works                 | 1971 | 978140   |
| AA | 419m NW  | Unspecified Works                 | 1988 | 870906   |
| AA | 419m NW  | Unspecified Works                 | 1978 | 932157   |
| AA | 419m NW  | Unspecified Works                 | 1985 | 870906   |
| C  | 421m E   | Railway Building                  | 1956 | 894084   |
| C  | 421m E   | Railway Building                  | 1968 | 894084   |
| AA | 421m NW  | Unspecified Commercial/Industrial | 1931 | 845927   |
| AA | 422m NW  | Unspecified Commercial/Industrial | 1916 | 973762   |
| AA | 424m NW  | Unspecified Commercial/Industrial | 1938 | 905224   |
| Q  | 426m N   | Unspecified Tanks                 | 1956 | 952176   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| AB | 427m SW  | Unspecified Commercial/Industrial | 1931 | 988948   |
| AB | 427m SW  | Unspecified Commercial/Industrial | 1916 | 919326   |
| AB | 427m SW  | Unspecified Commercial/Industrial | 1938 | 856039   |
| O  | 432m NW  | Railway Building                  | 1923 | 989904   |
| O  | 434m NW  | Railway Building                  | 1931 | 820405   |
| Z  | 434m W   | Gravel Yard                       | 1851 | 834691   |
| Q  | 436m N   | Unspecified Tank                  | 1906 | 901711   |
| Q  | 436m N   | Unspecified Tank                  | 1891 | 901711   |
| Q  | 436m N   | Unspecified Tank                  | 1938 | 883812   |
| Q  | 436m N   | Unspecified Tanks                 | 1933 | 911005   |
| Q  | 436m N   | Unspecified Tanks                 | 1921 | 889282   |
| Q  | 436m N   | Unspecified Tank                  | 1923 | 877926   |
| C  | 446m E   | Potato Shed                       | 1968 | 802280   |
| C  | 446m E   | Railway Building                  | 1956 | 820427   |
| Z  | 447m W   | Railway Stations                  | 1894 | 814475   |
| Z  | 454m W   | Railway Station                   | 1994 | 938921   |
| C  | 456m E   | Railway Building                  | 1923 | 990168   |
| C  | 457m E   | Railway Building                  | 1938 | 969824   |
| Y  | 464m N   | Unspecified Ground Workings       | 1988 | 878030   |
| Y  | 464m N   | Unspecified Ground Workings       | 1994 | 878030   |
| Y  | 466m N   | Unspecified Ground Workings       | 1956 | 952523   |
| Q  | 466m N   | Unspecified Depot                 | 1988 | 951202   |
| Q  | 466m N   | Unspecified Depot                 | 1978 | 887857   |
| Q  | 466m N   | Unspecified Depot                 | 1985 | 951202   |
| Q  | 466m N   | Unspecified Depot                 | 1994 | 951202   |
| C  | 468m E   | Railway Building                  | 1891 | 820426   |
| AE | 469m SW  | Bus Station                       | 1988 | 940823   |
| AE | 469m SW  | Bus Station                       | 1985 | 940823   |



| ID | Location | Land Use          | Date | Group ID |
|----|----------|-------------------|------|----------|
| AE | 469m SW  | Bus Station       | 1994 | 940823   |
| O  | 469m W   | Railway Building  | 1894 | 820403   |
| X  | 476m N   | Railway Sidings   | 1971 | 2367776  |
| X  | 476m N   | Railway Sidings   | 1956 | 2367776  |
| X  | 476m N   | Railway Sidings   | 1988 | 2367776  |
| X  | 476m N   | Railway Sidings   | 1978 | 2367776  |
| X  | 476m N   | Railway Sidings   | 1985 | 2367776  |
| 7  | 483m W   | Workhouse         | 1851 | 794985   |
| X  | 489m N   | Railway Sidings   | 1891 | 847105   |
| 8  | 494m E   | Unspecified Works | 1968 | 830453   |
| S  | 499m NE  | Railway Building  | 1923 | 820416   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.2 Historical tanks

|                            |            |
|----------------------------|------------|
| <b>Records within 500m</b> | <b>150</b> |
|----------------------------|------------|

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 32 >](#)

| ID | Location | Land Use  | Date | Group ID |
|----|----------|-----------|------|----------|
| E  | 116m NE  | Gas Works | 1952 | 147458   |
| E  | 116m NE  | Gas Works | 1949 | 147458   |
| E  | 116m NE  | Gas Works | 1952 | 147458   |
| E  | 116m NE  | Gas Works | 1949 | 147458   |
| E  | 163m NE  | Tanks     | 1952 | 125888   |
| E  | 163m NE  | Tanks     | 1949 | 125888   |
| E  | 164m N   | Gas Works | 1970 | 125307   |
| E  | 167m NE  | Tanks     | 1952 | 141887   |
| E  | 167m NE  | Tanks     | 1949 | 141887   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| E  | 168m NE  | Tanks            | 1952 | 139306   |
| E  | 168m NE  | Tanks            | 1949 | 139306   |
| E  | 168m NE  | Tanks            | 1952 | 124911   |
| E  | 168m NE  | Tanks            | 1949 | 124911   |
| E  | 170m NE  | Tanks            | 1952 | 127628   |
| E  | 170m NE  | Tanks            | 1949 | 127628   |
| E  | 209m N   | Gasometer        | 1893 | 137091   |
| E  | 209m N   | Gasometer        | 1908 | 137091   |
| E  | 209m N   | Gasometer        | 1922 | 137091   |
| E  | 209m N   | Unspecified Tank | 1931 | 144572   |
| E  | 209m N   | Gasometer        | 1891 | 124649   |
| E  | 217m N   | Unspecified Tank | 1958 | 144572   |
| E  | 217m N   | Gasometer        | 1952 | 137091   |
| E  | 217m N   | Gasometer        | 1970 | 137091   |
| E  | 217m N   | Gasometer        | 1949 | 137091   |
| E  | 217m N   | Gasometer        | 1952 | 129138   |
| E  | 217m N   | Gasometer        | 1949 | 129138   |
| E  | 217m N   | Unspecified Tank | 1964 | 144572   |
| E  | 217m N   | Unspecified Tank | 1958 | 144572   |
| E  | 219m N   | Unspecified Tank | 1931 | 116015   |
| E  | 221m N   | Tanks            | 1893 | 128327   |
| E  | 222m N   | Unspecified Tank | 1958 | 129249   |
| E  | 222m N   | Unspecified Tank | 1958 | 139650   |
| E  | 222m N   | Tanks            | 1891 | 126147   |
| E  | 222m N   | Unspecified Tank | 1964 | 140647   |
| E  | 223m N   | Gasometer        | 1891 | 124649   |
| E  | 237m NE  | Unspecified Tank | 1891 | 116044   |
| E  | 243m NE  | Unspecified Tank | 1891 | 116042   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| E  | 249m NE  | Unspecified Tank | 1891 | 116043   |
| E  | 249m N   | Unspecified Tank | 1908 | 135459   |
| E  | 250m N   | Unspecified Tank | 1891 | 135459   |
| E  | 250m N   | Unspecified Tank | 1931 | 135459   |
| E  | 251m NE  | Unspecified Tank | 1891 | 116041   |
| E  | 255m N   | Gasometers       | 1893 | 149293   |
| E  | 256m N   | Gasometers       | 1908 | 135222   |
| E  | 256m N   | Gasometers       | 1922 | 135222   |
| E  | 256m N   | Tanks            | 1931 | 106838   |
| E  | 256m N   | Unspecified Tank | 1958 | 128516   |
| E  | 257m N   | Unspecified Tank | 1964 | 128516   |
| E  | 257m N   | Unspecified Tank | 1958 | 128516   |
| E  | 257m N   | Gasometer        | 1891 | 138173   |
| E  | 259m NE  | Tanks            | 1952 | 128060   |
| E  | 259m NE  | Tanks            | 1949 | 149212   |
| E  | 259m NE  | Tanks            | 1952 | 122334   |
| E  | 259m NE  | Tanks            | 1949 | 122334   |
| E  | 265m N   | Gasometer        | 1952 | 138173   |
| E  | 265m N   | Gasometer        | 1949 | 138173   |
| E  | 265m N   | Unspecified Tank | 1964 | 145904   |
| E  | 265m N   | Unspecified Tank | 1958 | 145904   |
| E  | 265m N   | Unspecified Tank | 1958 | 145904   |
| E  | 265m N   | Gasometer        | 1952 | 138173   |
| E  | 265m N   | Gasometer        | 1970 | 138173   |
| E  | 265m N   | Gasometer        | 1949 | 138173   |
| E  | 267m NE  | Unspecified Tank | 1891 | 116045   |
| E  | 268m NE  | Tanks            | 1952 | 126610   |
| E  | 268m NE  | Tanks            | 1949 | 126610   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| E  | 274m NE  | Tanks            | 1952 | 146176   |
| E  | 276m NE  | Gasometer        | 1891 | 108528   |
| E  | 277m NE  | Tanks            | 1893 | 143344   |
| E  | 278m N   | Gasometer        | 1891 | 130378   |
| E  | 278m NE  | Unspecified Tank | 1958 | 138368   |
| E  | 278m NE  | Tanks            | 1891 | 143344   |
| E  | 279m NE  | Unspecified Tank | 1964 | 138368   |
| E  | 279m NE  | Unspecified Tank | 1958 | 138368   |
| E  | 286m N   | Gasometer        | 1952 | 140097   |
| E  | 286m N   | Gasometer        | 1949 | 140097   |
| E  | 286m N   | Unspecified Tank | 1964 | 135314   |
| E  | 286m N   | Unspecified Tank | 1958 | 135314   |
| E  | 286m N   | Unspecified Tank | 1958 | 138197   |
| E  | 286m N   | Gasometer        | 1952 | 131636   |
| E  | 286m N   | Gasometer        | 1970 | 131636   |
| E  | 286m N   | Gasometer        | 1949 | 131636   |
| E  | 294m NE  | Unspecified Tank | 1891 | 116046   |
| C  | 337m E   | Unspecified Tank | 1891 | 116004   |
| P  | 364m NW  | Unspecified Tank | 1891 | 116014   |
| U  | 369m N   | Unspecified Tank | 1958 | 129894   |
| U  | 369m N   | Unspecified Tank | 1958 | 129894   |
| Q  | 382m N   | Tanks            | 1952 | 136817   |
| Q  | 382m N   | Tanks            | 1949 | 136817   |
| Q  | 383m N   | Tanks            | 1952 | 136817   |
| Q  | 383m N   | Tanks            | 1949 | 136817   |
| P  | 390m NW  | Unspecified Tank | 1908 | 145358   |
| P  | 390m NW  | Unspecified Tank | 1922 | 145358   |
| P  | 392m NW  | Unspecified Tank | 1958 | 116016   |

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| Q  | 396m N   | Gas Works        | 1952 | 147827   |
| Q  | 396m N   | Gas Works        | 1949 | 147827   |
| Q  | 397m N   | Gas Works        | 1952 | 145203   |
| Q  | 397m N   | Gas Works        | 1949 | 145203   |
| P  | 405m NW  | Tanks            | 1952 | 122840   |
| P  | 406m NW  | Tanks            | 1952 | 122840   |
| P  | 408m NW  | Tanks            | 1990 | 135076   |
| P  | 408m NW  | Tanks            | 1963 | 135076   |
| P  | 409m NW  | Tanks            | 1964 | 135076   |
| O  | 412m W   | Unspecified Tank | 1949 | 133849   |
| O  | 412m W   | Unspecified Tank | 1963 | 133849   |
| O  | 412m W   | Unspecified Tank | 1952 | 133849   |
| O  | 412m W   | Unspecified Tank | 1952 | 133849   |
| O  | 412m W   | Unspecified Tank | 1949 | 133849   |
| O  | 412m W   | Unspecified Tank | 1964 | 133849   |
| O  | 412m W   | Unspecified Tank | 1958 | 133849   |
| C  | 417m E   | Unspecified Tank | 1908 | 116003   |
| P  | 418m NW  | Tanks            | 1990 | 106862   |
| Q  | 419m N   | Gasometers       | 1908 | 147538   |
| Q  | 419m N   | Gasometers       | 1922 | 147538   |
| Q  | 419m N   | Tanks            | 1931 | 134997   |
| Q  | 420m N   | Gasometer        | 1891 | 146675   |
| Q  | 421m N   | Gasometer        | 1893 | 146069   |
| Q  | 425m N   | Unspecified Tank | 1958 | 128286   |
| Q  | 425m N   | Gasometer        | 1952 | 146675   |
| Q  | 425m N   | Gasometer        | 1949 | 146675   |
| Q  | 425m N   | Tanks            | 1958 | 134997   |
| Q  | 426m N   | Gasometer        | 1952 | 139782   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| Q  | 426m N   | Gasometer        | 1949 | 139782   |
| Q  | 426m N   | Unspecified Tank | 1964 | 128286   |
| O  | 432m W   | Unspecified Tank | 1949 | 116005   |
| Q  | 435m N   | Unspecified Tank | 1891 | 116028   |
| Q  | 438m N   | Gasometer        | 1891 | 142311   |
| Q  | 439m N   | Gasometer        | 1893 | 142311   |
| Q  | 441m N   | Unspecified Tank | 1958 | 141504   |
| Q  | 441m N   | Unspecified Tank | 1964 | 141504   |
| Q  | 445m N   | Unspecified Tank | 1958 | 141682   |
| Q  | 445m N   | Gasometer        | 1952 | 146935   |
| Q  | 445m N   | Gasometer        | 1949 | 146935   |
| Q  | 445m N   | Gasometer        | 1952 | 137884   |
| Q  | 445m N   | Gasometer        | 1949 | 137884   |
| Q  | 445m N   | Unspecified Tank | 1964 | 129536   |
| C  | 453m E   | Unspecified Tank | 1891 | 116001   |
| Q  | 460m N   | Unspecified Tank | 1891 | 116027   |
| Q  | 466m N   | Unspecified Tank | 1958 | 123707   |
| Q  | 466m N   | Unspecified Tank | 1958 | 135369   |
| Q  | 466m N   | Gas Works        | 1952 | 145819   |
| Q  | 466m N   | Gasometer        | 1952 | 122698   |
| Q  | 467m N   | Unspecified Tank | 1964 | 140262   |
| Y  | 484m N   | Unspecified Tank | 1891 | 116023   |
| Y  | 488m N   | Unspecified Tank | 1891 | 116024   |
| AH | 490m NW  | Unspecified Tank | 1952 | 139714   |
| AH | 492m NW  | Unspecified Tank | 1952 | 135439   |
| AH | 492m NW  | Unspecified Tank | 1963 | 141033   |
| AH | 492m NW  | Unspecified Tank | 1964 | 141033   |
| Y  | 499m N   | Tanks            | 1891 | 106863   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| Y  | 500m N   | Unspecified Tank | 1891 | 116025   |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.3 Historical energy features

|                            |            |
|----------------------------|------------|
| <b>Records within 500m</b> | <b>140</b> |
|----------------------------|------------|

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 32 >](#)

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| E  | 108m NE  | Gas Work               | 1893 | 64181    |
| E  | 108m NE  | Gas Work               | 1908 | 64181    |
| E  | 108m NE  | Gas Work               | 1922 | 64181    |
| E  | 111m NE  | Corporation Gas Works  | 1891 | 81629    |
| E  | 116m NE  | Gas Works              | 1952 | 78529    |
| E  | 116m NE  | Gas Works              | 1949 | 78529    |
| E  | 116m NE  | Gas Works              | 1952 | 78529    |
| E  | 116m NE  | Gas Works              | 1949 | 78529    |
| E  | 155m N   | Electricity Substation | 1989 | 84672    |
| E  | 155m N   | Electricity Substation | 1994 | 84672    |
| E  | 155m N   | Electricity Substation | 1993 | 84672    |
| E  | 155m N   | Electricity Substation | 1984 | 67824    |
| E  | 164m N   | Gas Works              | 1970 | 74802    |
| I  | 185m SE  | Electricity Substation | 1984 | 79779    |
| I  | 185m SE  | Electricity Substation | 1988 | 79779    |
| I  | 186m SE  | Electricity Substation | 1995 | 79779    |
| E  | 190m N   | Electricity Substation | 1970 | 62196    |
| K  | 203m SW  | Electricity Substation | 1953 | 72139    |
| K  | 204m SW  | Electricity Substation | 1980 | 65345    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| K  | 205m SW  | Electricity Substation | 1951 | 65345    |
| K  | 205m SW  | Electricity Substation | 1948 | 65345    |
| K  | 207m SW  | Electricity Substation | 1992 | 70345    |
| K  | 208m SW  | Electricity Substation | 1986 | 70345    |
| K  | 208m SW  | Electricity Substation | 1953 | 72139    |
| E  | 209m N   | Gasometer              | 1893 | 67831    |
| E  | 209m N   | Gasometer              | 1908 | 67831    |
| E  | 209m N   | Gasometer              | 1922 | 67831    |
| E  | 209m N   | Gasometer              | 1891 | 83973    |
| E  | 216m N   | Electricity Substation | 1989 | 80781    |
| E  | 216m N   | Electricity Substation | 1970 | 80781    |
| E  | 217m N   | Gasometer              | 1952 | 67831    |
| E  | 217m N   | Gasometer              | 1970 | 67831    |
| E  | 217m N   | Gasometer              | 1949 | 67831    |
| E  | 217m N   | Gasometer              | 1952 | 76759    |
| E  | 217m N   | Gasometer              | 1949 | 76759    |
| E  | 223m N   | Corporation Gas Works  | 1891 | 81629    |
| E  | 223m N   | Gasometer              | 1891 | 83973    |
| E  | 231m N   | Electricity Substation | 1984 | 76742    |
| E  | 249m N   | Electricity Substation | 1994 | 65101    |
| E  | 249m N   | Electricity Substation | 1993 | 65101    |
| E  | 255m N   | Gasometers             | 1893 | 83216    |
| E  | 256m N   | Gasometers             | 1908 | 76658    |
| E  | 256m N   | Gasometers             | 1922 | 76658    |
| E  | 257m N   | Gasometer              | 1891 | 68352    |
| E  | 265m N   | Gasometer              | 1952 | 68352    |
| E  | 265m N   | Gasometer              | 1949 | 68352    |
| E  | 265m N   | Gasometer              | 1952 | 68352    |

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| E  | 265m N   | Gasometer              | 1970 | 68352    |
| E  | 265m N   | Gasometer              | 1949 | 68352    |
| E  | 276m NE  | Gasometer              | 1891 | 59721    |
| E  | 278m N   | Gasometer              | 1891 | 78215    |
| E  | 286m N   | Gasometer              | 1952 | 71892    |
| E  | 286m N   | Gasometer              | 1949 | 71892    |
| E  | 286m N   | Gasometer              | 1952 | 80243    |
| E  | 286m N   | Gasometer              | 1970 | 80243    |
| E  | 286m N   | Gasometer              | 1949 | 80243    |
| M  | 311m NE  | Electricity Substation | 1989 | 64598    |
| M  | 311m NE  | Electricity Substation | 1952 | 64598    |
| M  | 311m NE  | Electricity Substation | 1952 | 78153    |
| M  | 311m NE  | Electricity Substation | 1994 | 64598    |
| M  | 311m NE  | Electricity Substation | 1993 | 64598    |
| M  | 311m NE  | Electricity Substation | 1984 | 64598    |
| J  | 312m SE  | Electricity Substation | 1988 | 66419    |
| J  | 312m SE  | Electricity Substation | 1995 | 66419    |
| R  | 339m SW  | Electricity Substation | 1953 | 68894    |
| R  | 339m SW  | Electricity Substation | 1951 | 68894    |
| R  | 339m SW  | Electricity Substation | 1948 | 68894    |
| R  | 339m SW  | Electricity Substation | 1986 | 68894    |
| R  | 340m SW  | Electricity Substation | 1992 | 68894    |
| R  | 340m SW  | Electricity Substation | 1980 | 74220    |
| R  | 348m SW  | Electricity Substation | 1953 | 62197    |
| O  | 380m W   | Electricity Substation | 1990 | 72645    |
| O  | 381m W   | Electricity Substation | 1995 | 72645    |
| O  | 381m W   | Electricity Substation | 1990 | 72645    |
| W  | 392m SE  | Electricity Substation | 1988 | 62189    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| Q  | 396m N   | Gas Works              | 1952 | 65382    |
| Q  | 396m N   | Gas Works              | 1949 | 65382    |
| W  | 396m SE  | Electricity Substation | 1995 | 62190    |
| Q  | 397m N   | Gas Works              | 1952 | 76664    |
| Q  | 397m N   | Gas Works              | 1949 | 76664    |
| P  | 399m NW  | Electricity Substation | 1949 | 64848    |
| P  | 399m NW  | Electricity Substation | 1949 | 69035    |
| P  | 399m NW  | Electricity Substation | 1952 | 69035    |
| P  | 407m NW  | Electricity Substation | 1952 | 66277    |
| Q  | 419m N   | Gasometers             | 1908 | 72342    |
| Q  | 419m N   | Gasometers             | 1922 | 72342    |
| Q  | 420m N   | Gasometer              | 1891 | 79302    |
| Q  | 421m N   | Gasometer              | 1893 | 67441    |
| Q  | 425m N   | Gasometer              | 1952 | 79302    |
| Q  | 425m N   | Gasometer              | 1949 | 79302    |
| Q  | 426m N   | Gasometer              | 1952 | 79302    |
| Q  | 426m N   | Gasometer              | 1949 | 79302    |
| AC | 432m E   | Electricity Substation | 1967 | 85080    |
| AC | 432m E   | Electricity Substation | 1953 | 68562    |
| AC | 435m E   | Electricity Substation | 1951 | 68562    |
| AC | 435m E   | Electricity Substation | 1948 | 82960    |
| AC | 435m E   | Electricity Substation | 1948 | 82960    |
| AC | 435m E   | Electricity Substation | 1951 | 68562    |
| AC | 437m SE  | Electricity Substation | 1988 | 69737    |
| W  | 437m SE  | Electricity Substation | 1988 | 73444    |
| AC | 437m SE  | Electricity Substation | 1995 | 77530    |
| Q  | 438m N   | Gasometer              | 1891 | 75716    |
| AC | 439m SE  | Electricity Substation | 1984 | 69737    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| Q  | 439m N   | Gasometer              | 1893 | 66162    |
| W  | 441m SE  | Electricity Substation | 1984 | 66121    |
| W  | 442m SE  | Electricity Substation | 1953 | 66121    |
| W  | 443m SE  | Electricity Substation | 1953 | 66121    |
| W  | 443m SE  | Electricity Substation | 1953 | 79102    |
| Q  | 445m N   | Gasometer              | 1952 | 65786    |
| Q  | 445m N   | Gasometer              | 1949 | 65786    |
| Q  | 445m N   | Gasometer              | 1952 | 64144    |
| Q  | 445m N   | Gasometer              | 1949 | 64144    |
| AC | 446m E   | Electricity Substation | 1994 | 77530    |
| AC | 446m E   | Electricity Substation | 1951 | 69737    |
| AC | 446m E   | Electricity Substation | 1948 | 69737    |
| AC | 446m E   | Electricity Substation | 1987 | 69737    |
| AC | 449m SE  | Electricity Substation | 1908 | 64523    |
| AC | 449m SE  | Electricity Substation | 1922 | 64523    |
| AC | 450m E   | Electricity Substation | 1948 | 64523    |
| AC | 450m E   | Electricity Substation | 1951 | 64523    |
| W  | 455m SE  | Electricity Substation | 1995 | 73444    |
| AC | 457m E   | Electricity Substation | 1978 | 81137    |
| AC | 457m E   | Electricity Substation | 1983 | 68145    |
| AC | 457m E   | Electricity Substation | 1991 | 84212    |
| Q  | 466m N   | Gas Works              | 1952 | 64023    |
| Q  | 466m N   | Gasometer              | 1952 | 73746    |
| AF | 470m S   | Electricity Substation | 1992 | 84709    |
| AF | 470m S   | Electricity Substation | 1986 | 84709    |
| AF | 470m S   | Electricity Substation | 1980 | 84709    |
| AA | 487m NW  | Electricity Substation | 1990 | 82431    |
| AA | 491m NW  | Electricity Substation | 1952 | 71824    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| AA | 491m NW  | Electricity Substation | 1949 | 71824    |
| AA | 491m NW  | Electricity Substation | 1949 | 74729    |
| AA | 491m NW  | Electricity Substation | 1990 | 74729    |
| AA | 491m NW  | Electricity Substation | 1952 | 74729    |
| AA | 491m NW  | Electricity Substation | 1995 | 74729    |
| AB | 496m SW  | Electricity Substation | 1953 | 76409    |
| AB | 496m SW  | Electricity Substation | 1951 | 76409    |
| AB | 496m SW  | Electricity Substation | 1948 | 76409    |
| AB | 497m SW  | Electricity Substation | 1953 | 75919    |

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.4 Historical petrol stations

**Records within 500m**

**0**

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

*This data is sourced from Ordnance Survey / Groundsure.*

## 2.5 Historical garages

**Records within 500m**

**80**

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 32 >](#)

| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| A  | 22m SE   | Garage   | 1995 | 22760    |
| A  | 23m SE   | Garage   | 1953 | 24669    |
| A  | 23m SE   | Garage   | 1965 | 24669    |
| A  | 23m SE   | Garage   | 1967 | 24669    |



| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| A  | 23m SE   | Garage   | 1988 | 24669    |
| A  | 23m SE   | Garage   | 1963 | 24669    |
| A  | 23m SE   | Garage   | 1953 | 24669    |
| A  | 29m SE   | Garage   | 1984 | 23099    |
| F  | 128m NW  | Garage   | 1952 | 25678    |
| F  | 128m NW  | Garage   | 1958 | 25678    |
| F  | 130m NW  | Garage   | 1952 | 21174    |
| G  | 174m S   | Garage   | 1988 | 26869    |
| G  | 174m S   | Garage   | 1963 | 26869    |
| G  | 175m S   | Garage   | 1995 | 23135    |
| J  | 199m SE  | Garage   | 1953 | 26994    |
| J  | 199m SE  | Garage   | 1965 | 26994    |
| J  | 199m SE  | Garage   | 1967 | 26994    |
| J  | 199m SE  | Garage   | 1963 | 27557    |
| J  | 199m SE  | Garage   | 1953 | 27557    |
| J  | 204m SE  | Garage   | 1965 | 25022    |
| J  | 204m SE  | Garage   | 1967 | 25022    |
| L  | 208m NE  | Garage   | 1984 | 22671    |
| L  | 208m NE  | Garage   | 1994 | 27751    |
| L  | 208m NE  | Garage   | 1993 | 27751    |
| L  | 208m NE  | Garage   | 1989 | 21025    |
| L  | 209m NE  | Garage   | 1970 | 21146    |
| H  | 232m N   | Garage   | 1995 | 25034    |
| H  | 234m N   | Garage   | 1990 | 25034    |
| H  | 235m N   | Garage   | 1990 | 20982    |
| J  | 241m SE  | Garage   | 1963 | 25549    |
| J  | 241m SE  | Garage   | 1953 | 25549    |
| J  | 241m SE  | Garage   | 1953 | 20729    |



| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| M  | 260m NE  | Garage   | 1989 | 23881    |
| M  | 261m NE  | Garage   | 1994 | 25631    |
| M  | 261m NE  | Garage   | 1993 | 25631    |
| J  | 263m SE  | Garage   | 1963 | 25431    |
| J  | 263m SE  | Garage   | 1953 | 25431    |
| J  | 263m SE  | Garage   | 1984 | 21085    |
| J  | 263m SE  | Garage   | 1953 | 26523    |
| J  | 263m SE  | Garage   | 1965 | 26523    |
| J  | 263m SE  | Garage   | 1967 | 26523    |
| M  | 312m NE  | Garage   | 1958 | 25337    |
| M  | 313m NE  | Garage   | 1989 | 26144    |
| M  | 313m NE  | Garage   | 1970 | 26144    |
| M  | 313m NE  | Garage   | 1964 | 26144    |
| M  | 313m NE  | Garage   | 1994 | 24556    |
| M  | 313m NE  | Garage   | 1993 | 24556    |
| M  | 313m NE  | Garage   | 1958 | 25337    |
| M  | 313m NE  | Garage   | 1984 | 23898    |
| P  | 356m NW  | Garage   | 1990 | 24926    |
| P  | 356m NW  | Garage   | 1990 | 24926    |
| T  | 357m W   | Garage   | 1953 | 23565    |
| T  | 371m W   | Garage   | 1951 | 26197    |
| T  | 371m W   | Garage   | 1948 | 26197    |
| W  | 386m SE  | Garage   | 1995 | 22436    |
| W  | 418m SE  | Garage   | 1984 | 27263    |
| W  | 419m SE  | Garage   | 1953 | 27263    |
| W  | 419m SE  | Garage   | 1965 | 27263    |
| W  | 419m SE  | Garage   | 1967 | 27263    |
| W  | 419m SE  | Garage   | 1988 | 27234    |

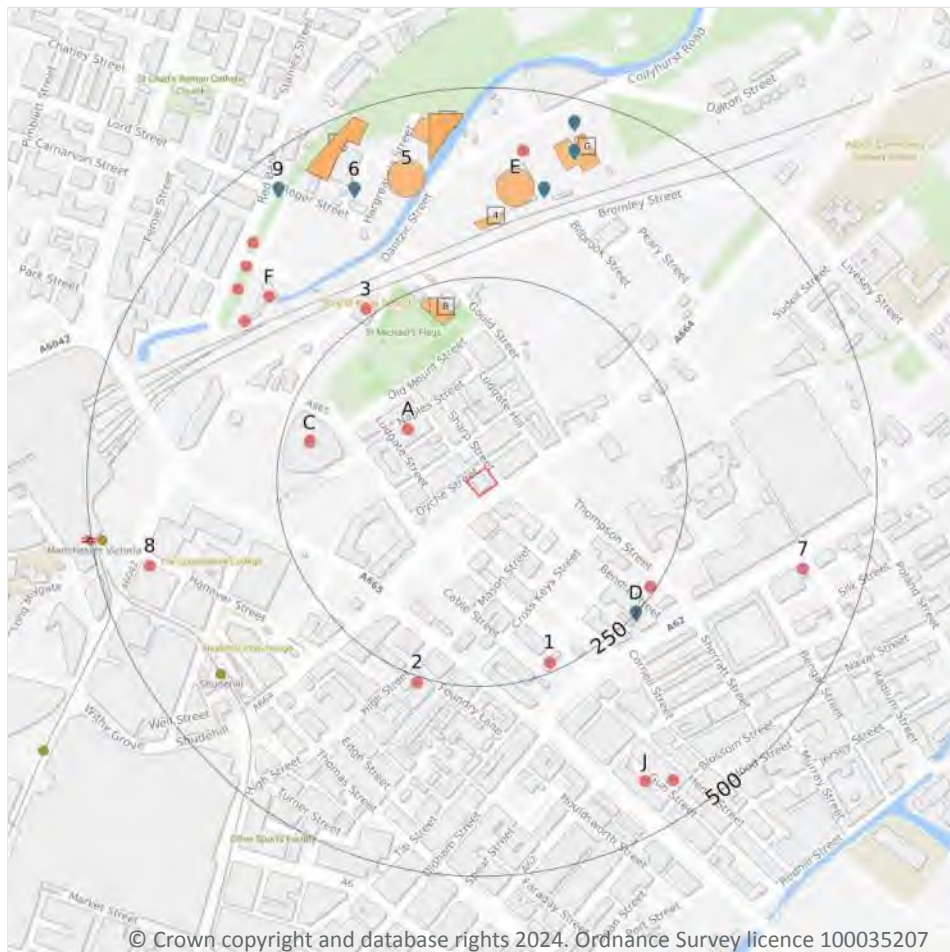


| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| W  | 419m SE  | Garage   | 1963 | 27234    |
| W  | 419m SE  | Garage   | 1953 | 27234    |
| W  | 423m SE  | Garage   | 1995 | 21222    |
| W  | 423m SE  | Garage   | 1963 | 22668    |
| W  | 423m SE  | Garage   | 1988 | 23595    |
| W  | 424m SE  | Garage   | 1965 | 24701    |
| W  | 424m SE  | Garage   | 1967 | 24701    |
| W  | 425m SE  | Garage   | 1953 | 26539    |
| W  | 425m SE  | Garage   | 1953 | 26539    |
| AD | 463m SE  | Garage   | 1988 | 25375    |
| AD | 463m SE  | Garage   | 1995 | 25375    |
| Q  | 468m N   | Garage   | 1952 | 26541    |
| Q  | 468m N   | Garage   | 1964 | 26541    |
| Q  | 468m N   | Garage   | 1958 | 26541    |
| Q  | 471m N   | Garage   | 1958 | 26069    |
| Q  | 471m N   | Garage   | 1952 | 26069    |
| AG | 490m SE  | Garages  | 1948 | 26623    |
| AG | 490m SE  | Garages  | 1951 | 26623    |
| O  | 495m W   | Garage   | 1964 | 27831    |
| O  | 495m W   | Garage   | 1963 | 27831    |

*This data is sourced from Ordnance Survey / Groundsure.*



## 3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- 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****0**

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

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

### 3.5 Historical waste sites

**Records within 500m****11**

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 57 >](#)

| ID | Location | Address           | Further Details                                                                                                                                   | Date |
|----|----------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------|
| B  | 194m N   | Site Address: N/A | Type of Site: Breakers Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon     | 1984 |
| B  | 215m N   | Site Address: N/A | Type of Site: Breakers Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon     | 1990 |
| 4  | 313m N   | Site Address: N/A | Type of Site: Scrap Metal Works<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1969 |

| ID | Location | Address                                                                                          | Further Details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Date |
|----|----------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| E  | 345m N   | Site Address: 204 Dantzic Street,<br>MANCHESTER, Greater Manchester, M4<br>4DD                   | Type of Site: Waste Recycling Shed (Conversion)<br>Planning application reference:<br>077598/FO/2005/N1<br>Description: Scheme comprises change of use of<br>shed from warehouse to sorting shed for skip<br>waste recycling. An application (ref:<br>077598/FO/2005/N1) for detailed planning<br>permission was granted by Manchester C.C.<br>Planning decision obtained<br>Data source: Historic Planning Application<br>Data Type: Point                                                       | -    |
| 5  | 369m N   | Site Address: Hargreaves Street, Hargreaves<br>Street, MANCHESTER, Greater Manchester,<br>M4 4EJ | Type of Site: Waste Transfer Station<br>Planning application reference: 54626<br>Description: Building to be used as a waste transfer<br>station. Use of the land for storage of re-cycled<br>materials for existing concrete business.<br>Garage/workshop buildings and portable buildings<br>relocated. An application (ref: 54626) for Detailed<br>Planning permisssn was submitted to Manchester<br>C.C. on 12th June 1998.<br>Data source: Historic Planning Application<br>Data Type: Point | -    |
| G  | 405m N   | Site Address: N/A                                                                                | Type of Site: Scrap Metal Works<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                                                                                 | 1969 |
| H  | 408m N   | Site Address: N/A                                                                                | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                                                                                        | 1993 |
| H  | 408m N   | Site Address: N/A                                                                                | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                                                                                        | 1994 |
| I  | 431m NW  | Site Address: N/A                                                                                | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                                                                                                                        | 1995 |



| ID | Location | Address           | Further Details                                                                                                                            | Date |
|----|----------|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------|------|
| I  | 431m NW  | Site Address: N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1989 |
| H  | 431m N   | Site Address: N/A | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon | 1995 |

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

### 3.6 Licensed waste sites

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>12</b> |
|----------------------------|-----------|

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

Features are displayed on the Waste and landfill map on [page 57 >](#)

| ID | Location | Details                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                   |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D  | 249m SE  | Site Name: French Parts Uk<br>Site Address: 35 - 39, Oldham Road, Manchester, Manchester, M4 5FG<br>Correspondence Address: -                                                                        | Type of Site: Metal Recycling Site (Vehicle Dismantler)<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: 642958<br>EPR reference: EA/EPR/TP3494CL<br>Operator: Brendan J Kershaw & Winston Brown<br>Waste Management licence No: 50328<br>Annual Tonnage: 0 | Issue Date: 10/08/2004<br>Effective Date: 10/08/2004<br>Modified: -<br>Surrendered Date: 10/08/2004<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |
| E  | 373m N   | Site Name: Farlam Waste Management Ltd<br>Site Address: Warford Street, Collyhurst, Manchester, M4 4DD<br>Correspondence Address: Warford Street, Off Dantzic Street, Collyhurst, Manchester, M4 4DD | Type of Site: Household, Commercial & Industrial Waste T Stn<br>Size: 25000 tonnes<br>Environmental Permitting Regulations (Waste) Licence Number: FAR008<br>EPR reference: -<br>Operator: Farlam Waste Management Ltd<br>Waste Management licence No: 50461<br>Annual Tonnage: 0                | Issue Date: 20/02/2007<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                        |



| ID | Location | Details                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                      |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 373m N   | Site Name: Farlam Properties Ltd<br>Site Address: Warford Street,<br>Collyhurst, Manchester,<br>Manchester, M4 4JJ<br>Correspondence Address: -                            | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: 643882<br>EPR reference: EA/EPR/DP3098CF<br>Operator: Farlam Properties<br>Limited<br>Waste Management licence No:<br>50118<br>Annual Tonnage: 24999                          | Issue Date: 27/08/2002<br>Effective Date: 27/08/2002<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired |
| E  | 373m N   | Site Name: Farlam Waste<br>Management Ltd<br>Site Address: Land/premises At,<br>Warford Street, Collyhurst,<br>Manchester, Manchester, M4 4DD<br>Correspondence Address: - | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: >= 25000 tonnes 75000<br>tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: 651660<br>EPR reference: EA/EPR/YP3594CH<br>Operator: Farlam Waste<br>Management Limited<br>Waste Management licence No:<br>50461<br>Annual Tonnage: 74999 | Issue Date: 20/02/2007<br>Effective Date: 20/02/2007<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired |
| 6  | 404m NW  | Site Name: Placemix Ltd Transfer<br>Station<br>Site Address: Hargreaves Street,<br>Manchester, Manchester, M4 4EJ<br>Correspondence Address: -                             | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: 629947<br>EPR reference: EA/EPR/CP3998CM<br>Operator: Placemix Limited<br>Waste Management licence No:<br>50017<br>Annual Tonnage: 24900                                      | Issue Date: 31/03/2000<br>Effective Date: 31/03/2000<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Expired |



| ID | Location | Details                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| G  | 430m N   | Site Name: J Ryan & Co Ltd<br>Site Address: Dulwich Street,<br>Collyhurst, Manchester, M4 4JJ<br>Correspondence Address: Pearl<br>Environmental Services, 13,<br>Middleton Road, Reddish,<br>Stockport, Cheshire, SK5 6SG                | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: >= 25000 tonnes 75000<br>tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: JR001<br>EPR reference: -<br>Operator: J Ryan & Co Ltd<br>Waste Management licence No:<br>50084<br>Annual Tonnage: 0 | Issue Date: 15/03/2002<br>Effective Date: -<br>Modified: 26/07/2004<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| G  | 430m N   | Site Name: J Ryan & Co Ltd<br>Site Address: Dulwich Street,<br>Collyhurst, Manchester, M4 4JJ<br>Correspondence Address: Pearl<br>Environmental Services, 13,<br>Middleton Road, Reddish,<br>Stockport, Cheshire, SK5 6SG                | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: JR001<br>EPR reference: -<br>Operator: J Ryan & Co Ltd<br>Waste Management licence No:<br>50084<br>Annual Tonnage: 0                    | Issue Date: 15/03/2002<br>Effective Date: -<br>Modified: 26/07/2004<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |
| G  | 430m N   | Site Name: J Ryan & Co Ltd<br>Site Address: Dulwich Street,<br>Collyhurst, Manchester, M4 4JJ<br>Correspondence Address: Brian<br>Cook, Pearl Environmental<br>Services, 13, Middleton Road,<br>Reddish, Stockport, Cheshire, SK5<br>6SG | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: >= 25000 tonnes 75000<br>tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: JR001<br>EPR reference: -<br>Operator: J Ryan & Co Ltd<br>Waste Management licence No:<br>50084<br>Annual Tonnage: 0 | Issue Date: 15/03/2002<br>Effective Date: -<br>Modified: 26/07/2004<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Modified |



| ID | Location | Details                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                     |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G  | 430m N   | Site Name: J Ryan<br>Site Address: Land/premises At,<br>Dulwich Street, Collyhurst,<br>Manchester, M4 4JJ<br>Correspondence Address: -                                                                                | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: >= 25000 tonnes 75000<br>tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: JRC001<br>EPR reference:<br>EA/EPR/WP3898CJ/T003<br>Operator: Ryan John<br>Waste Management licence No:<br>50084<br>Annual Tonnage: 75000 | Issue Date: 15/03/2002<br>Effective Date: 04/07/2007<br>Modified: 26/07/2004<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Transferred   |
| G  | 430m N   | Site Name: J Ryan<br>Site Address: Land/premises At,<br>Dulwich Street, Collyhurst,<br>Manchester, Manchester, M4 4JJ<br>Correspondence Address: -                                                                    | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: >= 75000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: 639873<br>EPR reference: EA/EPR/WP3898CJ<br>Operator: John Ryan<br>Waste Management licence No:<br>50084<br>Annual Tonnage: 75000                         | Issue Date: 15/03/2002<br>Effective Date: 15/03/2002<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                 |
| 9  | 456m NW  | Site Name: Mobile Plant<br>Site Address: Red Bank, Cheetham<br>Hill, Manchester, M8<br>Correspondence Address: -                                                                                                      | Type of Site: Mobile Plant<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: MEL002<br>EPR reference:<br>EA/EPR/LP3292ZH/S002<br>Operator: Mel Ltd<br>Waste Management licence No:<br>65243<br>Annual Tonnage: 75000                                                              | Issue Date: 17/04/2002<br>Effective Date: -<br>Modified: -<br>Surrendered Date: Feb 6 2007<br>12:00AM<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Surrendered |
| G  | 467m N   | Site Name: J Ryan & Co<br>Site Address: Dulwich Street,<br>Collyhurst, Manchester, M4 4JJ<br>Correspondence Address: Pearl<br>Environmental Services, 13,<br>Middleton Road, Reddish,<br>Stockport, Cheshire, SK5 6SG | Type of Site: Household,<br>Commercial & Industrial Waste T<br>Stn<br>Size: 25000 tonnes<br>Environmental Permitting<br>Regulations (Waste) Licence<br>Number: JR001<br>EPR reference: -<br>Operator: J Ryan & Co Ltd<br>Waste Management licence No:<br>50084<br>Annual Tonnage: 25000                                     | Issue Date: 15/03/2002<br>Effective Date: -<br>Modified: -<br>Surrendered Date: -<br>Expiry Date: -<br>Cancelled Date: -<br>Status: Issued                          |



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

### 3.7 Waste exemptions

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>22</b> |
|----------------------------|-----------|

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 57 >](#)

| ID | Location | Site                                                                    | Reference                | Category                    | Sub-Category                       | Description                                                 |
|----|----------|-------------------------------------------------------------------------|--------------------------|-----------------------------|------------------------------------|-------------------------------------------------------------|
| A  | 103m NW  | New Century Hall,<br>Corporation Street,<br>Manchester, M4 4DE          | WEX086704                | Using waste<br>exemption    | Not on a farm                      | Use of waste in construction                                |
| A  | 104m NW  | 23, NEW MOUNT STREET,<br>MANCHESTER, M4 4DE                             | WEX135218                | Storing waste<br>exemption  | Not on a farm                      | Storage of waste in a secure<br>place                       |
| C  | 213m W   | Bestway Panacea<br>Healthcare Limited Details<br>Available Upon Request | EPR/RE5643G<br>X/A001    | Treating waste<br>exemption | Non-<br>Agricultural<br>Waste Only | Sorting and de-naturing of<br>controlled drugs for disposal |
| C  | 214m W   | -                                                                       | EPR/RE5043G<br>A/A001    | Treating waste<br>exemption | Non-<br>Agricultural<br>Waste Only | Sorting and de-naturing of<br>controlled drugs for disposal |
| 1  | 237m S   | -                                                                       | WEX263516                | Using waste<br>exemption    | Not on a farm                      | Use of waste in construction                                |
| D  | 243m SE  | -                                                                       | WEX280563                | Using waste<br>exemption    | Not on a farm                      | Use of waste in construction                                |
| D  | 243m SE  | -                                                                       | WEX280563                | Treating waste<br>exemption | Not on a farm                      | Screening and blending of<br>waste                          |
| 2  | 258m S   | Smithfield Ph 6 Goadsby<br>Street Manchester M4 1EH                     | EPR/EE5250VR<br>/A001    | Using waste<br>exemption    | Non-<br>Agricultural<br>Waste Only | Use of waste in construction                                |
| 3  | 261m NW  | 204, M4 4DD                                                             | WEX167615                | Storing waste<br>exemption  | Not on a farm                      | Storage of waste in a secure<br>place                       |
| F  | 356m NW  | Unit 11, 11 Red Bank<br>Court, Manchester, M4<br>4HF                    | WEX107443                | Storing waste<br>exemption  | Not on a farm                      | Storage of waste in a secure<br>place                       |
| F  | 361m NW  | Arch 11 Red Bank Court<br>Manchester M4 4HF                             | EA/EPR/VP375<br>9YE/A001 | Treating waste<br>exemption | Non-<br>Agricultural<br>Waste Only | Repair or refurbishment<br>of WEEE                          |
| F  | 393m NW  | Unit 11, Red Bank Court,<br>Manchester, M4 4HF                          | EA/EPR/VP388<br>3PQ/A001 | Treating waste<br>exemption | Not on a farm                      | Repair or refurbishment<br>of WEEE                          |

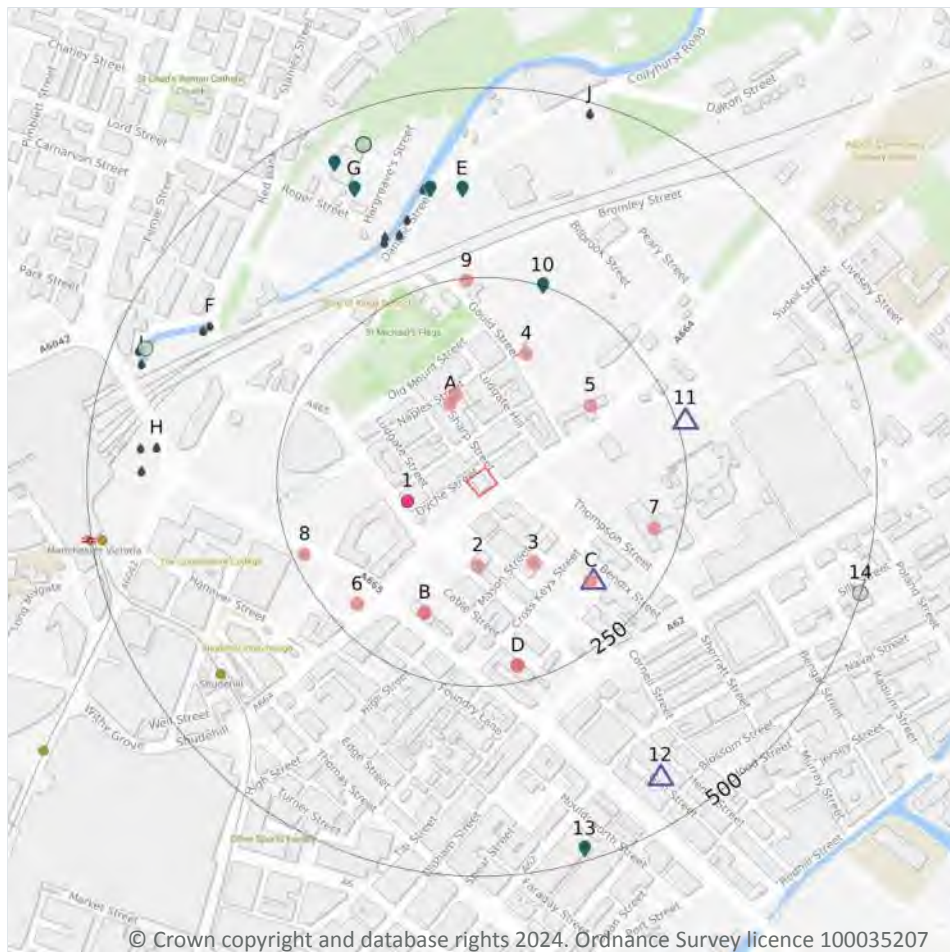


| ID | Location | Site                                                                                    | Reference             | Category                    | Sub-Category                       | Description                           |
|----|----------|-----------------------------------------------------------------------------------------|-----------------------|-----------------------------|------------------------------------|---------------------------------------|
| F  | 405m NW  | Ritter Manchester Unit 17<br>Red Bank Court<br>Manchester M4 4HF                        | EPR/LE5149HL<br>/A001 | Storing waste<br>exemption  | Non-<br>Agricultural<br>Waste Only | Storage of waste in a secure<br>place |
| 7  | 418m E   | 110 Oldham Road<br>MANCHESTER M4 6AG                                                    | EPR/WH0178G<br>E/A001 | Treating waste<br>exemption | Non-<br>Agricultural<br>Waste Only | Manual treatment of waste             |
| E  | 420m N   | 204 DANTZIC STREET<br>MANCHESTER M4 4DD                                                 | EPR/MF0901G<br>D/A001 | Treating waste<br>exemption | Non-<br>Agricultural<br>Waste Only | Sorting mixed waste                   |
| E  | 420m N   | 204 DANTZIC STREET<br>MANCHESTER M4 4DD                                                 | EPR/MF0901G<br>D/A001 | Treating waste<br>exemption | Non-<br>Agricultural<br>Waste Only | Recovery of scrap metal               |
| F  | 422m NW  | CE ASSET MANAGEMENT<br>LTD ARCH 11 RED BANK<br>COURT MANCHESTER M4<br>4HF               | EPR/JF0703BC<br>/A001 | Storing waste<br>exemption  | Non-<br>Agricultural<br>Waste Only | Storage of waste in a secure<br>place |
| 8  | 432m W   | Noma Hanover (Russells<br>Construction Works),<br>Hanover Street,<br>Manchester, M4 4AH | WEX075222             | Using waste<br>exemption    | Not on a farm                      | Use of waste in construction          |
| J  | 435m SE  | 41-45, GREAT ANCOATS<br>STREET, MANCHESTER, M4<br>5AE                                   | WEX105955             | Using waste<br>exemption    | Not on a farm                      | Use of waste in construction          |
| J  | 435m SE  | 41-45, GREAT ANCOATS<br>STREET, MANCHESTER, M4<br>5AE                                   | WEX105955             | Treating waste<br>exemption | Not on a farm                      | Screening and blending of<br>waste    |
| J  | 453m SE  | 11-13 Blossom Street,<br>Blossom Street,<br>Manchester, M4 5AF                          | WEX105958             | Using waste<br>exemption    | Not on a farm                      | Use of waste in construction          |
| J  | 453m SE  | 11-13 Blossom Street,<br>Blossom Street,<br>Manchester, M4 5AF                          | WEX105958             | Treating waste<br>exemption | Not on a farm                      | Screening and blending of<br>waste    |

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



## 4 Current industrial land use



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

### 4.1 Recent industrial land uses

Records within 250m

17

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 66](#) >

| ID | Location | Company                 | Address                                                      | Activity                       | Category                      |
|----|----------|-------------------------|--------------------------------------------------------------|--------------------------------|-------------------------------|
| 2  | 91m S    | International Trimmings | 44, Addington Street, Manchester, Greater Manchester, M4 5EU | Ropes, Nets and Cordage        | Industrial Products           |
| A  | 96m N    | Works                   | Greater Manchester, M4                                       | Unspecified Works Or Factories | Industrial Features           |
| A  | 103m N   | Electricity Sub Station | Greater Manchester, M4                                       | Electrical Features            | Infrastructure and Facilities |



| ID | Location | Company                         | Address                                                                                  | Activity                                  | Category                      |
|----|----------|---------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------|
| 3  | 112m SE  | Customised Clothing Co          | 32, Mason Street, Manchester, Greater Manchester, M4 5EY                                 | Textiles, Fabrics, Silk and Machinery     | Industrial Products           |
| 4  | 159m N   | Electricity Sub Station         | Greater Manchester, M4                                                                   | Electrical Features                       | Infrastructure and Facilities |
| 5  | 160m NE  | Perfect Auto Repairs            | 87, Rochdale Road, Manchester, Greater Manchester, M4 4HY                                | Vehicle Repair, Testing and Servicing     | Repair and Servicing          |
| B  | 169m SW  | N Q Fireplace Studio            | 60, Swan Street, Manchester, Greater Manchester, M4 5JU                                  | Fireplaces and Mantelpieces               | Consumer Products             |
| B  | 170m SW  | Xenos Clothing                  | 60, Swan Street, Manchester, Greater Manchester, M4 5JU                                  | Clothing, Components and Accessories      | Consumer Products             |
| C  | 178m SE  | Chimney                         | Greater Manchester, M4                                                                   | Chimneys                                  | Industrial Features           |
| 6  | 214m SW  | Electricity Sub Station         | Greater Manchester, M4                                                                   | Electrical Features                       | Infrastructure and Facilities |
| 7  | 215m E   | Manchester Central Fire Station | G M C Fire Service Fire Station, Thompson Street, Manchester, Greater Manchester, M4 5FP | Fire Brigade Stations                     | Central and Local Government  |
| D  | 228m S   | The Total Repair Care Co Ltd    | Fourth Floor, Swan Buildings, 20, Swan Street, Manchester, Greater Manchester, M4 5JW    | Electrical Equipment Repair and Servicing | Repair and Servicing          |
| D  | 228m S   | J N R Ltd                       | Fourth Floor, Swan Buildings, 20, Swan Street, Manchester, Greater Manchester, M4 5JW    | General Construction Supplies             | Industrial Products           |
| D  | 228m S   | Diamondsource Ltd               | Swan Buildings 20, Swan Street, Manchester, Greater Manchester, M4 5JW                   | Industrial Repairs and Servicing          | Repair and Servicing          |
| D  | 228m S   | Manchester Flooring Company     | First Floor Swan Buildings 20, Swan Street, Manchester, Greater Manchester, M4 5JW       | Construction Completion Services          | Construction Services         |
| 8  | 234m W   | Electricity Sub Station         | Greater Manchester, M4                                                                   | Electrical Features                       | Infrastructure and Facilities |
| 9  | 247m N   | Electricity Sub Station         | Greater Manchester, M4                                                                   | Electrical Features                       | Infrastructure and Facilities |

*This data is sourced from Ordnance Survey.*



## 4.2 Current or recent petrol stations

**Records within 500m****3**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 66](#) >

| ID | Location | Company   | Address                                                                               | LPG            | Status   |
|----|----------|-----------|---------------------------------------------------------------------------------------|----------------|----------|
| C  | 178m SE  | UNBRANDED | 12, Rochdale Road, Bendix Street, Collyhurst, Manchester, Greater Manchester, M24 6DP | Not Applicable | Obsolete |
| 11 | 262m E   | OBSOLETE  | 95-109, Rochdale Road, Manchester, Greater Manchester, M4 4HZ                         | Not Applicable | Obsolete |
| 12 | 437m SE  | OBSOLETE  | 27, Gun Street, Ancoats, Manchester, Greater Manchester, M4 5DN                       | Not Applicable | Obsolete |

*This data is sourced from Experian.*

## 4.3 Electricity cables

**Records within 500m****0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

## 4.4 Gas pipelines

**Records within 500m****0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

## 4.5 Sites determined as Contaminated Land

**Records within 500m****0**

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

*This data is sourced from Local Authority records.*



## 4.6 Control of Major Accident Hazards (COMAH)

**Records within 500m****0**

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

*This data is sourced from the Health and Safety Executive.*

## 4.7 Regulated explosive sites

**Records within 500m****0**

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

*This data is sourced from the Health and Safety Executive.*

## 4.8 Hazardous substance storage/usage

**Records within 500m****0**

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

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

**Records within 500m****0**

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

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

## 4.10 Licensed industrial activities (Part A(1))

**Records within 500m****0**

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

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



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

### Records within 500m

**7**

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 66](#) >

| ID | Location | Address                                                                                    | Details                                                                                             |                                                                                                                             |
|----|----------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 10 | 251m N   | Manchester Tobacco Ltd,<br>Ludgate Hill, Manchester, M4<br>4DA                             | Process: Vegetable Matter Drying<br>Processes<br>Status: Historical Permit<br>Permit Type: Part B   | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |
| E  | 368m N   | Concret Barrowing Company<br>Ltd, Hargreaves Street,<br>Cheetham, M4 4EJ                   | Process: Use of Bulk Cement<br>Status: Historical Permit<br>Permit Type: Part B                     | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |
| E  | 373m N   | Place Mix Ltd, Hargreave St,<br>M4 4EJ                                                     | Process: Use of Bulk Cement<br>Status: Historical Permit<br>Permit Type: Part B                     | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |
| E  | 373m N   | Tan Yard Metal Ltd, Hargreaves<br>St, M4 4EJ                                               | Process: Non-ferrous Metal<br>Foundry Processes<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |
| G  | 405m NW  | New Mix Concrete, Roger St,<br>M4 4EN                                                      | Process: Use of Bulk Cement<br>Status: Historical Permit<br>Permit Type: Part B                     | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |
| G  | 447m NW  | Avis Rent A Car Ltd, Avis<br>Bodyshop, Chase Street,<br>Redbank, Cheetham, Hill, M4<br>4FL | Process: Respraying of Road<br>Vehicles<br>Status: Historical Permit<br>Permit Type: Part B         | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |
| 13 | 483m S   | Express Printers Manchester<br>Ltd, Hery Street, Ancoats, M60<br>4HB                       | Process: Coating Processes<br>Status: Historical Permit<br>Permit Type: Part B                      | Enforcement: No Enforcement Notified<br>Date of enforcement: No Enforcement<br>Notified<br>Comment: No Enforcement Notified |

*This data is sourced from Local Authority records.*



## 4.12 Radioactive Substance Authorisations

### Records within 500m

**1**

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

Features are displayed on the Current industrial land use map on [page 66](#) >

| ID | Location | Address                                                                                                            | Details                                                                                                                                                                              |                                                                                            |
|----|----------|--------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| 1  | 82m W    | Brooke Edgley Specialist Technical Services Ltd, Unit 4, Angel Industrial Estate, Angel Street, Manchester, M4 4BQ | Operator: Brooke Edgley Specialist Technical Services Ltd<br>Type: Disposal Of Radioactive Waste (was Rsa60 Section 6).<br>Permission number: BI9880<br>Date of approval: 07/08/2000 | Effective from: 07/08/2000<br>Last date of update: 01/01/2015<br>Status: Revoked/cancelled |

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

## 4.13 Licensed Discharges to controlled waters

### Records within 500m

**32**

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 66](#) >

| ID | Location | Address                                                                                  | Details                                                                                                                                                   |                                                                                                                                                                  |
|----|----------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 324m N   | LORD ST & RED BANK, MANCHESTER, GREATER MANCHESTER                                       | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0062<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: REVOKED - UNSPECIFIED<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 25/10/1995                                                      |
| E  | 324m N   | ROGER STREET/HARGREAVES STREET CSO, ROGER STREET, MANCHESTER, GREATER MANCHESTER, M4 4EN | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0059<br>Permit Version: 3<br>Receiving Water: RIVER IRK | Status: VARIED UNDER EPR 2010<br>Issue date: 03/09/2010<br>Effective Date: 03/09/2010<br>Revocation Date: 21/03/2016                                             |
| E  | 324m N   | ROGER STREET/HARGREAVES STREET CSO, ROGER STREET, MANCHESTER, GREATER MANCHESTER, M4 4EN | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0059<br>Permit Version: 2<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 14/04/2009<br>Effective Date: 14/04/2009<br>Revocation Date: 02/09/2010 |



| ID | Location | Address                                                                                   | Details                                                                                                                                                   |                                                                                                                                                                  |
|----|----------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 324m N   | ROGER STREET/HARGREAVES STREET CSO, ROGER STREET, MANCHESTER, GREATER MANCHESTER, M4 4EN  | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0059<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 13/04/2009          |
| E  | 325m N   | GOULD ST/JASON ST, MANCHESTER, GREATER MANCHESTER                                         | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0047<br>Permit Version: 3<br>Receiving Water: RIVER IRK | Status: SURRENDERED UNDER EPR 2010<br>Issue date: 03/09/2010<br>Effective Date: 03/09/2010<br>Revocation Date: 03/12/2014                                        |
| E  | 325m N   | GOULD ST/JASON ST, MANCHESTER, GREATER MANCHESTER                                         | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0047<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 13/04/2009          |
| E  | 325m N   | GOULD ST/JASON ST, MANCHESTER, GREATER MANCHESTER                                         | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0047<br>Permit Version: 2<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 14/04/2009<br>Effective Date: 14/04/2009<br>Revocation Date: 02/09/2010 |
| E  | 331m N   | ROGER STREET/HARGREAVES STREET CSO, ROGER STREET, MANCHESTER, GREATER MANCHESTER, M4 4EN  | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0059<br>Permit Version: 4<br>Receiving Water: RIVER IRK | Status: SURRENDERED UNDER EPR 2010<br>Issue date: 22/03/2016<br>Effective Date: 22/03/2016<br>Revocation Date: 09/03/2018                                        |
| E  | 341m N   | PARLANE ST/DANTZIC ST, MANCHESTER, GREATER MANCHESTER                                     | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0061<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: REVOKED - UNSPECIFIED<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 25/10/1995                                                      |
| E  | 341m N   | BROMLEY STREET/DANTZIC STREET CSO, BROMLEY STREET, MANCHESTER, GREATER MANCHESTER, M4 4JS | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0046<br>Permit Version: 2<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY)<br>Issue date: 14/04/2009<br>Effective Date: 14/04/2009<br>Revocation Date: 10/01/2017 |



| ID | Location | Address                                                                                                           | Details                                                                                                                                                      |                                                                                                                                                               |
|----|----------|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E  | 341m N   | BROMLEY STREET/DANTZIC STREET<br>CSO, BROMLEY STREET,<br>MANCHESTER, GREATER<br>MANCHESTER, M4 4JS                | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0046<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION<br>WHERE ISSUE DATE > 31-AUG-89<br>(HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 13/04/2009 |
| E  | 341m N   | BROMLEY STREET/DANTZIC STREET<br>CSO, BROMLEY STREET,<br>MANCHESTER, GREATER<br>MANCHESTER, M4 4JS                | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0046<br>Permit Version: 3<br>Receiving Water: RIVER IRK | Status: SURRENDERED UNDER EPR<br>2010<br>Issue date: 11/01/2017<br>Effective Date: 11/01/2017<br>Revocation Date: 27/04/2018                                  |
| E  | 375m N   | BROMLEY STREET CSO 281MT, 41<br>WILIAMSON STREET, NEAR<br>RAILWAY ARCH, MANCHESTER,<br>GREATER MANCHESTER, M4 4JS | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0310<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: CONSENT REVOKED OR<br>REVISED - NEW CONSENT ISSUED<br>(37(1))<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 01/01/1995           |
| E  | 375m N   | BROMLEY STREET CSO 281MT, 41<br>WILIAMSON STREET, NEAR<br>RAILWAY ARCH, MANCHESTER,<br>GREATER MANCHESTER, M4 4JS | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 016982627<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION<br>WHERE ISSUE DATE > 31-AUG-89<br>(HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 30/09/1994<br>Revocation Date: 31/03/2018 |
| E  | 375m N   | BROMLEY STREET CSO 281MT, 41<br>WILIAMSON STREET, NEAR<br>RAILWAY ARCH, MANCHESTER,<br>GREATER MANCHESTER, M4 4JS | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 016982627<br>Permit Version: 2<br>Receiving Water: RIVER IRK | Status: VARIED UNDER EPR 2010<br>Issue date: 21/03/2018<br>Effective Date: 01/04/2018<br>Revocation Date: -                                                   |
| F  | 395m NW  | ASPIN LANE CSO 281CJ, VALLEA<br>COURT, 1 RED BANK,<br>MANCHESTER, M4 4FE                                          | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0031<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: POST NRA LEGISLATION<br>WHERE ISSUE DATE > 31-AUG-89<br>(HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 02/09/2010 |
| F  | 395m NW  | ASPIN LANE CSO 281CJ, VALLEA<br>COURT, 1 RED BANK,<br>MANCHESTER, M4 4FE                                          | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0031<br>Permit Version: 2<br>Receiving Water: RIVER IRK | Status: VARIED UNDER EPR 2010<br>Issue date: 03/09/2010<br>Effective Date: 03/09/2010<br>Revocation Date: 04/02/2016                                          |



| ID | Location | Address                                                                                                               | Details                                                                                                                                                                          |                                                                                                                                                               |
|----|----------|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F  | 399m NW  | ASPIN LANE CSO 281CJ, VALLEA COURT, 1 RED BANK, MANCHESTER, M4 4FE                                                    | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0031<br>Permit Version: 3<br>Receiving Water: RIVER IRK                     | Status: VARIED UNDER EPR 2010<br>Issue date: 05/02/2016<br>Effective Date: 05/02/2016<br>Revocation Date: 24/06/2018                                          |
| F  | 399m NW  | ASPIN LANE CSO 281CJ, VALLEA COURT, 1 RED BANK, MANCHESTER, M4 4FE                                                    | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0031<br>Permit Version: 4<br>Receiving Water: RIVER IRK                     | Status: VARIED UNDER EPR 2010<br>Issue date: 25/06/2018<br>Effective Date: 25/06/2018<br>Revocation Date: -                                                   |
| H  | 410m W   | MILLER STREET/CORPORATION ST CSO, MILLER STREET, MANCHESTER, GREATER MANCHESTER, M4 4DY                               | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0161<br>Permit Version: 2<br>Receiving Water: RIVER IRK                     | Status: VARIED UNDER EPR 2010<br>Issue date: 03/09/2010<br>Effective Date: 03/09/2010<br>Revocation Date: 10/01/2017                                          |
| H  | 410m W   | MILLER STREET/CORPORATION ST CSO, MILLER STREET, MANCHESTER, GREATER MANCHESTER, M4 4DY                               | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0161<br>Permit Version: 1<br>Receiving Water: RIVER IRK                     | Status: POST NRA LEGISLATION<br>WHERE ISSUE DATE > 31-AUG-89<br>(HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 02/09/2010 |
| H  | 410m W   | MILLER STREET/CORPORATION ST CSO, MILLER STREET, MANCHESTER, GREATER MANCHESTER, M4 4DY                               | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0161<br>Permit Version: 3<br>Receiving Water: RIVER IRK                     | Status: VARIED UNDER EPR 2010<br>Issue date: 11/01/2017<br>Effective Date: 11/01/2017<br>Revocation Date: -                                                   |
| H  | 428m W   | CORPORATION STREET CSO, CORPORATION STREET, NEAR JUNCTION WITH MILLER STREET, MANCHESTER, GREATER MANCHESTER, M60 0AB | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0159<br>Permit Version: 1<br>Receiving Water: RIVER IRK                     | Status: POST NRA LEGISLATION<br>WHERE ISSUE DATE > 31-AUG-89<br>(HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 02/09/2010 |
| H  | 428m W   | CORPORATION STREET CSO, CORPORATION STREET, NEAR JUNCTION WITH MILLER STREET, MANCHESTER, GREATER MANCHESTER, M60 0AB | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0159<br>Permit Version: 4<br>Receiving Water: CULVERTED SEC<br>OF RIVER IRK | Status: SURRENDERED UNDER EPR<br>2010<br>Issue date: 11/04/2018<br>Effective Date: 11/04/2018<br>Revocation Date: 15/11/2021                                  |



| ID | Location | Address                                                                                                                           | Details                                                                                                                                                              |                                                                                                                                                               |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H  | 428m W   | CORPORATION STREET CSO,<br>CORPORATION STREET, NEAR<br>JUNCTION WITH MILLER STREET,<br>MANCHESTER, GREATER<br>MANCHESTER, M60 0AB | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0159<br>Permit Version: 2<br>Receiving Water: RIVER IRK         | Status: VARIED UNDER EPR 2010<br>Issue date: 03/09/2010<br>Effective Date: 03/09/2010<br>Revocation Date: 21/03/2016                                          |
| H  | 428m W   | CORPORATION STREET CSO,<br>CORPORATION STREET, NEAR<br>JUNCTION WITH MILLER STREET,<br>MANCHESTER, GREATER<br>MANCHESTER, M60 0AB | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0159<br>Permit Version: 3<br>Receiving Water: RIVER IRK         | Status: VARIED UNDER EPR 2010<br>Issue date: 22/03/2016<br>Effective Date: 22/03/2016<br>Revocation Date: 10/04/2018                                          |
| H  | 431m W   | NEW VICTORIA DEVELOPMENT<br>(VINCI, CONSTRUCTION), LONG<br>MILLGATE, MANCHESTER, M3 1NX                                           | Effluent Type: SEWAGE<br>DISCHARGES - FINAL/TREATED<br>EFFLUENT - NOT WATER COMPANY<br>Permit Number: EPRUB3890AJ<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: SURRENDERED UNDER EPR<br>2010<br>Issue date: 25/01/2022<br>Effective Date: 25/01/2022<br>Revocation Date: 21/11/2023                                  |
| I  | 455m W   | VERDON STREET/SCOTLAND CSO,<br>SCOTLAND VIA RED BANK,<br>MANCHESTER, GREATER<br>MANCHESTER, M4 4EW                                | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 016982715<br>Permit Version: 1<br>Receiving Water: RIVER IRK         | Status: POST NRA LEGISLATION<br>WHERE ISSUE DATE > 31-AUG-89<br>(HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 30/09/1994<br>Revocation Date: 03/12/2019 |
| I  | 455m W   | VERDON STREET/SCOTLAND CSO,<br>SCOTLAND VIA RED BANK,<br>MANCHESTER, GREATER<br>MANCHESTER, M4 4EW                                | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0265<br>Permit Version: 1<br>Receiving Water: RIVER IRK         | Status: CONSENT REVOKED OR<br>REVISED - NEW CONSENT ISSUED<br>(37(1))<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 01/01/1995           |
| I  | 465m W   | VERDON STREET/SCOTLAND CSO,<br>SCOTLAND VIA RED BANK,<br>MANCHESTER, GREATER<br>MANCHESTER, M4 4EW                                | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 016982715<br>Permit Version: 2<br>Receiving Water: RIVER IRK         | Status: VARIED UNDER EPR 2010<br>Issue date: 04/12/2019<br>Effective Date: 04/12/2019<br>Revocation Date: -                                                   |
| J  | 485m N   | DALTON ST/DANTZIC STREET SSO,<br>DALTON ST/DANTZIC STREET,<br>GREATER MANCHESTER                                                  | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 01MAN0264<br>Permit Version: 1<br>Receiving Water: RIVER IRK         | Status: CONSENT REVOKED OR<br>REVISED - NEW CONSENT ISSUED<br>(37(1))<br>Issue date: -<br>Effective Date: 01/01/1995<br>Revocation Date: 01/01/1995           |



| ID | Location | Address                                                                          | Details                                                                                                                                                      |                                                                                                                     |
|----|----------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| J  | 485m N   | DALTON ST/DANTZIC STREET SSO,<br>DALTON ST/DANTZIC STREET,<br>GREATER MANCHESTER | Effluent Type: SEWAGE<br>DISCHARGES - SEWER STORM<br>OVERFLOW - WATER COMPANY<br>Permit Number: 016982623<br>Permit Version: 1<br>Receiving Water: RIVER IRK | Status: SURRENDERED UNDER EPR<br>2010<br>Issue date: -<br>Effective Date: 30/09/1994<br>Revocation Date: 03/12/2014 |

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

#### 4.14 Pollutant release to surface waters (Red List)

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

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

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

#### 4.15 Pollutant release to public sewer

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

Discharges of Special Category Effluents to the public sewer.

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

#### 4.16 List 1 Dangerous Substances

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

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

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

#### 4.17 List 2 Dangerous Substances

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

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

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

## 4.18 Pollution Incidents (EA/NRW)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>6</b> |
|----------------------------|----------|

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 66](#) >

| ID | Location | Details                                                                                                                                         |                                                                                                                 |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| G  | 454m N   | Incident Date: 10/12/2012<br>Incident Identification: 1066931<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Household Waste  | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 3 (Minor) |
| G  | 454m N   | Incident Date: 10/12/2012<br>Incident Identification: 1066931<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Tyres            | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 3 (Minor) |
| G  | 454m N   | Incident Date: 10/12/2012<br>Incident Identification: 1066931<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Asbestos         | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 3 (Minor) |
| G  | 454m N   | Incident Date: 10/12/2012<br>Incident Identification: 1066931<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Commercial Waste | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 2 (Significant)<br>Air Impact: Category 3 (Minor) |
| I  | 457m W   | Incident Date: 10/01/2002<br>Incident Identification: 51724<br>Pollutant: Oils and Fuel<br>Pollutant Description: Mixed/Waste Oils              | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact)   |
| 14 | 499m E   | Incident Date: 12/07/2001<br>Incident Identification: 15967<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Commercial Waste   | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact)   |

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

## 4.19 Pollution inventory substances

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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



## 4.20 Pollution inventory waste transfers

Records within 500m

0

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

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

## 4.21 Pollution inventory radioactive waste

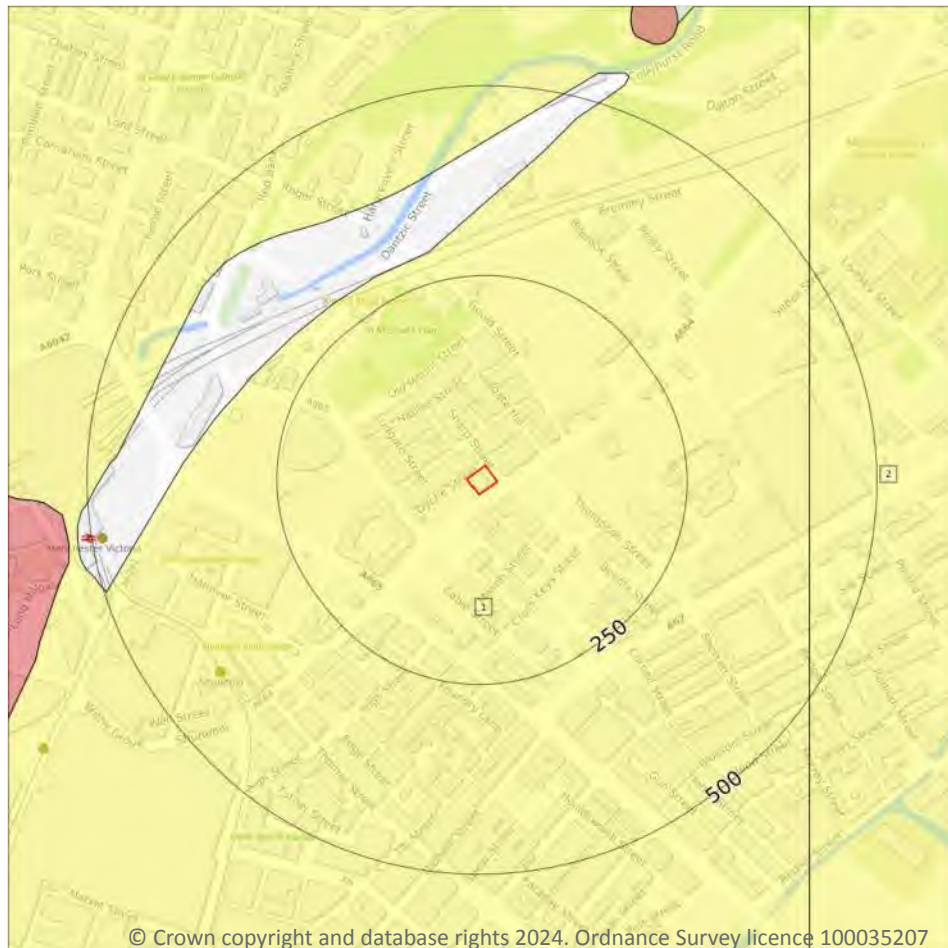
Records within 500m

0

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

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

## 5 Hydrogeology - Superficial aquifer



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

### 5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 79 >](#)

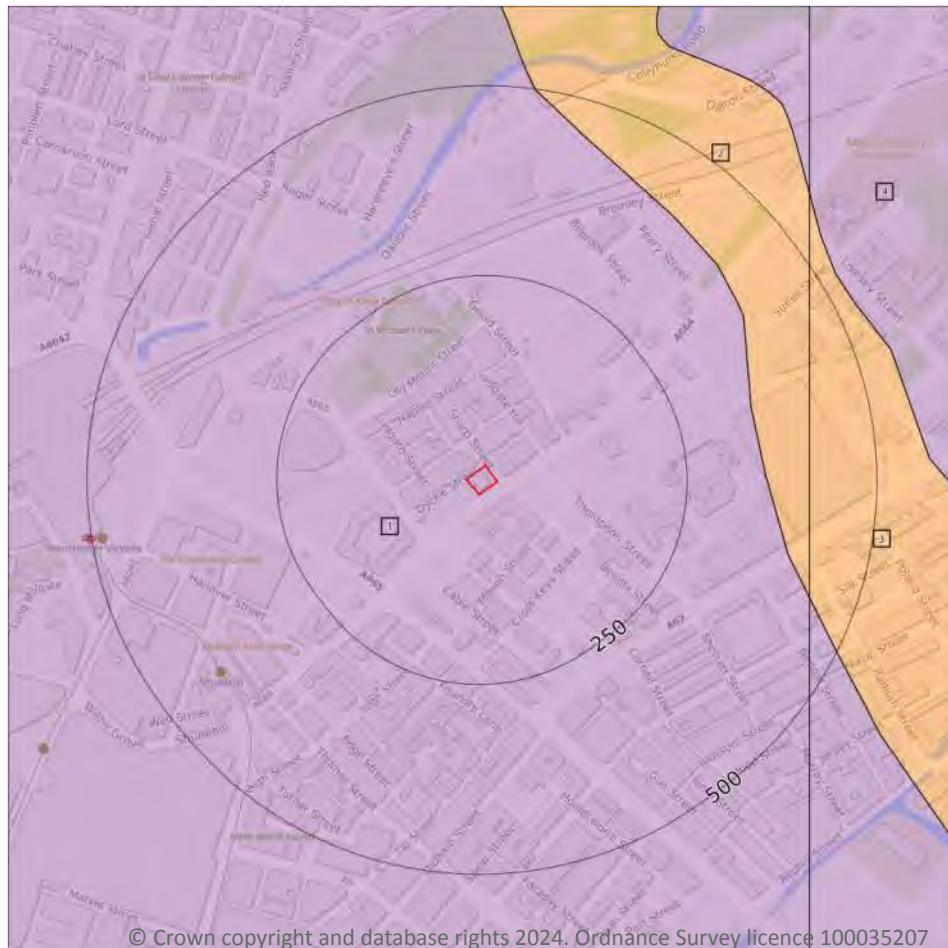
| ID | Location | Designation                | Description                                                                                                                                                                                                                                             |
|----|----------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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  | 411m E   | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |



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



## Bedrock aquifer



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

### 5.2 Bedrock aquifer

Records within 500m

4

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on [page 81](#) >

| ID | Location | Designation | Description                                                                                                                                                                                                                                             |
|----|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Principal   | <b>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</b>       |
| 2  | 347m E   | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |

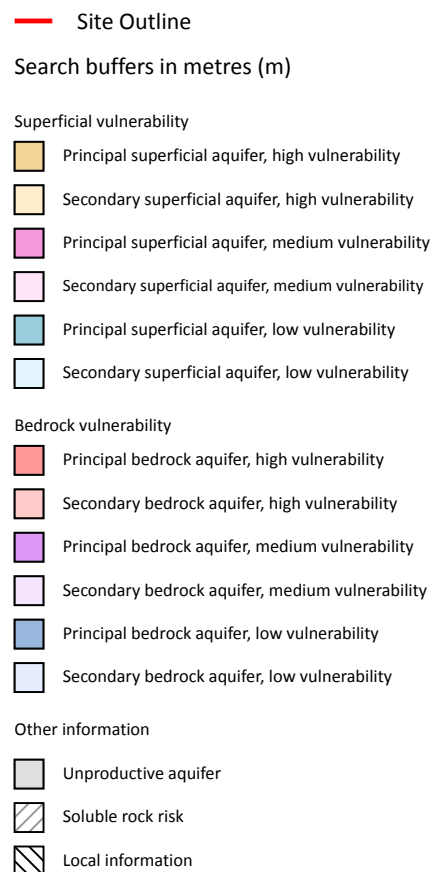


| ID | Location | Designation | Description                                                                                                                                                                                                                                             |
|----|----------|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 3  | 411m E   | Secondary B | Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers |
| 4  | 439m E   | 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 83](#) >



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

42

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 85 >](#)

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                          |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services"<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: - |
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250                                                                                  | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: - |
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250                                                                                    | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                  |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 1 AT PREMISES<br>STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250     | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process Water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 1 AT PREMISES<br>STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250                                                                                    | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services"<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 3) AT PREMISES,<br>STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: -         |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 3) AT PREMISES,<br>STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220                                                                                  | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: -         |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                  |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -         |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220                                                                                | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -         |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process Water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220                                                                                | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220 | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                          |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services"<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: - |
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190                                                                                  | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: - |
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190                                                                                    | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                            |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190 | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -           |
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Process Water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190                                                                                | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -           |
| -  | 813m NW  | Status: Active<br>Licence No: 2569004011<br>Details: Process Water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT DERBY BREWERY, CHEETHAM, MANCHESTER 3<br>Data Type: Point<br>Name: JOSEPH HOLT LTD<br>Easting: 384085<br>Northing: 399685                                                                                       | Annual Volume (m <sup>3</sup> ): 75000<br>Max Daily Volume (m <sup>3</sup> ): 300<br>Original Application No: NPS/WR/037017<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 29/06/2023<br>Version End Date: - |
| -  | 816m NW  | Status: Historical<br>Licence No: 2569004011<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT DERBY BREWERY, CHEETHAM, MANCHESTER 3<br>Data Type: Point<br>Name: JOSEPH HOLT LTD<br>Easting: 384100<br>Northing: 399700                                             | Annual Volume (m <sup>3</sup> ): 45460<br>Max Daily Volume (m <sup>3</sup> ): 181.84<br>Original Application No: 0423<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 17/02/1966<br>Version End Date: -       |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                      |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 816m NW  | Status: Historical<br>Licence No: 2569004011<br>Details: Process Water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT DERBY BREWERY, CHEETHAM,<br>MANCHESTER 3<br>Data Type: Point<br>Name: JOSEPH HOLT LTD<br>Easting: 384100<br>Northing: 399700                                                 | Annual Volume (m <sup>3</sup> ): 45460<br>Max Daily Volume (m <sup>3</sup> ): 181.84<br>Original Application No: 0423<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 17/02/1966<br>Version End Date: - |
| -  | 816m NW  | Status: Historical<br>Licence No: 2569004011<br>Details: General Cooling (Existing Licences Only) (Low<br>Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT DERBY BREWERY, CHEETHAM,<br>MANCHESTER 3"<br>Data Type: Point<br>Name: JOSEPH HOLT LTD<br>Easting: 384100<br>Northing: 399700      | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 17/02/1966<br>Version End Date: -             |
| -  | 816m NW  | Status: Historical<br>Licence No: 2569004011<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT DERBY BREWERY, CHEETHAM,<br>MANCHESTER 3"<br>Data Type: Point<br>Name: JOSEPH HOLT LTD<br>Easting: 384100<br>Northing: 399700                                               | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 17/02/1966<br>Version End Date: -             |
| -  | 905m W   | Status: Active<br>Licence No: 2569007070<br>Details: General Cooling (Existing Licences Only) (High<br>Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT DIAL HOUSE CHAPEL STREET<br>SALFORD<br>Data Type: Point<br>Name: BRITISH TELECOMMUNICATIONS PLC<br>Easting: 383700<br>Northing: 398700 | Annual Volume (m <sup>3</sup> ): 45<br>Max Daily Volume (m <sup>3</sup> ): 30<br>Original Application No: 2333<br>Original Start Date: 27/01/1971<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 01/04/2007<br>Version End Date: -        |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                          |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 905m W   | Status: Historical<br>Licence No: 2569007070<br>Details: General Cooling (Existing Licences Only) (High Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT DIAL HOUSE, CHAPEL ST, SALFORD"<br>Data Type: Point<br>Name: BRITISH TELECOM<br>Easting: 383700<br>Northing: 398700                                                            | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 27/01/1971<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 27/01/1971<br>Version End Date: - |
| -  | 905m W   | Status: Historical<br>Licence No: 2569007070<br>Details: General Cooling (Existing Licences Only) (High Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT DIAL HOUSE, CHAPEL ST, SALFORD<br>Data Type: Point<br>Name: BRITISH TELECOMMUNICATIONS PLC<br>Easting: 383700<br>Northing: 398700                                               | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 27/01/1971<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 01/04/1984<br>Version End Date: - |
| -  | 1017m NW | Status: Historical<br>Licence No: 2569004021<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, DERBY STREET, CHEETHAM, MANCHESTER<br>Data Type: Point<br>Name: LANCASHIRE DAIRIES LTD<br>Easting: 383900<br>Northing: 399800 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1993<br>Version End Date: - |
| -  | 1017m NW | Status: Historical<br>Licence No: 2569004021<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, DERBY STREET, CHEETHAM, MANCHESTER<br>Data Type: Point<br>Name: LANCASHIRE DAIRIES LTD<br>Easting: 383900<br>Northing: 399800                                          | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1993<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                 |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1098m SW | Status: Historical<br>Licence No: 2569007069<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT GEORGE ST, MANCHESTER"<br>Data Type: Point<br>Name: BRITISH TELECOM<br>Easting: 384100<br>Northing: 398000                                    | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 27/01/1971<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 27/01/1971<br>Version End Date: -                        |
| -  | 1098m SW | Status: Historical<br>Licence No: 2569007069<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT GEORGE ST, MANCHESTER<br>Data Type: Point<br>Name: BRITISH TELECOMMUNICATIONS PLC<br>Easting: 384100<br>Northing: 398000                       | Annual Volume (m <sup>3</sup> ): 1100<br>Max Daily Volume (m <sup>3</sup> ): 860<br>Original Application No: -<br>Original Start Date: 01/04/1984<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2007<br>Version End Date: -                   |
| -  | 1148m N  | Status: Active<br>Licence No: 2569005015<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: B/HOLE, LITTLE GREEN WORKS, COLLYHURST RD, MANCHESTER 10<br>Data Type: Point<br>Name: Packaging Products (Coatings) Ltd<br>Easting: 385000<br>Northing: 400100 | Annual Volume (m <sup>3</sup> ): 438689<br>Max Daily Volume (m <sup>3</sup> ): 1636.56<br>Original Application No: NPS/WR/006003<br>Original Start Date: 16/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/02/2011<br>Version End Date: - |
| -  | 1148m N  | Status: Historical<br>Licence No: 2569005015<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "B/HOLE, LITTLE GREEN WORKS, COLLYHURST RD, MANCHESTER 10"<br>Data Type: Point<br>Name: PACKAGING PRODUCTS LTD<br>Easting: 385000<br>Northing: 400100      | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 16/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/02/1995<br>Version End Date: -                        |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                         |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1276m S  | Status: Historical<br>Licence No: NW0690006001<br>Details: Non-Evaporative Cooling<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLES AT ORIGIN DEVELOPMENTS,<br>MANCHESTER<br>Data Type: Point<br>Name: West Contracting<br>Easting: 384378<br>Northing: 397733                                              | Annual Volume (m <sup>3</sup> ): 139128<br>Max Daily Volume (m <sup>3</sup> ): 1010<br>Original Application No: -<br>Original Start Date: 19/01/2009<br>Expiry Date: 31/03/2015<br>Issue No: 1<br>Version Start Date: 19/01/2009<br>Version End Date: - |
| -  | 1276m S  | Status: Historical<br>Licence No: NW/069/0006/001<br>Details: Non-Evaporative Cooling<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLES AT ORIGIN DEVELOPMENTS,<br>MANCHESTER<br>Data Type: Point<br>Name: West Contracting<br>Easting: 384378<br>Northing: 397733                                           | Annual Volume (m <sup>3</sup> ): 139128<br>Max Daily Volume (m <sup>3</sup> ): 1010<br>Original Application No: -<br>Original Start Date: 19/01/2009<br>Expiry Date: 31/03/2015<br>Issue No: 1<br>Version Start Date: 19/01/2009<br>Version End Date: - |
| -  | 1404m SW | Status: Historical<br>Licence No: 2569007089<br>Details: Non-Evaporative Cooling<br>Direct Source: Ground Water - North West Region<br>Point: 2 BOREHOLES AT GARTSIDE STREET<br>MANCHESTER<br>Data Type: Line<br>Name: HER MAJESTY'S COURT SERVICE<br>Easting: 383335<br>Northing: 398310                                         | Annual Volume (m <sup>3</sup> ): 200000<br>Max Daily Volume (m <sup>3</sup> ): 1179<br>Original Application No: -<br>Original Start Date: 26/01/2005<br>Expiry Date: 31/03/2011<br>Issue No: 2<br>Version Start Date: 10/07/2008<br>Version End Date: - |
| -  | 1604m SE | Status: Historical<br>Licence No: 2569006001<br>Details: General Cooling (Existing Licences Only) (Low<br>Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT PREMISES, BROADIE ST,<br>ARDWICK, MANCHESTER"<br>Data Type: Point<br>Name: MOSELEY RUBBER CO LTD<br>Easting: 385240<br>Northing: 397540 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 08/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 08/02/1966<br>Version End Date: -                |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1604m SE | Status: Historical<br>Licence No: 2569006001<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, BROADIE ST, ARDWICK, MANCHESTER<br>Data Type: Point<br>Name: MOSELEY RUBBER CO LTD<br>Easting: 385240<br>Northing: 397540 | Annual Volume (m <sup>3</sup> ): 331858<br>Max Daily Volume (m <sup>3</sup> ): 909.2<br>Original Application No: -<br>Original Start Date: 08/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 08/02/1966<br>Version End Date: -                   |
| -  | 1679m SW | Status: Historical<br>Licence No: NW/069/0004/019<br>Details: Transfer Between Sources (Post Water Act 2003)<br>Direct Source: Ground Water - North West Region<br>Point: ST JOHNS MANCHESTER<br>Data Type: Poly4<br>Name: Manchester Quays Development (MGY) Ltd<br>Easting: 383094<br>Northing: 398099                  | Annual Volume (m <sup>3</sup> ): 543120<br>Max Daily Volume (m <sup>3</sup> ): 1488<br>Original Application No: -<br>Original Start Date: 13/09/2019<br>Expiry Date: 31/12/2020<br>Issue No: 1<br>Version Start Date: 13/09/2019<br>Version End Date: -             |
| -  | 1796m SW | Status: Active<br>Licence No: NW/069/0004/021<br>Details: Heat Pump<br>Direct Source: Ground Water - North West Region<br>Point: CHESTER FORMATION AT SCIENCE MUSEUM (A)<br>Data Type: Point<br>Name: Science Museum Group<br>Easting: 383198<br>Northing: 397829                                                         | Annual Volume (m <sup>3</sup> ): 346000<br>Max Daily Volume (m <sup>3</sup> ): 1728<br>Original Application No: NPS/WR/035329<br>Original Start Date: 31/03/2023<br>Expiry Date: 31/03/2024<br>Issue No: 1<br>Version Start Date: 31/03/2023<br>Version End Date: - |
| -  | 1828m SW | Status: Active<br>Licence No: NW/069/0004/021<br>Details: Heat Pump<br>Direct Source: Ground Water - North West Region<br>Point: CHESTER FORMATION AT SCIENCE MUSEUM (B)<br>Data Type: Point<br>Name: Science Museum Group<br>Easting: 383143<br>Northing: 397845                                                         | Annual Volume (m <sup>3</sup> ): 346000<br>Max Daily Volume (m <sup>3</sup> ): 1728<br>Original Application No: NPS/WR/035329<br>Original Start Date: 31/03/2023<br>Expiry Date: 31/03/2024<br>Issue No: 1<br>Version Start Date: 31/03/2023<br>Version End Date: - |

| ID | Location | Details                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                     |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1943m S  | Status: Active<br>Licence No: NW/069/0006/003<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE 1 AT LOWER CHATHAM STREET<br>Data Type: Point<br>Name: Manchester Metropolitan University<br>Easting: 384180<br>Northing: 397091 | Annual Volume (m <sup>3</sup> ): 283240<br>Max Daily Volume (m <sup>3</sup> ): 1532<br>Original Application No: NPS/WR/015264<br>Original Start Date: 04/04/2014<br>Expiry Date: 31/03/2027<br>Issue No: 2<br>Version Start Date: 04/04/2014<br>Version End Date: - |
| -  | 1943m S  | Status: Active<br>Licence No: NW/069/0006/003<br>Details: Heat Pump<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE 1 AT LOWER CHATHAM STREET<br>Data Type: Point<br>Name: Manchester Metropolitan University<br>Easting: 384180<br>Northing: 397091                                                | Annual Volume (m <sup>3</sup> ): 283240<br>Max Daily Volume (m <sup>3</sup> ): 1532<br>Original Application No: NPS/WR/015264<br>Original Start Date: 04/04/2014<br>Expiry Date: 31/03/2027<br>Issue No: 2<br>Version Start Date: 04/04/2014<br>Version End Date: - |

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

## 5.7 Surface water abstractions

### Records within 2000m

0

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.

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

## 5.8 Potable abstractions

### Records within 2000m

10

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

Features are displayed on the Abstractions and Source Protection Zones map on [page 85](#) >



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                  |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services"<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: -         |
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 1) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -         |
| -  | 736m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 1 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383850<br>Northing: 399250     | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services"<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: -         |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                  |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 3) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -         |
| -  | 746m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 3 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383830<br>Northing: 399220     | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services"<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER"<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 09/08/2000<br>Version End Date: -         |
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE (NO 2) AT PREMISES, STRANGWAYS, MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: -         |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                  |
|----|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 749m W   | Status: Historical<br>Licence No: 2569004023<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE NUMBER 2 AT PREMISES STRANGWAYS MANCHESTER<br>Data Type: Point<br>Name: INTERBREW UK LTD<br>Easting: 383820<br>Northing: 399190            | Annual Volume (m <sup>3</sup> ): 500000<br>Max Daily Volume (m <sup>3</sup> ): 2500<br>Original Application No: -<br>Original Start Date: 18/02/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 01/01/2004<br>Version End Date: - |
| -  | 1017m NW | Status: Historical<br>Licence No: 2569004021<br>Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, DERBY STREET, CHEETHAM, MANCHESTER<br>Data Type: Point<br>Name: LANCASHIRE DAIRIES LTD<br>Easting: 383900<br>Northing: 399800 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 17/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/1993<br>Version End Date: -         |

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

## 5.9 Source Protection Zones

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

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

## 6 Hydrology



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

### 6.1 Water Network (OS MasterMap)

Records within 250m

0

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

*This data is sourced from the Ordnance Survey.*

### 6.2 Surface water features

Records within 250m

0

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

### Records on site

1

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

Features are displayed on the Hydrology map on [page 100 >](#)

| ID | Location | Type  | Water body catchment  | Water body ID  | Operational catchment | Management catchment |
|----|----------|-------|-----------------------|----------------|-----------------------|----------------------|
| 1  | On site  | River | Irk (Wince to Irwell) | GB112069061131 | Roch Irk Medlock      | Irwell               |

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

## 6.4 WFD Surface water bodies

### Records identified

1

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

Features are displayed on the Hydrology map on [page 100 >](#)

| ID | Location | Type  | Name                  | Water body ID                    | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|-----------------------|----------------------------------|----------------|-----------------|-------------------|------|
| 6  | 323m NW  | River | Irk (Wince to Irwell) | <a href="#">GB112069061131 ↗</a> | Moderate       | Fail            | Moderate          | 2019 |

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

## 6.5 WFD Groundwater bodies

### Records on site

1

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



Features are displayed on the Hydrology map on [page 100](#) >

| ID | Location | Name                                                                    | Water body ID                    | Overall rating | Chemical rating | Quantitative | Year |
|----|----------|-------------------------------------------------------------------------|----------------------------------|----------------|-----------------|--------------|------|
| 2  | On site  | Manchester and<br>East Cheshire<br>Permo-Triassic<br>Sandstone Aquifers | <a href="#">GB41201G101100</a> ↗ | Poor           | Poor            | Poor         | 2019 |

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



## 7 River and coastal flooding

### 7.1 Risk of flooding from rivers and the sea

**Records within 50m****0**

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

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

### 7.2 Historical Flood Events

**Records within 250m****0**

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

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

### 7.3 Flood Defences

**Records within 250m****0**

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

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



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

## 7.5 Flood Storage Areas

Records within 250m

0

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

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



## River and coastal flooding - Flood Zones

### 7.6 Flood Zone 2

|                    |   |
|--------------------|---|
| Records within 50m | 0 |
|--------------------|---|

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

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

### 7.7 Flood Zone 3

|                    |   |
|--------------------|---|
| Records within 50m | 0 |
|--------------------|---|

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

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



## 8 Surface water flooding

### 8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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

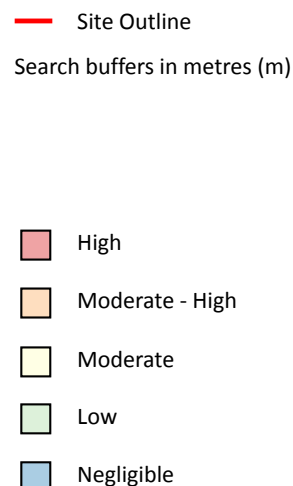
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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

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

*This data is sourced from Ambiental Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Low**

**Highest risk within 50m**

**Low**

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

Features are displayed on the Groundwater flooding map on [page 107](#) >

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations

### 10.1 Sites of Special Scientific Interest (SSSI)

**Records within 2000m****0**

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

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

### 10.2 Conserved wetland sites (Ramsar sites)

**Records within 2000m****0**

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

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

### 10.3 Special Areas of Conservation (SAC)

**Records within 2000m****0**

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

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

### 10.4 Special Protection Areas (SPA)

**Records within 2000m****0**

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

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



## 10.5 National Nature Reserves (NNR)

**Records within 2000m****0**

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

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

## 10.6 Local Nature Reserves (LNR)

**Records within 2000m****0**

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

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

## 10.7 Designated Ancient Woodland

**Records within 2000m****0**

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

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

## 10.8 Biosphere Reserves

**Records within 2000m****0**

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

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

## 10.9 Forest Parks

**Records within 2000m****0**

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

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

**Records within 2000m****0**

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

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

## 10.11 Green Belt

**Records within 2000m****0**

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

*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****4**

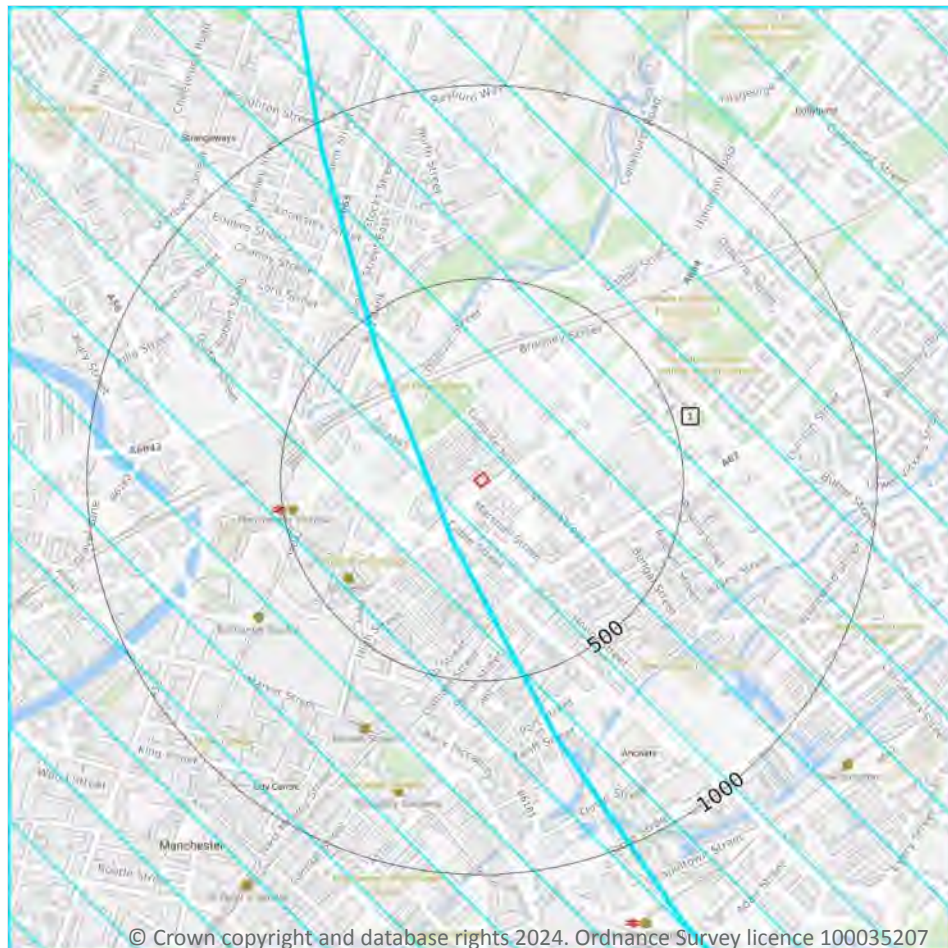
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

| Location       | Name                                                   | Type                 | NVZ ID     | Status          |
|----------------|--------------------------------------------------------|----------------------|------------|-----------------|
| <b>On site</b> | <b>River Irk (Moston Brook to River Irwell) NVZ</b>    | <b>Surface Water</b> | <b>638</b> | <b>Existing</b> |
| 457m W         | River Irk (Moston Brook to River Irwell) NVZ           | Surface Water        | 638        | Existing        |
| 649m W         | Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ | Surface Water        | 643        | Existing        |
| 736m NW        | Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ | Surface Water        | 643        | 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 112](#) >

| ID | Location | Type of developments requiring consultation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <p>Infrastructure - Airports, helipads and other aviation proposals.</p> <p>Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t).</p> <p>Combustion - General combustion processes &gt;50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</p> |

*This data is sourced from Natural England.*

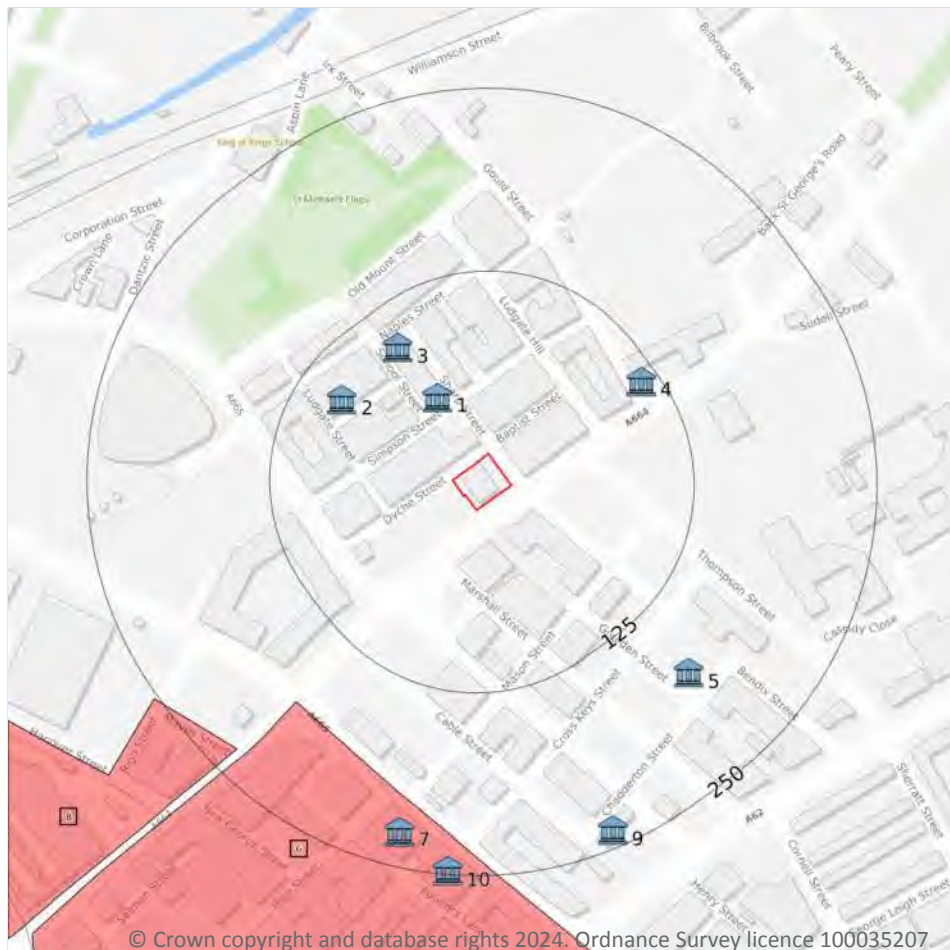
## 10.18 SSSI Units

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

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

8

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 114 >](#)

| ID | Location | Name                                                     | Grade | Reference Number | Listed date |
|----|----------|----------------------------------------------------------|-------|------------------|-------------|
| 1  | 52m NW   | Warehouse On West Corner Of Junction With Simpson Street | II    | 1270681          | 06/06/1994  |
| 2  | 94m NW   | Cooperative Press                                        | II    | 1291013          | 06/06/1994  |
| 3  | 95m NW   | Sharp Street Ragged School                               | II    | 1254650          | 06/06/1994  |
| 4  | 114m NE  | Marble Arch Inn                                          | II    | 1247604          | 20/06/1988  |
| 5  | 177m SE  | Former Police And Ambulance Station                      | II    | 1292052          | 20/01/1992  |
| 7  | 226m S   | Smithfield Market Hall                                   | II    | 1254687          | 08/10/1973  |

| ID | Location | Name            | Grade | Reference Number | Listed date |
|----|----------|-----------------|-------|------------------|-------------|
| 9  | 238m S   | 8, Cable Street | II    | 1208255          | 06/06/1994  |
| 10 | 248m S   | 29, Swan Street | II    | 1270667          | 15/03/1989  |

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

## 11.5 Conservation Areas

### Records within 250m

2

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

Features are displayed on the Visual and cultural designations map on [page 114 >](#)

| ID | Location | Name       | District   | Date of designation |
|----|----------|------------|------------|---------------------|
| 6  | 180m SW  | Smithfield | Manchester | 01/02/1987          |
| 8  | 231m SW  | Shudehill  | Manchester | 01/02/1987          |

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

## 11.6 Scheduled Ancient Monuments

### Records within 250m

0

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

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

## 11.7 Registered Parks and Gardens

### Records within 250m

0

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

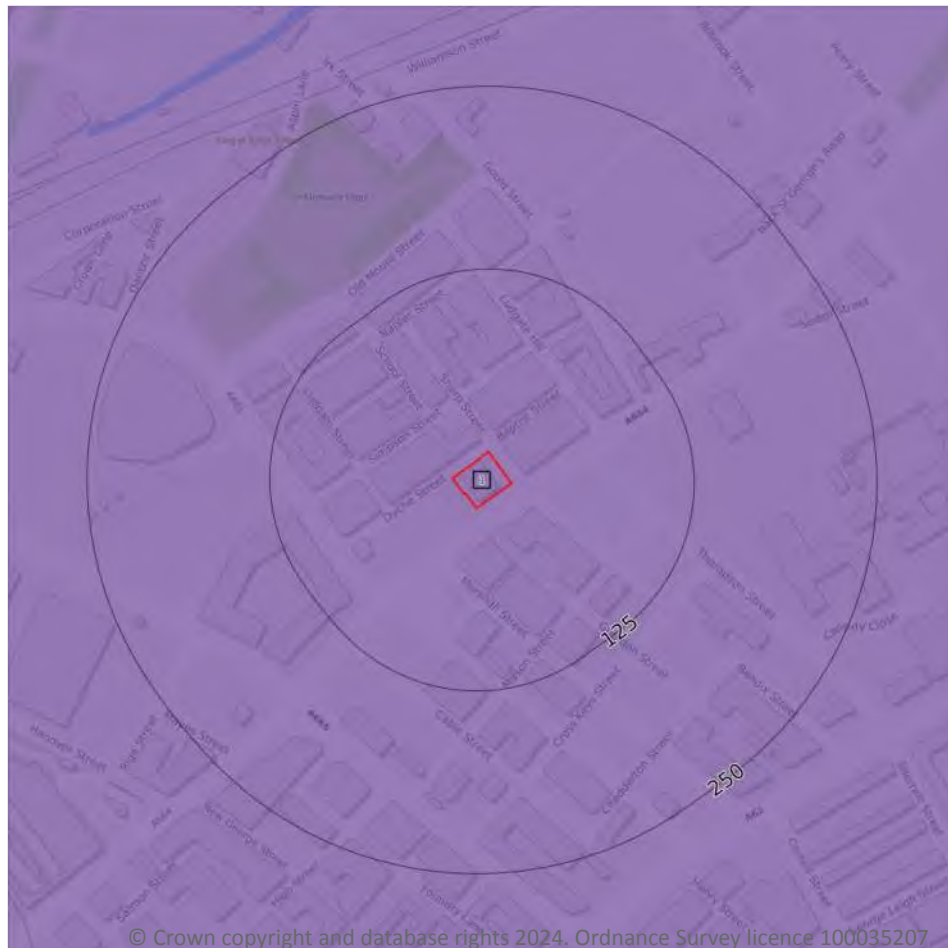


proposed development on the special character of the landscape.

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



## 12 Agricultural designations



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

### 12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 118](#) >

| ID | Location | Classification | Description |
|----|----------|----------------|-------------|
| 1  | On site  | Urban          | -           |

This data is sourced from Natural England.



## 12.2 Open Access Land

**Records within 250m****0**

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

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

## 12.3 Tree Felling Licences

**Records within 250m****0**

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

**Records within 250m****0**

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

*This data is sourced from Natural England.*

## 12.5 Countryside Stewardship Schemes

**Records within 250m****0**

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

*This data is sourced from Natural England.*



## 13 Habitat designations

### 13.1 Priority Habitat Inventory

**Records within 250m****0**

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

*This data is sourced from Natural England.*

### 13.2 Habitat Networks

**Records within 250m****0**

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

*This data is sourced from Natural England.*

### 13.3 Open Mosaic Habitat

**Records within 250m****0**

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

*This data is sourced from Natural England.*

### 13.4 Limestone Pavement Orders

**Records within 250m****0**

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

*This data is sourced from Natural England.*



## 14 Geology 1:10,000 scale - Availability



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

### 14.1 10k Availability

#### Records within 500m

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.

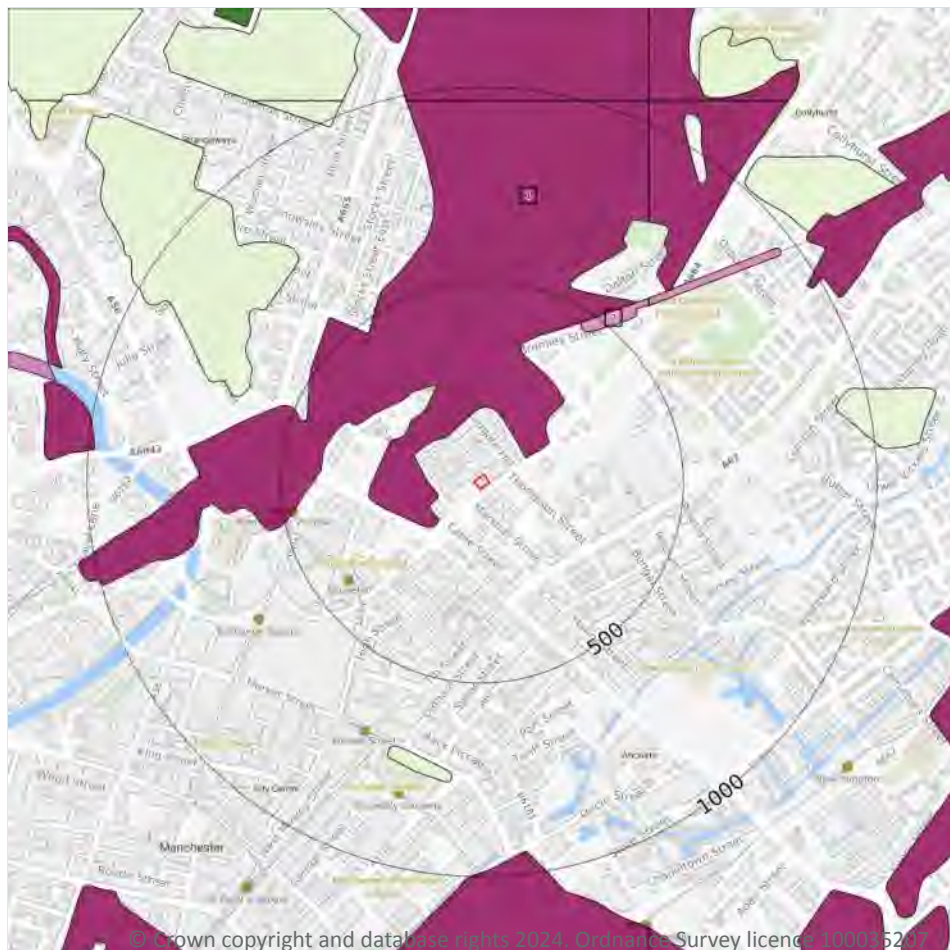
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 121](#) >

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------|
| 1  | On site  | Full       | Full        | Full    | No coverage   | SJ89NW    |
| 2  | 411m E   | Full       | Full        | Full    | Full          | SJ89NE    |

*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

2

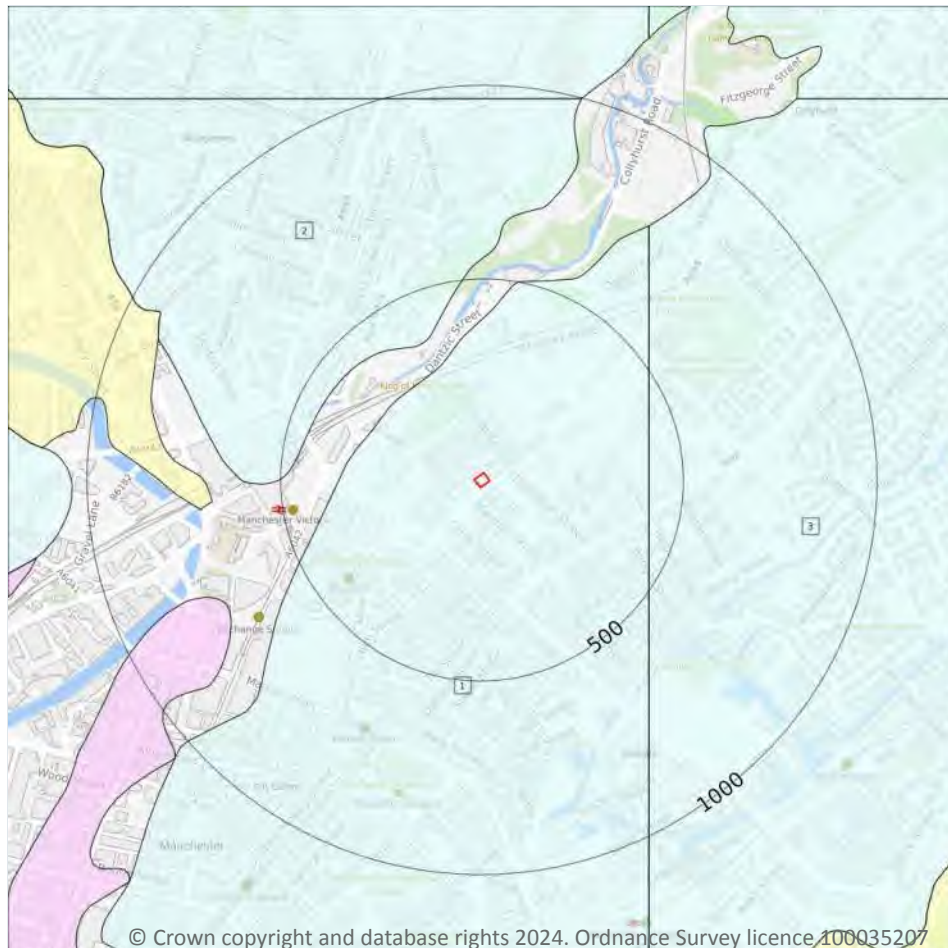
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 122 >](#)

| ID | Location | LEX Code  | Description               | Rock description   |
|----|----------|-----------|---------------------------|--------------------|
| 1  | 100m W   | MGR-ARTDP | Made Ground (Undivided)   | Artificial Deposit |
| 2  | 453m NE  | WGR-VOID  | Worked Ground (Undivided) | Void               |

*This data is sourced from the British Geological Survey.*

## Geology 1:10,000 scale - Superficial



**Site Outline**

Search buffers in metres (m)

**Landslip (10k)**

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

### 14.3 Superficial geology (10k)

#### Records within 500m

3

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 123](#) >

| ID | Location | LEX Code   | Description                 | Rock description |
|----|----------|------------|-----------------------------|------------------|
| 1  | On site  | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton        |
| 2  | 369m NW  | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton        |
| 3  | 411m E   | TILLD-DMTN | Till, Devensian - Diamicton | Diamicton        |



*This data is sourced from the British Geological Survey.*

## 14.4 Landslip (10k)

Records within 500m

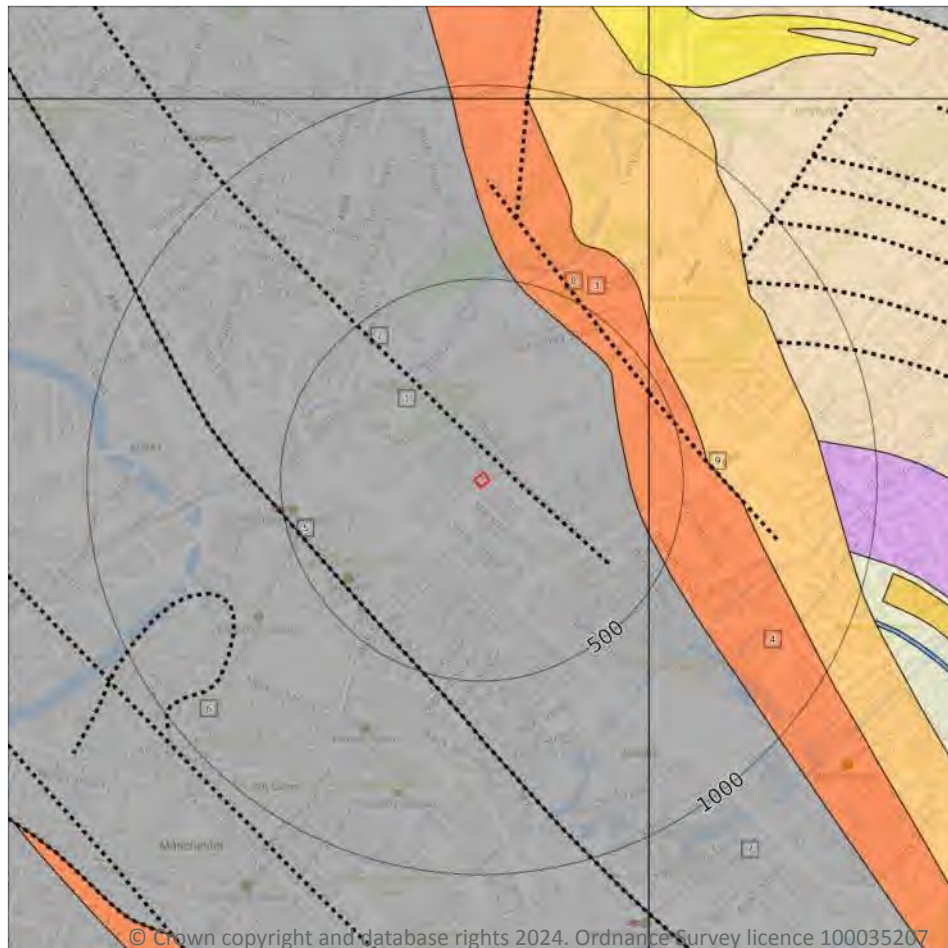
0

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

5

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 125 >](#)

| ID | Location | LEX Code | Description                               | Rock age                           |
|----|----------|----------|-------------------------------------------|------------------------------------|
| 1  | On site  | CPB-SDST | Chester Pebble Beds Formation - Sandstone | Early Triassic Epoch               |
| 3  | 354m E   | MM-MDST  | Manchester Marls Formation - Mudstone     | Late Permian Epoch [Obsolete name] |
| 4  | 411m E   | MM-MDST  | Manchester Marls Formation - Mudstone     | Late Permian Epoch [Obsolete name] |

| ID | Location | LEX Code | Description                               | Rock age             |
|----|----------|----------|-------------------------------------------|----------------------|
| 6  | 430m SW  | CPB-SDST | Chester Pebble Beds Formation - Sandstone | Early Triassic Epoch |
| 7  | 434m E   | CPB-SDST | Chester Pebble Beds Formation - Sandstone | Early Triassic Epoch |

*This data is sourced from the British Geological Survey.*

## 14.6 Bedrock faults and other linear features (10k)

### Records within 500m

**4**

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 125 >](#)

| ID | Location | Category | Description                                          |
|----|----------|----------|------------------------------------------------------|
| 2  | 44m NE   | FAULT    | Normal fault, inferred; crossmarks on downthrow side |
| 5  | 430m SW  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |
| 8  | 465m NE  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |
| 9  | 470m NE  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |

*This data is sourced from the British Geological Survey.*



## 15 Geology 1:50,000 scale - Availability



— Site Outline

Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

#### Records within 500m

1

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

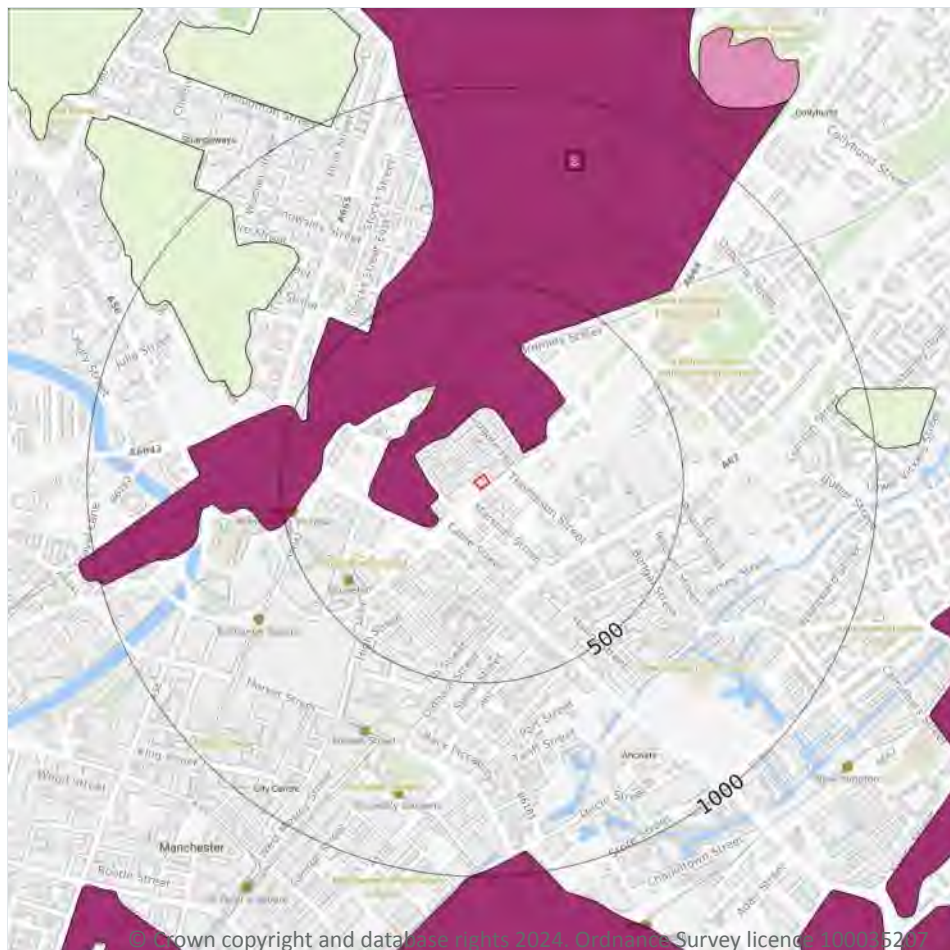
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 127](#) >

| 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 128 >](#)

| ID | Location | LEX Code  | Description             | Rock description   |
|----|----------|-----------|-------------------------|--------------------|
| 1  | 100m W   | 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

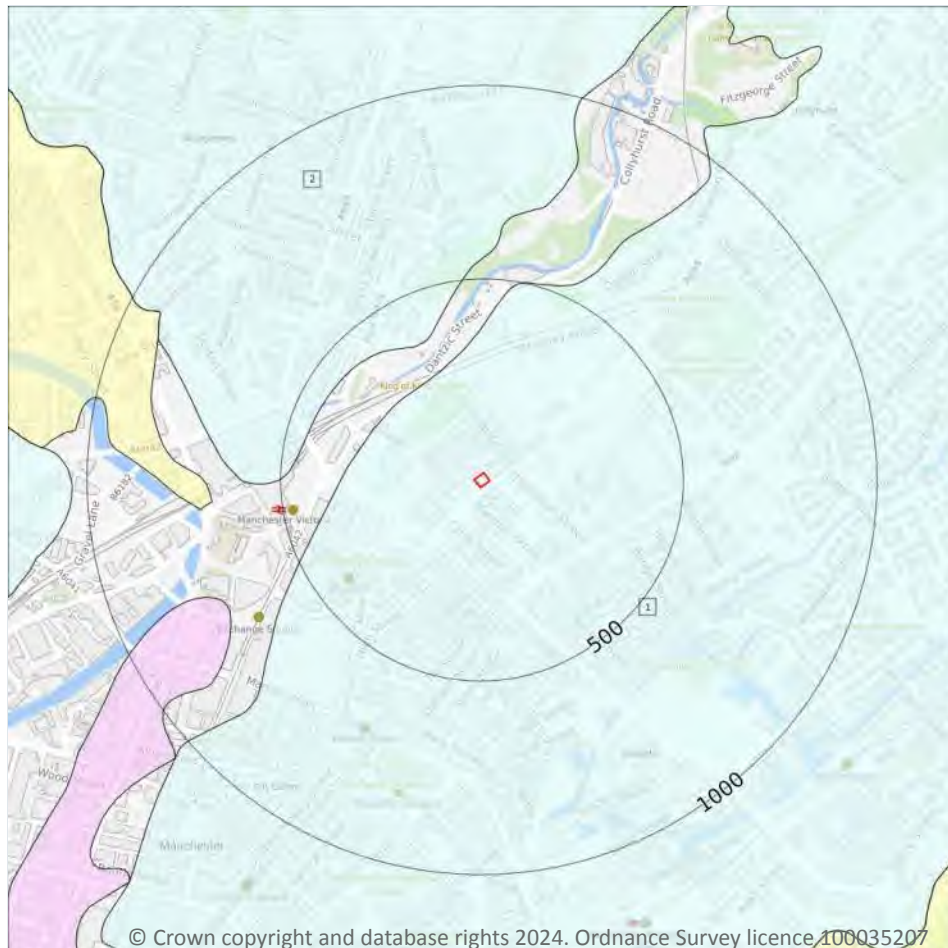
0

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

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Superficial



— Site Outline  
Search buffers in metres (m)  
  
 Landslip (50k)  
 Superficial geology (50k)  
 Please see table for more details.

### 15.4 Superficial geology (50k)

#### Records within 500m

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 130](#) >

| ID | Location | LEX Code   | Description     | Rock description |
|----|----------|------------|-----------------|------------------|
| 1  | On site  | TILLD-DMTN | TILL, DEVANSIAN | DIAMICTON        |
| 2  | 369m NW  | TILLD-DMTN | TILL, DEVANSIAN | DIAMICTON        |

This data is sourced from the British Geological Survey.



## 15.5 Superficial permeability (50k)

**Records within 50m****1**

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

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Mixed     | High                 | Low                  |

*This data is sourced from the British Geological Survey.*

## 15.6 Landslip (50k)

**Records within 500m****0**

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

*This data is sourced from the British Geological Survey.*

## 15.7 Landslip permeability (50k)

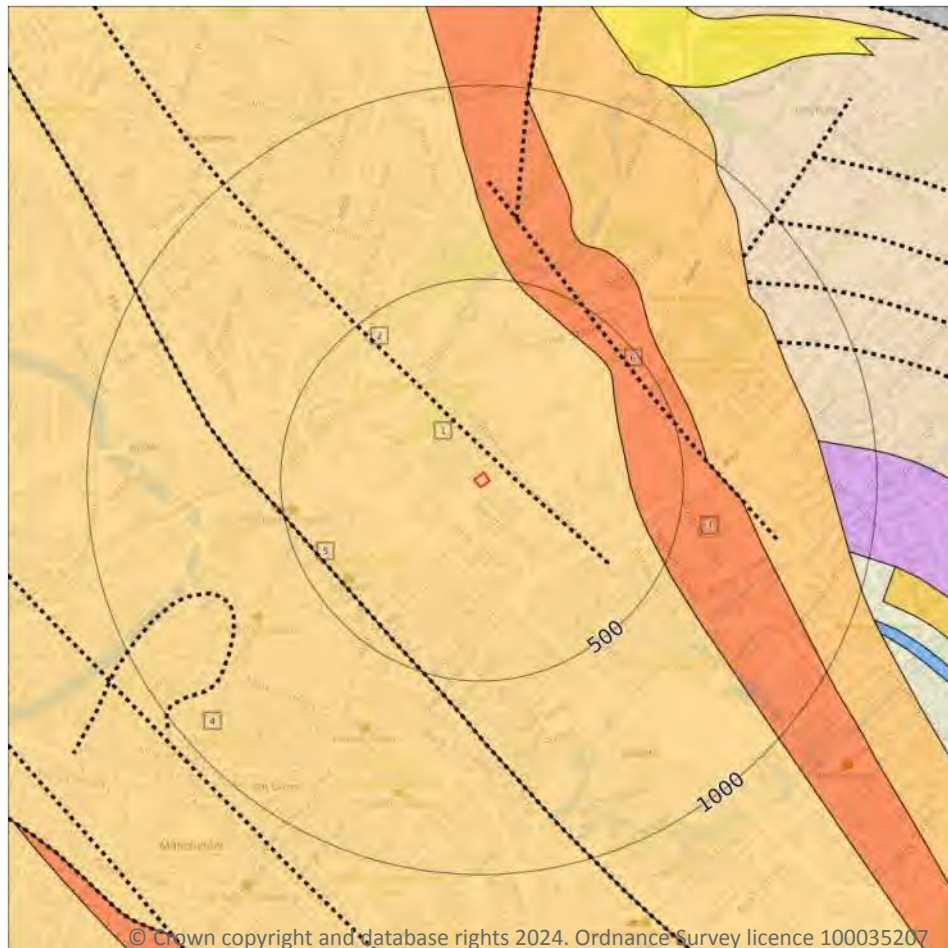
**Records within 50m****0**

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

*This data is sourced from the British Geological Survey.*



## Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

### 15.8 Bedrock geology (50k)

Records within 500m

3

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 132](#) >

| ID | Location | LEX Code  | Description                           | Rock age  |
|----|----------|-----------|---------------------------------------|-----------|
| 1  | On site  | CHES-SDST | CHESTER FORMATION - SANDSTONE         | OLENEKIAN |
| 3  | 354m E   | MM-MDST   | MANCHESTER MARLS FORMATION - MUDSTONE | -         |
| 4  | 430m SW  | CHES-SDST | CHESTER FORMATION - SANDSTONE         | OLENEKIAN |

*This data is sourced from the British Geological Survey.*



## 15.9 Bedrock permeability (50k)

### Records within 50m

**1**

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

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Mixed     | High                 | Moderate             |

*This data is sourced from the British Geological Survey.*

## 15.10 Bedrock faults and other linear features (50k)

### Records within 500m

**3**

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.

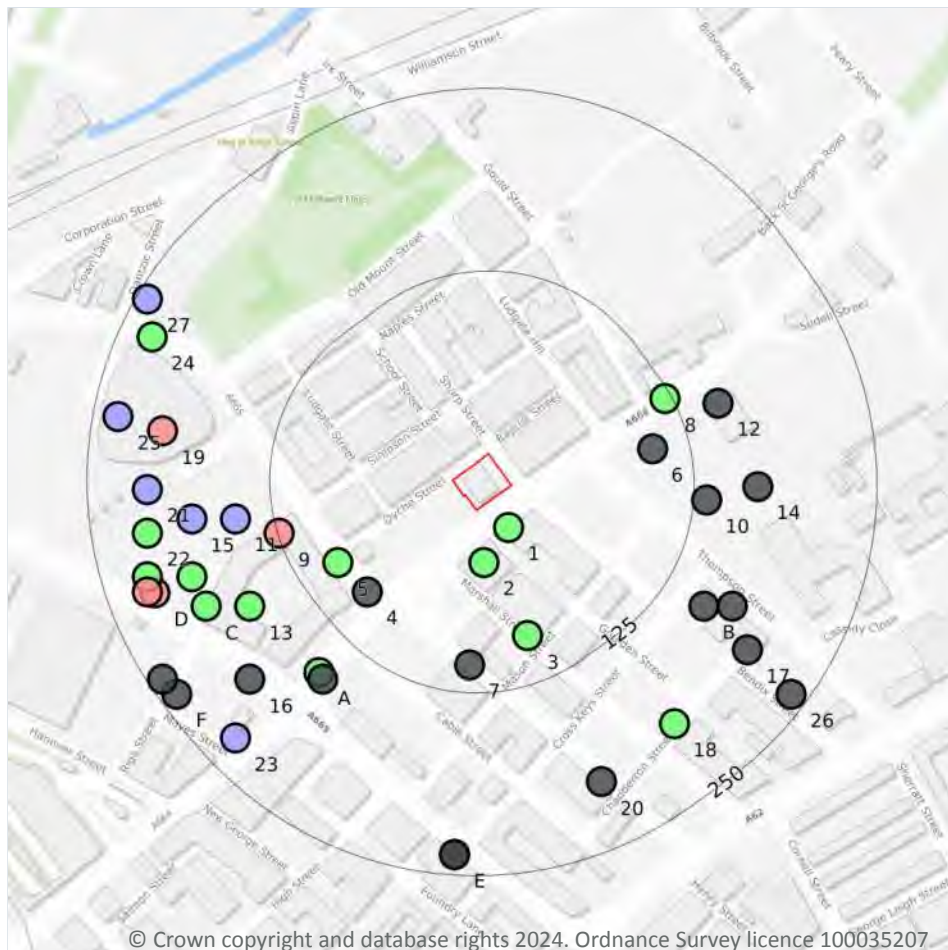
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 132](#) >

| ID | Location | Category | Description     |
|----|----------|----------|-----------------|
| 2  | 44m NE   | FAULT    | Fault, inferred |
| 5  | 430m SW  | FAULT    | Fault, inferred |
| 6  | 465m NE  | FAULT    | Fault, inferred |

*This data is sourced from the British Geological Survey.*



## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

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

### 16.1 BGS Boreholes

Records within 250m

40

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 134](#) >

| ID | Location | Grid reference | Name                                               | Length | Confidential | Web link                     |
|----|----------|----------------|----------------------------------------------------|--------|--------------|------------------------------|
| 1  | 22m SE   | 384587 398984  | MANCHESTER CORP. NEWTOWN                           | 23.16  | N            | <a href="#">1042169</a><br>↗ |
| 2  | 36m S    | 384570 398960  | INNER RING ROAD SECTION 2 PHASE 1<br>MANCHESTER 20 | 11.12  | N            | <a href="#">1043548</a><br>↗ |



| ID | Location | Grid reference | Name                                               | Length | Confidential | Web link                     |
|----|----------|----------------|----------------------------------------------------|--------|--------------|------------------------------|
| 3  | 93m S    | 384600 398910  | INNER RING ROAD SECTION 2 PHASE 1<br>MANCHESTER 19 | 11.12  | N            | <a href="#">1043547</a><br>↗ |
| 4  | 93m SW   | 384490 398940  | ADDINGTON STREET IMPROVEMENT 2                     | -      | Y            | N/A                          |
| 5  | 97m SW   | 384470 398960  | INNER RING ROAD SECTION 2 PHASE 1<br>MANCHESTER 21 | 25.55  | N            | <a href="#">1043549</a><br>↗ |
| 6  | 100m E   | 384685 399038  | THOMPSON ST MANCHESTER 1                           | -      | Y            | N/A                          |
| 7  | 106m S   | 384560 398890  | ADDINGTON STREET IMPROVEMENT 3                     | -      | Y            | N/A                          |
| 8  | 121m NE  | 384694 399072  | MANCHESTER CORP. ROCHDALE ROAD SEWER               | 21.95  | N            | <a href="#">1042168</a><br>↗ |
| 9  | 124m W   | 384430 398980  | IRO SCHEDULE CENTRE M                              | 30.5   | N            | <a href="#">1045847</a><br>↗ |
| 10 | 134m E   | 384722 399003  | THOMPSON ST MANCHESTER 3                           | -      | Y            | N/A                          |
| 11 | 151m W   | 384400 398990  | IRO SCHEDULE CENTRE L                              | 8.68   | N            | <a href="#">1045846</a><br>↗ |
| 12 | 152m E   | 384730 399069  | THOMPSON ST MANCHESTER 2                           | -      | Y            | N/A                          |
| A  | 155m SW  | 384457 398885  | MANCHESTER CORP. ROCHDALE ROAD SEWER               | 25.91  | N            | <a href="#">1042170</a><br>↗ |
| B  | 155m SE  | 384720 398930  | THOMPSON STREET MANCHESTER BH1                     | -      | Y            | N/A                          |
| A  | 156m SW  | 384460 398880  | ADDINGTON STREET IMPROVEMENT 1                     | -      | Y            | N/A                          |
| 13 | 163m SW  | 384410 398930  | IRO SCHEDULE CENTRE A                              | 29.26  | N            | <a href="#">1045838</a><br>↗ |
| 14 | 168m E   | 384757 399012  | THOMPSON ST MANCHESTER 4                           | -      | Y            | N/A                          |
| B  | 172m SE  | 384740 398930  | THOMPSON STREET MANCHESTER BH2                     | -      | Y            | N/A                          |
| 15 | 180m W   | 384370 398990  | IRO SCHEDULE CENTRE H                              | 6.09   | N            | <a href="#">1045844</a><br>↗ |
| C  | 189m SW  | 384380 398930  | IRO SCHEDULE CENTRE B                              | 13.56  | N            | <a href="#">1045839</a><br>↗ |
| C  | 190m W   | 384370 398950  | IRO SCHEDULE CENTRE E                              | 14.02  | N            | <a href="#">1045841</a><br>↗ |
| 16 | 193m SW  | 384410 398880  | MILLER STREET 3                                    | -      | Y            | N/A                          |
| 17 | 197m SE  | 384750 398900  | THOMPSON STREET MANCHESTER BH3                     | -      | Y            | N/A                          |
| 18 | 197m SE  | 384700 398850  | INNER RING ROAD SECTION 2 PHASE 1<br>MANCHESTER 18 | 12.03  | N            | <a href="#">1043546</a><br>↗ |

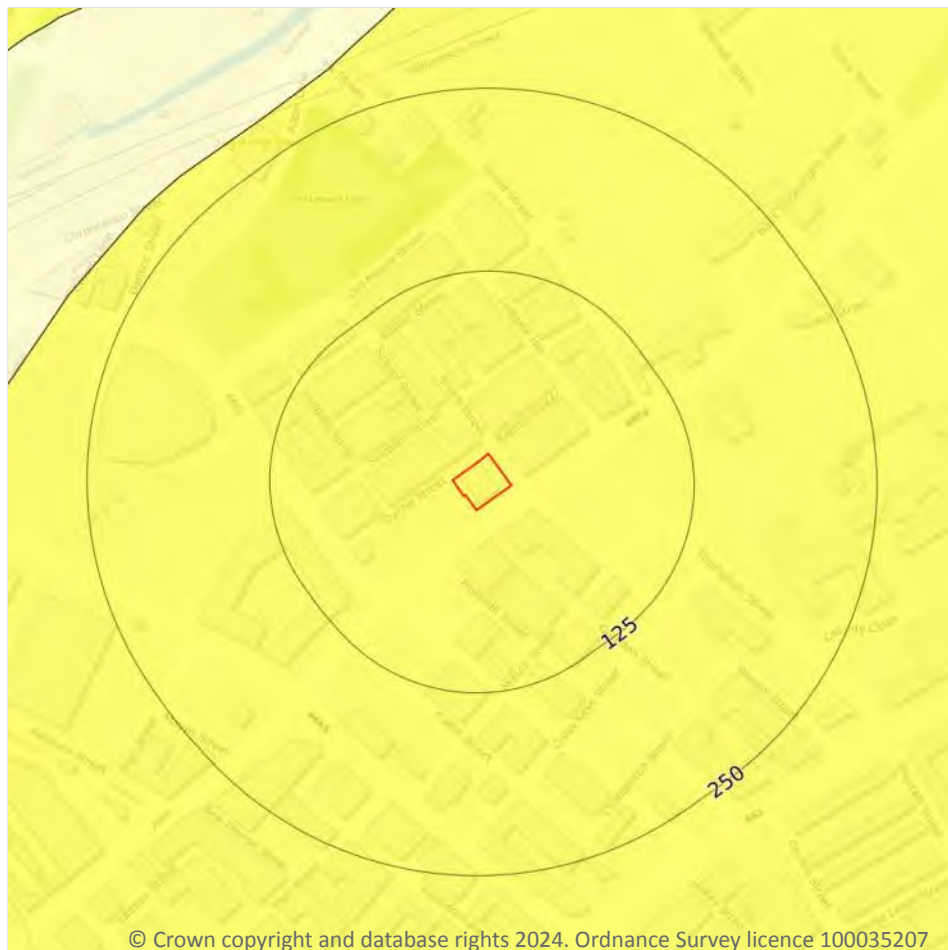


| ID | Location | Grid reference | Name                                                  | Length | Confidential | Web link                     |
|----|----------|----------------|-------------------------------------------------------|--------|--------------|------------------------------|
| 19 | 201m W   | 384350 399050  | IRO SCHEDULE CENTRE O                                 | 30.94  | N            | <a href="#">1045849</a><br>↗ |
| 20 | 204m S   | 384650 398810  | ADDINGTON STREET IMPROVEMENT 4                        | -      | Y            | N/A                          |
| 21 | 209m W   | 384340 399010  | IRO SCHEDULE CENTRE K                                 | 6.55   | N            | <a href="#">1045845</a><br>↗ |
| 22 | 212m W   | 384340 398980  | IRO SCHEDULE CENTRE F                                 | 11.73  | N            | <a href="#">1045842</a><br>↗ |
| D  | 218m W   | 384345 398939  | CHADWICK & TAYLOR, OLD MILL PAPER WORKS,<br>MILLER ST | 82.3   | N            | <a href="#">1042347</a><br>↗ |
| D  | 219m W   | 384340 398950  | IRO SCHEDULE CENTRE C                                 | 13.71  | N            | <a href="#">1045840</a><br>↗ |
| D  | 222m W   | 384340 398940  | OLD MILL PAPER WORKS MANCHESTER                       | 155.45 | N            | <a href="#">1045494</a><br>↗ |
| 23 | 227m SW  | 384400 398840  | SHUDE HILL WITHY GROVE SEWER<br>REPLACEMENT 7         | 8.0    | N            | <a href="#">1044201</a><br>↗ |
| 24 | 228m NW  | 384343 399114  | MANCHESTER CORP. VICTORIA STATION                     | 18.9   | N            | <a href="#">1042198</a><br>↗ |
| 25 | 233m W   | 384320 399060  | IRO SCHEDULE CENTRE N                                 | 5.48   | N            | <a href="#">1045848</a><br>↗ |
| E  | 236m S   | 384550 398760  | SWAN STREET 2                                         | -      | Y            | N/A                          |
| E  | 236m S   | 384550 398760  | SWAN STREET 2A                                        | -      | Y            | N/A                          |
| F  | 238m SW  | 384360 398870  | HANOVER STREET / MILLER STREET 2                      | -      | Y            | N/A                          |
| 26 | 239m SE  | 384780 398870  | THOMPSON STREET MANCHESTER BH5                        | -      | Y            | N/A                          |
| F  | 241m SW  | 384350 398880  | HANOVER STREET / MILLER STREET 5                      | -      | Y            | N/A                          |
| 27 | 243m NW  | 384340 399140  | CITY CENTRE - PHASE 2 35                              | 4.11   | N            | <a href="#">1043533</a><br>↗ |

*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).

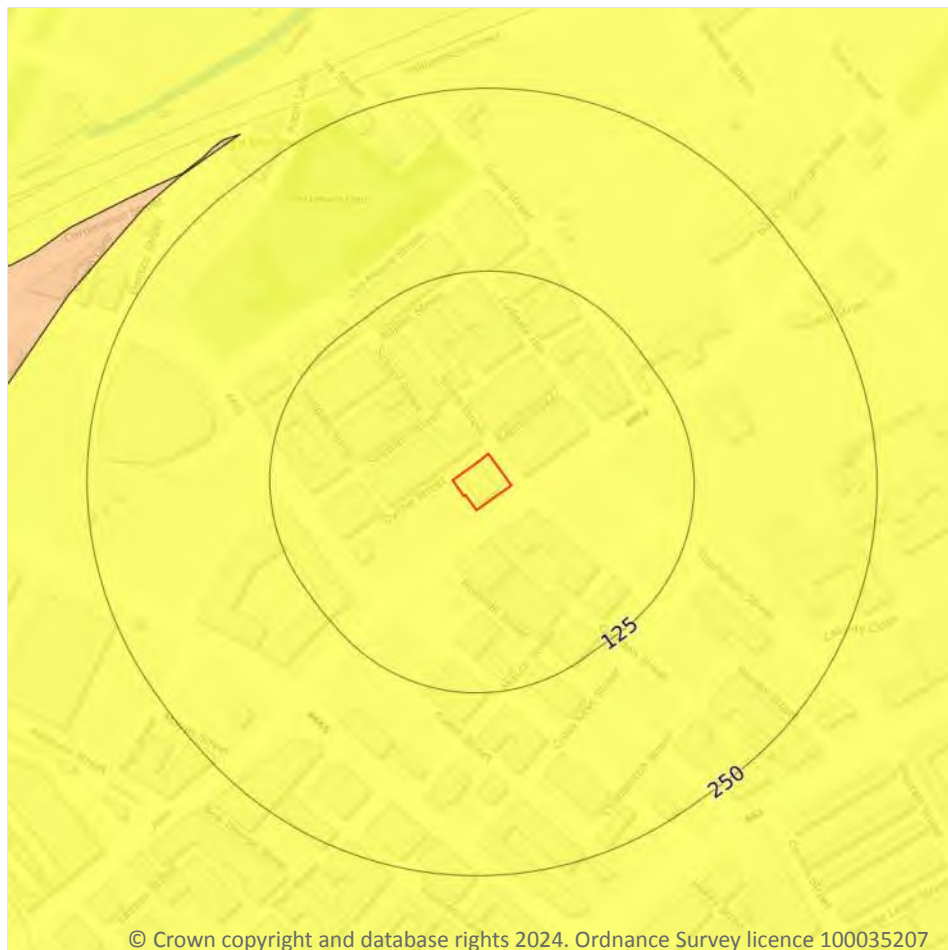
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 137 >](#)

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Running sands



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

### 17.2 Running sands

#### Records within 50m

1

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

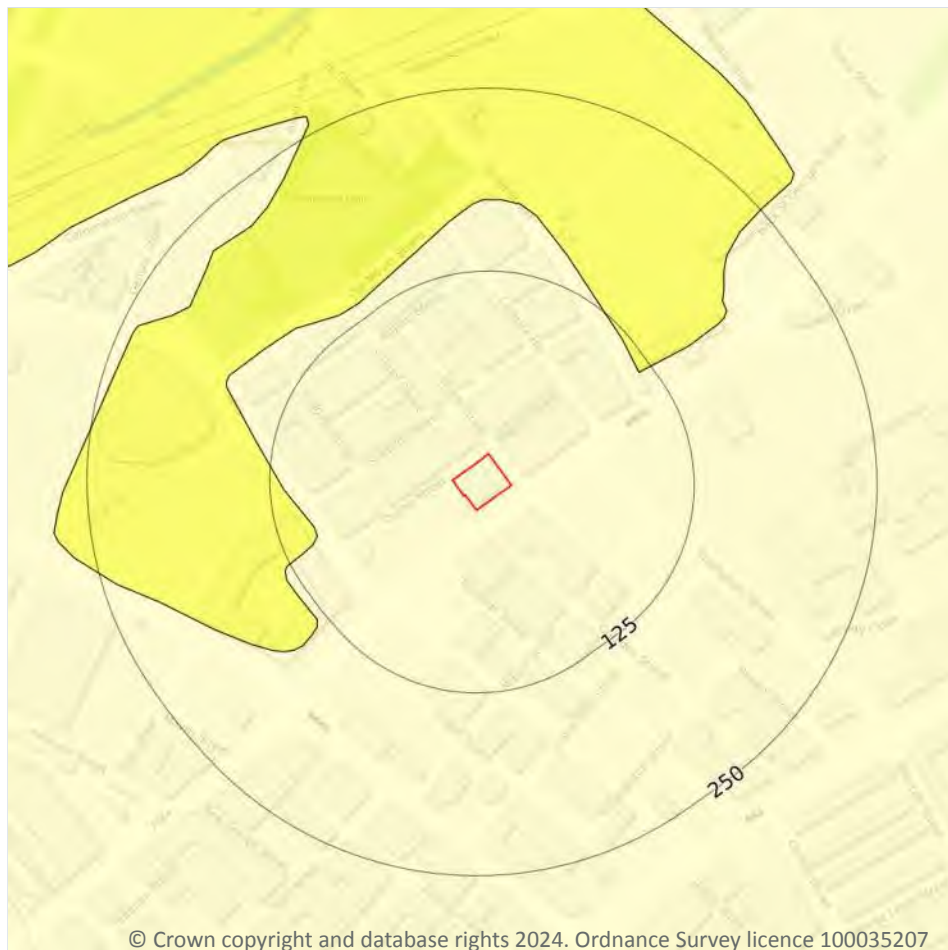
Features are displayed on the Natural ground subsidence - Running sands map on [page 138](#) >

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Compressible deposits



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

### 17.3 Compressible deposits

#### Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 139](#) >

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Collapsible deposits



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

### 17.4 Collapsible deposits

Records within 50m

1

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

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

| 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 141](#) >

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

*This data is sourced from the British Geological Survey.*



## Natural ground subsidence - Ground dissolution of soluble rocks



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

### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 142 >](#)

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



*This data is sourced from the British Geological Survey.*



## 18 Mining and ground workings



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

### 18.1 BritPits

#### Records within 500m

0

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

*This data is sourced from the British Geological Survey.*

## 18.2 Surface ground workings

### Records within 250m

**3**

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

Features are displayed on the Mining and ground workings map on [page 144](#) >

| ID | Location | Land Use           | Year of mapping | Mapping scale |
|----|----------|--------------------|-----------------|---------------|
| 1  | 112m W   | Pond               | 1851            | 1:10560       |
| 2  | 162m NW  | Disused Grave Yard | 1978            | 1:10000       |
| 3  | 178m NW  | Grave Yard         | 1851            | 1:10560       |

*This is data is sourced from Ordnance Survey/Groundsure.*

## 18.3 Underground workings

### Records within 1000m

**10**

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

Features are displayed on the Mining and ground workings map on [page 144](#) >

| ID | Location | Land Use | Year of mapping | Mapping scale |
|----|----------|----------|-----------------|---------------|
| D  | 596m NE  | Tunnel   | 1956            | 1:10560       |
| D  | 596m NE  | Tunnel   | 1978            | 1:10000       |
| D  | 596m NE  | Tunnel   | 1968            | 1:10560       |
| D  | 610m NE  | Tunnel   | 1985            | 1:10000       |
| D  | 610m NE  | Tunnel   | 1991            | 1:10000       |
| D  | 672m NE  | Tunnel   | 1938            | 1:10560       |
| D  | 672m NE  | Tunnel   | 1933            | 1:10560       |
| D  | 672m NE  | Tunnel   | 1921            | 1:10560       |
| D  | 672m NE  | Tunnel   | 1906            | 1:10560       |
| D  | 672m NE  | Tunnel   | 1923            | 1:10560       |

*This is data is sourced from Ordnance Survey/Groundsure.*



## 18.4 Underground mining extents

### Records within 500m

**0**

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

*This data is sourced from Groundsure.*

## 18.5 Historical Mineral Planning Areas

### Records within 500m

**0**

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

*This data is sourced from the British Geological Survey.*

## 18.6 Non-coal mining

### Records within 1000m

**1**

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

Features are displayed on the Mining and ground workings map on [page 144 >](#)

| ID | Location | Name          | Commodity    | Class | Likelihood                                                                                                                                                                                                     |
|----|----------|---------------|--------------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 847m E   | Not available | Vein Mineral | A     | Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered. |

*This data is sourced from the British Geological Survey.*

## 18.7 JPB mining areas

### Records on site

**1**

Areas which could be affected by former coal and other 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. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to <a href="mailto:enquiries.gs@jpb.co.uk">enquiries.gs@jpb.co.uk</a> ↗. |

*This data is sourced from Johnson Poole and Bloomer.*

## 18.8 The Coal Authority non-coal mining

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

*This data is sourced from The Coal Authority.*

## 18.9 Researched mining

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

*This data is sourced from Groundsure.*

## 18.10 Mining record office plans

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>0</b> |
|----------------------------|----------|

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

*This data is sourced from Groundsure.*

## 18.11 BGS mine plans

**Records within 500m****0**

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

*This data is sourced from Groundsure.*

## 18.12 Coal mining

**Records on site****1**

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

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

*This data is sourced from the Coal Authority.*

## 18.13 Brine areas

**Records on site****0**

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

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

## 18.14 Gypsum areas

**Records on site****0**

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.15 Tin mining

**Records on site****0**

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*



## 18.16 Clay mining

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

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

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



## 19 Ground cavities and sinkholes

### 19.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.2 Mining cavities

Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*

### 19.3 Reported recent incidents

Records within 500m

0

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

*This data is sourced from Groundsure.*

### 19.4 Historical incidents

Records within 500m

0

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

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



*This data is sourced from Groundsure.*

## 19.5 National karst database

Records within 500m

0

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

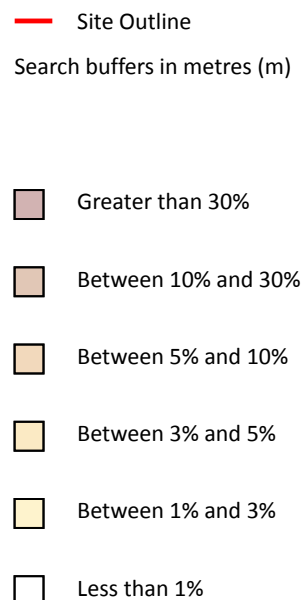
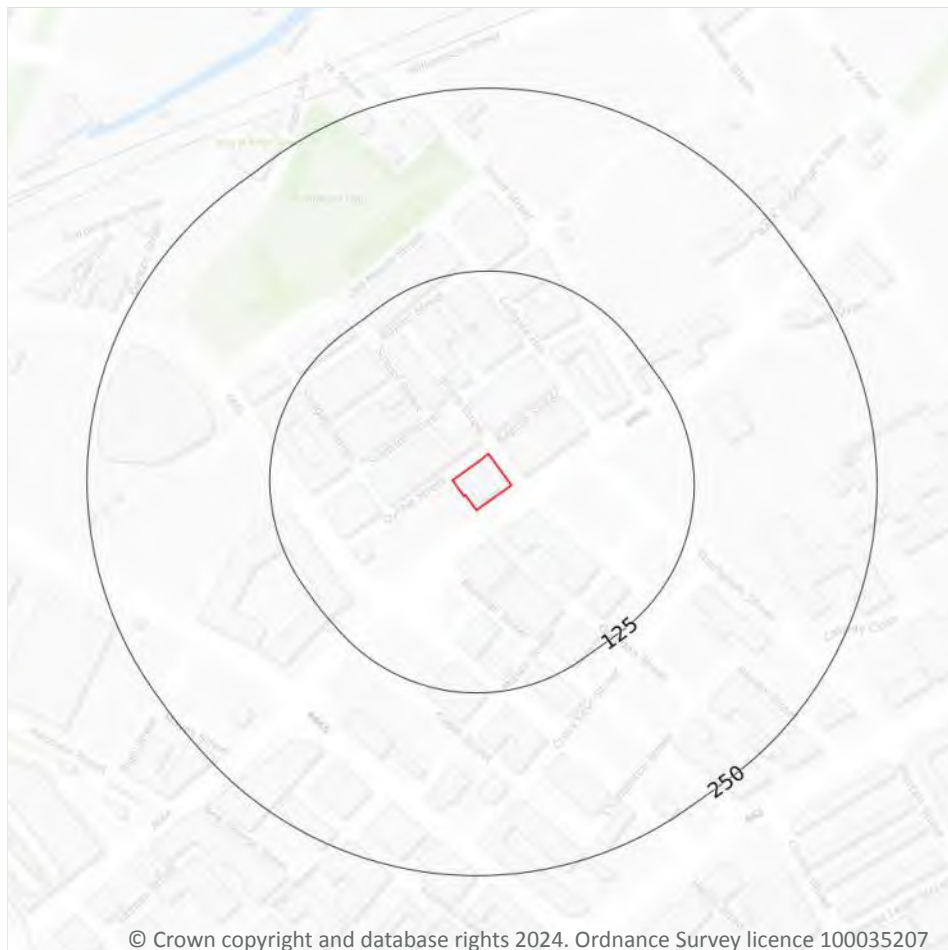
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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

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

*This data is sourced from the British Geological Survey.*



## 20 Radon



### 20.1 Radon

#### Records on site

1

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

Features are displayed on the Radon map on [page 152 >](#)

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



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



## 21 Soil chemistry

### 21.1 BGS Estimated Background Soil Chemistry

Records within 50m

3

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km<sup>2</sup>. 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 km<sup>2</sup>; 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 | 60 - 90 mg/kg | 30 - 45 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 | 30 - 45 mg/kg |
| 49m W    | 15 - 25 mg/kg | No data               | 200 - 300 mg/kg | 120 - 240 mg/kg    | 1.8 mg/kg | 60 - 90 mg/kg | 30 - 45 mg/kg |

*This data is sourced from the British Geological Survey.*

### 21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

5

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 km<sup>2</sup>).

| 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  | 16              | 2.8                           | 59           | 41                         | 0.3             | 58               | 29             | 20             | 7           |
| On site  | 18              | 3.2                           | 63           | 43                         | 0.4             | 61               | 29             | 22             | 8           |
| 11m E    | 18              | 3.2                           | 61           | 42                         | 0.4             | 64               | 29             | 22             | 7           |
| 17m SE   | 16              | 2.8                           | 59           | 41                         | 0.3             | 62               | 29             | 21             | 7           |



| Location | Arsenic<br>(mg/kg) | Bioaccessible<br>Arsenic<br>(mg/kg) | Lead<br>(mg/kg<br>) | Bioaccessible<br>Lead (mg/kg) | Cadmium<br>(mg/kg) | Chromium<br>(mg/kg) | Copper<br>(mg/kg) | Nickel<br>(mg/kg) | Tin<br>(mg/kg) |
|----------|--------------------|-------------------------------------|---------------------|-------------------------------|--------------------|---------------------|-------------------|-------------------|----------------|
| 49m W    | 17                 | 3                                   | 69                  | 47                            | 0.4                | 59                  | 29                | 22                | 8              |

*This data is sourced from the British Geological Survey.*

## 21.3 BGS Measured Urban Soil Chemistry

Records within 50m

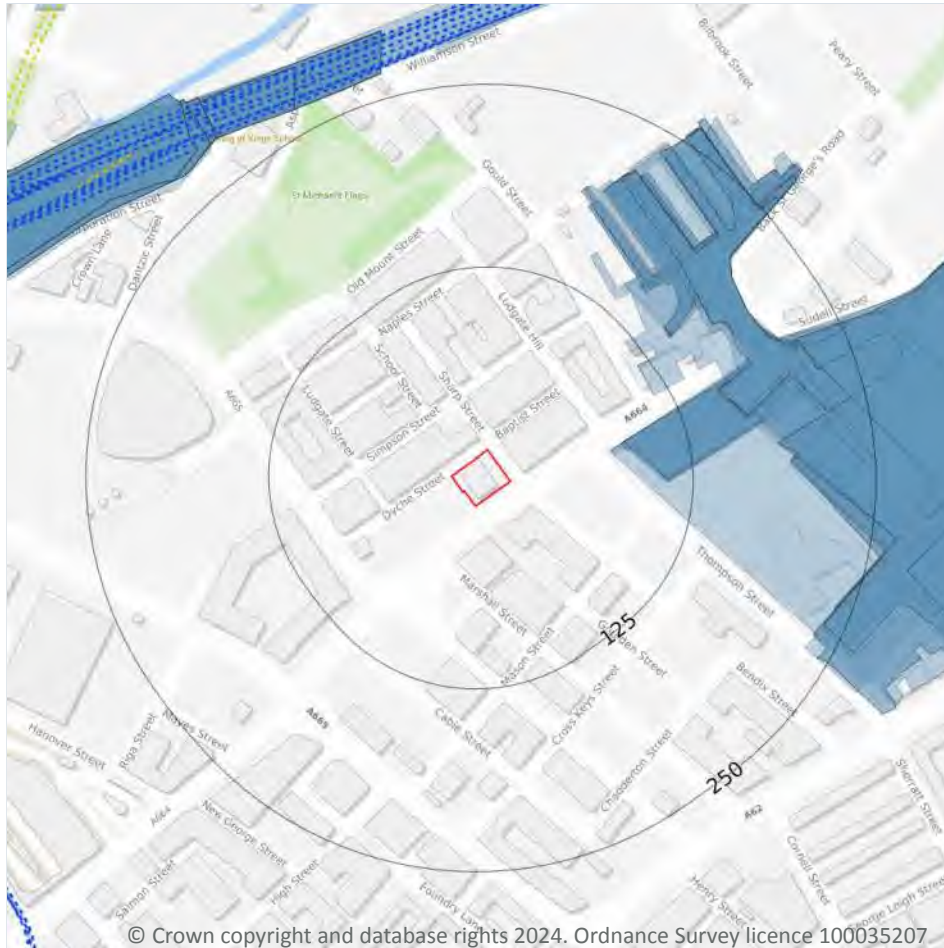
0

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km<sup>2</sup>.

*This data is sourced from the British Geological Survey.*



## 22 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- C2 Crossrail 1 Route
- C2 Crossrail 2 Stations
- C2 Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

### 22.1 Underground railways (London)

Records within 250m

0

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

*This data is sourced from publicly available information by Groundsure.*

### 22.2 Underground railways (Non-London)

Records within 250m

0

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



*This data is sourced from publicly available information by Groundsure.*

## 22.3 Railway tunnels

**Records within 250m**

**0**

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

## 22.4 Historical railway and tunnel features

**Records within 250m**

**35**

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 156 >](#)

| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 71m E    | Railway Sidings | 1956            | 10560         |
| 72m E    | Railway Sidings | 1970            | 1250          |
| 80m E    | Railway Sidings | 1964            | 2500          |
| 80m E    | Railway Sidings | 1949            | 2500          |
| 80m E    | Railway Sidings | 1952            | 2500          |
| 80m E    | Railway Sidings | 1958            | 2500          |
| 82m E    | Railway Sidings | 1958            | 1250          |
| 82m E    | Railway Sidings | 1952            | 1250          |
| 82m E    | Railway Sidings | 1949            | 1250          |
| 114m NE  | Railway Sidings | 1891            | 10560         |
| 135m NE  | Railway Sidings | 1922            | 2500          |
| 145m NE  | Railway Sidings | 1956            | 10560         |
| 146m NE  | Railway Sidings | 1964            | 2500          |
| 154m NE  | Railway Sidings | 1893            | 2500          |
| 154m NE  | Railway Sidings | 1908            | 2500          |
| 155m E   | Railway Sidings | 1931            | 2500          |
| 155m E   | Railway Sidings | 1921            | 10560         |



| Location | Land Use        | Year of mapping | Mapping scale |
|----------|-----------------|-----------------|---------------|
| 155m E   | Railway Sidings | 1906            | 10560         |
| 155m E   | Railway Sidings | 1923            | 10560         |
| 156m E   | Railway Sidings | 1938            | 10560         |
| 156m E   | Railway Sidings | 1933            | 10560         |
| 158m E   | Railway         | 1922            | -             |
| 158m NE  | Railway Sidings | 1891            | 500           |
| 178m NE  | Railway Sidings | 1891            | 500           |
| 181m E   | Railway Sidings | 1891            | 500           |
| 185m E   | Railway Sidings | 1971            | 10000         |
| 185m E   | Railway Sidings | 1978            | 10000         |
| 185m E   | Railway Sidings | 1985            | 10000         |
| 206m E   | Railway Sidings | 1851            | 10560         |
| 232m E   | Railway Sidings | 1953            | 2500          |
| 232m E   | Railway Sidings | 1953            | 2500          |
| 232m E   | Railway Sidings | 1963            | 1250          |
| 232m E   | Railway Sidings | 1953            | 1250          |
| 237m E   | Railway Sidings | 1967            | 2500          |
| 237m E   | Railway Sidings | 1965            | 2500          |

*This data is sourced from Ordnance Survey/Groundsure.*

## 22.5 Royal Mail tunnels

**Records within 250m**

**0**

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

*This data is sourced from Groundsure/the Postal Museum.*



## 22.6 Historical railways

**Records within 250m****0**

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

*This data is sourced from OpenStreetMap.*

## 22.7 Railways

**Records within 250m****0**

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

*This data is sourced from Ordnance Survey and OpenStreetMap.*

## 22.8 Crossrail 1

**Records within 500m****0**

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

*This data is sourced from publicly available information by Groundsure.*

## 22.9 Crossrail 2

**Records within 500m****0**

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

*This data is sourced from publicly available information by Groundsure.*

## 22.10 HS2

**Records within 500m****0**

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

*This data is sourced from HS2 Ltd.*



## Data providers

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

## Terms and conditions

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



Appendix D  
BGS Borehole Records



35  
GEOLOGICAL SURVEY AND MINISTRY OF AGRICULTURE, FISHERIES AND FOOD

**SJ 89NW27**

County Lancs.  
6-in. Map 104 N.E.W.

BORE ~~W~~ SHATT in Newton

GSM No. 60

Manchester

51.1

Surface level \_\_\_\_\_ O.D. 167.75 ft. One-inch Map 85.

Communicated \_\_\_\_\_ by \_\_\_\_\_

Date of sinking Manchester Corporation

Specimens \_\_\_\_\_

| Description.                                                                                          | THICKNESS.    |         | DEPTH.        |         |
|-------------------------------------------------------------------------------------------------------|---------------|---------|---------------|---------|
|                                                                                                       | Feet.         | Inches. | Feet.         | Inches. |
| <u>No. 24</u> <u>167.75 ft. O.D.</u> <u>Cornel of Gordon St. &amp; Rochdale Road.</u> <u>NEWTOWN.</u> | <u>metres</u> |         | <u>metres</u> |         |
| Filled up stuff.                                                                                      | 1.83          | 6 -     | 1.83          | 6 -     |
| Dark brown clay.                                                                                      | 12.50         | 41 -    | 14.33         | 47 -    |
| Boulder clay.                                                                                         | 1.22          | 4 -     | 15.55         | 51 -    |
| Sand                                                                                                  | 0.61          | 2 -     | 16.15         | 53 -    |
| Gravelly clay.                                                                                        | 0.61          | 2 -     | 16.76         | 55 -    |
| Sand & coarse gravel.                                                                                 | 1.52          | 5 -     | 18.29         | 60 -    |
| Sand                                                                                                  | 0.91          | 3 -     | 19.20         | 63 -    |
| Sand & gravel                                                                                         | 0.61          | 2 -     | 19.81         | 65 -    |
| Loamy clay                                                                                            | 1.52          | 5 -     | 21.34         | 70 -    |
| Soft red moor.                                                                                        | 0.61          | 2 -     | 21.95         | 72 -    |
| Red sandstone                                                                                         | 1.22          | 4 -     | 23.17         | 76 -    |



| GEO - RESEARCH LTD.                                                                   |  |  |  |  |  |  |  |  |  | B/H No. 19          |  |
|---------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|---------------------|--|
| CONTRACT INNER RING ROAD, SECTION 2, PHASE I                                          |  |  |  |  |  |  |  |  |  | SHEET No. 1         |  |
| LOCATION MANCHESTER                                                                   |  |  |  |  |  |  |  |  |  | No. of sheets 2     |  |
| CLIENT MANCHESTER CORPORATION                                                         |  |  |  |  |  |  |  |  |  | Ground Level 50.58m |  |
| Weather FINE                                                                          |  |  |  |  |  |  |  |  |  | Commenced 3/12/71   |  |
|                                                                                       |  |  |  |  |  |  |  |  |  | Completed 3/12/71   |  |
| STRATUM. (Scale: 20mm to 1 metre)                                                     |  |  |  |  |  |  |  |  |  | TRIAXIAL TEST       |  |
| 1. Thickness 2. Depth 3. Sample No. 4. Blow Count (N) LL/PL/PI                        |  |  |  |  |  |  |  |  |  | WATER REMARKS       |  |
| 5. Legend                                                                             |  |  |  |  |  |  |  |  |  | 10                  |  |
| Stones, cinders and brown CLAY (Fill) (iii)                                           |  |  |  |  |  |  |  |  |  | Damp                |  |
| 1.82 1.82                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| Stiff to hard brown and grey silty CLAY with occasional pebbles (Boulder Clay) (i)    |  |  |  |  |  |  |  |  |  | Damp                |  |
| 1.98 D1 2.13 U1                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 3.50 D2 3.65 U2                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 4.87 D3 5.18 U3                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 6.40 D4 6.70 U4 39.17.22. (CI)                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| 8.07 D5 8.22 B2                                                                       |  |  |  |  |  |  |  |  |  |                     |  |
| 7.18 9.00                                                                             |  |  |  |  |  |  |  |  |  |                     |  |
| Continued on Sheet 2.                                                                 |  |  |  |  |  |  |  |  |  |                     |  |
| REMARKS: Trial Pit dug for services 1.530 x 1.220 x 1.830                             |  |  |  |  |  |  |  |  |  |                     |  |
| Copyright Reserved                                                                    |  |  |  |  |  |  |  |  |  |                     |  |
| M.C. % S.G. Air Voids Type TOP BOTTOM Value B.S. 1377 No. Max. Dry Density Optm. M.C. |  |  |  |  |  |  |  |  |  |                     |  |
| B1 0.60 2.65 4% Dynamic 21 34 24 32                                                   |  |  |  |  |  |  |  |  |  |                     |  |
| U1 2.13 2.65 7% Static 5 5 5 5                                                        |  |  |  |  |  |  |  |  |  |                     |  |
| U1 5%                                                                                 |  |  |  |  |  |  |  |  |  |                     |  |

For other symbols used see overleaf



| GEO - RESEARCH LTD.                                                                |  |  |  |  |  |  |  |  |  | B/H No. 19                           |  | 1353 |  |
|------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--------------------------------------|--|------|--|
| CONTRACT INNER RING ROAD, SECTION 2, PHASE I                                       |  |  |  |  |  |  |  |  |  | SHEET No. 2                          |  |      |  |
| LOCATION MANCHESTER                                                                |  |  |  |  |  |  |  |  |  | No. of sheets 2                      |  |      |  |
| CLIENT MANCHESTER CORPORATION                                                      |  |  |  |  |  |  |  |  |  | Ground Level 50.58m                  |  |      |  |
| Weather FINE                                                                       |  |  |  |  |  |  |  |  |  | Casing Size to. Size to. 0.150 3.040 |  |      |  |
| STRATUM. (Scale: 20mm to 1 metre)                                                  |  |  |  |  |  |  |  |  |  | Commenced 3/12/71                    |  |      |  |
| 1. Thickness                                                                       |  |  |  |  |  |  |  |  |  | Completed 3/12/71                    |  |      |  |
| 2. m                                                                               |  |  |  |  |  |  |  |  |  | TRIAXIAL TEST                        |  |      |  |
| Sample No.                                                                         |  |  |  |  |  |  |  |  |  | WATER                                |  |      |  |
| Blow Count (N)                                                                     |  |  |  |  |  |  |  |  |  | REMARKS                              |  |      |  |
| LL/PL/PI                                                                           |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 5 Legend                                                                           |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 6. 7.                                                                              |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 8 Results of any other Tests                                                       |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 10.                                                                                |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| Stiff to hard brown and grey silty CLAY with occasional pebbles (Boulder Clay) (i) |  |  |  |  |  |  |  |  |  | Damp                                 |  |      |  |
| 9.00                                                                               |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 9.60 D6                                                                            |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 9.75 U5                                                                            |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 10.51 D7                                                                           |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 10.66 B3                                                                           |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| 2.12 11.12                                                                         |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| BOREHOLE                                                                           |  |  |  |  |  |  |  |  |  | COMPLETE                             |  |      |  |
| REMARKS:                                                                           |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| Sample Depth                                                                       |  |  |  |  |  |  |  |  |  | C. B. R.                             |  |      |  |
| M.C. % D.W. S.G.                                                                   |  |  |  |  |  |  |  |  |  | COMPACTION                           |  |      |  |
| Air Voids Type                                                                     |  |  |  |  |  |  |  |  |  | B.S. 1377 No.                        |  |      |  |
| TOP BOTTOM                                                                         |  |  |  |  |  |  |  |  |  | Max. Dry Density                     |  |      |  |
| 0.1 0.2 0.1 0.2                                                                    |  |  |  |  |  |  |  |  |  | Optm. M.C.                           |  |      |  |
| U2 3.65 2.65 6% Static 10 10 11 12                                                 |  |  |  |  |  |  |  |  |  |                                      |  |      |  |
| U2 4%                                                                              |  |  |  |  |  |  |  |  |  | Std. 1800 15.5                       |  |      |  |
| U3 5.18 2.65 5% Static 8 8 7 7                                                     |  |  |  |  |  |  |  |  |  | Std. 1720 17.5                       |  |      |  |
| U4 6.70 2.65 5% Static 3 3 4 4                                                     |  |  |  |  |  |  |  |  |  |                                      |  |      |  |

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For other symbols used see overleaf



| GEO - RESEARCH LTD.                                                                      |  |  |  |  |  |  |  |  |  | B/H No. 20                                                           |  |  |  |  |  |  |  |  |  |
|------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|----------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| CONTRACT                                                                                 |  |  |  |  |  |  |  |  |  | SHEET No. 1                                                          |  |  |  |  |  |  |  |  |  |
| LOCATION                                                                                 |  |  |  |  |  |  |  |  |  | No. of sheets 2                                                      |  |  |  |  |  |  |  |  |  |
| CLIENT                                                                                   |  |  |  |  |  |  |  |  |  | Ground Level 50.93m                                                  |  |  |  |  |  |  |  |  |  |
| MANCHESTER CORPORATION                                                                   |  |  |  |  |  |  |  |  |  | Commenced 2/12/71                                                    |  |  |  |  |  |  |  |  |  |
| Weather FINE                                                                             |  |  |  |  |  |  |  |  |  | Completed 2/12/71                                                    |  |  |  |  |  |  |  |  |  |
| STRATUM. (Scale: 20mm to 1 metre)                                                        |  |  |  |  |  |  |  |  |  | TRIAXIAL TEST                                                        |  |  |  |  |  |  |  |  |  |
| 1. Thickness                                                                             |  |  |  |  |  |  |  |  |  | 2. m                                                                 |  |  |  |  |  |  |  |  |  |
| Sample No.                                                                               |  |  |  |  |  |  |  |  |  | Bulk Density Kg/m <sup>3</sup>                                       |  |  |  |  |  |  |  |  |  |
| Blow Count (N)                                                                           |  |  |  |  |  |  |  |  |  | Dev. Stress kN/m <sup>2</sup>                                        |  |  |  |  |  |  |  |  |  |
| LL/PL/PI                                                                                 |  |  |  |  |  |  |  |  |  | Lat. U.C.T. Pres. Siren kN/m <sup>2</sup> Shear/2° kN/m <sup>2</sup> |  |  |  |  |  |  |  |  |  |
| Legend                                                                                   |  |  |  |  |  |  |  |  |  | WATER REMARKS                                                        |  |  |  |  |  |  |  |  |  |
| Cinder, brick and brown clay FILL (iii)                                                  |  |  |  |  |  |  |  |  |  | Damp                                                                 |  |  |  |  |  |  |  |  |  |
| 1.82                                                                                     |  |  |  |  |  |  |  |  |  | 21.9                                                                 |  |  |  |  |  |  |  |  |  |
| 1.98                                                                                     |  |  |  |  |  |  |  |  |  | 29.8                                                                 |  |  |  |  |  |  |  |  |  |
| 2.13                                                                                     |  |  |  |  |  |  |  |  |  | 20.4                                                                 |  |  |  |  |  |  |  |  |  |
| Stiff to very stiff brown and grey silty CLAY with occasional pebbles (Boulder Clay) (i) |  |  |  |  |  |  |  |  |  | 20.5 TAQ                                                             |  |  |  |  |  |  |  |  |  |
| 3.50                                                                                     |  |  |  |  |  |  |  |  |  | 17.9                                                                 |  |  |  |  |  |  |  |  |  |
| 3.65                                                                                     |  |  |  |  |  |  |  |  |  | 18.8                                                                 |  |  |  |  |  |  |  |  |  |
| D2                                                                                       |  |  |  |  |  |  |  |  |  | 19.4 TAQ                                                             |  |  |  |  |  |  |  |  |  |
| U2                                                                                       |  |  |  |  |  |  |  |  |  | 19.1                                                                 |  |  |  |  |  |  |  |  |  |
| 4.87                                                                                     |  |  |  |  |  |  |  |  |  | 20.3                                                                 |  |  |  |  |  |  |  |  |  |
| 5.18                                                                                     |  |  |  |  |  |  |  |  |  | 18.8                                                                 |  |  |  |  |  |  |  |  |  |
| D3                                                                                       |  |  |  |  |  |  |  |  |  | 19.2 TAQ                                                             |  |  |  |  |  |  |  |  |  |
| U3                                                                                       |  |  |  |  |  |  |  |  |  | 18.5                                                                 |  |  |  |  |  |  |  |  |  |
| 6.40                                                                                     |  |  |  |  |  |  |  |  |  | 21.2                                                                 |  |  |  |  |  |  |  |  |  |
| 6.70                                                                                     |  |  |  |  |  |  |  |  |  | 20.3                                                                 |  |  |  |  |  |  |  |  |  |
| D4                                                                                       |  |  |  |  |  |  |  |  |  | 19.3 TAQ                                                             |  |  |  |  |  |  |  |  |  |
| U4                                                                                       |  |  |  |  |  |  |  |  |  | 20.8                                                                 |  |  |  |  |  |  |  |  |  |
| 8.07                                                                                     |  |  |  |  |  |  |  |  |  | 18.4                                                                 |  |  |  |  |  |  |  |  |  |
| 8.22                                                                                     |  |  |  |  |  |  |  |  |  | 18.4                                                                 |  |  |  |  |  |  |  |  |  |
| D5                                                                                       |  |  |  |  |  |  |  |  |  | 18.4                                                                 |  |  |  |  |  |  |  |  |  |
| U5                                                                                       |  |  |  |  |  |  |  |  |  | 18.4                                                                 |  |  |  |  |  |  |  |  |  |
| 7.18                                                                                     |  |  |  |  |  |  |  |  |  | 18.4                                                                 |  |  |  |  |  |  |  |  |  |
| 9.00                                                                                     |  |  |  |  |  |  |  |  |  | 18.4                                                                 |  |  |  |  |  |  |  |  |  |
| Continued on Sheet 2.                                                                    |  |  |  |  |  |  |  |  |  |                                                                      |  |  |  |  |  |  |  |  |  |
| REMARKS:                                                                                 |  |  |  |  |  |  |  |  |  | C. B. R.                                                             |  |  |  |  |  |  |  |  |  |
| Trial Pit dug for Services                                                               |  |  |  |  |  |  |  |  |  | TOP BOTTOM Value                                                     |  |  |  |  |  |  |  |  |  |
| 0.910 x 1.520 x 1.830                                                                    |  |  |  |  |  |  |  |  |  | 0.1 0.2 0.1 0.2                                                      |  |  |  |  |  |  |  |  |  |
| Copyright Reserved                                                                       |  |  |  |  |  |  |  |  |  | B.S. 1377 No. Max. Dry Density Optm. M.C.                            |  |  |  |  |  |  |  |  |  |
| B1 0.91                                                                                  |  |  |  |  |  |  |  |  |  | 2.65 7% Dynamic 1 1 1 1                                              |  |  |  |  |  |  |  |  |  |
| U4 6.70                                                                                  |  |  |  |  |  |  |  |  |  | 2.65 6% Static 4 4 5 4                                               |  |  |  |  |  |  |  |  |  |

[illegible]

Appendix E  
Consultants Coal Mining Report



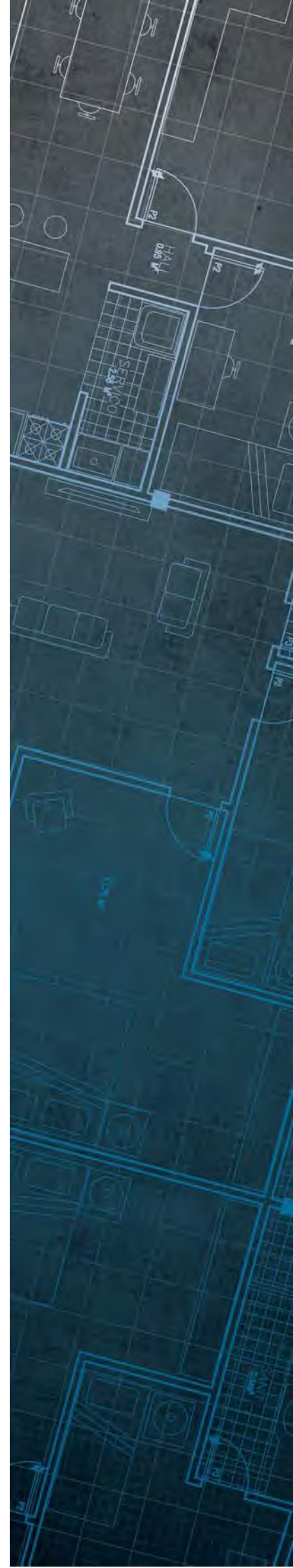
The Coal  
Authority

# Consultants Coal Mining Report

Baptist Church  
Rochdale Road  
Manchester  
M4 4HT

Date of enquiry: 28 May 2024  
Date enquiry received: 28 May 2024  
Issue date: 28 May 2024

Our reference: 51003427319001  
Your reference: 51078 - Baptist Church



# Consultants

## Coal Mining Report

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

**Client name**

CIVIC ENGINEERS LIMITED

## Enquiry address

Baptist Church  
Rochdale Road  
Manchester  
M4 4HT



## How to contact us

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**f** /thecoalauthority

 /thecoalauthority

Approximate position of property



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# Section 1 – Mining activity and geology

## Past underground mining

| Colliery | Seam   | Mineral | Coal Authority reference | Depth (m) | Direction to working | Dipping rate of seam worked (degrees) | Dipped direction of seam worked | Extraction thickness (cm) | Year last mined |
|----------|--------|---------|--------------------------|-----------|----------------------|---------------------------------------|---------------------------------|---------------------------|-----------------|
| unnamed  | PARKER | Coal    | 35BQ                     | 625       | North-East           | 22.5                                  | South                           | 80                        | 1935            |
| unnamed  | ROGER  | Coal    | 35B2                     | 820       | North-East           | 21.6                                  | South                           | 180                       | 1965            |

## Probable unrecorded shallow workings

None.

## Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

## Mine entries

None recorded within 100 metres of the enquiry boundary.

## Abandoned mine plan catalogue numbers

None available.

## Outcrops

No outcrops recorded.

## Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

## Opencast mines

None recorded within 500 metres of the enquiry boundary.

## Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

## Section 2 – Investigative or remedial activity

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

### Site investigations

None recorded within 50 metres of the enquiry boundary.

### Remediated sites

None recorded within 50 metres of the enquiry boundary.

### Coal mining subsidence

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

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

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

### Mine gas

None recorded within 500 metres of the enquiry boundary.

### Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

## Section 3 – Licensing and future mining activity

### Future underground mining

None recorded.

### Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

### Court orders

None recorded.

### Section 46 notices

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

### Withdrawal of support notices

The property is 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.

### Payments to owners of former copyhold land

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

## Section 4 – Further information

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

### Future development

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

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

### Development advice

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

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

## Section 5 – Data definitions

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

### Past underground coal mining

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

### Probable unrecorded shallow workings

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

### Spine roadways at shallow depth

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

### Mine entries

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

### Abandoned mine plan catalogue numbers

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

### Outcrops

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

### Geological faults, fissures and breaklines

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

### **Opencast mines**

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

### **Coal Authority managed tips**

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

### **Site investigations**

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

### **Remediated sites**

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

### **Coal mining subsidence**

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

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

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

### **Mine gas**

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

### **Mine water treatment schemes**

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

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

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

### **Future underground mining**

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

### **Coal mining licensing**

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

### **Court orders**

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

### **Section 46 notices**

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

### **Withdrawal of support notices**

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

### **Payment to owners of former copyhold land**

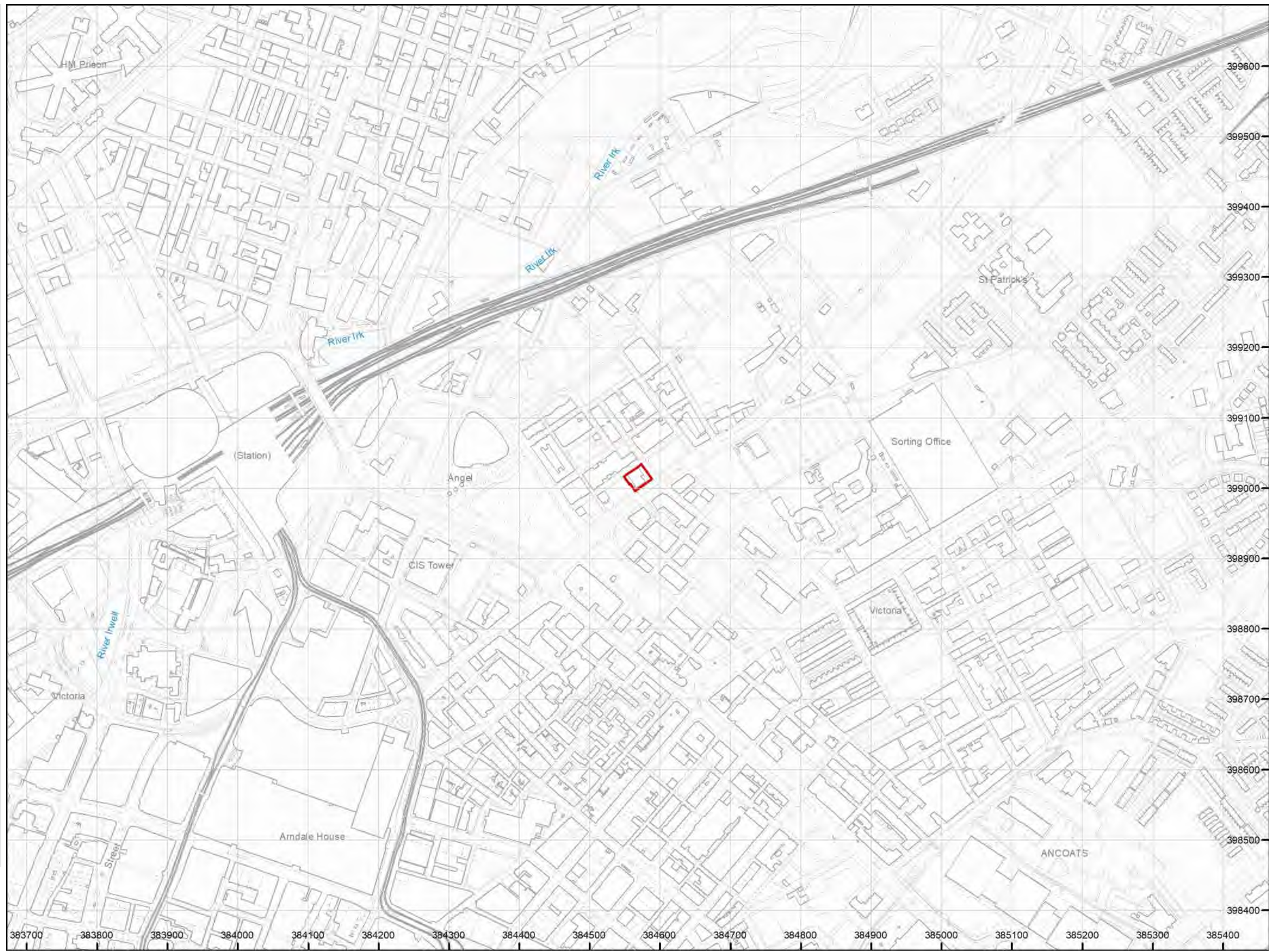
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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

**Key**

Approximate position of the enquiry boundary shown 

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Appendix F  
Risk Assessment Methodology

## Civic Earth Risk Assessment Methodology

Civic Earth's risk assessment methodology is based on the CIRIA C552 (2001) Contaminated Land Risk Assessment – A Guide to Good Practice<sup>1</sup>.

The assessment approach is to quantify the potential risk at Phase 1 Stage via risk estimation and risk evaluation. This defines the overall risk category that can be used to identify likely actions to address the potential risk or undertake further risk evaluation.

The methodology is a qualitative approach and is undertaken for each identified potential contaminant linkage (source-pathway-receptor) identified for the site in accordance with the October 2020 Land Contamination Risk Management Guidance (LCRM)<sup>2</sup>.

The methodology requires the classification of the following:

- The magnitude of the consequence (severity) of a risk occurring; and
- The magnitude of the probability (likelihood) of a risk occurring.

The potential consequences of contamination risks occurring at a site are classified in accordance with Table 1 below, which is based on CIRIA guidance<sup>1</sup>.

*Table 1: Classification of Consequence Ratings*

| Classification | Definition of Consequence                                                                                                                                                                                                       | Examples                                                                                                                                                                                                                        |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Severe         | Short-term (acute) risks to human health.<br>Short-term (acute) risk of pollution of sensitive water resource or ecosystem<br>Catastrophic damage to crops/ building/ property/ infrastructure, including off-site soils        | High concentration of cyanide on the surface of an informal recreation area<br>Major spillage of contaminants from site into controlled waters<br>Explosion causing building collapse                                           |
| Medium         | Long-term (chronic) risks to human health<br>Long-term (chronic) pollution of sensitive water resource<br>Significant change in an ecosystem/contamination of off-site soils                                                    | Concentrations of a contaminant on site exceeding the generic or site specific assessment criteria<br>Leaching of contaminants from a site into a major or minor aquifer<br>Death of species within a designated nature reserve |
| Mild           | Pollution of non-sensitive water resource<br>Significant damage to crops/ buildings/ property /infrastructure<br>Damage to an ecosystem or sensitive buildings/structures/services                                              | Pollution of a non-classified groundwater<br>Damage to a building rendering it unsafe to occupy (e.g. foundation damage resulting in instability)                                                                               |
| Minor          | Easily preventable non-permanent effects<br>Harm, although not necessarily significant harm, which may result in financial loss or expenditure resolve<br>Easily repairable effects of damage to building/ structures/ services | Presence of contamination at concentrations which require the use of personal protective equipment during site work<br>Loss of plants in a landscaping scheme/dischouration of concrete                                         |

The potential probability of the risks being realised are classified in accordance with the ratings set out in Table 2, which are based on CIRIA guidance<sup>1</sup>. It should be noted that where a potential contaminant linkage

<sup>1</sup> CIRIA, (2001). Contaminated Land Risk Assessment. A Guide to Good Practice. CIRIA C552.

<sup>2</sup> Environment Agency (2020). *Land Contamination Risk Management (LCRM)*.

has not been identified the likelihood is considered to be negligible.

*Table 2: Classification of Probability Ratings*

| Classification  | Definition of Consequence                                                                                                                                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| High likelihood | There is a contaminant linkage and an event that either appears very likely in the short term and almost inevitable in the long term, or there is evidence at the receptor that an event has occurred                                                             |
| Likely          | There is a contaminant linkage and all the elements are present in the right place which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term |
| Low likelihood  | There is a contaminant linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such an event would take place and is less likely in the short term                             |
| Unlikely        | There is a contaminant linkage but circumstances are such that it is improbable that an event would occur even in the very long term                                                                                                                              |

In accordance with C552, the risk classifications for each potential contaminant linkage are classified in accordance with the matrix of consequence and probability set out in Table 3. The definitions for the risk classifications are presented in Table 4.

*Table 3: Risk Classification Matrix*

|             |                 | Consequence  |              |              |              |
|-------------|-----------------|--------------|--------------|--------------|--------------|
|             |                 | Severe       | Medium       | Mild         | Minor        |
| Probability | High Likelihood | Very High    | High         | Moderate     | Moderate/Low |
|             | Likely          | High         | Moderate     | Moderate/Low | Low          |
|             | Low Likelihood  | Moderate     | Moderate/Low | Low          | Very Low     |
|             | Unlikely        | Moderate/Low | Low          | Very Low     | Very Low     |

*Table 4: Risk Classification Definitions*

| Classification | Definition                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Very High      | There is a high probability that severe harm could arise to a designated receptor from the identified hazard or there is evidence that severe harm is currently happening. This risk, if realised, is likely to result in substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.                                                                                                                         |
| High           | Harm is likely to arise to a designated receptor from the identified hazard. Realisation of the risk is likely to result in substantial liability. Urgent investigation (if not already undertaken) and remediation are likely to be required.                                                                                                                                                                                                                       |
| Moderate       | It is possible that harm could arise to a designated receptor from the identified hazard. However, it is either relatively unlikely that such harm would be severe or if any harm were to occur it is more than likely that the harm would be relatively mild. Urgent investigation (if not already undertaken) is normally required to clarify the potential risk and to determine the potential liability. Some remedial works may be required in the longer term. |
| Low            | It is possible that harm could arise to a designated receptor from the identified hazard, but it is considered likely that this harm, if realised, would at worst normally be mild.                                                                                                                                                                                                                                                                                  |
| Very Low       | There is a low possibility that harm could arise to a designated receptor from the identified hazard. In the event of such harm being realised it is not likely to be severe.                                                                                                                                                                                                                                                                                        |



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