







EARTH ENVIRONMENTAL & GEOTECHNICAL

Phase 1 GeoEnvironmental Desk Study

Longsight Cricket Club

Longsight

July 2024

On behalf of

Views

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PHASE I GEOENVIRONMENTAL DESK STUDY

LONGSIGHT CRICKET CLUB

LONGSIGHT

FOR

VIEWS

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EARTH ENVIRONMENTAL & GEOTECHNICAL

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1.0 INTRODUCTION

Appointment

1.1 Earth Environmental & Geotechnical Ltd has been commissioned by 1Views (the Client) to undertake a Phase I GeoEnvironmental Desk Study at Longsight Cricket Club.

1.2 It is understood that the Client intends to construct 20no. new residences with associated soft landscaping and car parking. Access will be retained from East Road to the north of the site.

1.3 A proposed development plan is presented in Figure 1, below.

Figure 1 Proposed Development Plan



Objective

1.4 The purpose of the Desk Study is to collate available geological and environmental data for the site (and its environment) and provide a preliminary geotechnical and geo-environmental appraisal, with a site-specific conceptual model. This enables a preliminary assessment of geo-environmental risks to be undertaken and, if necessary, provides information for the design of a Phase 2 Ground Investigation.

Scope

1.5 The Phase I Environmental Desk Study comprises of a site reconnaissance visit and a review of the following information sources, some of which was provided by the client.

- British Geological Survey online maps.
- Google Earth imagery.
- Environment Agency online mapping data.
- Historical Ordnance Survey maps.
- The site and surrounding areas environmental, geological, and mining data presented in the site specific GroundSure Reports (Appendix 1).
- Coal Authority Interactive Viewer.
- Manchester City Council Planning Portal.

2.0 SITE LOCATION AND DESCRIPTION

2.1 The site is located at 84 East Rd, Longsight, Manchester M12 5GZ. The site is situated approximately 653m south of Belle Vue Leisure Centre.

2.2 The approximate National Grid Reference for the centre of the site is SJ 87433 95270 (X: 387433 Y: 395270), with the closest postcode being M12 5GZ.

2.3 The site is a square shaped parcel of land which comprises a bowling green.

2.4 The general surrounding area is comprised of residential dwellings to the north, east and west, and Longsight Cricket Club Pavilion to the south.

2.5 A location plan is shown below as Figure 2, together with a recent site photograph as Figure 3 (overleaf).

Figure 2 Site Location Plan



Figure 3 Site Photograph



3.0 ENVIRONMENTAL SETTING

3.1 The geology of the site is covered by British Geological Survey (BGS) online data and the site specific GroundSure Enviro+Geo Insight report (Appendix 1).

3.2 Environmental conditions are covered by Environment Agency (EA) and British Geological Survey (BGS) online data, and the site specific GroundSure Enviro+Geo Insight report (Appendix 1).

Geology

3.3 The BGS states that the site is not underlain by artificial deposits, although there is infilled ground 3m to the north of the site.

3.4 The site is recorded to be underlain by superficial deposits of Devensian Till Deposits, commonly known as Boulder Clay.

3.5 The solid geology beneath the site is shown to be the Triassic Chester Pebble Bed Formation, comprising pebbly (gravelly) sandstone.

3.6 There are 4no. records of linear features within 500m of the site boundary. The closest record refers to a fault located 103m west of the site.

3.7 There are no records of landslips within 500m of the site.

3.8 There is 1no. borehole record identified within 250m of the site. This record (Reference: SJ89NE722) is located 163m to the northwest of the site which recorded:

- Ground Level – 0.30m: Bituminous surface onto sandstone setts.
- 0.30m – 0.90m: Ashes, cinders, bricks, sand, gravel and clay. MADE GROUND,
- 0.90m – 8.05m: Very stiff brown silty and sandy clay with occasional grey fissures and root inclusions in the upper zone with fine/medium gravel, some silt and sand lenses and bands, occasional coal fragments and becoming stiff/very stiff from 5.50m – 7.00m boulder at 5.30m – 5.50m.

3.9 The site is in an area where the hazard rating is negligible with regards to compressible deposits and soluble rocks. The hazard rating is very low with regards to collapsible deposits, landslides, shrink-swell clays and running sands.

Ground Workings

3.10 There are 39no. records of historical surface ground working features identified within the site boundary. The closest record refers to a brickworks dated 1905 located 11m north of the site.

3.11 According to the BGS, there is 1no. record of British Pits within 500m of the site. This record refers to Gorton Brick Works located 237m northeast of the site. Operations at Gorton Brick Works have now ceased.

Mining and Other Underground Workings

3.12 The site is located within an identified coal mining area but not within a Coal Authority Development High Risk Area.

3.13 There are 2no. records of non-coal mining areas located within 1km of the site. The closest record refers to a vein mineral located 821m southwest of the site.

3.14 There are no records of brine areas, gypsum extraction, tin mining, or clay mining on the site.

3.15 There are no records of natural cavities within 500m of the site.

3.16 There are no records for mining cavities identified within 1km of the site.

3.17 There are no records for historical underground working features identified within 1km of the site.

3.18 There are 2no. records of historical mineral planning areas within 500m of the site. The closest record refers to East Road surface mineral working located 85m northeast of the site.

Radon Potential

3.19 The site is not located in a Radon Affected Area, less than 1% of the properties are above the Action Level. Therefore, radon protection measures will not be required.

Hydrogeology and Hydrology

3.20 The Devensian Till Deposits are classified by the Environment Agency (EA) as a Secondary Undifferentiated Aquifer, with a mixed flow type and a low to high permeability. The BGS states the following:

> ***Secondary Undifferentiated Aquifer*** *'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.'*

3.21 The Chester Formation is classified by the Environment Agency (EA) as a Principal Aquifer with a mixed flow type and a moderate to low permeability. BGS states the following:

> ***Principal Aquifer*** *'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.*

3.22 The groundwater vulnerability of the site has been classified as low for the superficial aquifer and bedrock aquifer. The soil leaching potential of the site classified as low. The BGS states:

> *'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.'*

3.23 There are 9no. groundwater abstraction license records within 2km of the site. The closest record refers to a historical spray irrigation located 601m north of the site.

3.24 There are no surface water abstraction license records within 2km of the site.

3.25 There are no potable water abstraction license records within 2km of the site.

3.26 The site is not located within 500m of a Source Protection Zone or a Source Protection Zone within a confined aquifer.

3.27 There are no water network entries within 250m of the site.

3.28 There are no surface water features identified within 250m of the site.

3.29 The site is located within the Platt Brook (Source to Fallowfield Brook) WFD Surface Water Body Catchment.

3.30 There is 1no. record of Water Framework Directive (WFD) surface water bodies located within 2km of the site. This record refers to Platt Brook (Source to Fallowfield Brook) located 274m north of the site.

3.31 There is 1no. record of a Water Framework Directive (WDF) groundwater body located on-site. The record refers to the Manchester and East Cheshire Permo-Triassic Sandstone Aquifer which had a poor chemical rating in 2019.

Landfill & Waste Management Activity

3.32 There are no records for current Environment Agency landfill records within 500m of the site.

3.33 There are 3no. records of historic Environment Agency landfill sites within 500m of the site. The closest record refers to a landfill at Pink Bank Lane, East Road, Longsight located 73m northeast of the site. This landfill accepted inert, commercial and household waste from 1980 to 1991.

3.34 There is 1no. record of BGS/DoE non-operational landfill sites within 500m of the site. This record refers to a landfill at Matthews Lane, Levenshulme located 366m southeast of the site.

3.35 There are no records of a historical landfill from the Local Authority and Historical Mapping records within 500m of the site.

3.36 There are 12no. records of a waste treatment, transfer, or disposal site within 500m of the site. The closest record refers to a treating waste exemption in the form of sorting and de-naturing of controlled drugs for disposal at 17 – 19 Roe Lane, PR9 9EB located 268m north of the site.

3.37 There are no records of historical waste sites within 500m of the site.

3.38 There is 1no. record of current Environment Agency licensed waste sites within 500m of the site. This record refers to King Autos at Unit 11, Nutsford Vale, Longsight located 374m northeast of the site.

Industrial Land Use Information

3.39 There are 71no. records of potentially contaminative historical land uses identified within 500m of the site. The closest record refers to brick works dated 1905 located 11m north of the site.

3.40 There are 2no. records of current potentially contaminative land uses identified within 250m of the site. The closest record refers to an electricity sub-station located 140m west of the site.

3.41 There are 25no. records of historical tanks identified within 500m of the site. The closest record refers to an unspecified tank located 143m northeast of the site dated 1950.

3.42 There are 41no. records of historical energy features identified within 500m of the site. The closest record refers to an electricity substation located 137m west of the site dated 1984.

3.43 There are 2no. records for current petrol or fuel sites within 500m of the site. The closest record refers to an Obsolete fuel station located 121m northwest of the site.

3.44 There are no records of historical petrol or fuel sites within 500m of the site.

3.45 There are 14no. records of historical garage and motor vehicle repair sites identified within 500m of the site. The closest record refers to a garage located 396m south of the site dated 1957.

3.46 There is no historical military land use record within 500m of the site.

3.47 There are no National Grid high voltage underground electricity transmission cables within 500m of the site.

3.48 There are no National Grid high-pressure gas transmission pipelines within 500m of the site.

3.49 There are 27no. historical railway and tunnel features identified within 250m of the site. The closest record refers to Tramway Sidings located 145m north of the site dated 1933.

3.50 There are no historical railway lines identified within 250m of the site.

3.51 There are no current active railway line records identified within 250m of the site.

3.52 There are no underground railway lines or tunnels identified within 250m of the site.

3.53 The site is not within 500m of the route of the High Speed 2 rail project.

3.54 The site is not within 500m of the route of the Crossrail 1 rail project.

Environmental Permits, Incidents and Registers

3.55 The Groundsure Report includes records of environmental permits, incidents, and registers within 500m of the site, which are summarised in Table 1 below.

Table 1: Environmental Permits, Incidents and Registers within 500m of the Site

Permit/Incident/Register	Number
Historical Licensed Industrial Activities (IPC)	0
Part A (1) and IPPC Authorised Activities	0
Pollutant Release to Surface Waters (Red List)	0
List 1 Dangerous Substances Inventory Sites	0
List 2 Dangerous Substances Inventory Sites	0
Part A (2) and Part B Activities and Enforcements	3
Category 3 or 4 Radioactive Substance Authorisations	0
Licensed Discharge Consents	3
Planning Hazardous Substance Consents and Enforcements	0
Dangerous or Hazardous (COMAH and NIHHS) Sites	0
Sites Determined as Contaminated Land under Part 2a EPA 1990	0
Regulated Explosive Sites	0
Pollutant Release to Public Sewer	0
Substantiated Pollution Incidents (Category 1 and 2)	0
Pollution Inventory Substances, Wastes and Radioactive Wastes	0

3.56 There are 3no. record of Part A (2) and Part B installations under the Environmental Permitting Regulations 2016 located within 500m of the site. The closest record refers to a historical Part B permit for dry cleaning at A&B Dry Cleaners located 272m to the northwest of the site.

3.57 There are 3no. records of Licensed Discharges to controlled waters within 500m of the site. The closest record refers to sewage discharge from the Mad Hatter pub located 297m northwest of the site

Environmentally Sensitive Sites

3.58 There is 1no. record a Local Nature Reserve (LNR) located within 2km. This record refers to Highfield Country Park located 1.5km southeast of the site.

3.59 The site is located within a SSSI Impact Risk Zone. The type of developments that will require consultation are as follows:

> 'Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m².
>
> Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.'

3.60 There are no further records of environmentally sensitive sites within 2km of the site.

Ecology

3.61 An ecological assessment of the site falls outside the brief of this report. Where considered necessary, advice should be sought from an ecological specialist in this respect.

3.62 However, the site is classified as urban land.

Archaeology

3.63 An archaeological assessment falls outside the brief of this report. Where considered necessary, advice should be sought from an archaeological specialist in this respect.

Potential Flood Risks

3.64 Detailed assessment of flood risks is outside the scope of this report. However, the site does not lie within 50m of an Environment Agency Zone 2 or Zone 3 floodplain.

3.65 There are no records of risk of flooding from rivers and sea (RoFRaS) within 50m of the site.

3.66 There is no record of a historical flood event within 250m of the site.

3.67 There are no records of flood defences, no areas benefitting from flood defences, or no areas used for flood storage within 250m of the site.

3.68 The highest risk of surface water flooding occurring on-site is negligible.

3.69 The highest risk of groundwater flooding occurring on-site is moderate.

Previous Site Investigations

3.70 Earth Environmental & Geotechnical Ltd are not aware of any previous site investigations carried out at the site, aside from the Written Scheme of Investigation (WSI) mentioned in the Archaeological section of this report.

4.0 SITE HISTORY

4.1 The historical development of the site has been determined by reference historical plans and Google Earth imagery. The reviewed historical plans comprise only readily available records and may be limited; however, the information available to date indicates that additional searches are unlikely to add to our understanding of the site. The earliest available historical mapping covering the site dates back to 1893.

4.2 The site history is summarised in Table 2, below, followed by selected extracts from maps and aerial photographs.

Table 2: Summary of Site History

Date	On-Site History	Surrounding Land Use History
1893 1:2,500	The site is bisected by a fence running roughly north-south. The site is formed of two arable fields.	The site is surrounded by open arable land. A small collection of residential properties is located to the west of the site. Crowcroft Farm is located to the southwest of the site. A clay pit is located to the northwest of the site. Gorebrook Iron Works is located to the North of the site.
1908, 1922, 1933 1:2,500	The site is now a bowling green.	A cricket club is located to the south of the site and a tennis court is located to the east of the site. There has been an increase in housing to the north, south, east and northwest. Crowcroft Farm has now been removed and replaced with Crowcroft Park, which contains two bowling greens, two tennis courts and open recreational land. A brickworks has been created to the northeast of the site.
1950 1:2,500	No significant changes	The brickworks to the northeast of the site have been removed and replaced with two ponds and a refuse tip.
1972 1:1,250	No significant changes	The refuse tip and one of the ponds to the northeast of the site has been removed.
1984, 1992, 2003 1:1,250	No significant changes	The refuse tip and associated buildings as well as Gorebrook Iron Works have been removed and replaced with residential properties.

Figure 6 OS Map Extract 1893

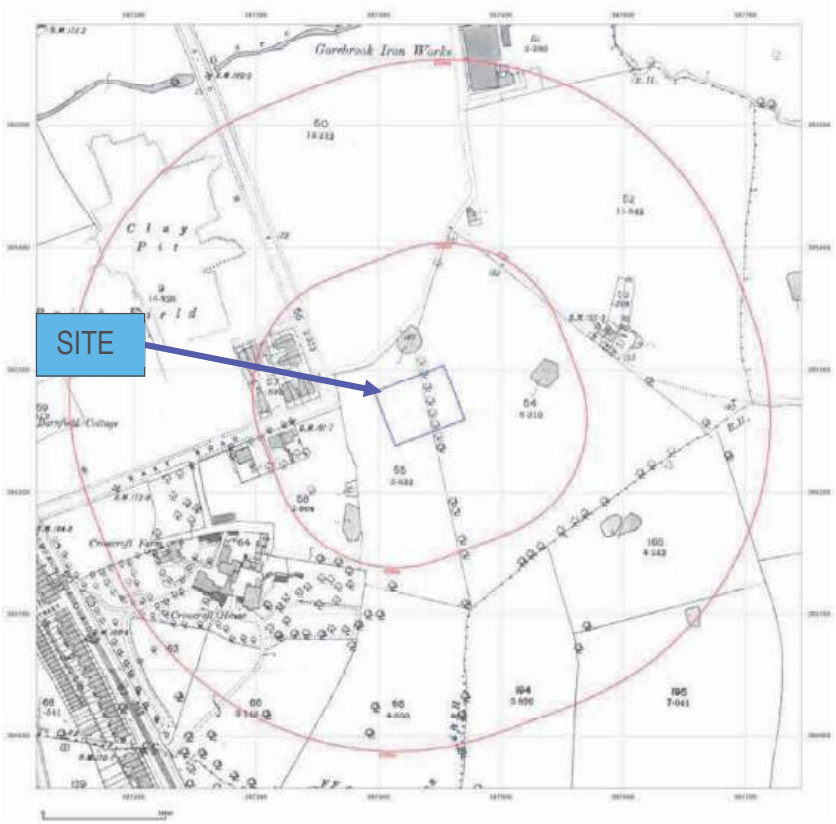


Figure 7 OS Map Extract 1922

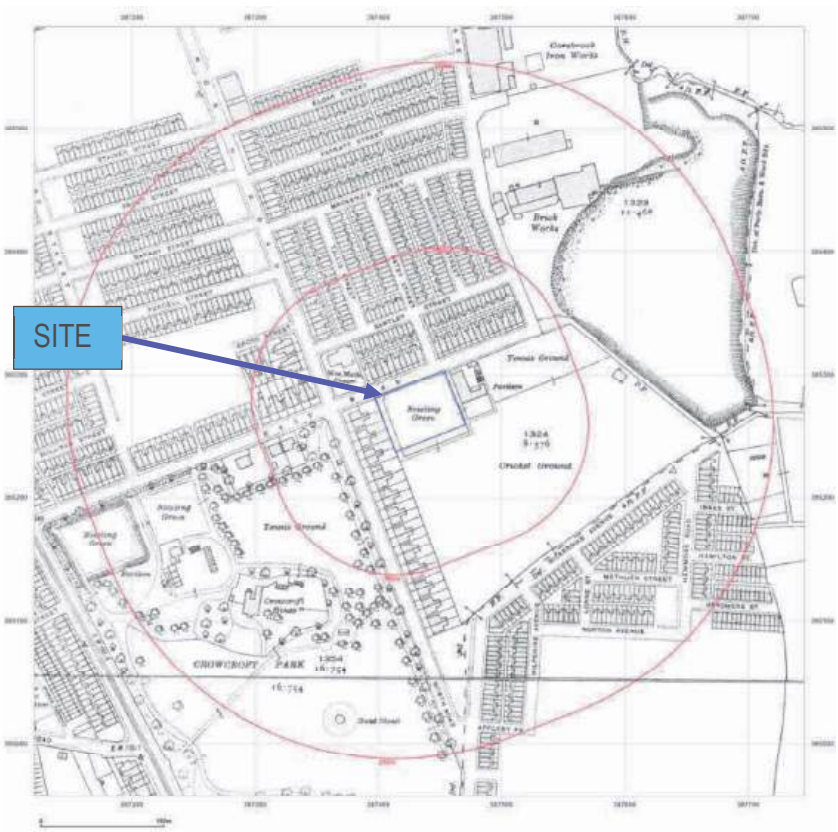


Figure 8 OS Map Extract 1950

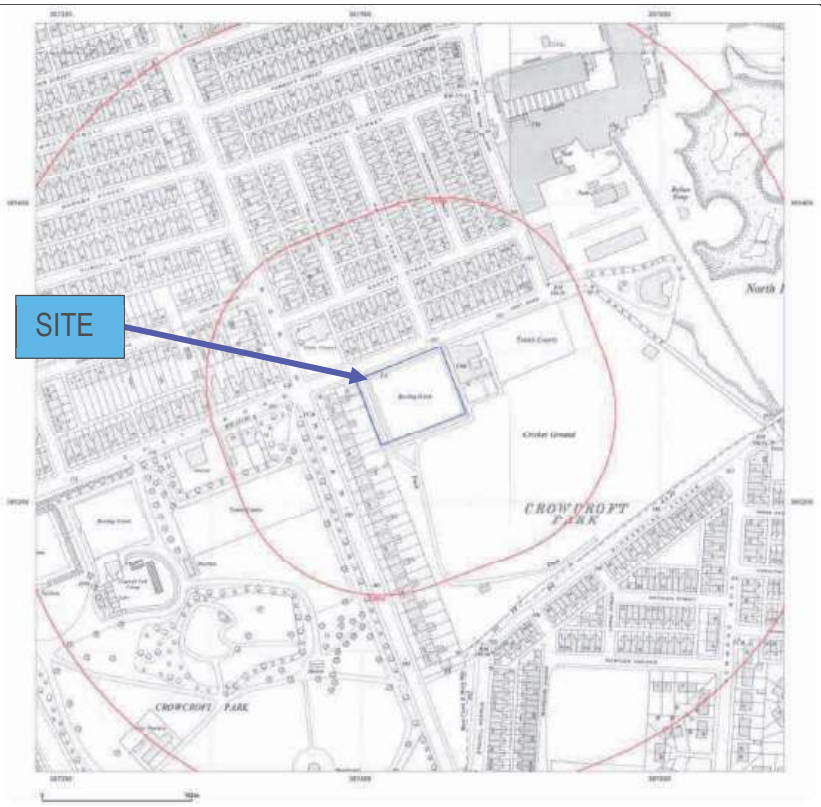
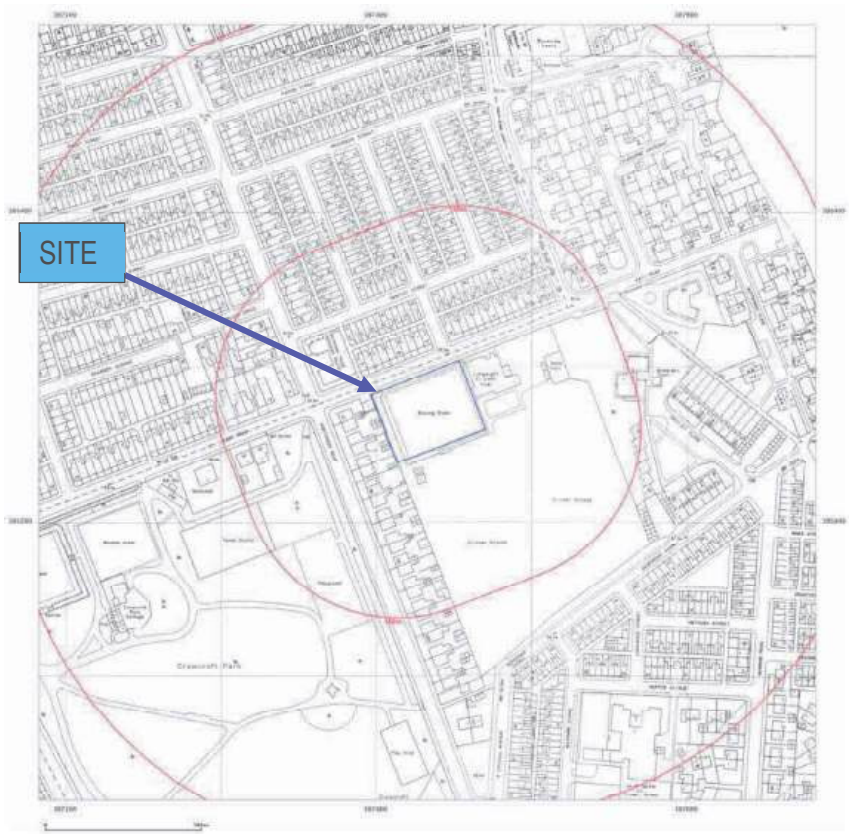


Figure 9 OS Map Extract 1992



5.0 WALKOVER SURVEY

5.1 A walkover survey was completed on Tuesday 16th July 2024. The photographs and notes from this survey are appended to this report as Appendix 2 and Appendix 3 respectively.

5.2 The site is accessed by vehicle via Armitage Avenue to the south of the site and by foot via East Road. Both entrances to the site are through black metal gates.

5.3 The site is currently occupied by Longsight Cricket Club and associated parking and hardstanding.

5.4 The development area covers the bowling green to the north of the cricket club pavilion.

5.5 The site is demarcated by residential dwellings to the east and west, east road to the north and the cricket club pavilion and associated car park to the south.

5.6 The immediate surrounding areas are comprised of residential dwellings.

5.7 A site features plan is presented as Figure 8 overleaf.

Figure 8 Site Features Plan



6.0 PRELIMINARY CONTAMINATION RISK ASSESSMENT

Introduction

6.1 The following paragraphs outline a Preliminary Risk Assessment (PRA) for the site based on the above desk study information as defined by Land Contamination Risk Management Environmental Agency, July 2023.

6.2 Table 5 provides a Preliminary Conceptual Model (PCM) which considers the source-pathway-receptor linkages present alongside the likelihood, severity and risk level as defined within Table 3 and Table 4 below. The assessment of probability, a modified risk table, and certain consequence definitions are based on CIRIA C552 and Land Contamination Risk Management Environmental Agency, July 2023.

6.3 Table 5 considers whether a pollution linkage is potentially present and provides a preliminary qualitative assessment of risk based on the information currently available. Where a possible linkage is identified, it does not necessarily mean that a significant risk exists but indicates that further information is required through appropriate site investigation to substantiate the conceptual model.

6.4 The PCM/PRA is based on a proposed residential end use.

Table 3: Consequence, Probability and Risk

Probability	Consequence,	Risk
High Likelihood- There is a pollution linkage and an event either appears very likely in the short term and almost inevitable over the long term, or there is evidence at the receptor of harm or pollution	Very High – acute risk to the human health likely to result in significant harm. Risk of severe or irreversible effect on ground/surface water quality. Catastrophic damage to buildings / property.	Very High – there is a high potential that the source-pathway-receptor scenarios may give rise to harm to human health, or the environment and remedial action is likely to be required.
Likely – there is a pollution linkage, and all the elements are present, which means that it is probable 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.	High – Severe or irreversible effect on human health. Temporary severe or irreversible effect on ground/surface water quality. Reduction of water quality rendering groundwater or surface water unfit to drink and/or substantial adverse impact on groundwater dependant environmental receptors.	High – it is likely that the source-pathway-receptor scenarios may give rise to an impact on human health or the environment, which may require remediation and/or control measures to mitigate risks
Low likelihood– there is a pollutant linkage, and circumstances are possible for an event could occur. However, it is by no means certain that even over a longer period such event would take place, and is less likely in the shorter term	Moderate – Long term or short-term moderate effect on human health. Moderate effect on ground/surface water quality, reversible with time. Reduced reliability of a supply at a groundwater or surface water abstraction source	Moderate – it is possible that the source-pathway-receptor scenarios may give rise to an impact on human health or the environment, however it is either relatively unlikely that such would be severe, or if any harm were to occur it is more likely that harm would be mild.
Unlikely – there is a pollution linkage, but circumstances are such that it is doubtful that an event would occur even in the very long term.	Low – Non-permanent health effects to human health (easily prevented by means such as personal protective clothing etc.) Slight effect on ground/surface water quality, reversible with time. Marginal reduced reliability of a supply at a groundwater or surface water abstraction source.	Low – it is possible that harm could arise at the source, however it is likely that this would at worst be mild.

Very Low – it is unlikely that the source-pathway-receptor scenarios will give rise to an impact on human health or the environment.

Table 4: Estimation of Level of Risk by Comparison of Consequence and Probability

		Consequence			
		High	**Moderate**	**Low**	**Very low**
Probability	**High Likelihood**	Very High	High risk	Moderate risk	Moderate to low risk
	Likely	High risk	Moderate risk	Moderate to low risk	Low risk
	Low Likelihood	Moderate risk	Moderate to low risk	Low risk	Very low risk
	Unlikely	Moderate to low risk	Low risk	Very low risk	Very low risk

Potential Sources

6.5 Historically, the site has been a Bowling Green from at least 1908.

6.6 Potential off-site sources of contamination include a brickworks 11m to the north dated 1905, 79m northeast dated 1938 and 82m northeast dated 1923.

6.7 There is a former landfill site 73m to the north east of the site.

6.8 To summarise, there is potential for the presence of contamination associated with the following:

- Ground gases from former landfill site.

Potential Receptors

6.9 The following receptors have been considered for the construction and operational stages of the proposed redevelopment.

- Current site users;
- Adjacent land users;
- Future land users;
- Construction workers during site development works;
- Surface water and Groundwater within the underlying aquifer

Potential Pathways

6.10 The following pathways have been considered for the construction and operational stages of the proposed redevelopment.

- Dermal contact, ingestion, inhalation pathways of potentially contaminated soils;
- Downward vertical migration of leachate to surface waters and shallow groundwater;

- Vertical or lateral migration of ground gas.

Table 5: Preliminary Conceptual Model

Source	Pathway	Receptor	Probability	Consequence	Risk	Comment
Contamination associated with the made ground, and grave yard. E.g., Heavy Metals, PAH, TPH, BTEX, ground gases.	Dermal contact, ingestion, and inhalation of soils dust	Current Site Users	Unlikely	Moderate	Low	The site is currently occupied by a bowling green. There is therefore limited potential for direct contact between contaminated soils and receptors. The risk is therefore considered to be **LOW**.
		Adjacent land users	Low Likelihood	Moderate	Moderate to Low	Residential properties are surrounding the site. The risk is considered **MODERATE to LOW** and usual dust control measures should be implemented as part of good site working practices during construction to reduce dust generation.
		Future land users	Low Likelihood	Moderate	Moderate to Low	New residential properties will be constructed with areas of soft landscaping have been proposed which will minimise exposure to contaminated soils. The risk to future site users via direct exposure is considered to be **MODERATE to LOW.** This assessment is based on the sensitivity of the receptor. A contamination assessment of the existing on-site soils and appropriate remediation, if required, will reduce the risk to **LOW**.
		Construction Workers	Low Likelihood	Moderate	Moderate to Low	Construction workers may be exposed to potentially contaminated made ground materials during construction works, however exposure duration will be short-term only. Assuming appropriate health and safety measures are adopted (in line with CDM and other relevant health and safety guidance) a **MODERATE to LOW** risk to construction workers is anticipated.
	Downward vertical migration of leachate to shallow groundwater	Groundwater within the Underlying Aquifer	Low Likelihood	Moderate	Low	Leachable contaminants are unlikely to be present beneath the site. The underlying superficial soils are anticipated to cohesive which will inhibit migration. The risk to groundwater is therefore considered **LOW.**
	Lateral migration in surface waters	Surface water	Unlikely	Moderate	Low	Leachable contaminants are unlikely to be present beneath the site. Therefore, the perceived risk to surface waters is **LOW.**
	Vertical or lateral migration of ground gas	Current Site Users	Unlikely	Moderate	Low	There is potential for made ground soils beneath the site associated with adjacent buildings. However, deep made ground is unlikely. The risk to current site users from ground gas is therefore considered **LOW.**
		Adjacent land users	Unlikely	Moderate	Low	Residential properties are located in close proximity to the site boundary. There is potential for made ground soils beneath the site associated with adjacent buildings. However, deep made ground is unlikely

Source	Pathway	Receptor	Probability	Consequence	Risk	Comment
						and there are no other significant sources of ground gas. The risk to adjacent site users from ground gas is therefore considered **LOW.**
		Future land users	Unlikely	Moderate	Low	New residential properties will be constructed with areas of soft landscaping have been proposed. There is former landfill site 73m to the north east of the site. The risk to future site users from ground gas is therefore considered **MODERATE**
		Construction Workers	Low Likelihood	Moderate	Moderate to Low	Construction workers may be exposed to ground gas/depleted oxygen conditions in confined spaces and excavations; however, the duration will be short term. The risk to construction workers from ground gas is considered **MODERATE to LOW.**
Asbestos Containing Material (ACM)		Current Site Users	Unlikely	Moderate	Low	Asbestos may be present in the made ground soils beneath the site. However, no asbestos was observed on the site walkover. Asbestos is only harmful when disturbed. The risk to current site users is considered to be **LOW.**
		Adjacent land users	Unlikely	High	Moderate to Low	Residential properties are located in close proximity to the site boundary. Asbestos may be present in the made ground soils beneath the site and within the existing building which will demolished. However, no asbestos was observed on the site walkover. Demolition and disturbance of soil during the construction phase may allow fibres to become airborne. The risk is therefore considered **MODERATE to LOW.** Dust control measures (dampening down) should be implemented as part of good site working practices in order to reduce the risk.
		Future land users	Unlikely	High	Moderate to Low	New residential properties will be constructed. Areas of soft landscaping have been proposed which will minimise exposure to any ACM in soils. The risk is therefore considered **MODERATE to LOW.** An asbestos survey of the existing building and a contamination assessment of the existing on-site soils and appropriate remediation, if required, will reduce the risk to **LOW**.
		Construction Workers	Low Likelihood	High	Moderate	Construction workers may be exposed to potential asbestos in made ground soils and the existing building during demolition. The risk is considered **MODERATE.** An asbestos survey of the existing building and a contamination assessment of the on-site soils would be required to

Source	Pathway	Receptor	Probability	Consequence	Risk	Comment
						determine the level of risk and necessary mitigation measures.

7.0 GEOTECHNICAL HAZARDS ASSOCIATED WITH THE DEVELOPMENT

7.1 In addition to the environmental hazards there are also geotechnical hazards associated with the stability of the ground including load bearing capacity, slope stability and effects of ground mining activities. Local Authorities follow NPPF (2012) which requires that a site be suitable for its new use taking into account of ground conditions and land instability, including from natural hazards to former activities such as mining. A summary of the geotechnical considerations is provided below in Table 6.

Table 6: Summary of Geotechnical Hazards

Geohazards:	
Highly Compressible Ground	Negligible risk.
Collapsible Soils	Very low risk.
Swelling Clay	Very low risk.
Running Sand	Very low risk.
Ground Dissolution	Negligible risk.
Landslip	Very low risk.
Mining & Quarrying	The site is not located within a Coal Authority Development High Risk area. The risk from mining and quarrying is generally considered low.
Geotechnical Design Considerations	
Site Clearance	The site is currently occupied by a bowling green and will therefore require minimal clearance.
Trees	There are no trees directly located on site.
Existing Buildings/Obstructions	The site is currently occupied by a by a bowling green surrounded by black metal fencing.

Geotechnical Design Considerations	
Foundations	The suitability of the proposed foundations would depend on the ground conditions present on site. The site is recorded to be underlain by superficial deposits of Devensian Till (formerly known as Boulder Clay). The remainder of the site has no superficial deposits. The solid geology is the Chester Formation, comprising sandstone. Therefore, shallow foundation may be suitable for the proposed residential development bearing into the sandstone bedrock. An intrusive ground investigation will be carried out prior to any construction works taking place to discover the most suitable foundation options for the site and to make sure the ground conditions are the same across the entire site.
Floor Slabs	An intrusive geotechnical investigation is recommended prior to any construction works to identify the most suitable slab design for the on-site ground conditions.
Groundwater	Exact groundwater conditions are not known at this stage. For more detailed knowledge of the groundwater regime, an intrusive geotechnical investigation would be needed.
Earthworks	Extensive earthworks are unlikely to be required for the proposed development as the current site is flat with no foundations that require removal.
Slopes	The site is flat.
Retaining Walls	There are currently no retaining walls present on site.
Soakaways	Probably not feasible due to prevailing impermeable clay strata.
Chemically Aggressive Ground	There is a low potential for chemically aggressive ground conditions on site. However, an intrusive geotechnical investigation would be necessary to confirm this.

8.0 CONCLUSIONS & RECOMMENDATIONS

Conclusions

8.1 The site has been a bowling green since at least 1908.

8.2 It is understood that the Client intends to remove the bowling green and construct 20no. new residential properties with associated hard standing and garden areas.

8.3 There is low potential for the presence of contamination on site.

8.4 The site is recorded to be underlain by superficial deposits of Devensian Till Deposits, commonly known as Boulder Clay (Secondary Undifferentiated Aquifer). The solid geology beneath the site is shown to be the Chester Formation, comprising sandstone (Principal Aquifer).

8.5 The site is not located within the specified search distance of an identified coal mining area and therefore, not within a Development High Risk Area.

8.6 The property is not located in a Radon Affected Area, as less than 1% of the properties are above the Action Level.

8.7 Given the previous historical buildings on site the overall risk from soil contamination to residential end users and construction workers is **LOW.**

8.8 The overall risk to controlled waters is concluded to be **LOW** based on the anticipated cohesive soils and absence of any nearby surface water features.

8.9 The risk from ground gas to end users and construction workers is **MODERATE** based on a nearby closed landfill site.

8.10 An Environment Agency Flood Zone 2 and 3 are not located on site with the highest risk of groundwater flooding being **LOW.**

8.11 Shallow foundations bearing onto glacial clays are feasible.

8.12 Soakaways are probably not feasible due to the presence of impermeable clay strata.

Recommendations

8.13 An intrusive investigation should be undertaken to establish geotechnical parameters for the design of foundations, floor slabs and pavement construction for the proposed new structures and surrounding area.

8.14 As part of the geotechnical investigation, it is recommended that samples of soil are recovered for contamination testing and to confirm whether there are any potential risks to residential end users.

8.15 A ground gas risk assessment should be developed for the site.

APPENDIX 1

GROUNDSURE REPORTS

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

LONGSIGHT CRICKET CLUB, 84, EAST ROAD, LONGSIGHT, MANCHESTER, M12 5GZ

Order Details

Date: 09/07/2024

Your ref: A5710/MM/01

Our Ref: GS-K28-CG4-6ZO-49B

Site Details

Location: 387433 395270

Area: 0.29 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 ↗
01273 257 755

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	0	1	33	19	-
18 >	1.2 >	Historical tanks >	0	0	6	10	-
19 >	1.3 >	Historical energy features >	0	0	2	10	-
19	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	0	0	7	-
20	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
21 >	2.1 >	Historical industrial land uses >	0	1	45	25	-
24 >	2.2 >	Historical tanks >	0	0	8	17	-
25 >	2.3 >	Historical energy features >	0	0	3	38	-
27	2.4	Historical petrol stations	0	0	0	0	-
27 >	2.5 >	Historical garages >	0	0	0	14	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
29	3.1	Active or recent landfill	0	0	0	0	-
29 >	3.2 >	Historical landfill (BGS records) >	0	0	0	1	-
30	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
30 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	2	1	-
31	3.5	Historical waste sites	0	0	0	0	-
31 >	3.6 >	Licensed waste sites >	0	0	0	1	-
32 >	3.7 >	Waste exemptions >	0	0	0	12	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	4.1 >	Recent industrial land uses >	0	0	2	-	-
34 >	4.2 >	Current or recent petrol stations >	0	0	1	1	-
34	4.3	Electricity cables	0	0	0	0	-
34	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-

34	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
35	4.7	Regulated explosive sites	0	0	0	0	-
35	4.8	Hazardous substance storage/usage	0	0	0	0	-
35	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
35 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	0	3	-
36	4.12	Radioactive Substance Authorisations	0	0	0	0	-
36 >	**4.13 >**	**Licensed Discharges to controlled waters >**	0	0	0	3	-
37	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
37	4.15	Pollutant release to public sewer	0	0	0	0	-
37	4.16	List 1 Dangerous Substances	0	0	0	0	-
37	4.17	List 2 Dangerous Substances	0	0	0	0	-
38	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
38	4.19	Pollution inventory substances	0	0	0	0	-
38	4.20	Pollution inventory waste transfers	0	0	0	0	-
38	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
39 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
41 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
43 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
44	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
44	5.5	Groundwater vulnerability- local information	None (within 0m)				
45 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	9
48	5.7	Surface water abstractions	0	0	0	0	0
48	5.8	Potable abstractions	0	0	0	0	0
48	5.9	Source Protection Zones	0	0	0	0	-
49	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
50	6.1	Water Network (OS MasterMap)	0	0	0	-	-

50	6.2	Surface water features	0	0	0	-	-
51 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
51 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
52 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
53	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
53	7.2	Historical Flood Events	0	0	0	-	-
53	7.3	Flood Defences	0	0	0	-	-
54	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
54	7.5	Flood Storage Areas	0	0	0	-	-
55	7.6	Flood Zone 2	None (within 50m)				
55	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
56	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding >					
57 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
58	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
59	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
59	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
59	10.4	Special Protection Areas (SPA)	0	0	0	0	0
59	10.5	National Nature Reserves (NNR)	0	0	0	0	0
60 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
60	10.7	Designated Ancient Woodland	0	0	0	0	0
60	10.8	Biosphere Reserves	0	0	0	0	0
60	10.9	Forest Parks	0	0	0	0	0
61	10.10	Marine Conservation Zones	0	0	0	0	0
61	10.11	Green Belt	0	0	0	0	0
61	10.12	Proposed Ramsar sites	0	0	0	0	0

61	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
61	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
62	10.15	Nitrate Sensitive Areas	0	0	0	0	0
62	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
63 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
64	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
65	11.1	World Heritage Sites	0	0	0	-	-
65	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
65	11.3	National Parks	0	0	0	-	-
65	11.4	Listed Buildings	0	0	0	-	-
66	11.5	Conservation Areas	0	0	0	-	-
66	11.6	Scheduled Ancient Monuments	0	0	0	-	-
66	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
67 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
68	12.2	Open Access Land	0	0	0	-	-
68	12.3	Tree Felling Licences	0	0	0	-	-
68	12.4	Environmental Stewardship Schemes	0	0	0	-	-
68	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	13.1 >	Priority Habitat Inventory >	0	0	7	-	-
70	13.2	Habitat Networks	0	0	0	-	-
70	13.3	Open Mosaic Habitat	0	0	0	-	-
70	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	14.1 >	10k Availability >	Identified (within 500m)				
72 >	14.2 >	Artificial and made ground (10k) >	0	1	3	9	-
74 >	14.3 >	Superficial geology (10k) >	1	0	1	0	-

75	14.4	Landslip (10k)	0	0	0	0	-
76 >	14.5 >	Bedrock geology (10k) >	1	0	4	4	-
77 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	1	3	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	15.1 >	50k Availability >	Identified (within 500m)				
79 >	15.2 >	Artificial and made ground (50k) >	0	0	2	0	-
80	15.3	Artificial ground permeability (50k)	0	0	-	-	-
81 >	15.4 >	Superficial geology (50k) >	1	0	0	0	-
82 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
82	15.6	Landslip (50k)	0	0	0	0	-
82	15.7	Landslip permeability (50k)	None (within 50m)				
83 >	15.8 >	Bedrock geology (50k) >	1	0	3	2	-
84 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
84 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	1	1	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
85 >	16.1 >	BGS Boreholes >	0	0	1	-	-
Page	Section	Natural ground subsidence >					
86 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
87 >	17.2 >	Running sands >	Very low (within 50m)				
88 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
89 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
90 >	17.5 >	Landslides >	Very low (within 50m)				
91 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
93 >	18.1 >	BritPits >	0	0	1	0	-
94 >	18.2 >	Surface ground workings >	0	4	35	-	-
96	18.3	Underground workings	0	0	0	0	0
96	18.4	Underground mining extents	0	0	0	0	-
96 >	18.5 >	Historical Mineral Planning Areas >	0	0	2	0	-

96 >	18.6 >	Non-coal mining >	0	0	0	0	2
97 >	18.7 >	JPB mining areas >	Identified (within 0m)				
97	18.8	The Coal Authority non-coal mining	0	0	0	0	-
98	18.9	Researched mining	0	0	0	0	-
98	18.10	Mining record office plans	0	0	0	0	-
98	18.11	BGS mine plans	0	0	0	0	-
98 >	18.12 >	Coal mining >	Identified (within 0m)				
99	18.13	Brine areas	None (within 0m)				
99	18.14	Gypsum areas	None (within 0m)				
99	18.15	Tin mining	None (within 0m)				
99	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
100	19.1	Natural cavities	0	0	0	0	-
100	19.2	Mining cavities	0	0	0	0	0
100	19.3	Reported recent incidents	0	0	0	0	-
100	19.4	Historical incidents	0	0	0	0	-
101	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
102 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-
104 >	21.2 >	BGS Estimated Urban Soil Chemistry >	3	5	-	-	-
105	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
106	22.1	Underground railways (London)	0	0	0	-	-
106	22.2	Underground railways (Non-London)	0	0	0	-	-
107	22.3	Railway tunnels	0	0	0	-	-
107 >	22.4 >	Historical railway and tunnel features >	0	0	27	-	-
108	22.5	Royal Mail tunnels	0	0	0	-	-

108	22.6	Historical railways	0	0	0	-	-
109	22.7	Railways	0	0	0	-	-
109	22.8	Crossrail 1	0	0	0	0	-
109	22.9	Crossrail 2	0	0	0	0	-
109	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 18/10/2022

Site Area: 0.29ha

Recent site history - 2019 aerial photograph

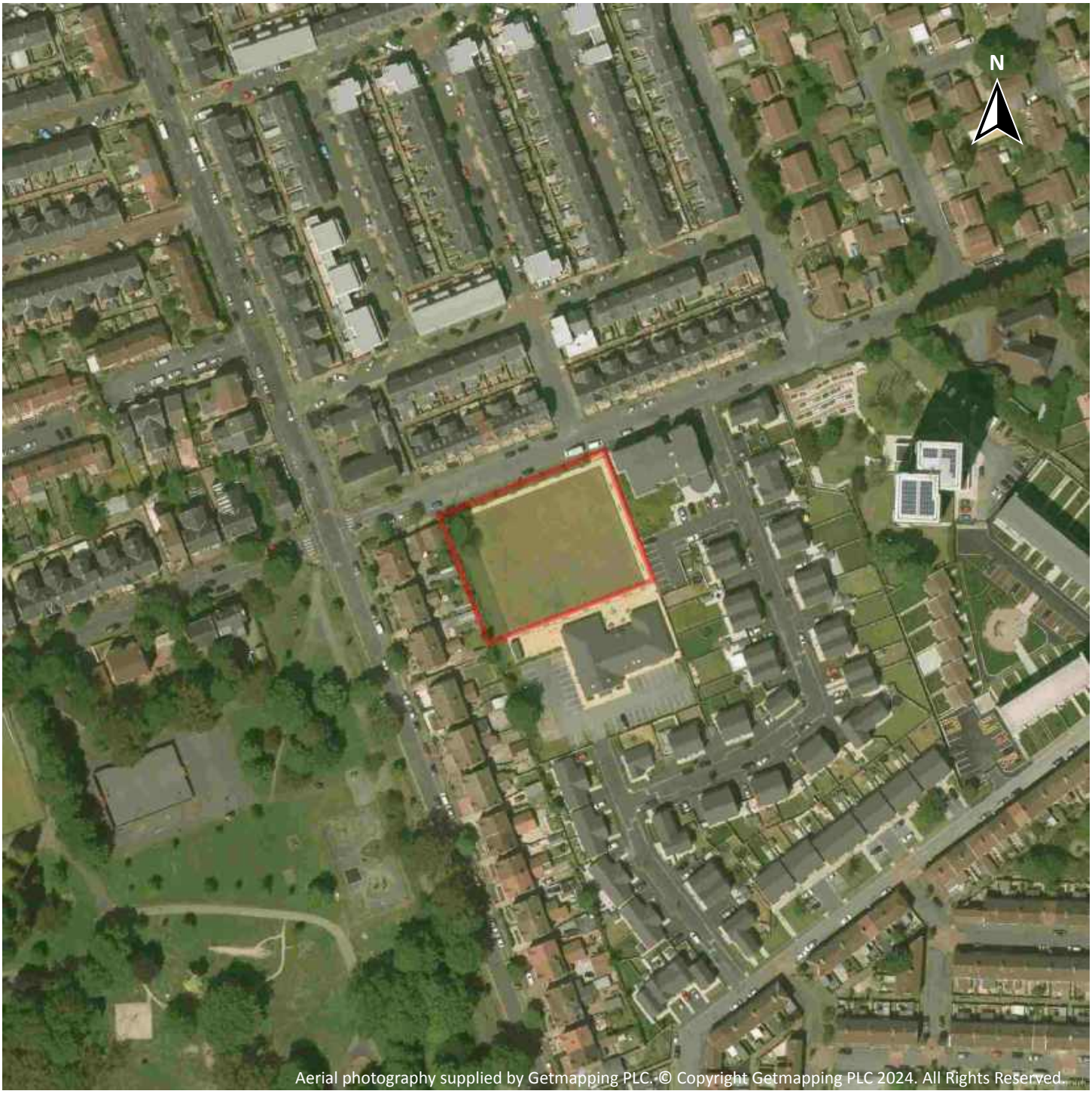


Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2024. All Rights Reserved.

Capture Date: 22/04/2019

Site Area: 0.29ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.29ha

Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.29ha

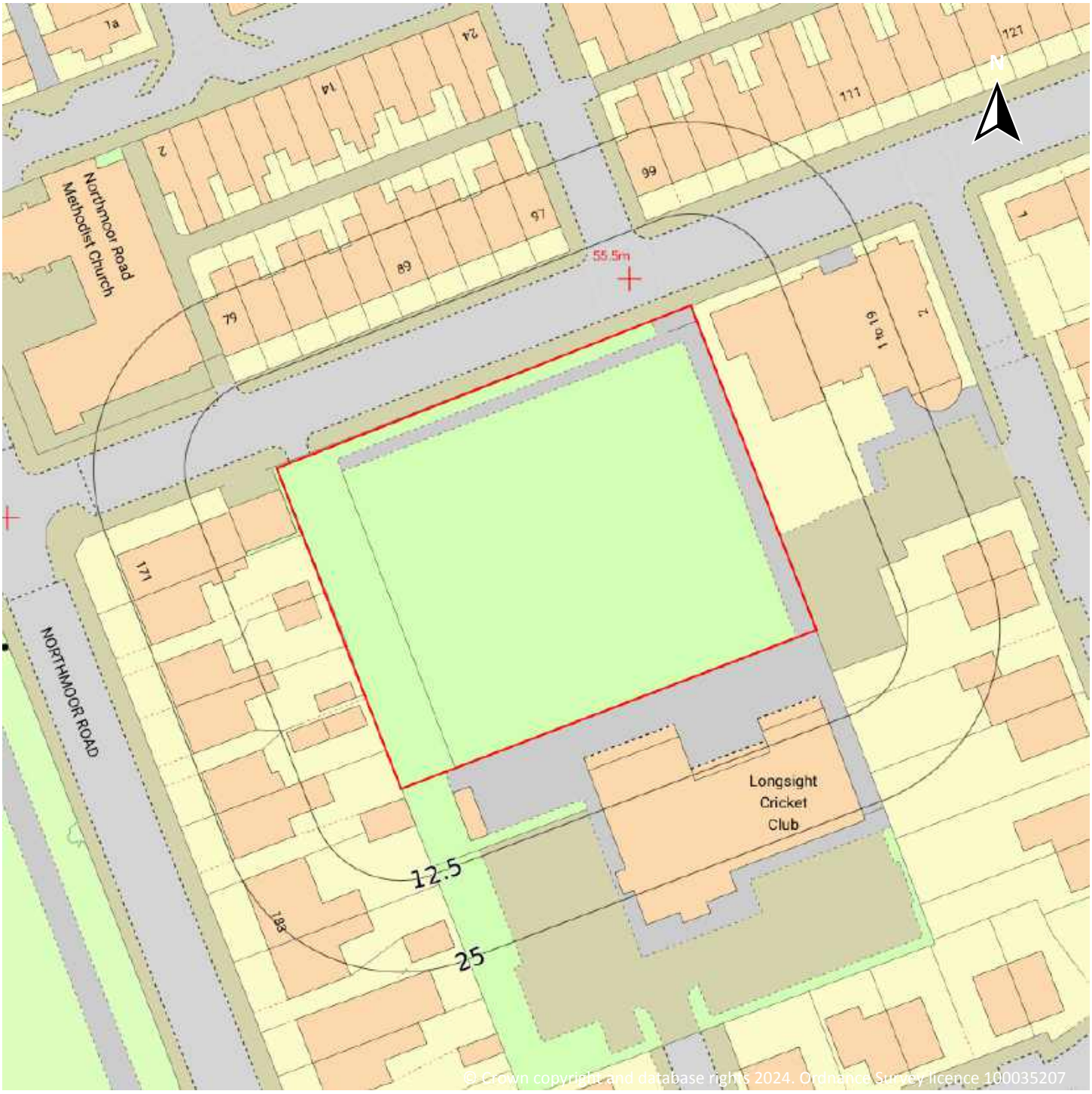
Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.29ha

OS MasterMap site plan



Site Area: 0.29ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	53

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	11m N	Brick Works	1905	920011

ID	Location	Land use	Dates present	Group ID
A	79m NE	Brick Works	1915	919480
A	79m NE	Brick Works	1934 - 1938	985959
A	82m NE	Brick Works	1923	1001635
A	86m NE	Brick Work	1956	808359
A	86m NE	Brick Works	1968 - 1981	895203
B	88m NW	Brick Field	1890	806731
A	96m NE	Sand Pit	1923	826956
A	96m NE	Refuse Heap	1915	959594
1	119m SW	Cotton Mill	1848	806950
B	131m W	Unspecified Pit	1890	828781
A	145m N	Railway Sidings	1934 - 1938	868821
A	148m NE	Refuse Heap	1934 - 1938	972419
2	152m N	Tramway Sidings	1956	856454
A	154m NE	Unspecified Pit	1905	829254
A	160m NE	Railway Sidings	1968	919934
A	167m NE	Railway Sidings	1923	932176
3	171m E	Clay Pit	1934 - 1938	925956
A	176m N	Unspecified Heap	1905	842825
A	179m NE	Railway Sidings	1905 - 1915	869638
A	190m NE	Tramway Sidings	1934 - 1938	998765
A	192m E	Refuse Heap	1968	865453
A	192m E	Refuse Heap	1956	987341
A	212m N	Iron Works	1890 - 1915	896785
A	212m N	Iron Works	1934 - 1938	964499
A	216m N	Unspecified Works	1985 - 1991	868933
A	220m N	Dye Works	1923	997751
A	223m N	Unspecified Works	1968	882648
D	232m E	Unspecified Pit	1956	828602

ID	Location	Land use	Dates present	Group ID
D	232m E	Clay Pit	1981	906138
D	232m E	Clay Pit	1968	946887
5	233m SW	Nursery	1968	831800
A	247m N	Unspecified Works	1981	969813
6	249m NE	Unspecified Pit	1934 - 1938	929270
8	292m N	Unspecified Pit	1934	829255
A	294m N	Dye Works	1890 - 1905	879584
A	296m N	Mill Ponds	1848	858123
A	298m N	Unspecified Commercial/Industrial	1934	822330
A	298m N	Dye Works	1915	964082
A	314m N	Unspecified Tanks	1938	924713
A	315m N	Unspecified Tanks	1923	940085
A	315m N	Unspecified Tanks	1934	941992
A	315m N	Unspecified Tanks	1915	990907
10	335m SW	Police Station	1965	858899
A	341m N	Tarpaulin Works	1915 - 1923	994541
A	341m N	Engineering Works	1934	856618
A	345m N	Unspecified Works	1968	835403
E	359m NE	Chemical Works	1890	834338
E	359m NE	Unspecified Works	1905	835402
12	367m SE	Railway Sidings	1965	857401
F	373m SE	Laundry	1955 - 1976	946668
F	380m SE	Laundry	1934 - 1938	956432
17	479m S	Police Station	1983 - 1989	937442

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	16

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

Features are displayed on the Past land use map on **page 15 >**

ID	Location	Land use	Dates present	Group ID
A	143m NE	Unspecified Tank	1950	132610
A	145m NE	Unspecified Tank	1950 - 1968	150648
A	150m NE	Unspecified Tank	1950	127246
A	179m NE	Unspecified Tank	1968	120587
B	190m NW	Unspecified Tank	1891	120586
4	231m NW	Unspecified Tank	1891	120585
A	313m N	Tanks	1908 - 1933	154720
9	315m NW	Unspecified Tank	1891	120568
A	317m N	Unspecified Tank	1922	120578
11	362m NW	Unspecified Tank	1891	120584
A	372m N	Tanks	1950 - 1953	132101
A	375m N	Tanks	1950	128989
A	376m N	Tanks	1950 - 1953	133951
13	398m N	Unspecified Tank	1893	120573
14	420m N	Unspecified Tank	1950 - 1953	150863
16	452m NE	Tanks	1893	110512

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	12

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
C	137m W	Electricity Substation	1984 - 1992	78025
C	139m W	Electricity Transformer	1972	68733
7	277m W	Electricity Substation	1950 - 1992	88338
G	379m SW	Electricity Substation	1956 - 1957	79638
G	379m SW	Electricity Substation	1994	75618
G	380m SW	Electricity Substation	1974 - 1988	89219
H	444m S	Electricity Substation	1974 - 1994	76521
18	479m NW	Electricity Substation	1968 - 1995	77662
I	482m NW	Electricity Substation	1979 - 1996	72032
J	495m N	Electricity Substation	1993 - 1995	71454
J	497m N	Electricity Substation	1989	87631
J	497m N	Electricity Substation	1950 - 1968	89470

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 un-grouped 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	7

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 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
H	396m S	Garage	1957	24471
H	396m S	Garage	1956	29150
H	402m S	Garage	1994	27046
H	402m S	Garage	1983 - 1988	26782
H	402m S	Garage	1974	25599
15	421m NE	Garages	1953	22801
I	445m W	Garage	1979 - 1996	30762

This data is sourced from Ordnance Survey / Groundsure.

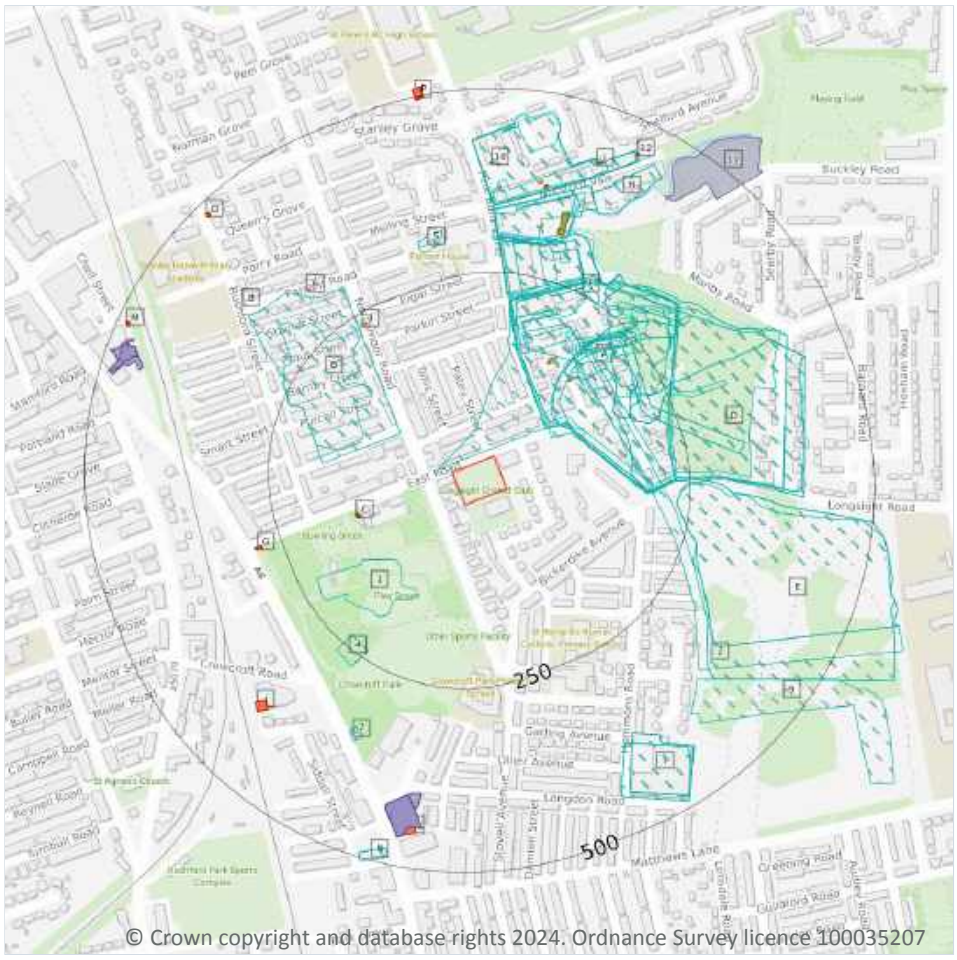
1.6 Historical military land

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



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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	71

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 21 >**

ID	Location	Land Use	Date	Group ID
A	11m N	Brick Works	1905	920011
A	79m NE	Brick Works	1938	985959
A	79m NE	Brick Works	1934	985959

ID	Location	Land Use	Date	Group ID
A	79m NE	Brick Works	1915	919480
A	82m NE	Brick Works	1923	1001635
A	86m NE	Brick Work	1956	808359
A	86m NE	Brick Works	1968	895203
A	87m NE	Brick Works	1981	895203
B	88m NW	Brick Field	1890	806731
A	96m NE	Sand Pit	1923	826956
A	96m NE	Refuse Heap	1915	959594
1	119m SW	Cotton Mill	1848	806950
B	131m W	Unspecified Pit	1890	828781
A	145m N	Railway Sidings	1938	868821
A	148m NE	Refuse Heap	1938	972419
A	148m NE	Refuse Heap	1934	972419
2	152m N	Tramway Sidings	1956	856454
A	153m N	Railway Sidings	1934	868821
A	154m NE	Unspecified Pit	1905	829254
A	160m NE	Railway Sidings	1968	919934
A	167m NE	Railway Sidings	1923	932176
D	171m E	Clay Pit	1938	925956
D	171m E	Clay Pit	1934	925956
A	176m N	Unspecified Heap	1905	842825
A	179m NE	Railway Sidings	1905	869638
A	183m NE	Railway Sidings	1915	869638
A	190m NE	Tramway Sidings	1938	998765
A	190m NE	Tramway Sidings	1934	998765
A	192m E	Refuse Heap	1956	987341
A	192m E	Refuse Heap	1968	865453
A	212m N	Iron Works	1938	964499

ID	Location	Land Use	Date	Group ID
A	212m N	Iron Works	1934	964499
A	212m N	Iron Works	1915	896785
A	212m N	Iron Works	1905	896785
A	212m N	Iron Works	1890	896785
A	216m N	Unspecified Works	1985	868933
A	216m N	Unspecified Works	1991	868933
A	220m N	Dye Works	1923	997751
A	223m N	Unspecified Works	1968	882648
E	232m E	Clay Pit	1981	906138
E	232m E	Clay Pit	1968	946887
E	232m E	Unspecified Pit	1956	828602
4	233m SW	Nursery	1968	831800
A	247m N	Unspecified Works	1981	969813
F	249m NE	Unspecified Pit	1938	929270
F	249m NE	Unspecified Pit	1934	929270
5	292m N	Unspecified Pit	1934	829255
A	294m N	Dye Works	1905	879584
A	294m N	Dye Works	1890	879584
A	296m N	Mill Ponds	1848	858123
A	298m N	Unspecified Commercial/Industrial	1934	822330
A	298m N	Dye Works	1915	964082
A	314m N	Unspecified Tanks	1938	924713
A	315m N	Unspecified Tanks	1923	940085
A	315m N	Unspecified Tanks	1934	941992
A	315m N	Unspecified Tanks	1915	990907
7	335m SW	Police Station	1965	858899
A	341m N	Tarpaulin Works	1923	994541
A	341m N	Engineering Works	1934	856618

ID	Location	Land Use	Date	Group ID
A	341m N	Tarpaulin Works	1915	994541
A	345m N	Unspecified Works	1968	835403
H	359m NE	Unspecified Works	1905	835402
H	359m NE	Chemical Works	1890	834338
9	367m SE	Railway Sidings	1965	857401
I	373m SE	Laundry	1976	946668
I	373m SE	Laundry	1955	946668
I	373m SE	Laundry	1965	946668
I	380m SE	Laundry	1938	956432
I	380m SE	Laundry	1934	956432
N	479m S	Police Station	1983	937442
N	479m S	Police Station	1989	937442

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**25**

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 21 >**

ID	Location	Land Use	Date	Group ID
A	143m NE	Unspecified Tank	1950	132610
A	143m NE	Unspecified Tank	1950	132610
A	145m NE	Unspecified Tank	1968	150648
A	145m NE	Unspecified Tank	1950	150648
A	150m NE	Unspecified Tank	1950	127246
A	179m NE	Unspecified Tank	1968	120587
B	190m NW	Unspecified Tank	1891	120586
3	231m NW	Unspecified Tank	1891	120585

ID	Location	Land Use	Date	Group ID
A	313m N	Tanks	1908	154720
A	313m N	Tanks	1922	154720
A	313m N	Tanks	1933	154720
6	315m NW	Unspecified Tank	1891	120568
A	317m N	Unspecified Tank	1922	120578
8	362m NW	Unspecified Tank	1891	120584
A	372m N	Tanks	1953	132101
A	372m N	Tanks	1950	132101
A	372m N	Tanks	1950	132101
A	375m N	Tanks	1950	128989
A	376m N	Tanks	1953	133951
A	376m N	Tanks	1950	133951
10	398m N	Unspecified Tank	1893	120573
L	420m N	Unspecified Tank	1950	150863
L	420m N	Unspecified Tank	1953	150863
L	420m N	Unspecified Tank	1950	150863
12	452m NE	Tanks	1893	110512

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m **41**

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 21 >**

ID	Location	Land Use	Date	Group ID
C	137m W	Electricity Substation	1984	78025
C	138m W	Electricity Substation	1992	78025
C	139m W	Electricity Transformer	1972	68733

ID	Location	Land Use	Date	Group ID
G	277m W	Electricity Substation	1984	88338
G	278m W	Electricity Substation	1972	88338
G	278m W	Electricity Substation	1950	88338
G	278m W	Electricity Substation	1992	88338
G	278m W	Electricity Substation	1950	88338
J	379m SW	Electricity Substation	1956	79638
J	379m SW	Electricity Substation	1957	79638
J	379m SW	Electricity Substation	1994	75618
J	380m SW	Electricity Substation	1983	89219
J	380m SW	Electricity Substation	1983	89219
J	380m SW	Electricity Substation	1986	89219
J	380m SW	Electricity Substation	1988	89219
J	380m SW	Electricity Substation	1988	89219
J	380m SW	Electricity Substation	1974	89219
K	444m S	Electricity Substation	1983	76521
K	444m S	Electricity Substation	1983	76521
K	444m S	Electricity Substation	1986	76521
K	444m S	Electricity Substation	1988	76521
K	444m S	Electricity Substation	1988	76521
K	444m S	Electricity Substation	1994	76521
K	445m S	Electricity Substation	1974	76521
O	479m NW	Electricity Substation	1995	77662
O	479m NW	Electricity Substation	1994	77662
O	479m NW	Electricity Substation	1993	77662
O	480m NW	Electricity Substation	1980	77662
O	480m NW	Electricity Substation	1968	77662
O	480m NW	Electricity Substation	1989	77662
M	482m NW	Electricity Substation	1979	72032

ID	Location	Land Use	Date	Group ID
M	482m NW	Electricity Substation	1990	72032
M	482m NW	Electricity Substation	1995	72032
M	482m NW	Electricity Substation	1996	72032
P	495m N	Electricity Substation	1995	71454
P	495m N	Electricity Substation	1994	71454
P	495m N	Electricity Substation	1993	71454
P	497m N	Electricity Substation	1968	89470
P	497m N	Electricity Substation	1950	89470
P	497m N	Electricity Substation	1989	87631
P	498m N	Electricity Substation	1950	89470

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	14

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 21 >**

ID	Location	Land Use	Date	Group ID
K	396m S	Garage	1957	24471
K	396m S	Garage	1956	29150
K	402m S	Garage	1994	27046

ID	Location	Land Use	Date	Group ID
K	402m S	Garage	1983	26782
K	402m S	Garage	1983	26782
K	402m S	Garage	1986	26782
K	402m S	Garage	1988	26782
K	402m S	Garage	1988	26782
K	402m S	Garage	1974	25599
11	421m NE	Garages	1953	22801
M	445m W	Garage	1996	30762
M	445m W	Garage	1995	30762
M	456m W	Garage	1979	30762
M	456m W	Garage	1990	30762

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical landfill (BGS)

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	1

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Address	BGS Number	Risk	Waste Type
4	366m SE	Matthews Lane, Levenshulme, Manchester	519	No risk to aquifer	N/A

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**0**

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	**3**

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details		
1	73m NE	Site Address: Pink Bank Lane, East Road, Longsight, Greater Manchester Licence Holder Address: -	Waste Licence: Yes Site Reference: F010, RD/RES/024/80 Waste Type: Inert, Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 25/02/1980 Licence Surrender: 30/04/1991	Operator: - Licence Holder: Greater Manchester Waste Disposal Authority First Recorded 16/02/1981 Last Recorded: 01/05/1981
2	208m E	Site Address: Matthews Lane, Longsight, Greater Manchester Licence Holder Address: -	Waste Licence: Yes Site Reference: F009 Waste Type: Inert, Industrial, Commercial, Household, Special, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 01/01/1974 Licence Surrender: -	Operator: Manchester Corporation Cleansing Department Licence Holder: Greater Manchester Waste Disposal Authority First Recorded 31/12/1969 Last Recorded: 11/07/1978

ID	Location	Details		
5	421m NE	Site Address: Mount Road Plant Site, Annie Leigh Playing Fields, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: F024 Waste Type: Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	**0**

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

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

3.6 Licensed waste sites

Records within 500m	**1**

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

Features are displayed on the Waste and landfill map on **page 29 >**

ID	Location	Details		
A	374m NE	Site Name: King Autos Site Address: Unit 11, Nutsford Vale, Longsight, Manchester, Manchester, M12 5QJ Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 635619 EPR reference: EA/EPR/BB3005LQ Operator: Urosh Ventaj Waste Management licence No: 401031 Annual Tonnage: 4999	Issue Date: 12/01/2015 Effective Date: 12/01/2015 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	12

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 29 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
3	268m N	17-19, Roe Lane, Southport, Pr9 9eb	WEX389076	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	351m N	-	WEX396300	Treating waste exemption	Not on a farm	Sorting mixed waste
A	351m N	-	WEX396300	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	351m N	Enclosed Yard With Garage Unit	WEX267092	Treating waste exemption	Not on a farm	Sorting mixed waste
A	351m N	-	WEX126427	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	351m N	Enclosed Yard With Garage Unit	WEX267092	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	351m N	-	WEX126427	Treating waste exemption	Not on a farm	Sorting mixed waste
B	390m W	7, Slade Lane, Manchester, M13 0qj	WEX395330	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	390m W	-	WEX267396	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	421m SE	Unit 13 Hemmons Road Manchester Manchester M12 5st	EPR/YF0407TQ/A001	Storing waste exemption	Non-agricultural waste only	Storage of waste in a secure place
C	434m SE	-	WEX367539	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	434m SE	Unit 13, Hemmons Road, Levenshulme, Manchester, M12 5st	EA/EPR/VP3852VP/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m	2

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 33 >**

ID	Location	Company	Address	Activity	Category
2	140m W	Electricity Sub Station	Greater Manchester, M12	Electrical Features	Infrastructure and Facilities
3	213m NW	Opera Cakes & Desserts	109, Northmoor Road, Manchester, Greater Manchester, M12 5RT	Baking and Confectionery	Foodstuffs

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 33 >**

ID	Location	Company	Address	LPG	Status
1	121m NW	OBSOLETE	245, Dickenson Road, Rusholme, Manchester, Greater Manchester, M13 0YW	Not Applicable	Obsolete
B	432m S	TEXACO	691, Stockport Road, Longsight, Manchester, Greater Manchester, M12 4QN	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	3

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 33 >**

ID	Location	Address	Details	
A	272m NW	A & B Dry Cleaners, 100 Northmoor Road, Longsight, Manchester M12 5RS	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
4	440m NE	M And A Demolition UK Ltd, Nutsford Vale, Longsight, M12 5QJ	Process: Other Mineral Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
B	451m S	Crowcroft Serv Stn, Stockport Rd, M12 4QN	Process: Petrol Vapour Recovery Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m **0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m **3**

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 33 >**

ID	Location	Address	Details	
A	297m NW	MAD HATTER PUB, QUEENS GROVE, LONGSIGHT, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0290 Permit Version: 1 Receiving Water: GORE BROOK	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/01/1995
A	297m NW	MAD HATTER PUB, QUEENS GROVE, LONGSIGHT, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982724 Permit Version: 1 Receiving Water: GORE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 30/09/1994 Revocation Date: -

ID	Location	Address	Details	
A	305m NW	NORTHMOOR RD/GORE BRK, MANCHESTER, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01MAN0213 Permit Version: 1 Receiving Water: GORE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1995 Revocation Date: 25/10/1995

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	0

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

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

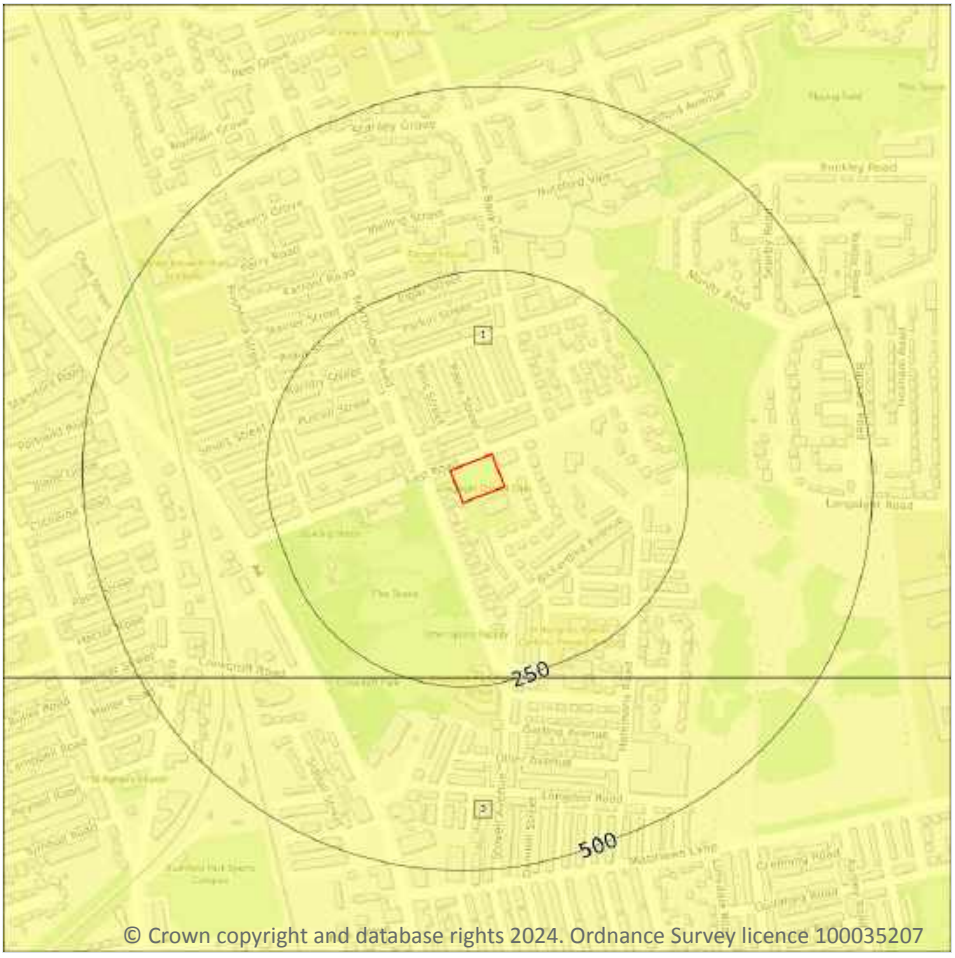
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	2

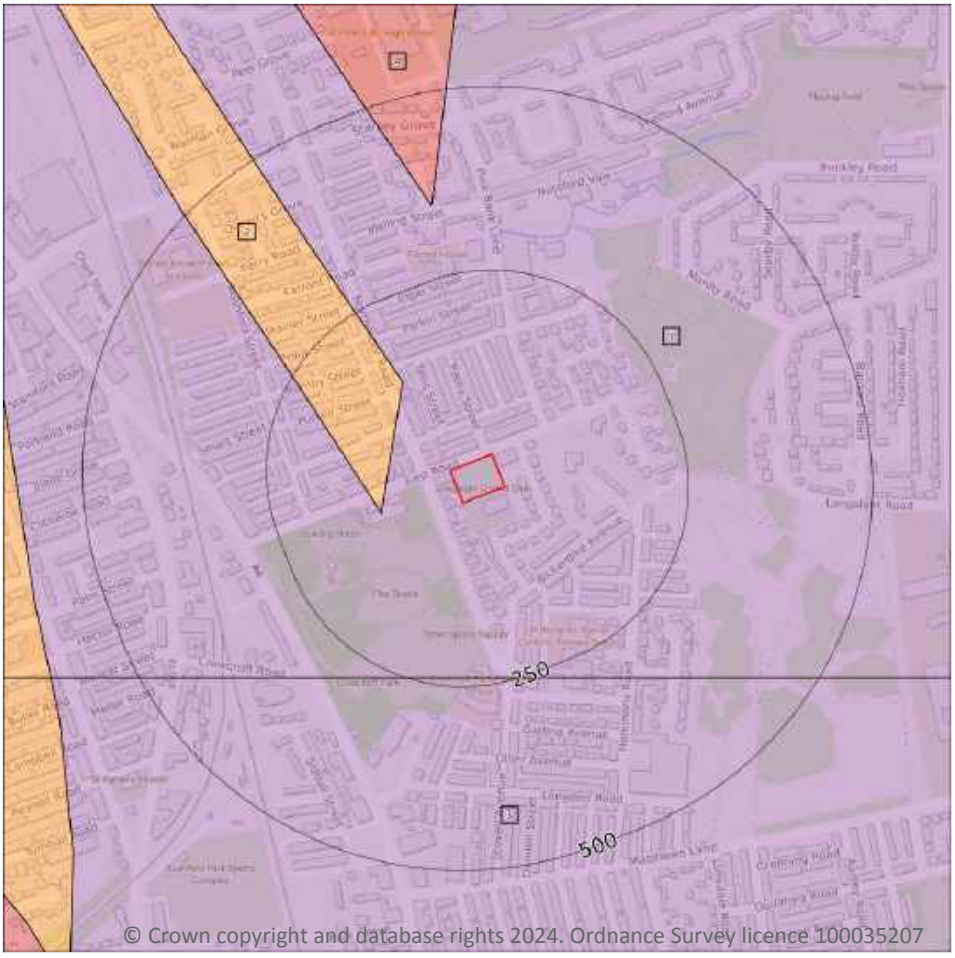
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 39 >**

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	238m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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.

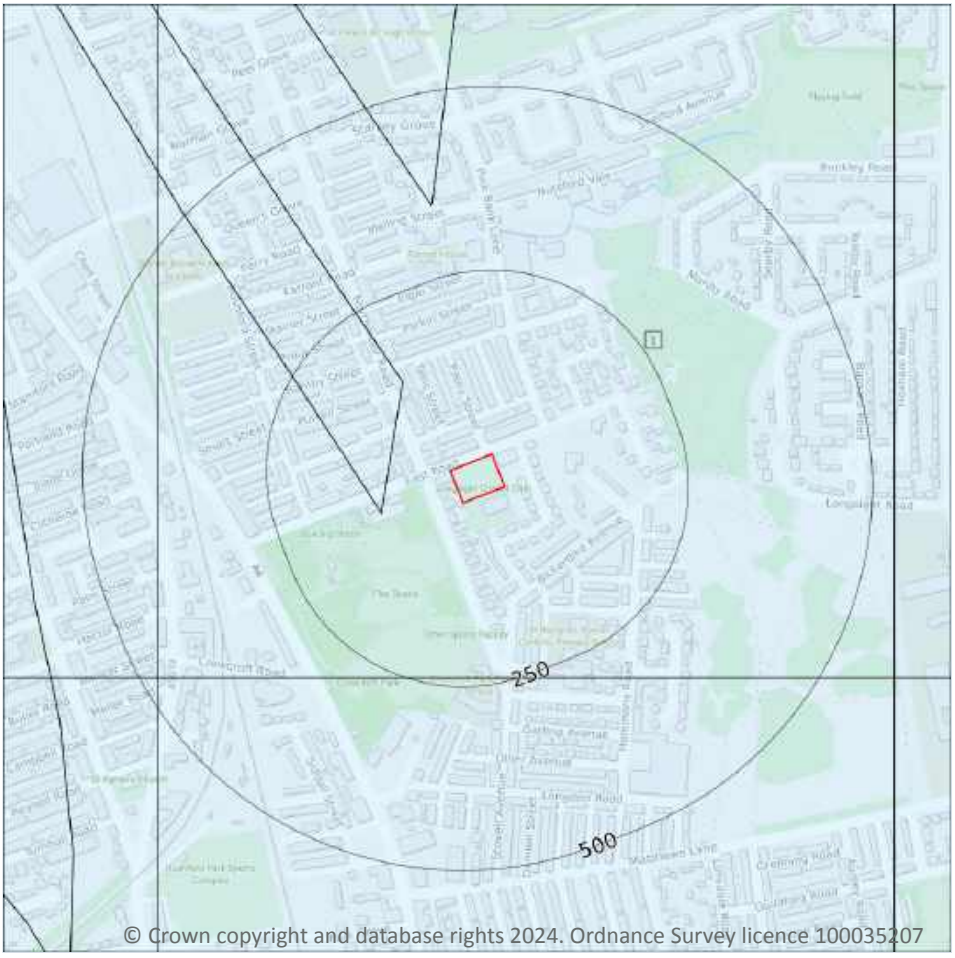
Features are displayed on the Bedrock aquifer map on **page 41 >**

ID	Location	Designation	Description
1	**On site**	**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**
2	83m W	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

ID	Location	Designation	Description
3	238m S	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
4	348m N	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability

- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

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

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

Features are displayed on the Groundwater vulnerability map on **page 43 >**

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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- 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	9

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 45 >**

ID	Location	Details	
A	601m N	Status: Historical Licence No: 2569006042 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE LEISURE CENTRE Data Type: Point Name: CLIVE BACK Easting: 387590 Northing: 395890	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 276 Original Application No: - Original Start Date: 11/07/2002 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 04/02/2009 Version End Date: -
A	603m N	Status: Historical Licence No: 2569006042 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE LEISURE CENTRE Data Type: Point Name: CLIVE BACK Easting: 387591 Northing: 395891	Annual Volume (m^3): 10000 Max Daily Volume (m^3): 276 Original Application No: - Original Start Date: 11/07/2002 Expiry Date: 31/03/2014 Issue No: 4 Version Start Date: 29/02/2012 Version End Date: -
A	603m N	Status: Historical Licence No: NW/069/0006/006 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE LEISURE CENTRE Data Type: Point Name: The Chief Operating Officer of the Eastlands Trust Easting: 387591 Northing: 395891	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 276 Original Application No: - Original Start Date: 16/05/2014 Expiry Date: 31/03/2016 Issue No: 1 Version Start Date: 16/05/2014 Version End Date: -
-	938m NE	Status: Historical Licence No: 2569006043 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: PERMO-TRIASSIC SANDSTONE AT BELLE VUE, MANCHESTER Data Type: Point Name: G R A LIMITED Easting: 387950 Northing: 396100	Annual Volume (m^3): 4000 Max Daily Volume (m^3): 22 Original Application No: - Original Start Date: 20/06/2003 Expiry Date: 31/03/2014 Issue No: 2 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1171m SE	Status: Historical Licence No: 2569013018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SANDFOLD LANE, LEVENSHULME, MANCHESTER" Data Type: Point Name: CBA ENTERPRISES LTD Easting: 388500 Northing: 394700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 29/03/1996 Version End Date: -
-	1171m SE	Status: Historical Licence No: 2569013018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT SANDFOLD LANE, LEVENSHULME, MANCHESTER Data Type: Point Name: CBA ENTERPRISES LTD Easting: 388500 Northing: 394700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 29/03/1996 Version End Date: -
-	1171m SE	Status: Historical Licence No: 2569013018 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT SANDFOLD LANE LEVENSHULME MANCHESTER Data Type: Point Name: CBA ENTERPRISES LTD Easting: 388500 Northing: 394700	Annual Volume (m^3): 117835 Max Daily Volume (m^3): 409 Original Application No: - Original Start Date: 18/06/1992 Expiry Date: - Issue No: 100 Version Start Date: 29/03/1996 Version End Date: -
-	1678m N	Status: Active Licence No: NW/069/0004/012 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PRESTON STREET, MANCHESTER Data Type: Point Name: Cemex UK Materials Limited Easting: 388030 Northing: 396880	Annual Volume (m^3): 7500 Max Daily Volume (m^3): 72 Original Application No: NPS/WR/030760A Original Start Date: 19/06/2014 Expiry Date: 31/03/2027 Issue No: 2 Version Start Date: 21/12/2018 Version End Date: -

ID	Location	Details	
-	1678m N	Status: Historical Licence No: 2569006044 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PRESTON STREET, GORTON, MANCHESTER Data Type: Point Name: CEMEX UK MATERIALS LTD Easting: 388030 Northing: 396880	Annual Volume (m^3): 15000 Max Daily Volume (m^3): 115 Original Application No: - Original Start Date: 23/10/2003 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 15/10/2007 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	**0**

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

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

5.9 Source Protection Zones

Records within 500m	**0**

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 50 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River**	**Platt Brook (Source to Fallowfield Bk)**	**GB112069061060**	**Bollin Dean Mersey Upper**	**Mersey Upper**

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 50 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	274m N	River	Platt Brook (Source to Fallowfield Bk)	GB112069061060 ↗	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 50 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	**On site**	**Manchester and East Cheshire Permo-Triassic Sandstone Aquifers**	**GB41201G101100** ↗	**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**

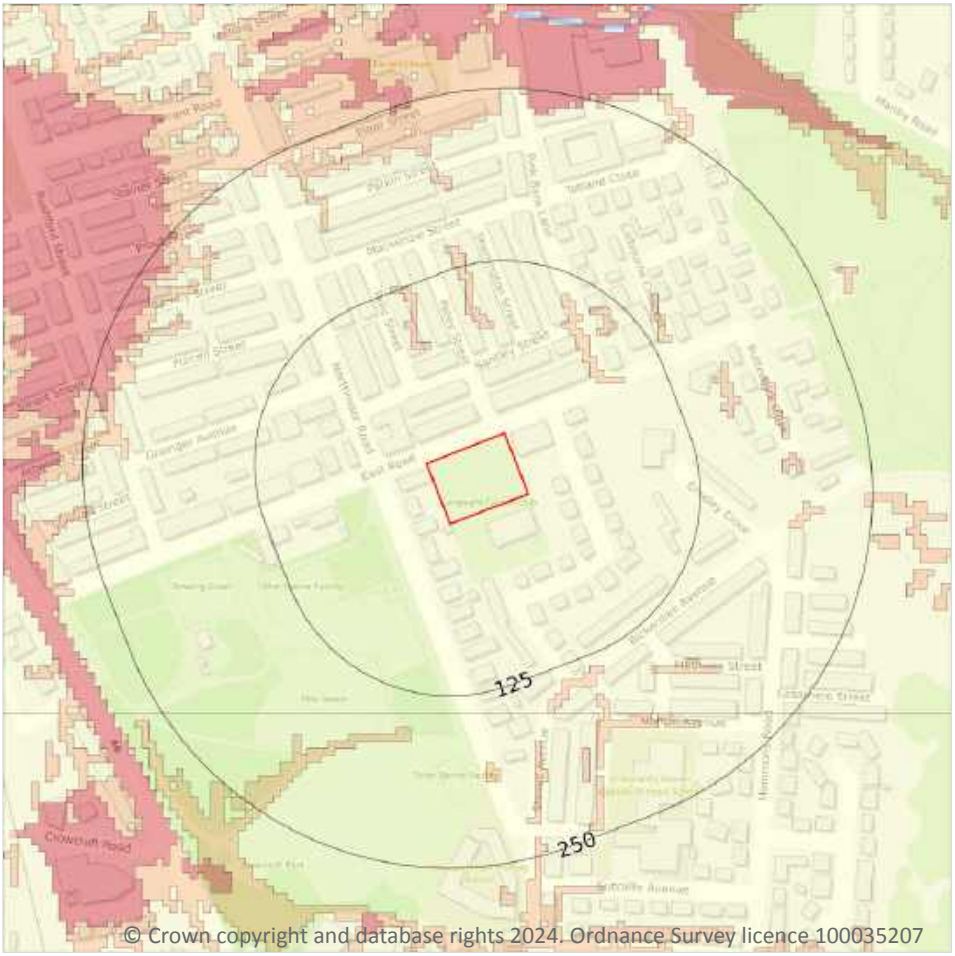
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year 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



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 57 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 58 >**

ID	Location	Name	Data source
1	1503m SE	Highfield Country Park	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	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	0

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

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 63 >**

ID	Location	Type of developments requiring consultation
1	On site	**Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 4000m². Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

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

Features are displayed on the Agricultural designations map on **page 67 >**

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



Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	7

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

Features are displayed on the Habitat designations map on **page 69 >**

ID	Location	Main Habitat	Other habitats
1	102m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	113m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	148m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	194m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	203m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	224m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	244m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	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 71 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SJ89NE**
2	238m S	Full	Full	Full	No coverage	SJ89SE

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	13

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.

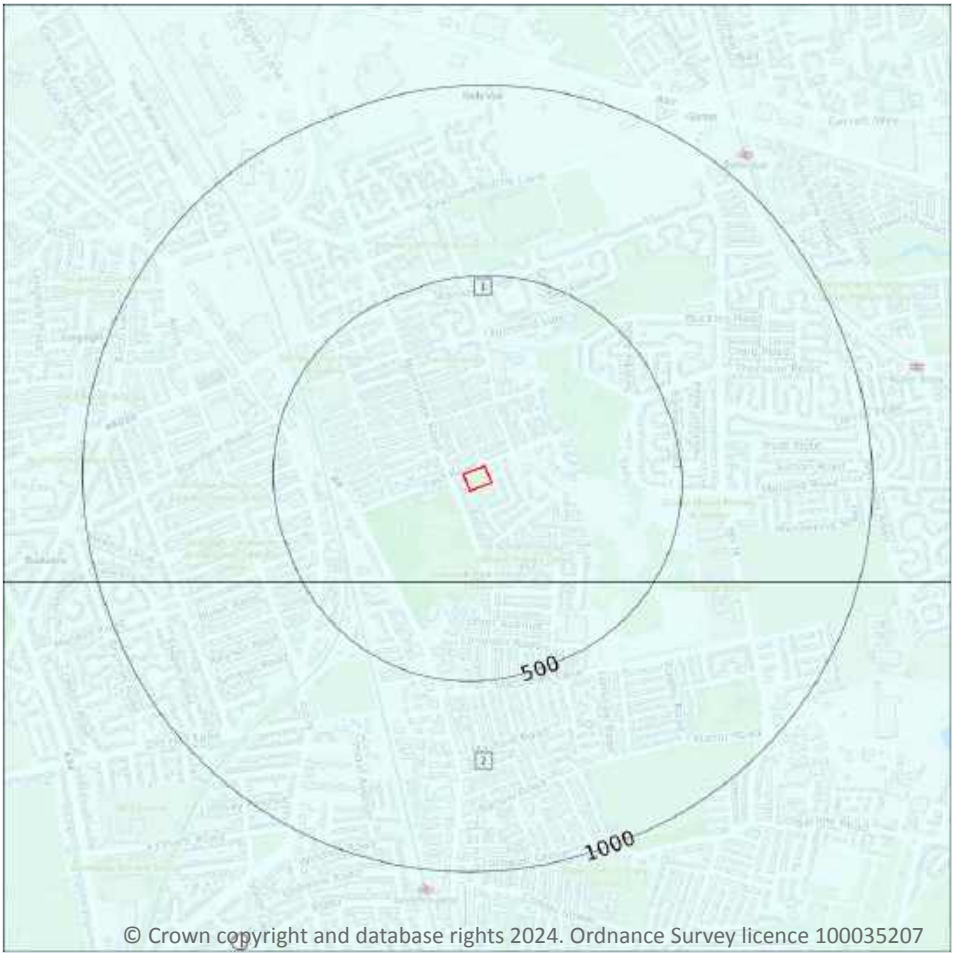
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 72 >**

ID	Location	LEX Code	Description	Rock description
1	3m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	99m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	221m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	221m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
A	315m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	336m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	351m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	364m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	367m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
8	371m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	433m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	491m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
10	495m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m **2**

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 74 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
2	238m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

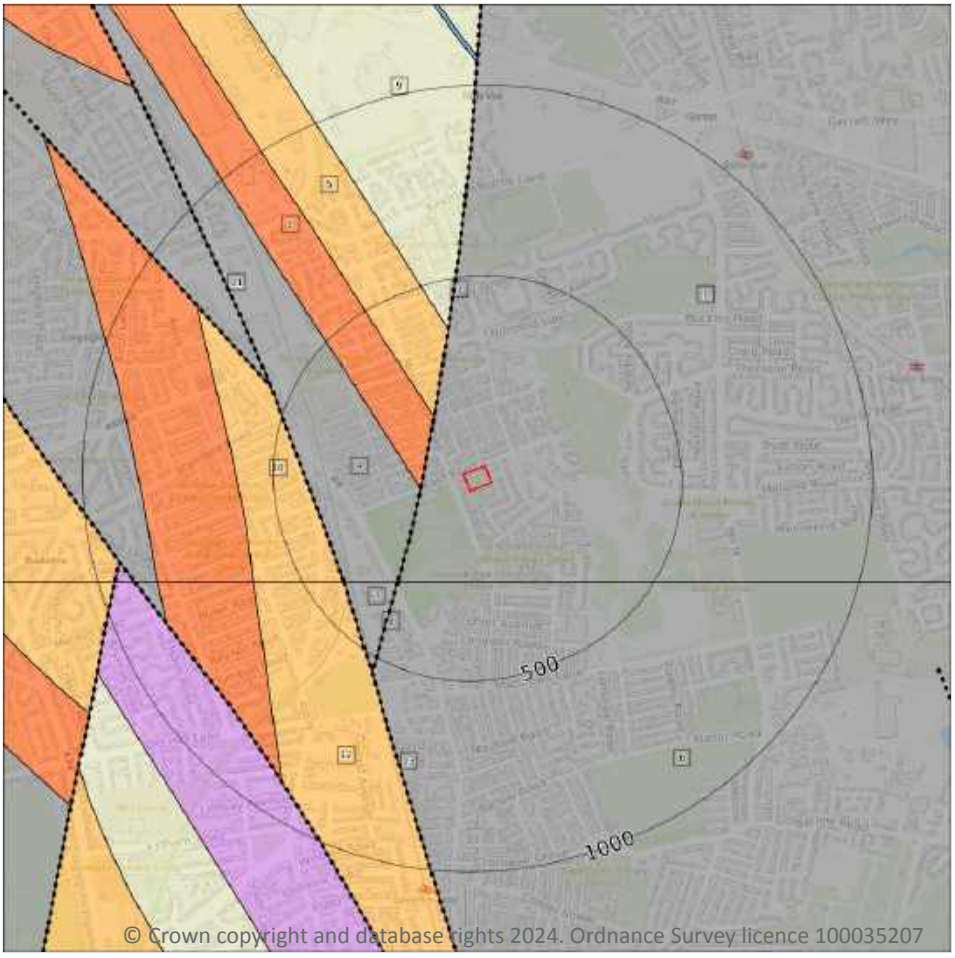
14.4 Landslip (10k)

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	9

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 76 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CPB-SDST**	**Chester Pebble Beds Formation - Sandstone**	**Early Triassic Epoch**
2	103m W	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]
4	119m W	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch

ID	Location	LEX Code	Description	Rock age
5	170m NW	CS-SDST	Collyhurst Sandstone Formation - Sandstone	Cisuralian Epoch
6	238m S	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
7	304m SW	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
9	371m N	HA-MDSS	Halesowen Formation - Mudstone, Siltstone And Sandstone	Westphalian D Sub-age
10	391m W	CS-SDST	Collyhurst Sandstone Formation - Sandstone	Cisuralian Epoch
12	408m SW	CS-SDST	Collyhurst Sandstone Formation - Sandstone	Cisuralian 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 76 >**

ID	Location	Category	Description
3	103m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	304m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	391m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
13	408m SW	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

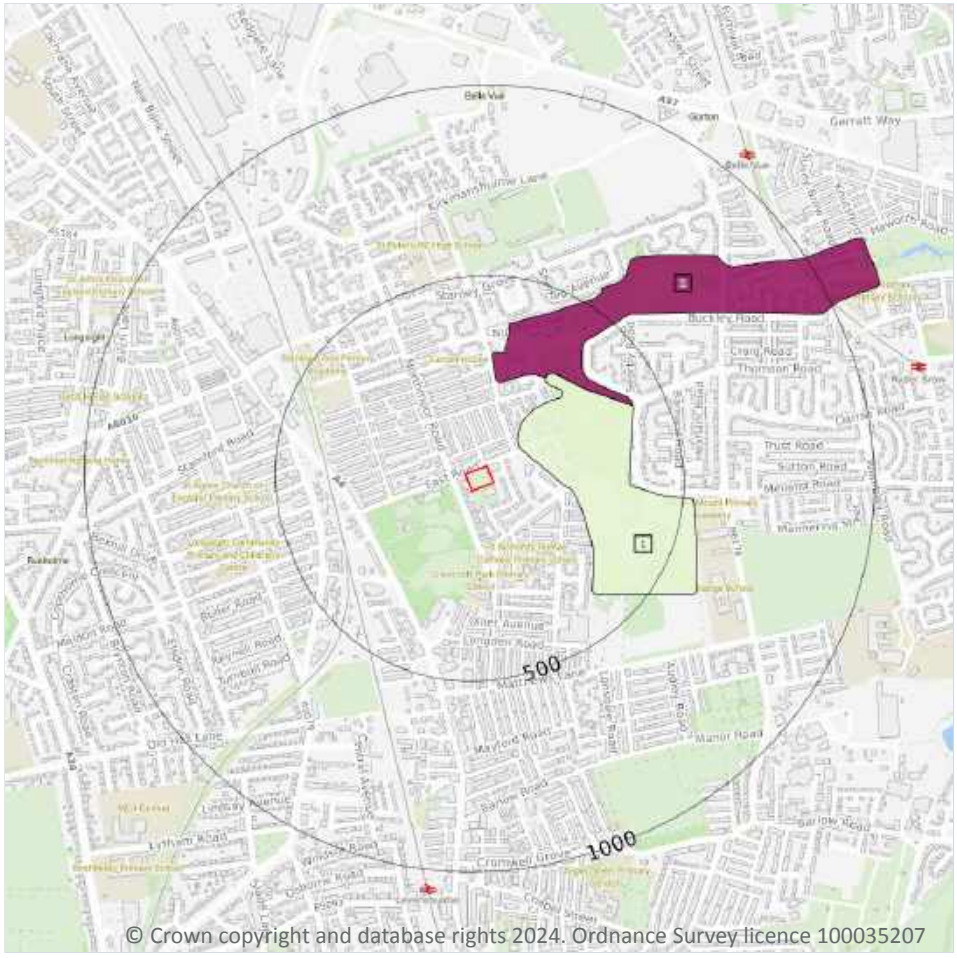
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 78 >**

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	2

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 79 >**

ID	Location	LEX Code	Description	Rock description
1	99m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	222m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

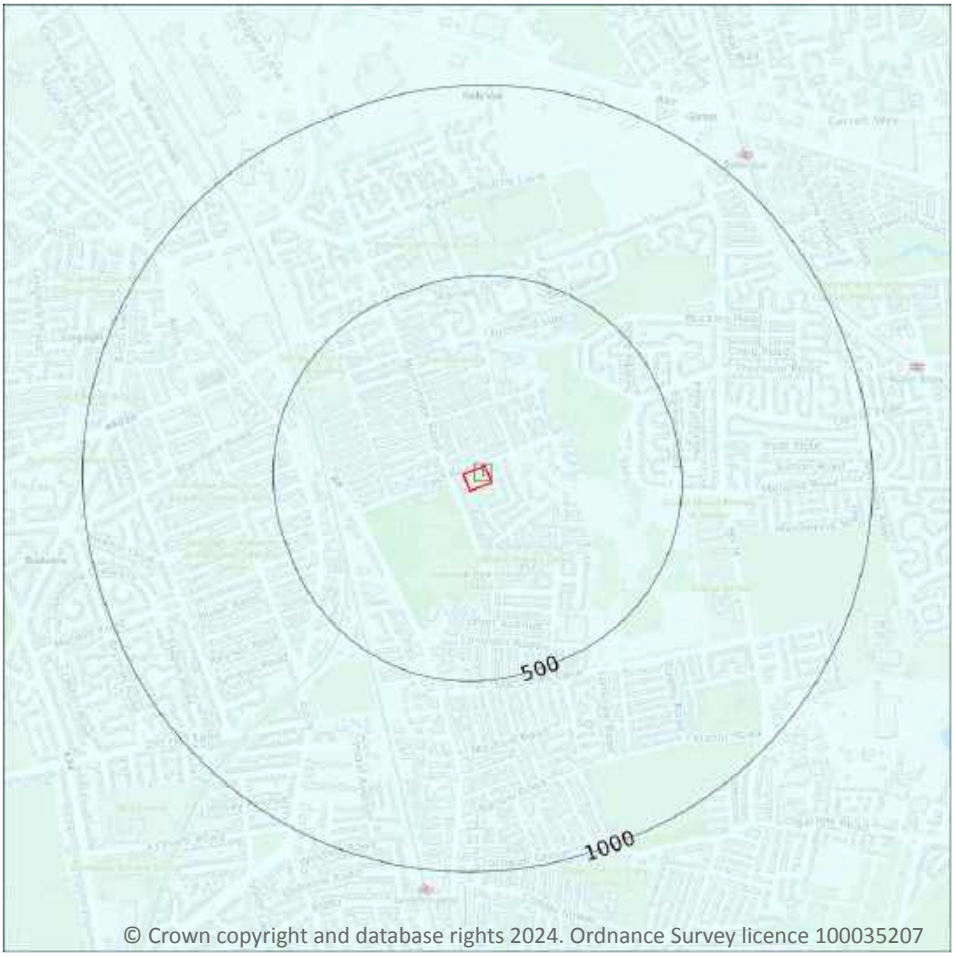
15.3 Artificial ground permeability (50k)

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 **1**

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 81 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

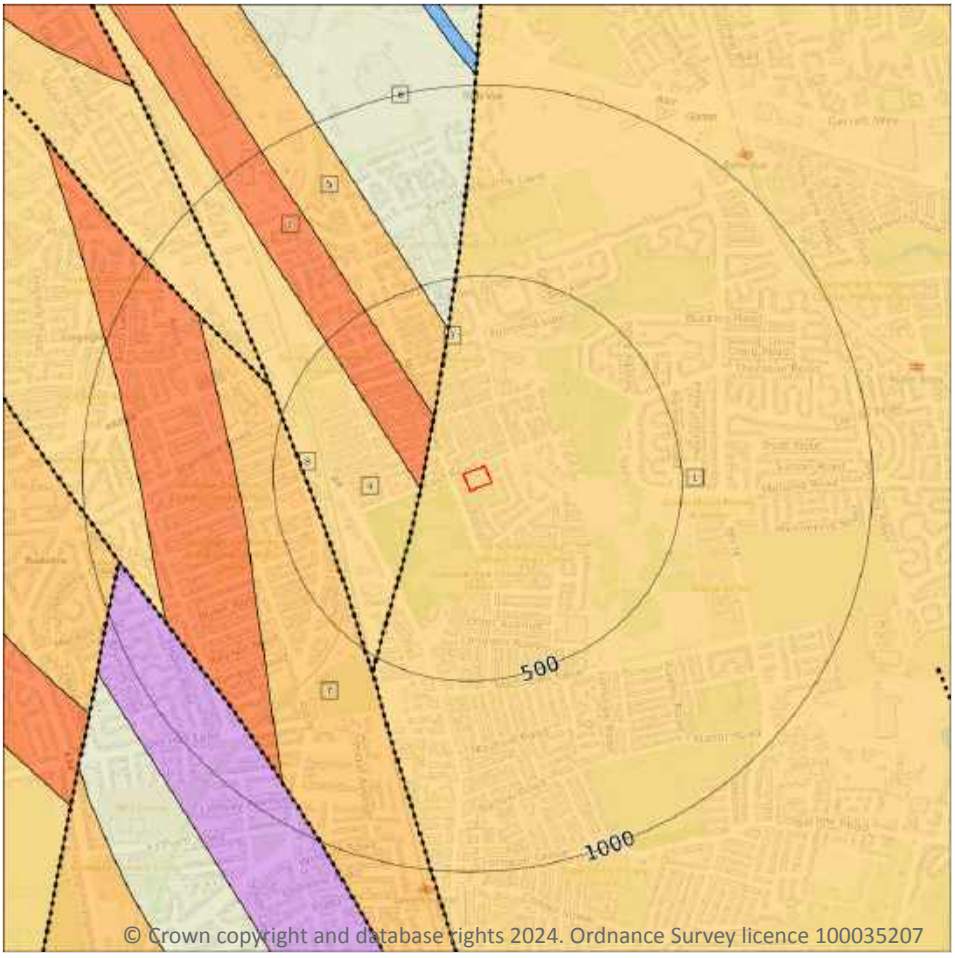
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m **6**

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 83 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CHES-SDST**	**CHESTER FORMATION - SANDSTONE**	**OLENEKIAN**
2	104m W	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
4	120m W	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
5	171m NW	CS-SDST	COLLYHURST SANDSTONE FORMATION - SANDSTONE	-

ID	Location	LEX Code	Description	Rock age
6	371m N	HA-MDSS	HALESOWEN FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	391m W	CS-SDST	COLLYHURST SANDSTONE FORMATION - SANDSTONE	-

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	**2**

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 83 >**

ID	Location	Category	Description
3	104m W	FAULT	Fault, inferred
8	391m W	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	1

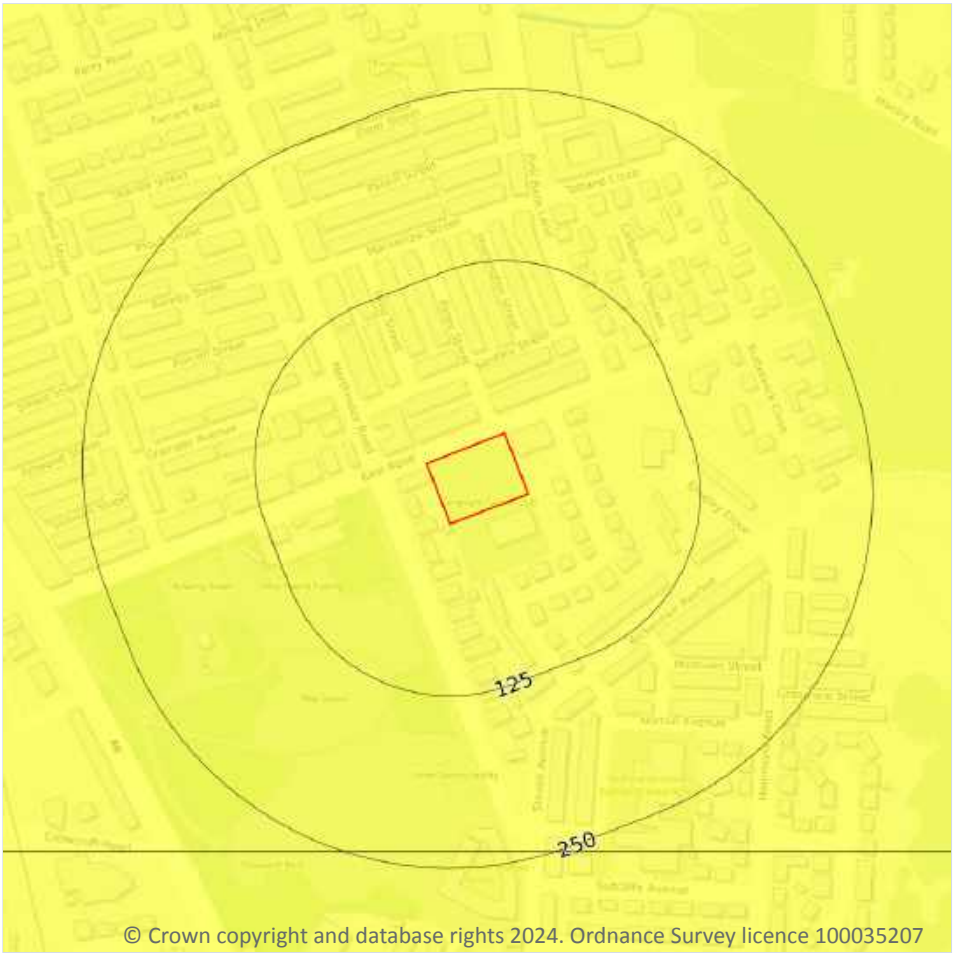
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several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

Features are displayed on the Boreholes map on **page 85 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	163m NW	387310 395420	STANLEY GROVE (S & T SEWER) 3	8.05	N	937139 ↗

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

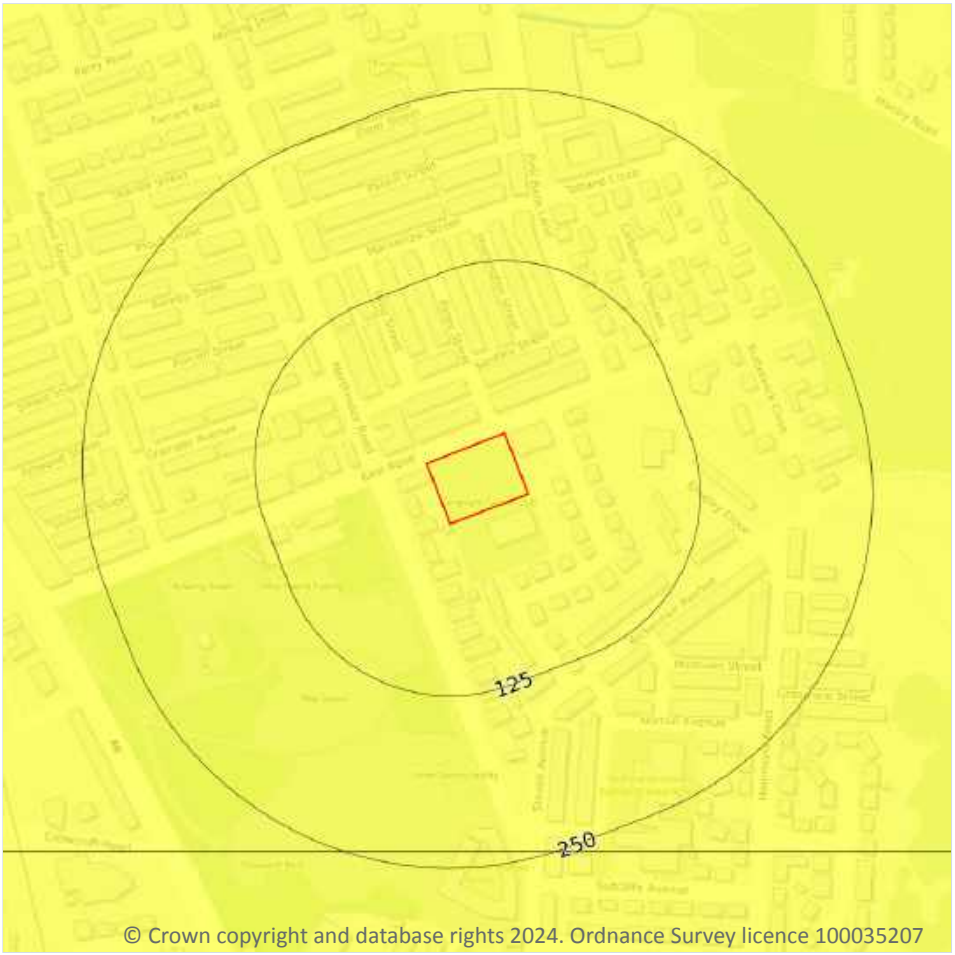
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 86 >**

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

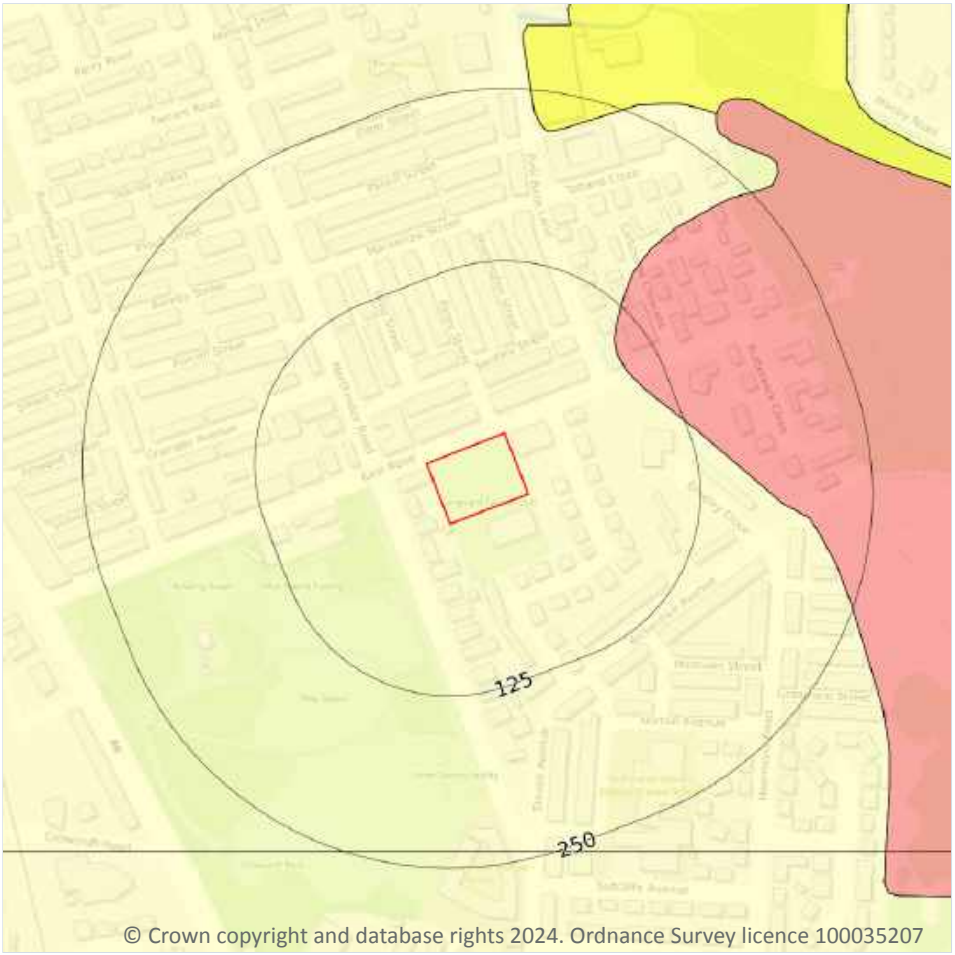
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 87 >**

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

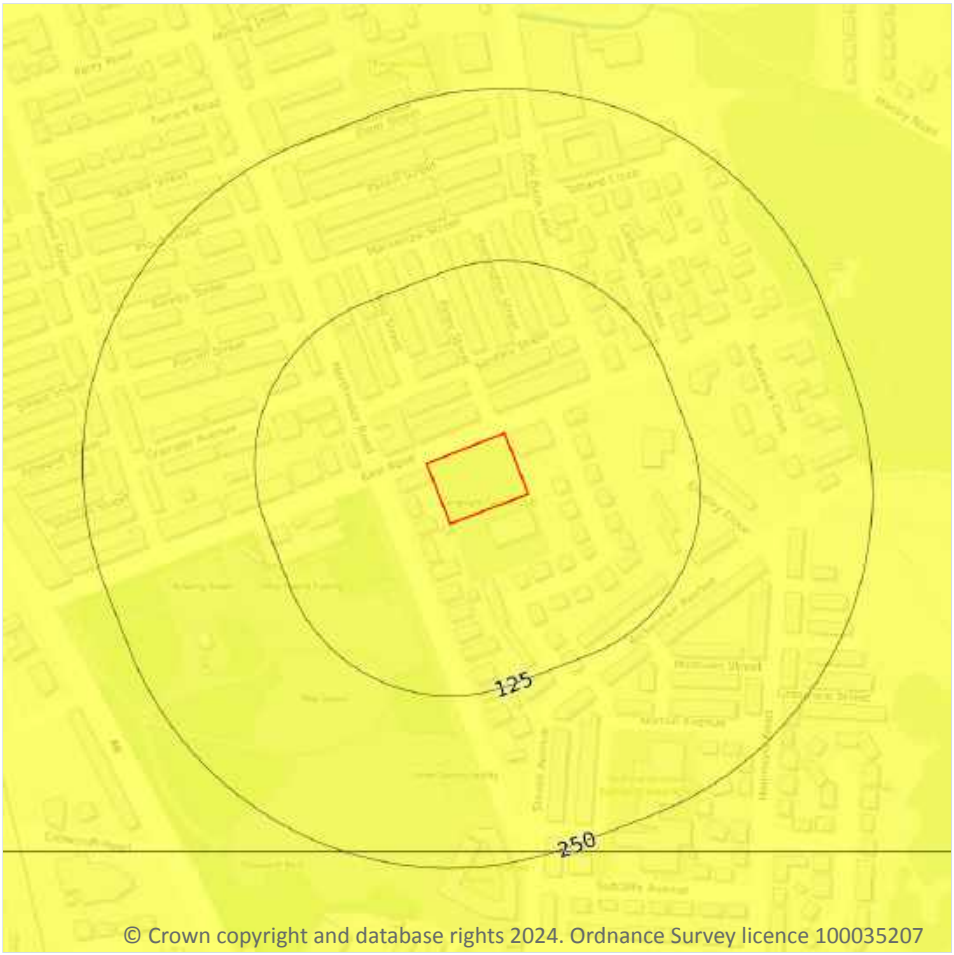
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 88 >**

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

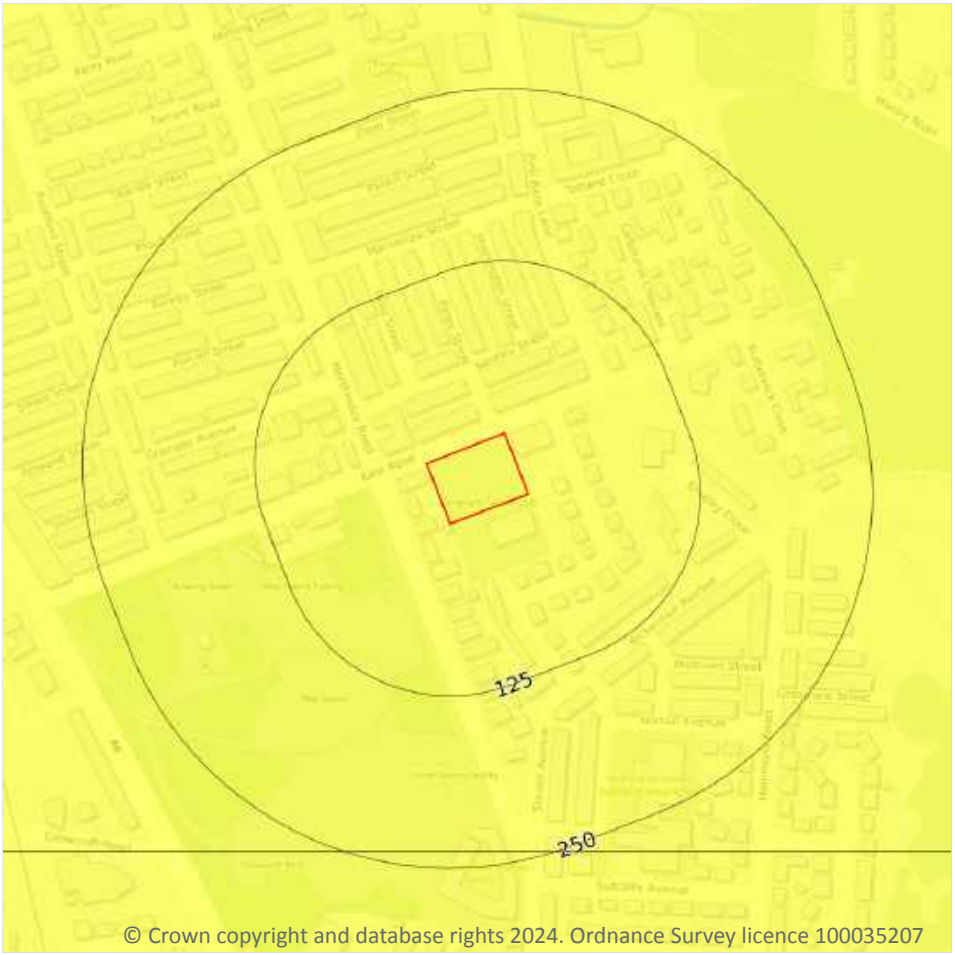
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 89 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	1

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

Features are displayed on the Natural ground subsidence - Landslides map on **page 90 >**

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 91 >**

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



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Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	1

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

Features are displayed on the Mining and ground workings map on **page 93 >**

ID	Location	Details	Description
A	237m NE	Name: Gorton Brick Works Address: Gorton, MANCHESTER, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **39**

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

Features are displayed on the Mining and ground workings map on **page 93 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	11m N	Brick Works	1905	1:10560
1	11m N	Pond	1905	1:10560
2	32m SW	Pond	1848	1:10560
3	47m NW	Pond	1905	1:10560
A	79m NE	Brick Works	1938	1:10560
A	79m NE	Brick Works	1934	1:10560
A	79m NE	Brick Works	1915	1:10560
A	82m NE	Brick Works	1923	1:10560
A	86m NE	Brick Works	1968	1:10560
A	86m NE	Brick Work	1956	1:10560
A	87m NE	Brick Works	1981	1:10000
B	88m NW	Brick Field	1890	1:10560
A	96m NE	Sand Pit	1923	1:10560
A	96m NE	Refuse Heap	1915	1:10560
B	131m W	Unspecified Pit	1890	1:10560
4	140m SE	Ponds	1905	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
A	148m NE	Refuse Heap	1938	1:10560
A	148m NE	Refuse Heap	1934	1:10560
A	154m NE	Unspecified Pit	1905	1:10560
5	156m S	Pond	1848	1:10560
A	165m E	Pond	1905	1:10560
C	171m E	Clay Pit	1938	1:10560
C	171m E	Clay Pit	1934	1:10560
6	176m N	Unspecified Heap	1905	1:10560
7	180m E	Pond	1905	1:10560
A	192m E	Refuse Heap	1968	1:10560
A	192m E	Refuse Heap	1956	1:10560
8	194m SW	Pond	1848	1:10560
A	210m NE	Ponds	1934	1:10560
A	219m NE	Pond	1968	1:10560
A	219m NE	Pond	1956	1:10560
D	227m NE	Pond	1938	1:10560
D	227m NE	Pond	1934	1:10560
A	228m NE	Pond	1981	1:10000
E	232m E	Clay Pit	1968	1:10560
E	232m E	Clay Pit	1981	1:10000
E	232m E	Unspecified Pit	1956	1:10560
F	249m NE	Unspecified Pit	1938	1:10560
F	249m NE	Unspecified Pit	1934	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This 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	2

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

Features are displayed on the Mining and ground workings map on **page 93 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
A	85m NE	East Road	Brickearth, clay, bricks	Surface mineral working	Valid	16/9/47
9	213m E	Nelstrop Road	Brick clay	Surface mineral working	Valid	21/10/47

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	2

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 93 >**

ID	Location	Name	Commodity	Class	Likelihood
15	821m SW	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.
-	901m W	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 enquiries.gs@jpb.co.uk ↗.**

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	**0**

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

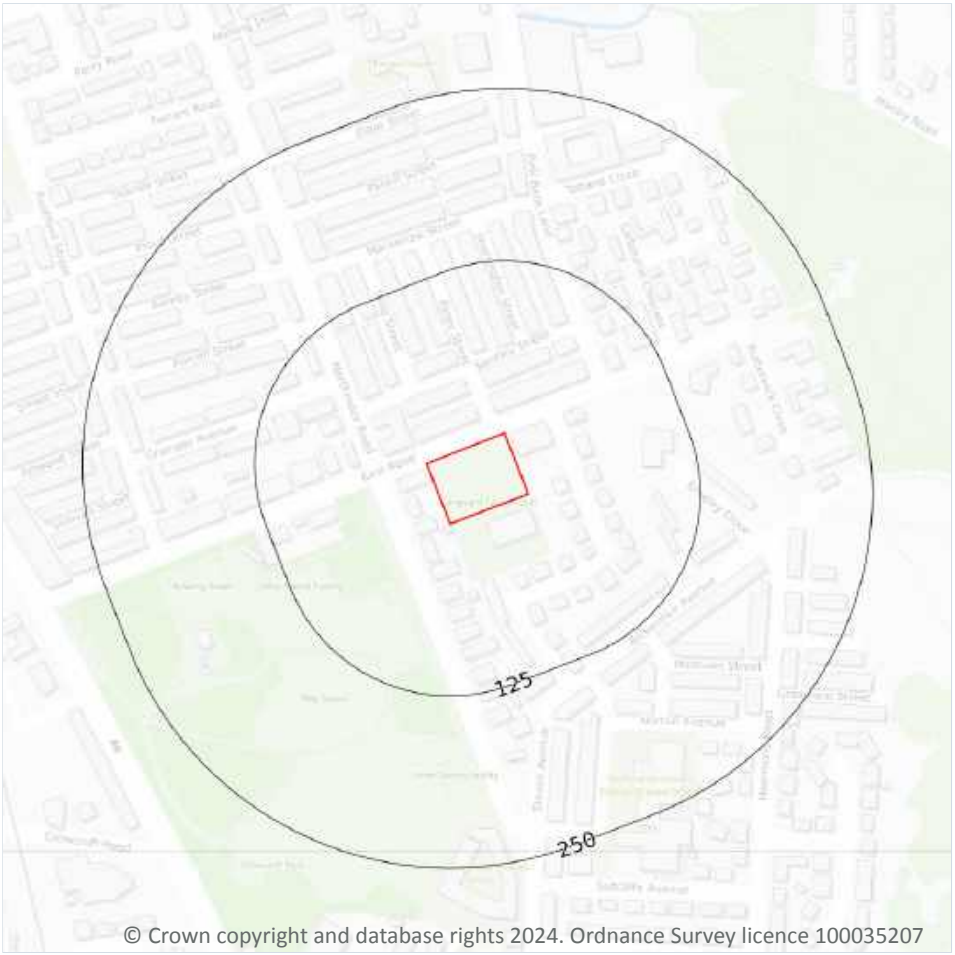
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 102 >**

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	2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. 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^2; 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**	**15 - 30 mg/kg**
30m E	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	8

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

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	**25**	**4.4**	**41**	**28**	**0.3**	**80**	**12**	**38**	**3**
On site	**27**	**4.7**	**42**	**29**	**0.3**	**80**	**12**	**39**	**3**
On site	**32**	**5.6**	**34**	**23**	**0.3**	**78**	**20**	**40**	**3**
16m NW	29	5.1	34	23	0.3	78	20	39	3
30m E	22	3.8	43	30	0.3	85	15	40	4
38m S	26	4.6	43	30	0.3	81	13	39	4

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)
40m SW	30	5.3	35	24	0.3	79	20	40	3
42m NE	22	3.8	40	27	0.3	83	13	38	3

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^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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- Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	27

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 106 >**

Location	Land Use	Year of mapping	Mapping scale
145m N	Tramway Sidings	1933	2500
145m N	Railway Sidings	1938	10560
150m N	Tramways Sidings	1950	1250
150m N	Tramways Sidings	1950	2500
152m N	Tramway Sidings	1956	10560
153m N	Railway Sidings	1934	10560
157m N	Tramway Sidings	1950	1250
160m NE	Railway Sidings	1968	10560
167m NE	Railway Sidings	1923	10560
169m NE	Tramway Sidings	1950	1250
169m NE	Tramways Sidings	1950	2500
179m NE	Railway Sidings	1905	10560
183m NE	Railway Sidings	1915	10560
185m N	Tramway Sidings	1950	2500
186m NE	Tramway Sidings	1933	2500
189m N	Tramway Sidings	1950	1250
190m NE	Tramway Sidings	1938	10560

Location	Land Use	Year of mapping	Mapping scale
190m NE	Tramway Sidings	1934	10560
218m NE	Tramways Sidings	1950	2500
220m NE	Tramway Sidings	1950	1250
223m NE	Tramway Sidings	1950	2500
224m NE	Tramway Sidings	1950	1250
224m NE	Tramway Sidings	1968	1250
226m NE	Tramway Sidings	1953	1250
226m NE	Tramway Sidings	1950	1250
238m NE	Tramway Sidings	1953	1250
238m NE	Tramway Sidings	1950	1250

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	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.

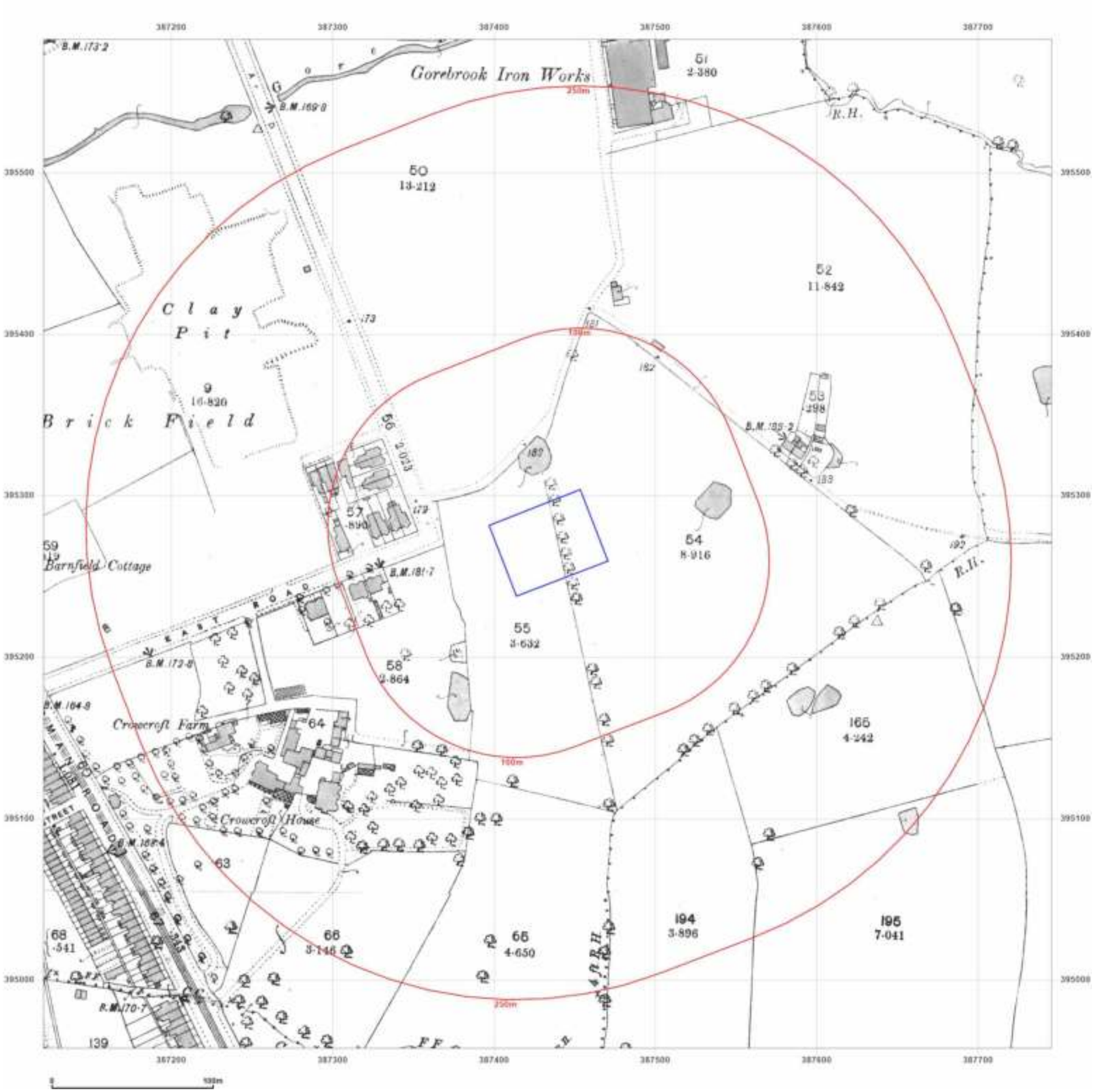
This data is sourced from HS2 ltd.

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 ↗.

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Groundsure INSIGHTS

Site Details:

LONGSIGHT CRICKET CLUB, 84,
EAST ROAD, LONGSIGHT,
MANCHESTER, M12 5GZ

Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

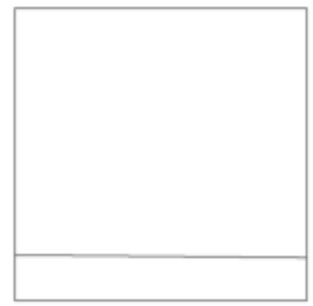
Map Name: County Series

Map date: **1893**

Scale: 1:2,500

Printed at: 1:2,500

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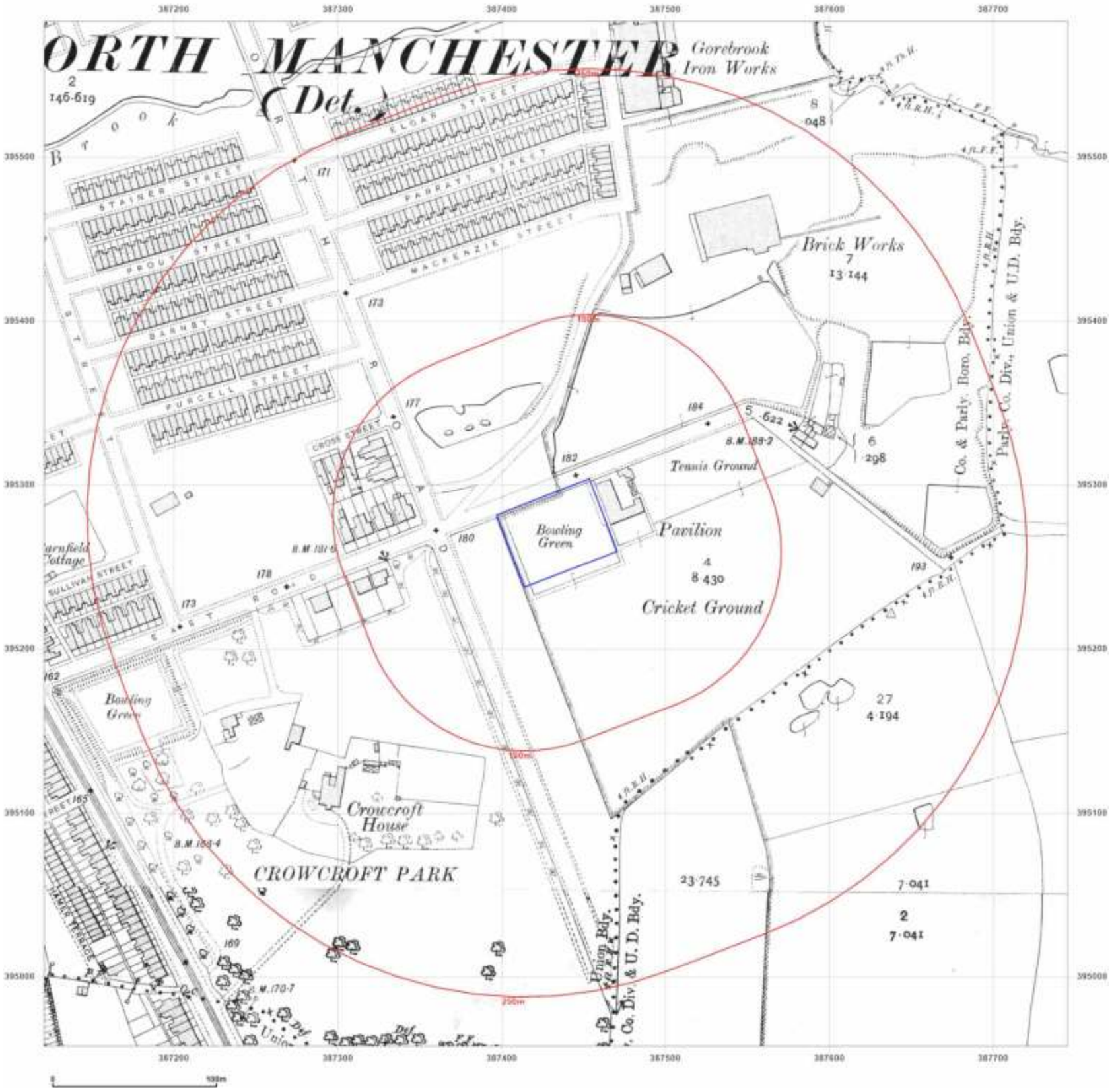
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Site Details:

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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series
Map date: **1907-1908**
Scale: 1:2,500
Printed at: 1:2,500

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

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

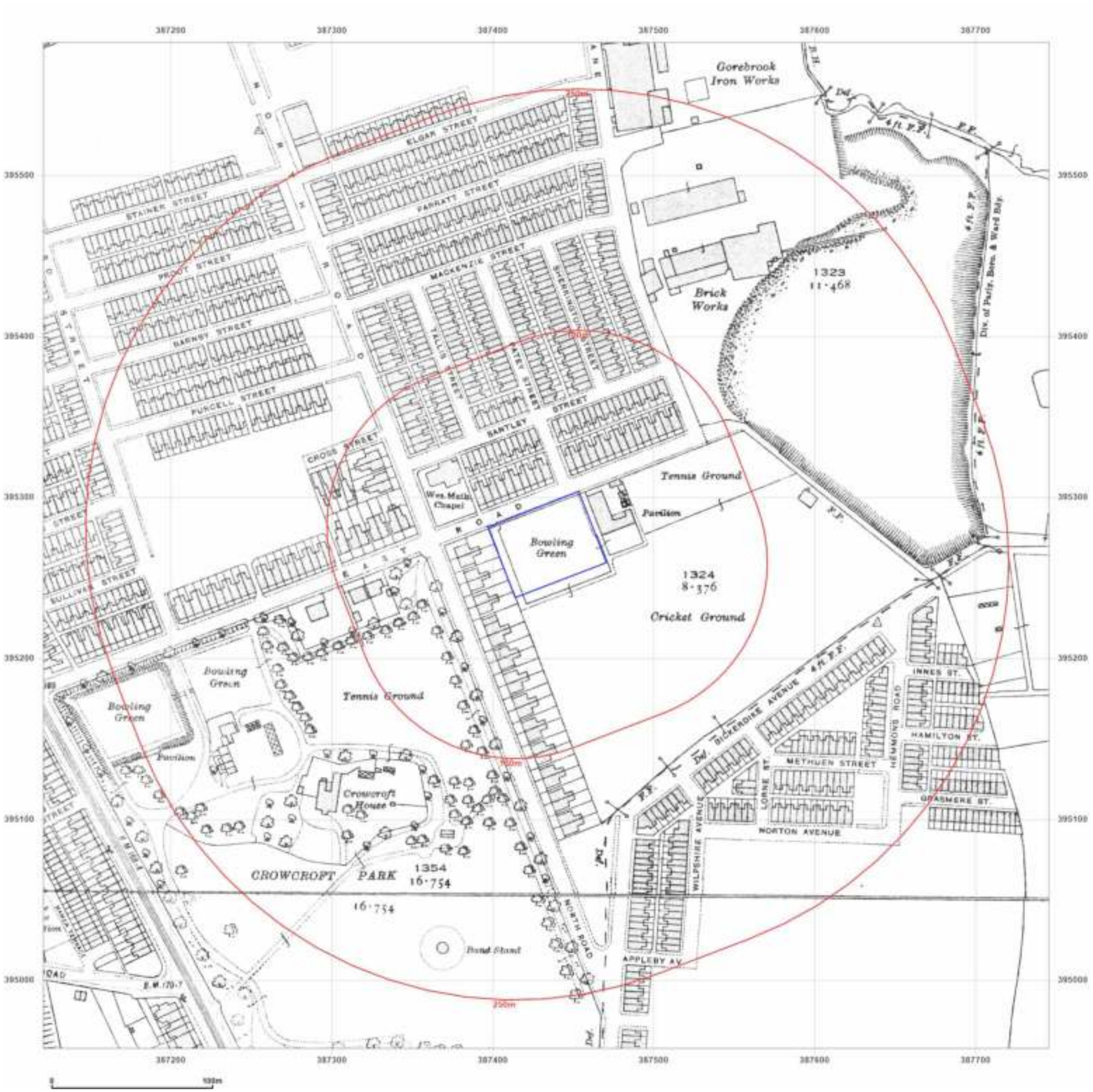
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Site Details:

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MANCHESTER, M12 5GZ

Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

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Edition N/A
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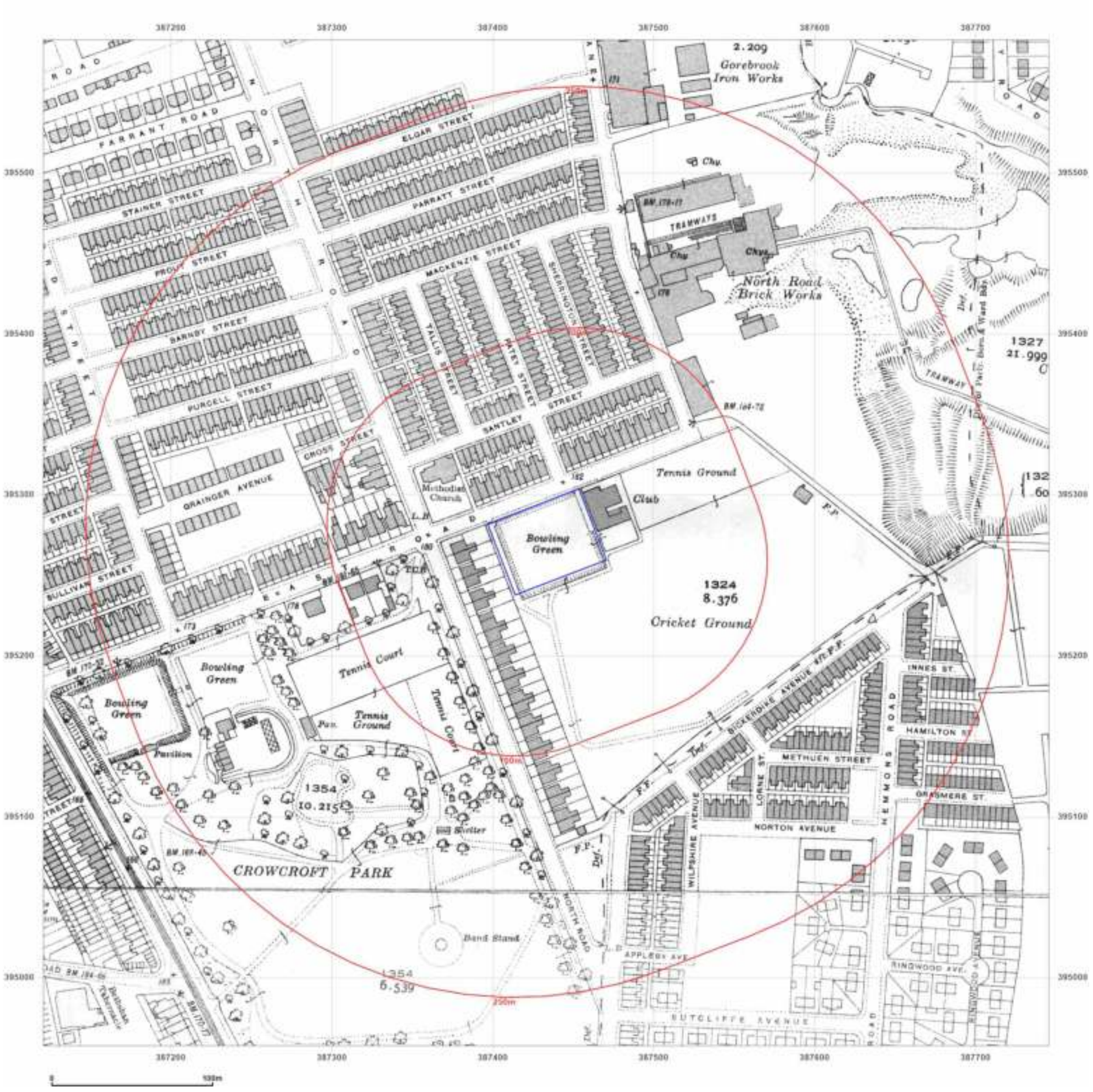
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MANCHESTER, M12 5GZ

Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1933**

Scale: 1:2,500

Printed at: 1:2,500

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

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

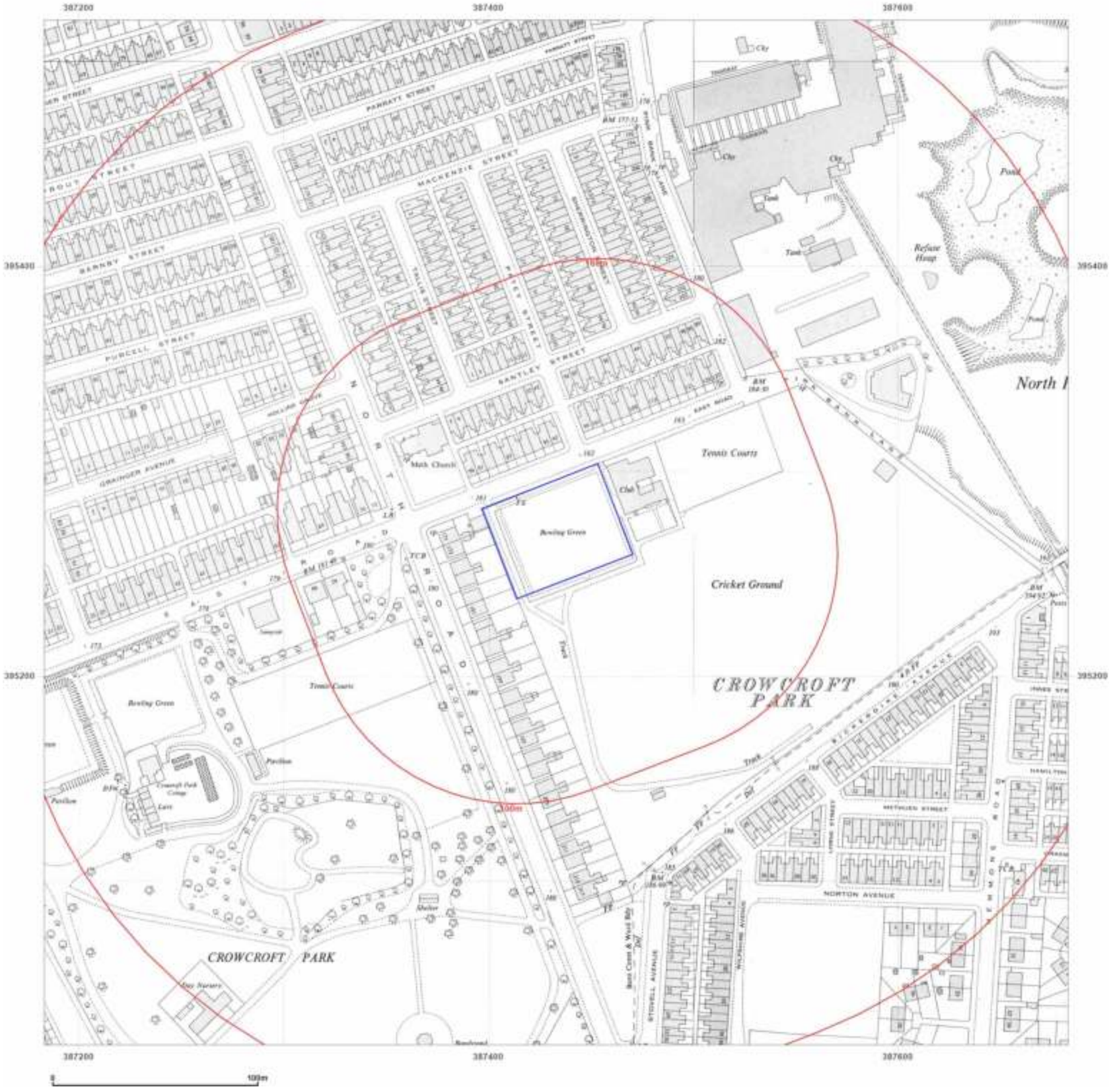
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1950**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed 1950
Revised 1950
Edition N/A
Copyright N/A
Levelled 1928

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

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

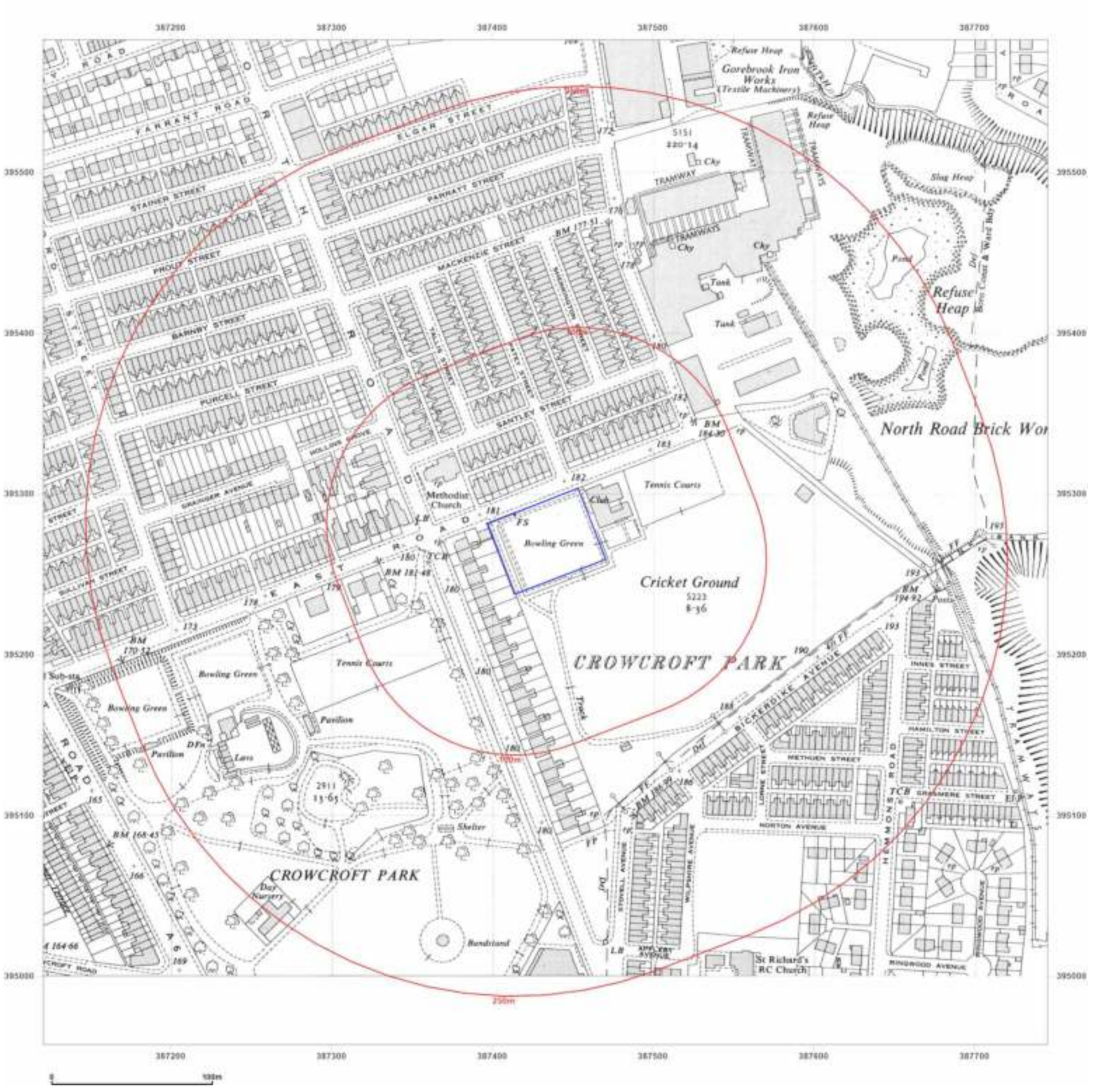
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1950**

Scale: 1:2,500

Printed at: 1:2,500

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

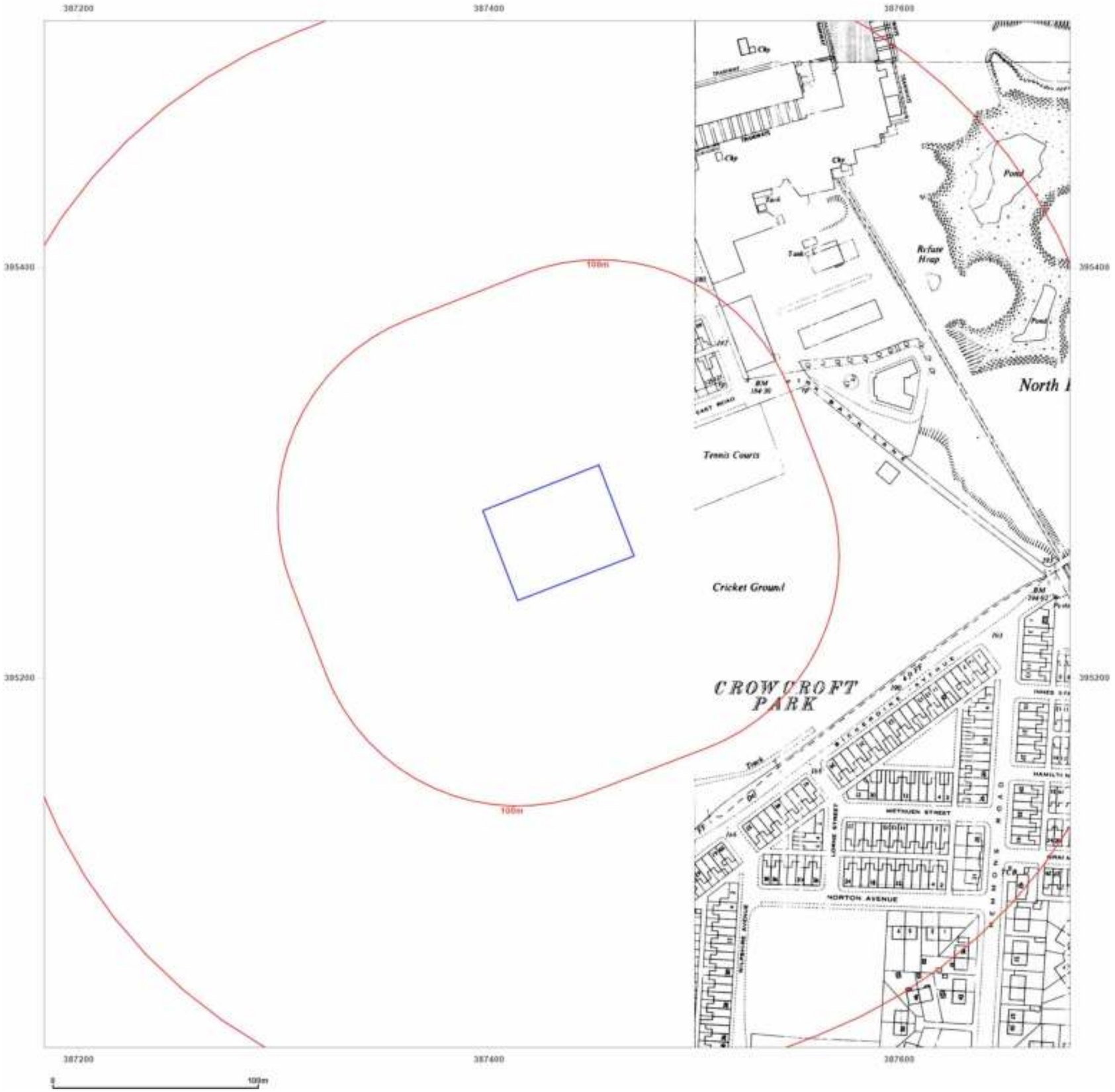
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **1951**
Scale: 1:1,250
Printed at: 1:2,000

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

Surveyed N/A
Revised N/A
Edition N/A
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **1968-1972**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1950
Revised 1968
Edition N/A
Copyright 1968
Levelled 1964

Surveyed 1950
Revised 1972
Edition N/A
Copyright 1972
Levelled 1964

Surveyed 1950
Revised 1968
Edition N/A
Copyright 1968
Levelled 1964

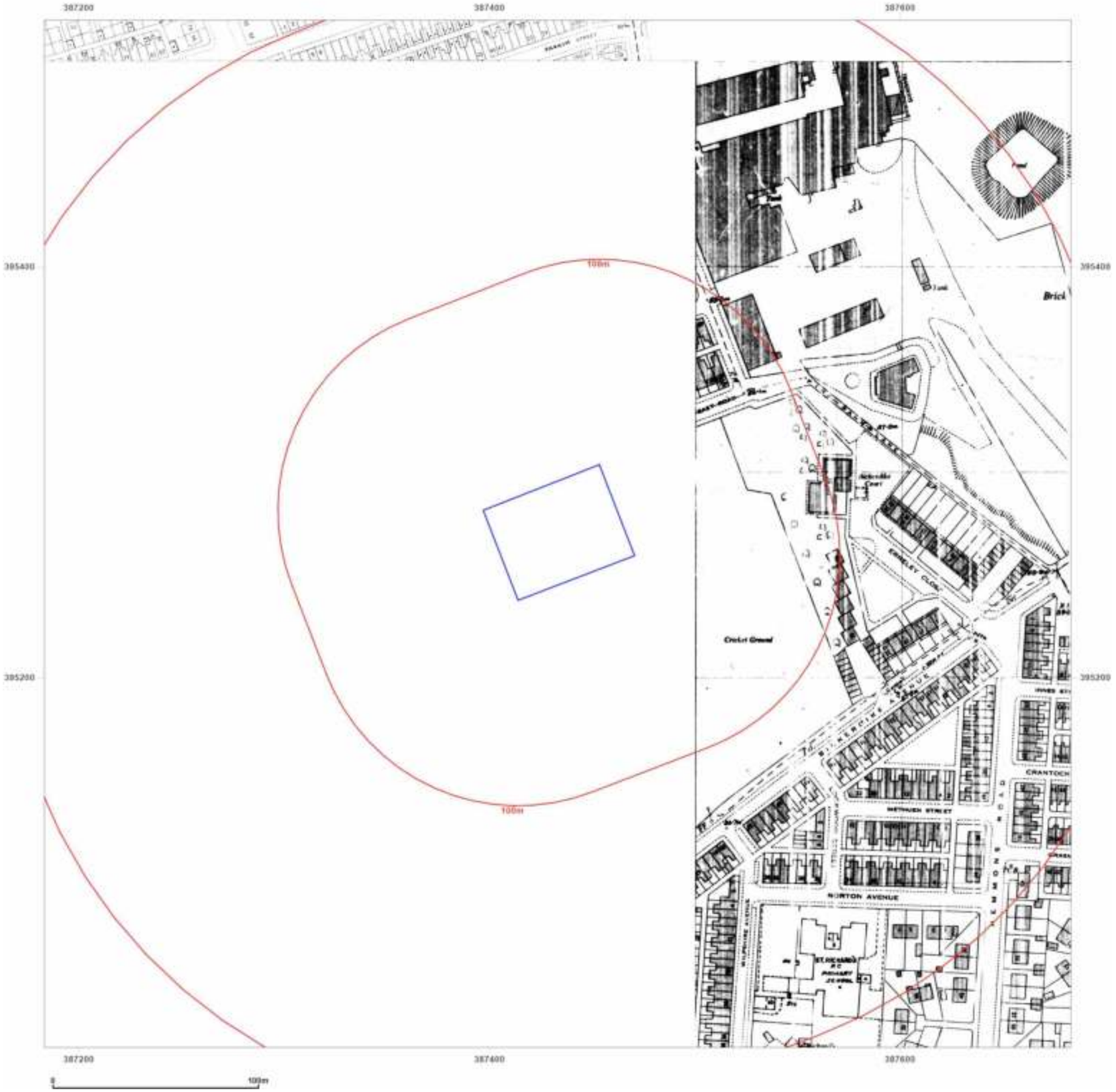
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **1978-1980**
Scale: 1:1,250
Printed at: 1:2,000

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



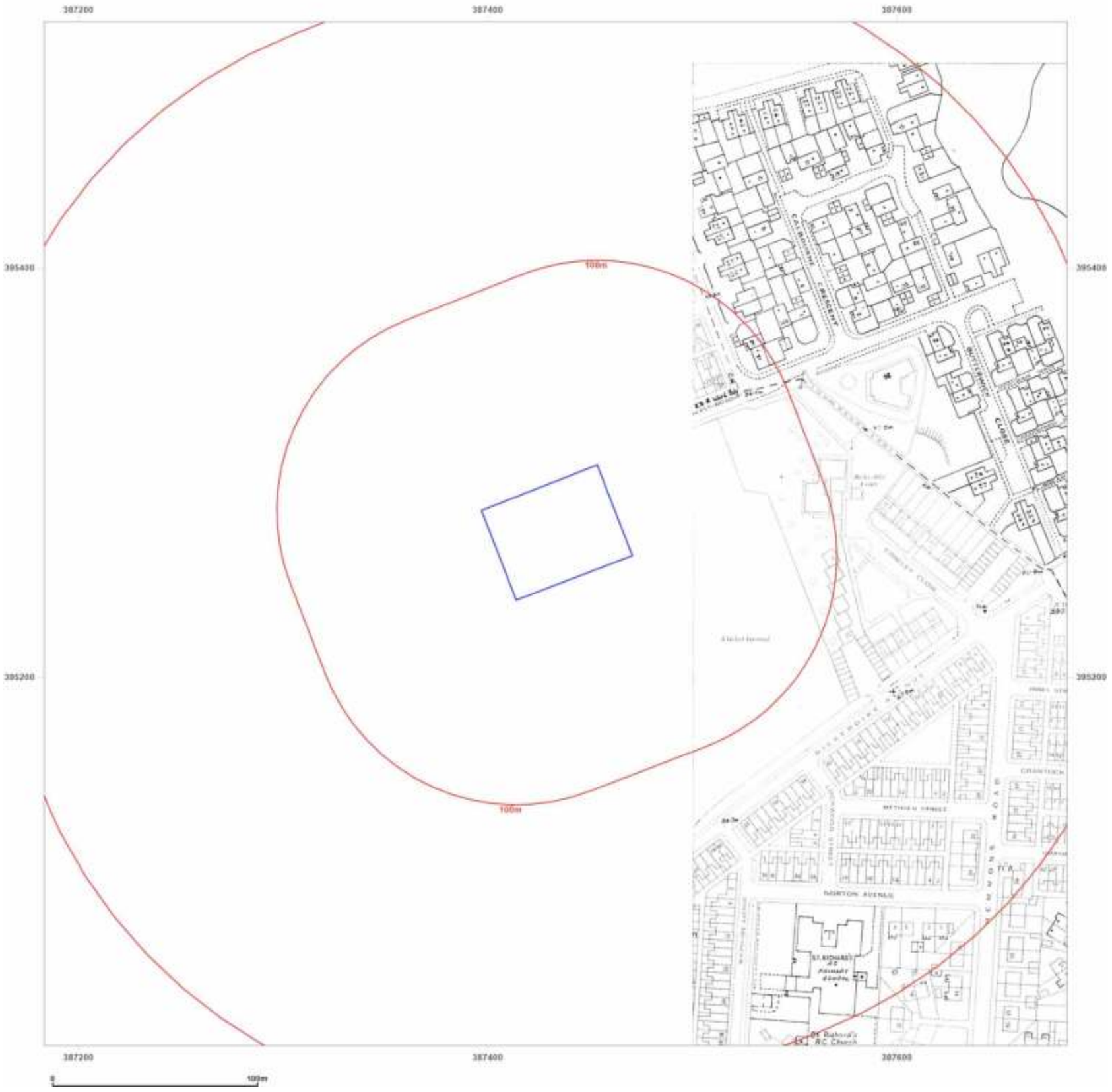
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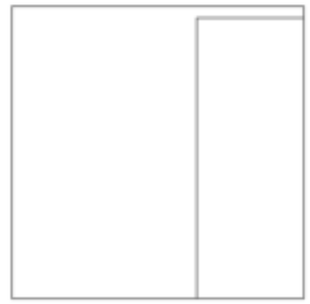
Site Details:

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EAST ROAD, LONGSIGHT,
MANCHESTER, M12 5GZ

Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **1980**
Scale: 1:1,250
Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1979-1984**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1984
Levelled 1963

Surveyed 1964
Revised 1984
Edition N/A
Copyright 1984
Levelled 1964

Surveyed 1979
Revised 1979
Edition N/A
Copyright N/A
Levelled 1964

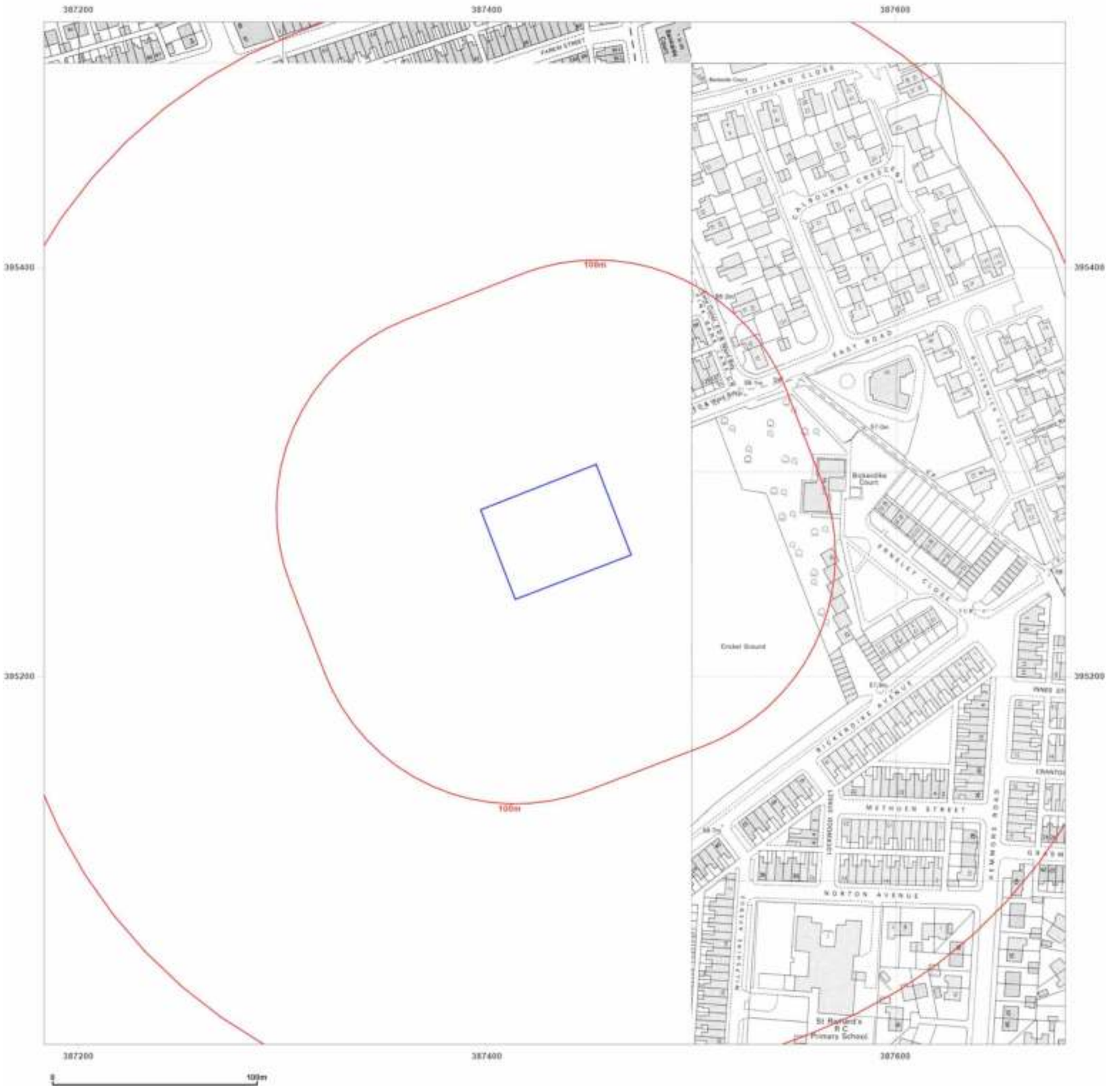
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **1984-1989**
Scale: 1:1,250
Printed at: 1:2,000

N
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Surveyed 1950
Revised 1988
Edition N/A
Copyright 1989
Levelled N/A



Surveyed 1950
Revised 1984
Edition N/A
Copyright 1984
Levelled 1964

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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1991-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A	Surveyed 1963 Revised 1991 Edition N/A Copyright 1991 Levelled 1963
Surveyed 1992 Revised 1992 Edition N/A Copyright N/A Levelled N/A	Surveyed 1992 Revised 1992 Edition N/A Copyright N/A Levelled N/A

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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: LandLine
Map date: **2003**
Scale: 1:1,250
Printed at: 1:1,250

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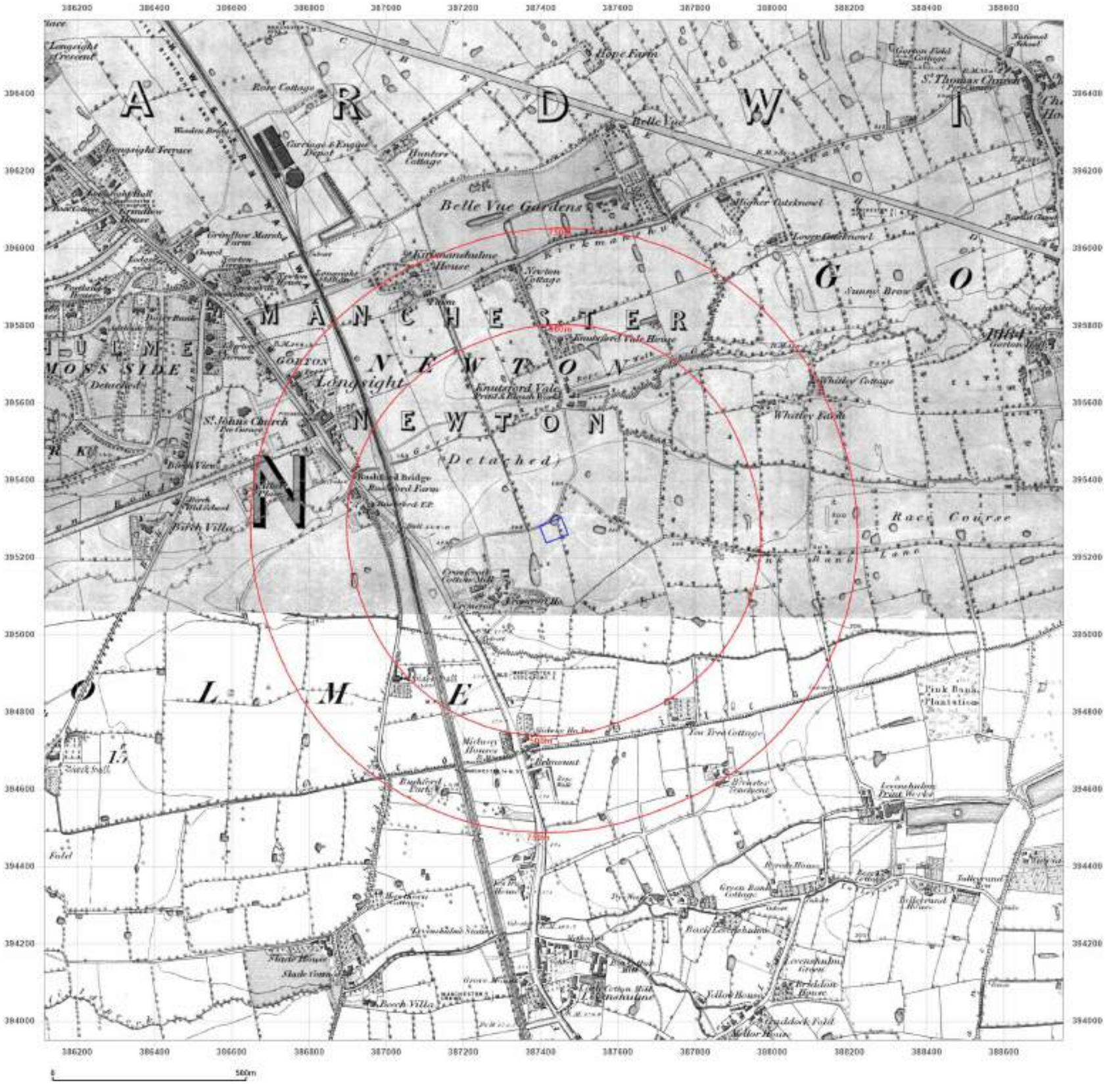
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1848-1849**

Scale: 1:10,560

Printed at: 1:10,560

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



Surveyed 1845
Revised 1849
Edition 1848
Copyright N/A
Levelled N/A

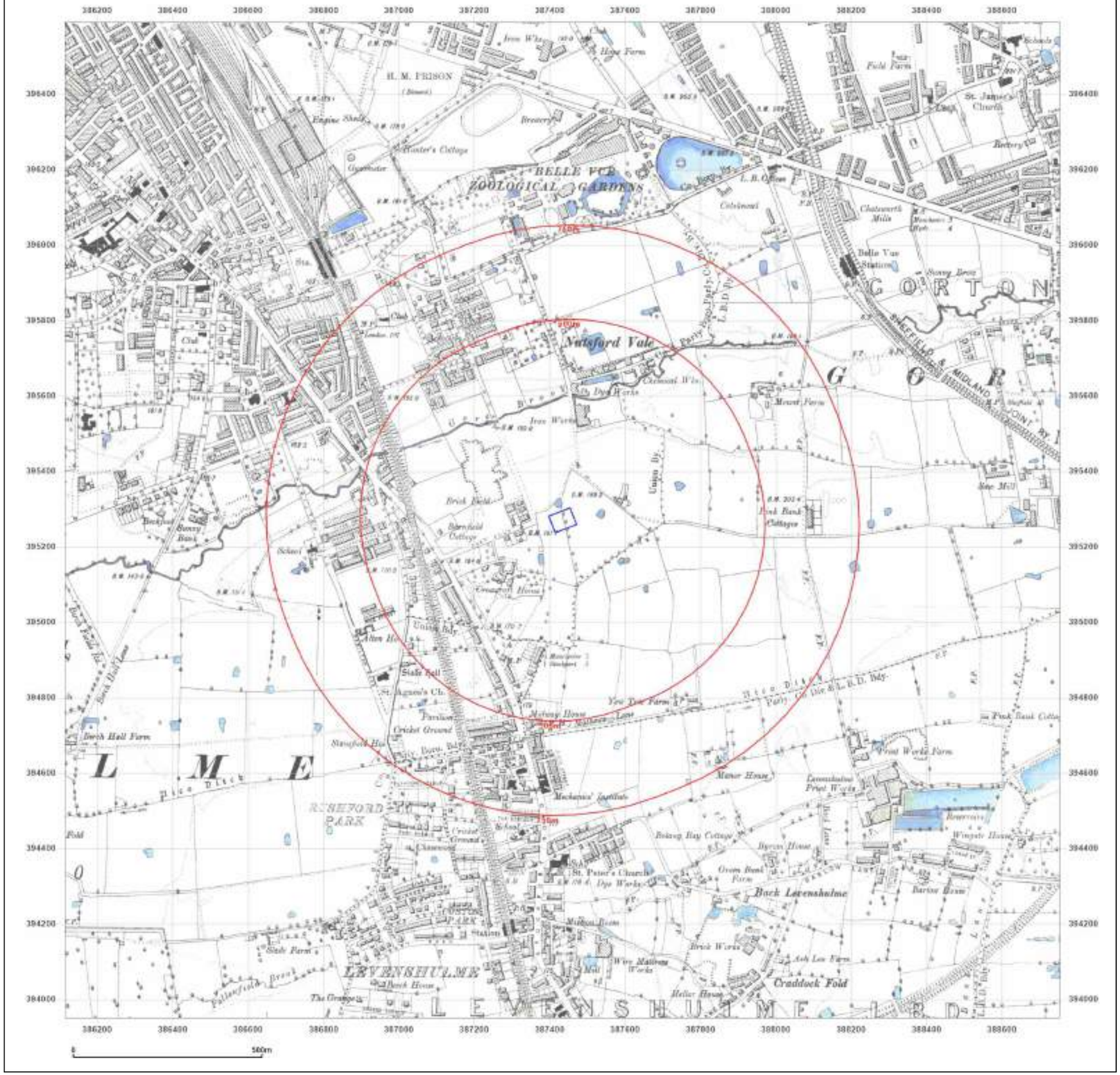
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1890-1892**

Scale: 1:10,560

Printed at: 1:10,560

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

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

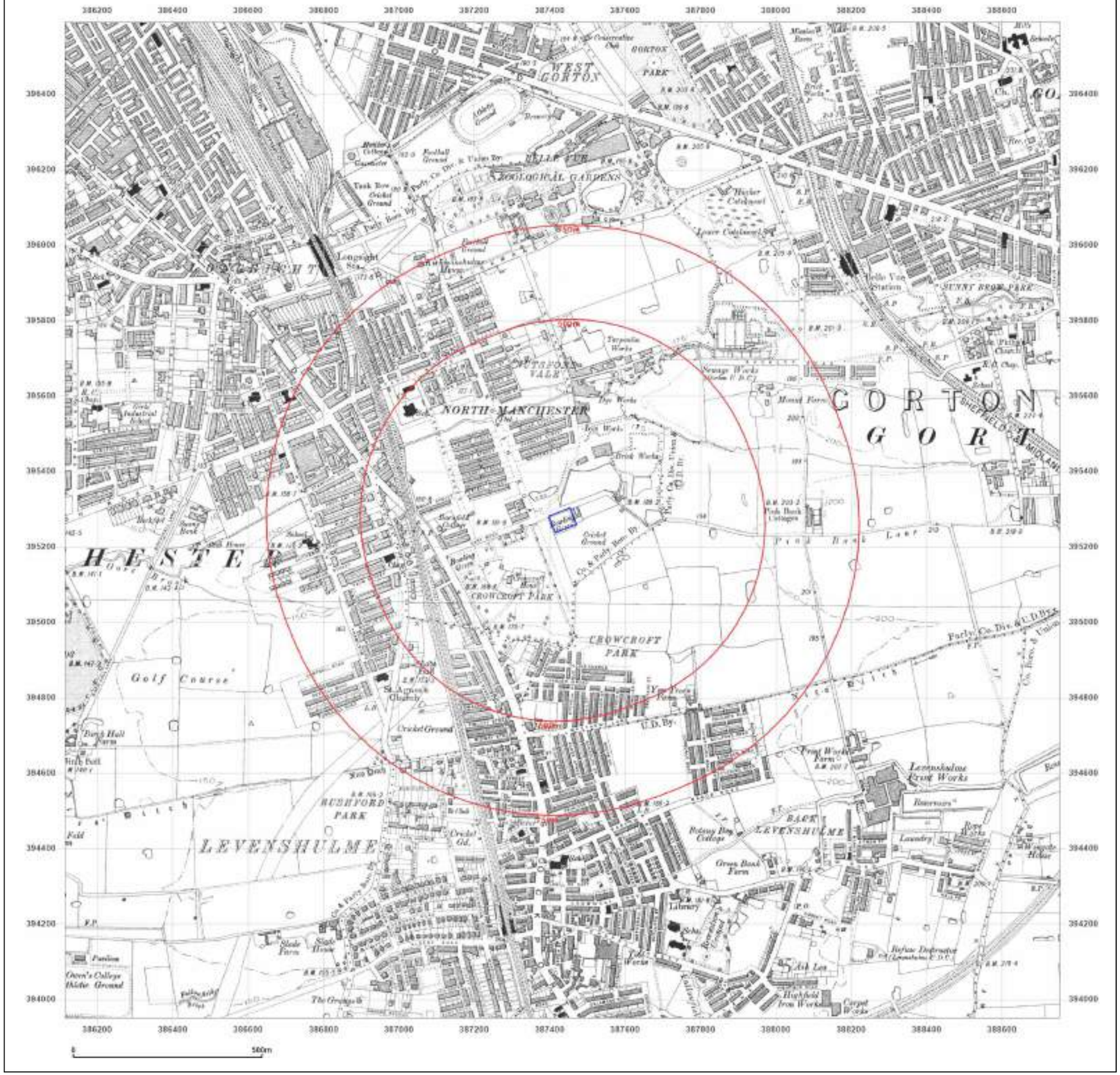
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1905**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1844
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1905
Edition N/A
Copyright N/A
Levelled N/A

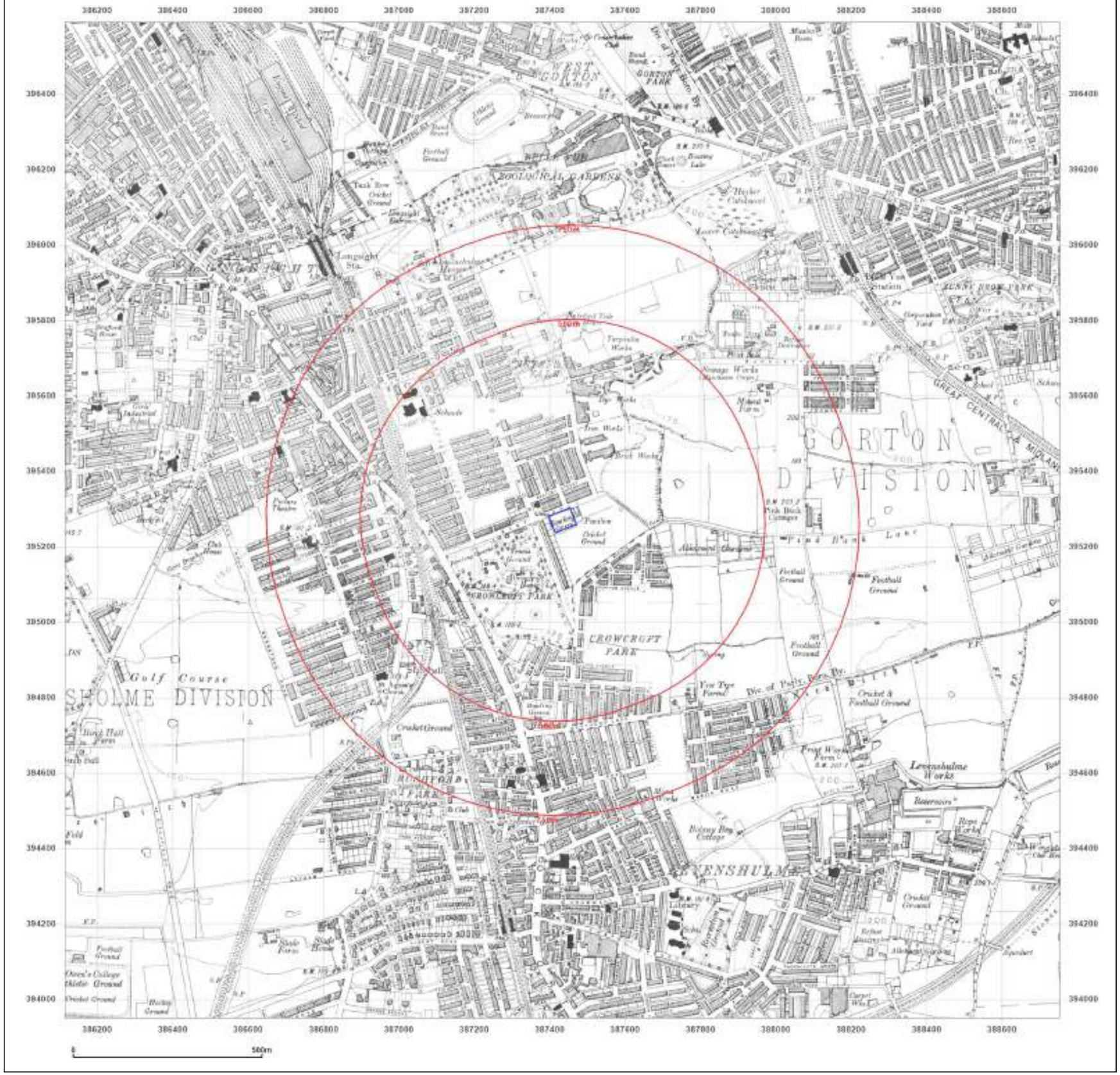
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1915-1916**

Scale: 1:10,560

Printed at: 1:10,560

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

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

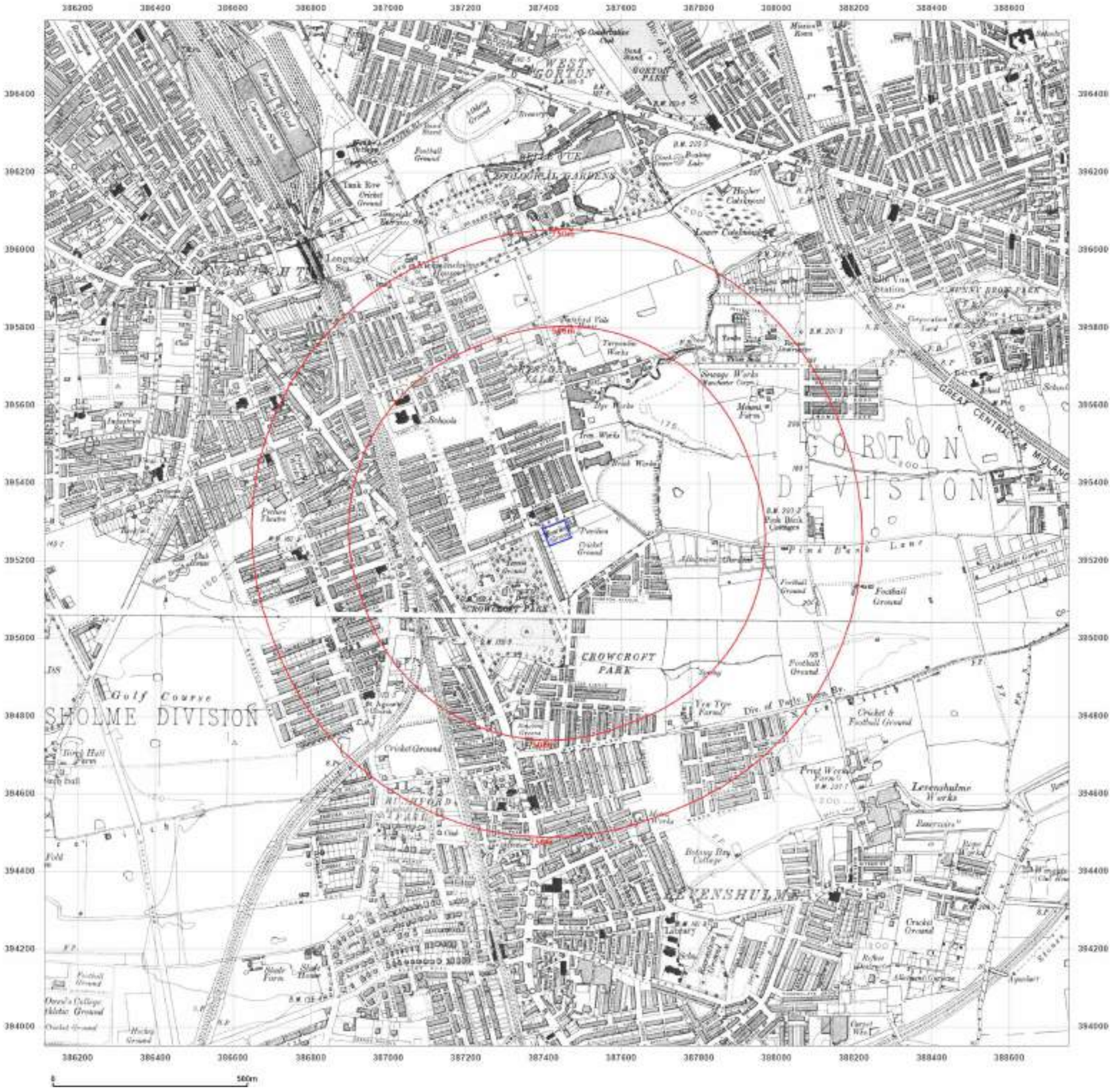
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1923**

Scale: 1:10,560

Printed at: 1:10,560

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



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

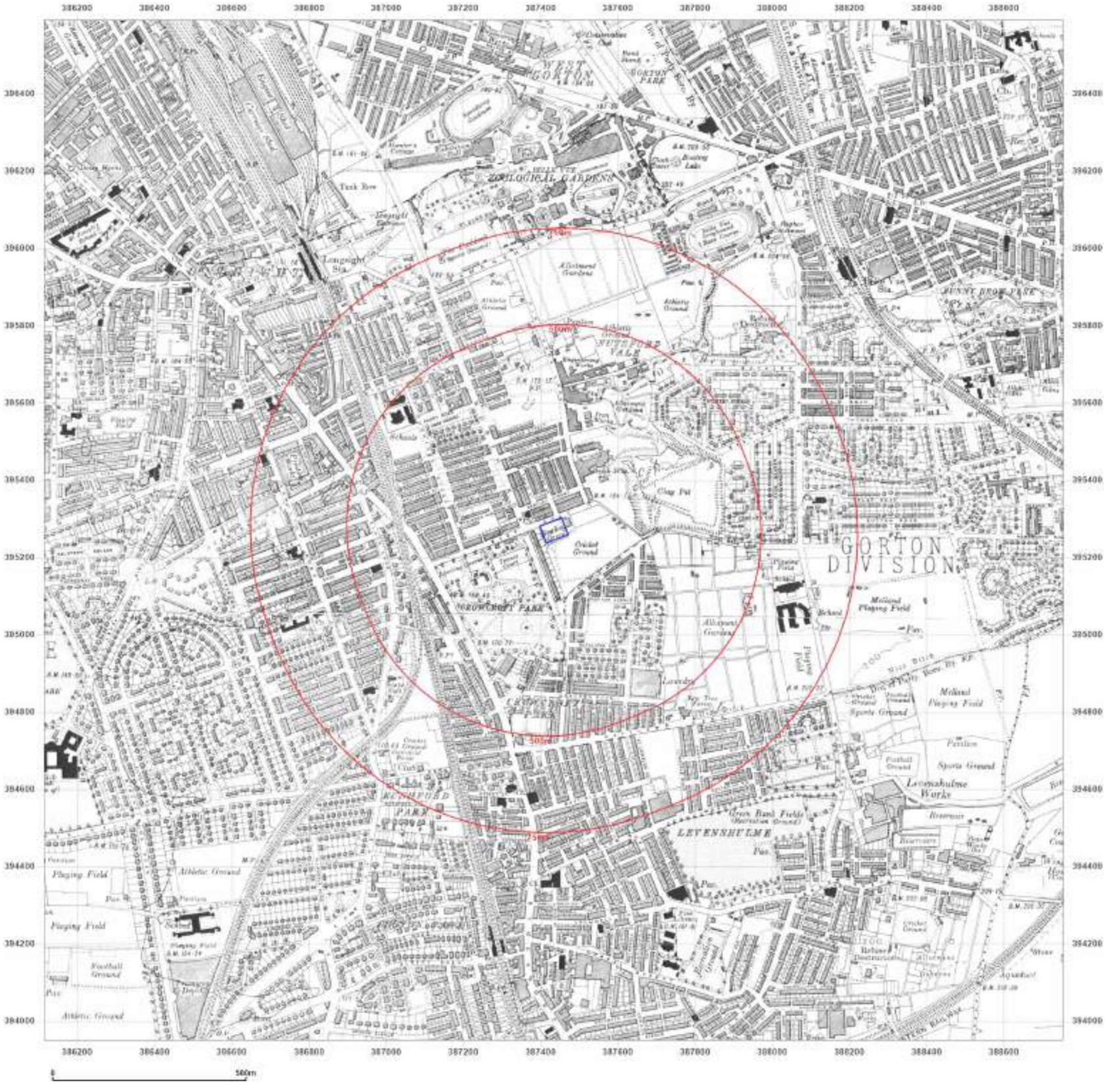
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1934**

Scale: 1:10,560

Printed at: 1:10,560

N
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Surveyed 1844
Revised 1934
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1844
Revised 1934
Edition N/A
Copyright N/A
Levelled N/A

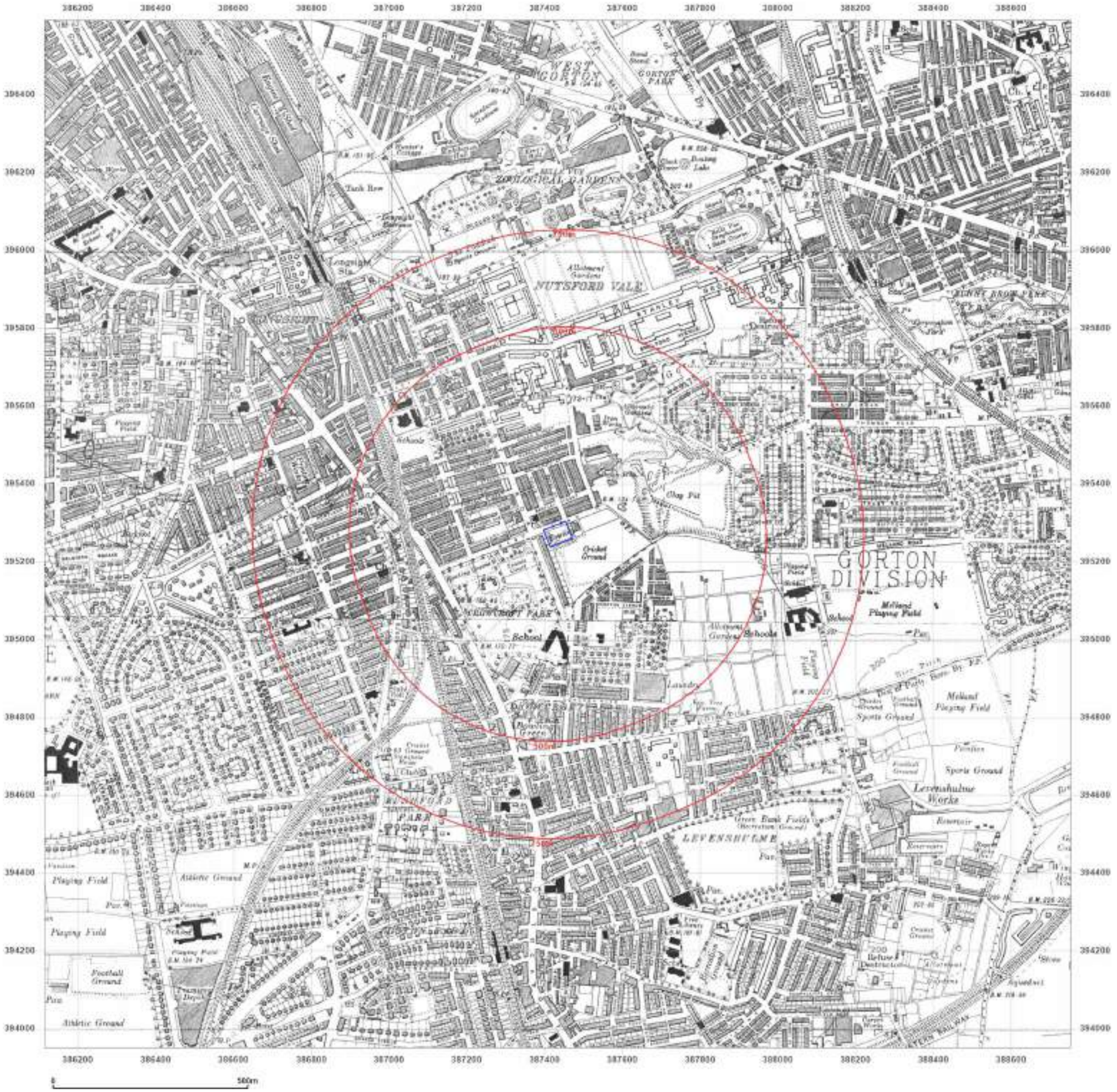
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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



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

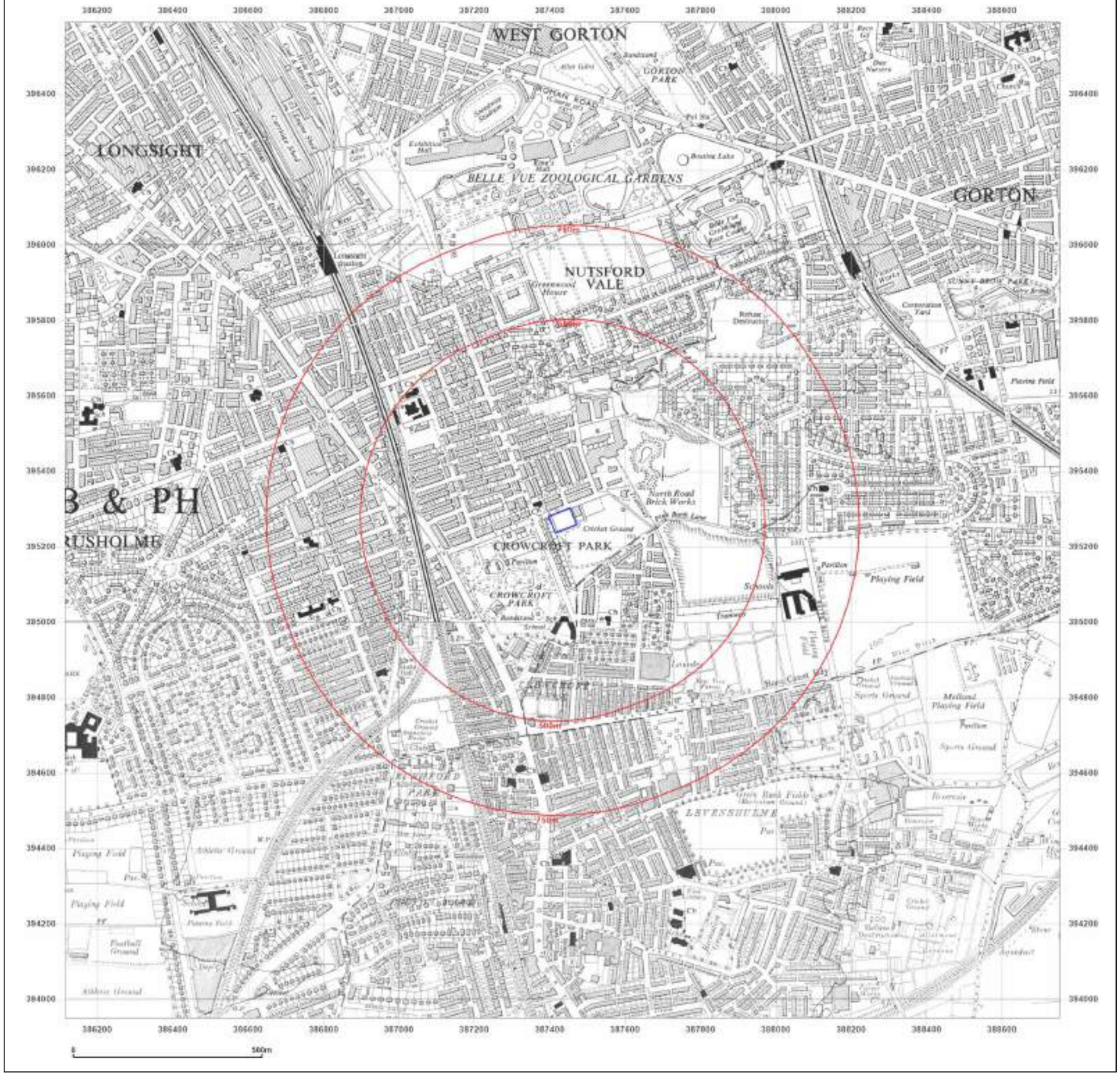
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: Provisional
Map date: **1955-1956**
Scale: 1:10,560
Printed at: 1:10,560

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

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

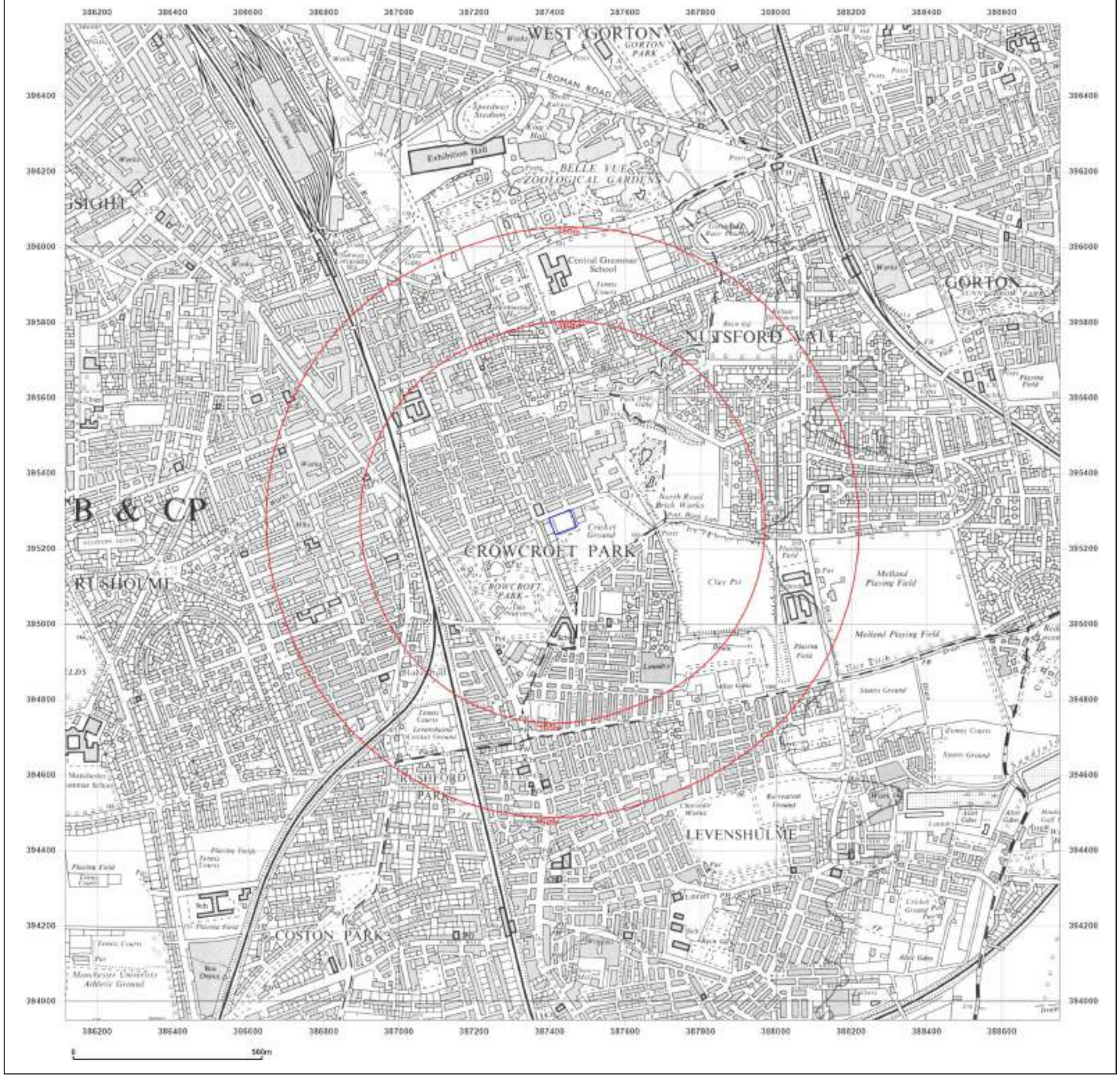
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: Provisional
Map date: **1965-1968**
Scale: 1:10,560
Printed at: 1:10,560

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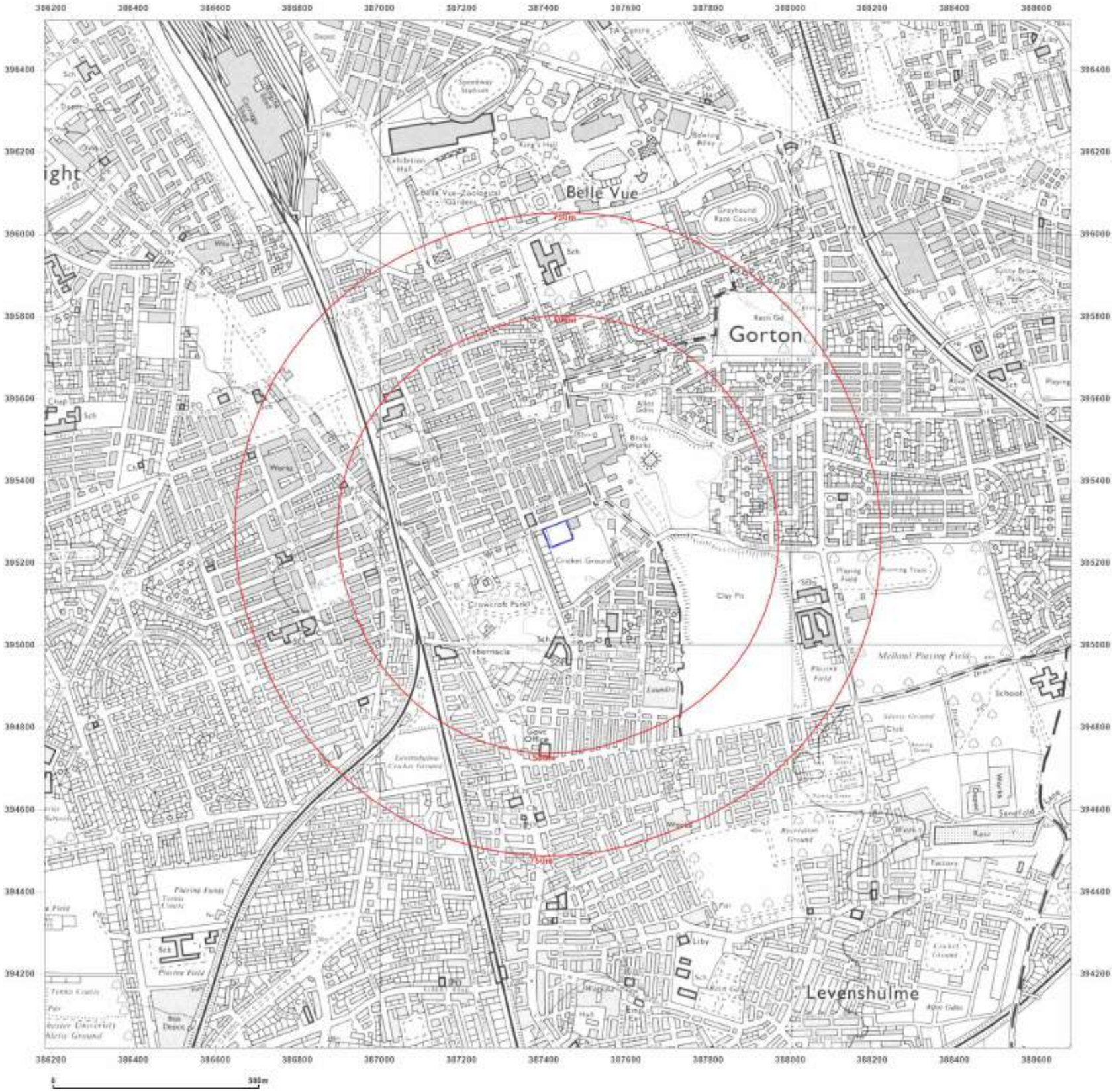
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MANCHESTER, M12 5GZ

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Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1976-1981**

Scale: 1:10,000

Printed at: 1:10,000

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

Surveyed 1974
Revised 1975
Edition N/A
Copyright 1976
Levelled 1964

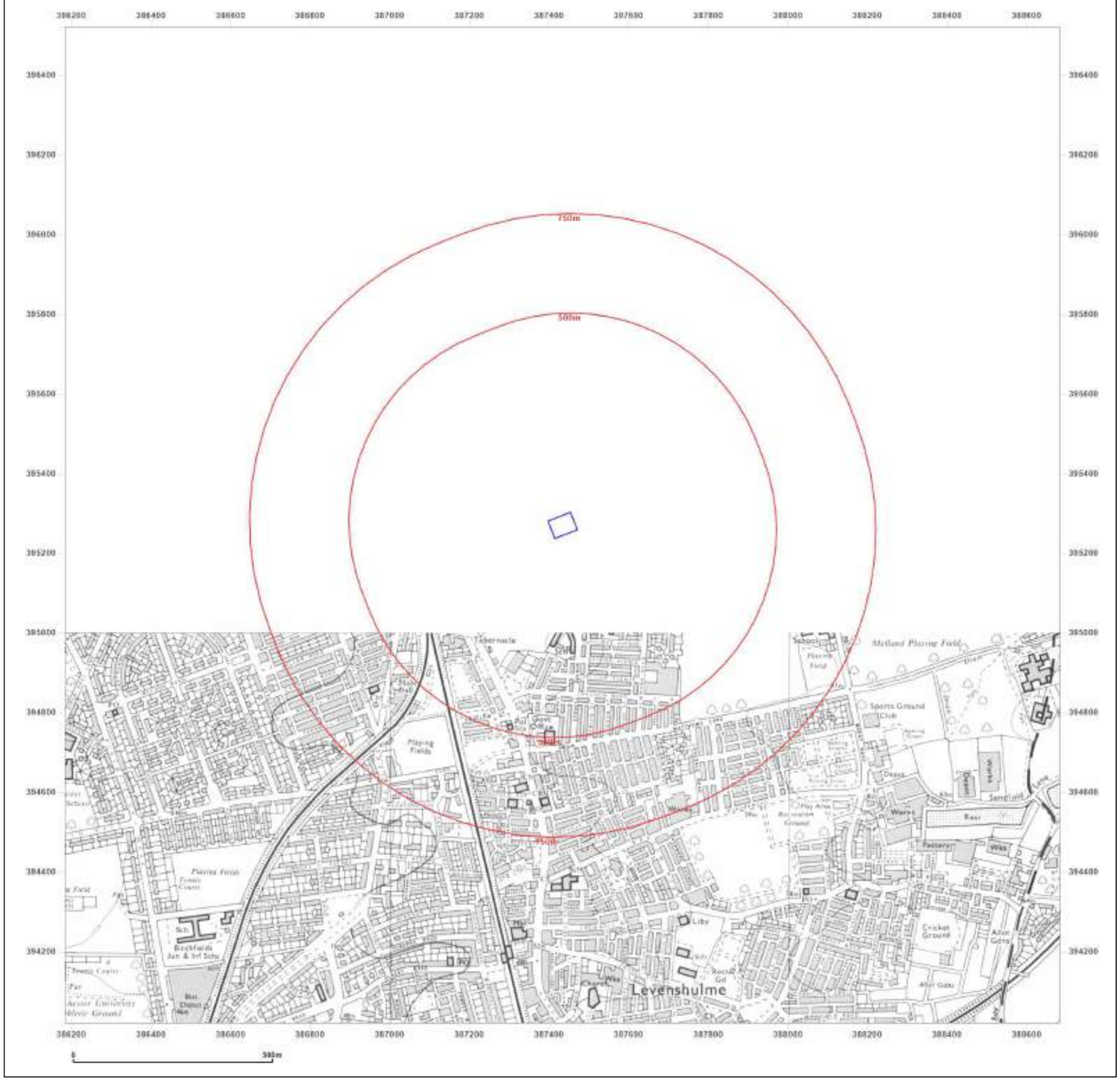
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Site Details:

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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1983**

Scale: 1:10,000

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

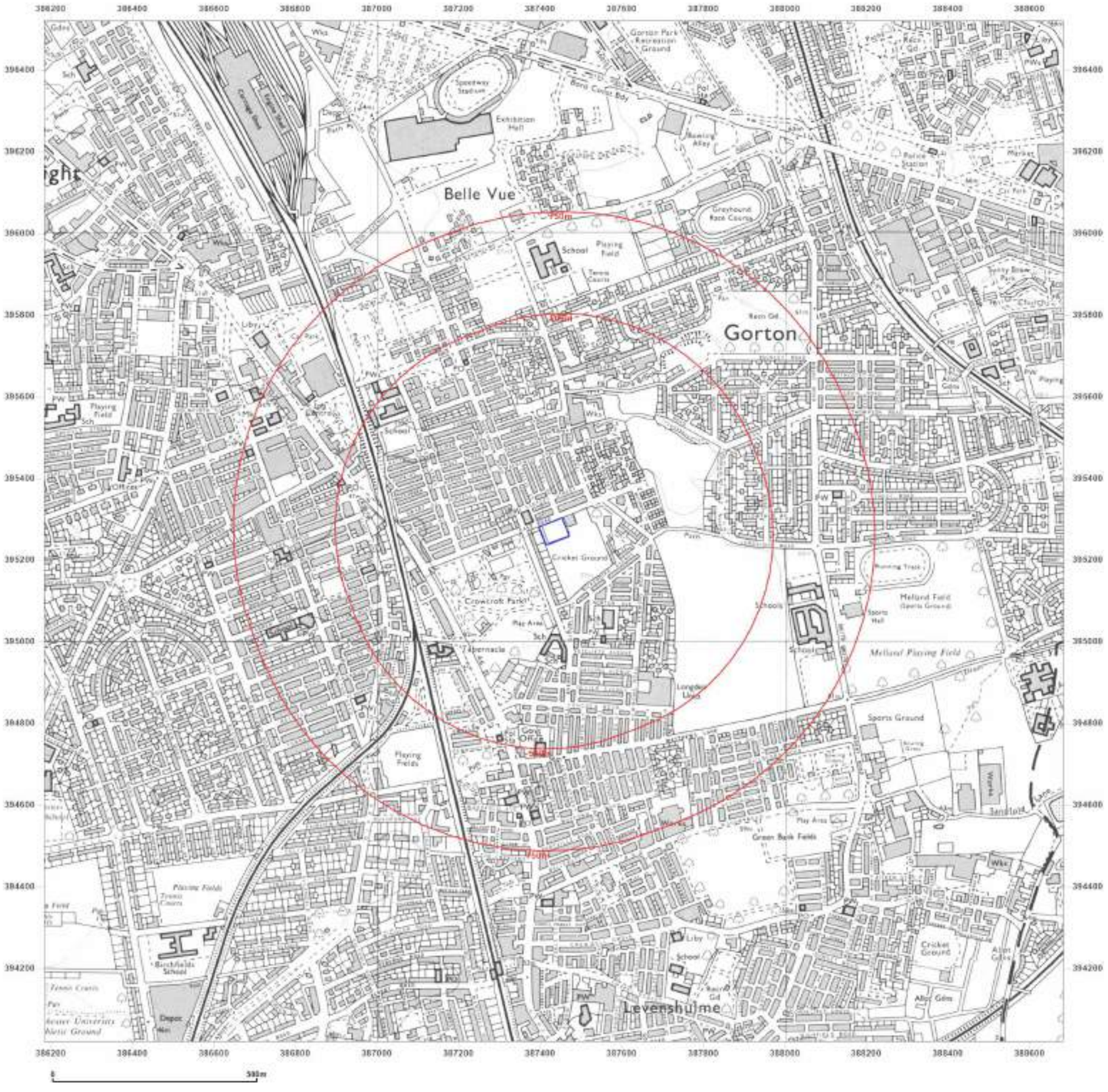
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1985-1989**

Scale: 1:10,000

Printed at: 1:10,000

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

Surveyed 1988
Revised 1989
Edition N/A
Copyright N/A
Levelled N/A

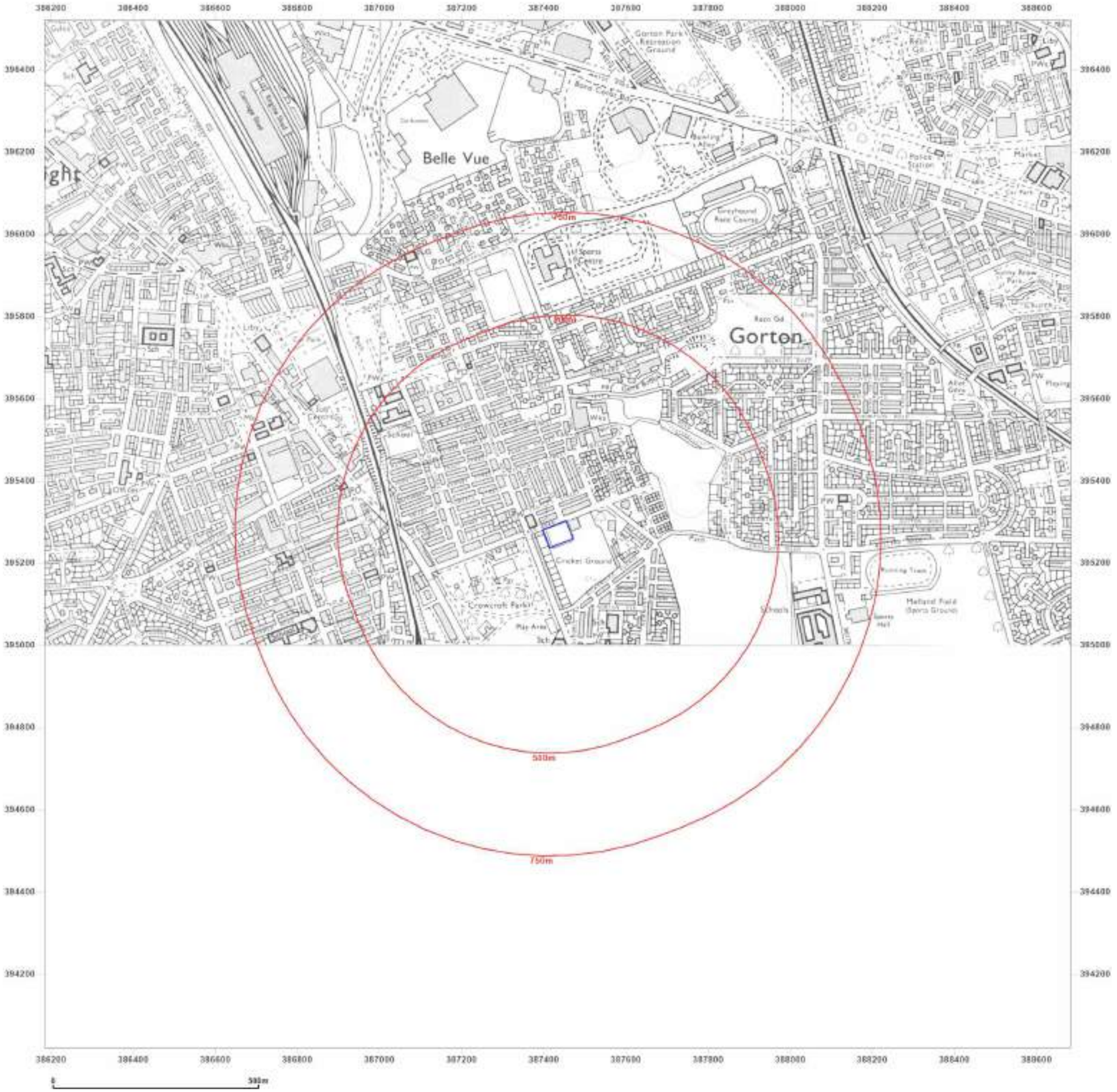
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **1991**

Scale: 1:10,000

Printed at: 1:10,000

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

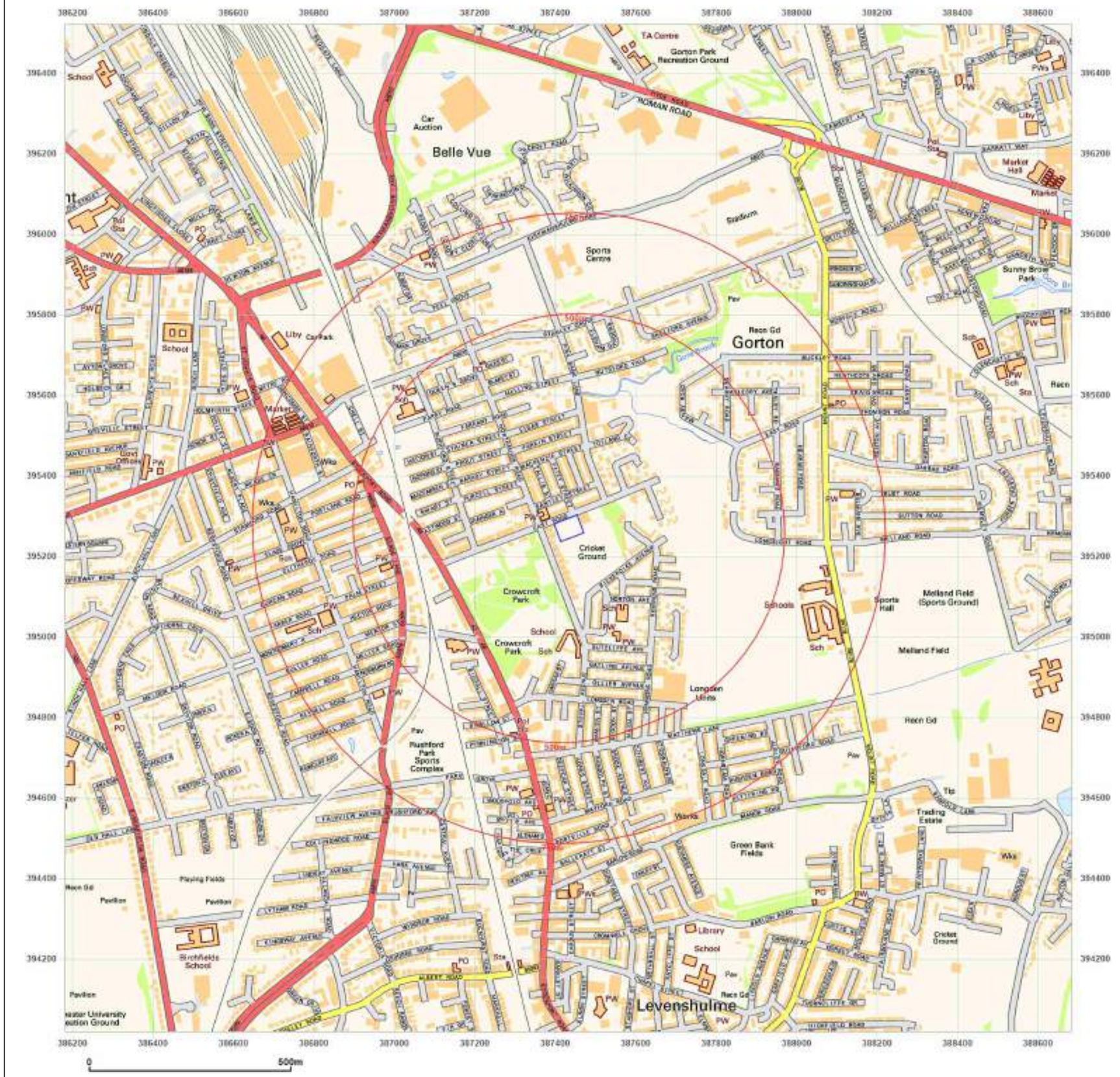
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **2010**
Scale: 1:10,000
Printed at: 1:10,000

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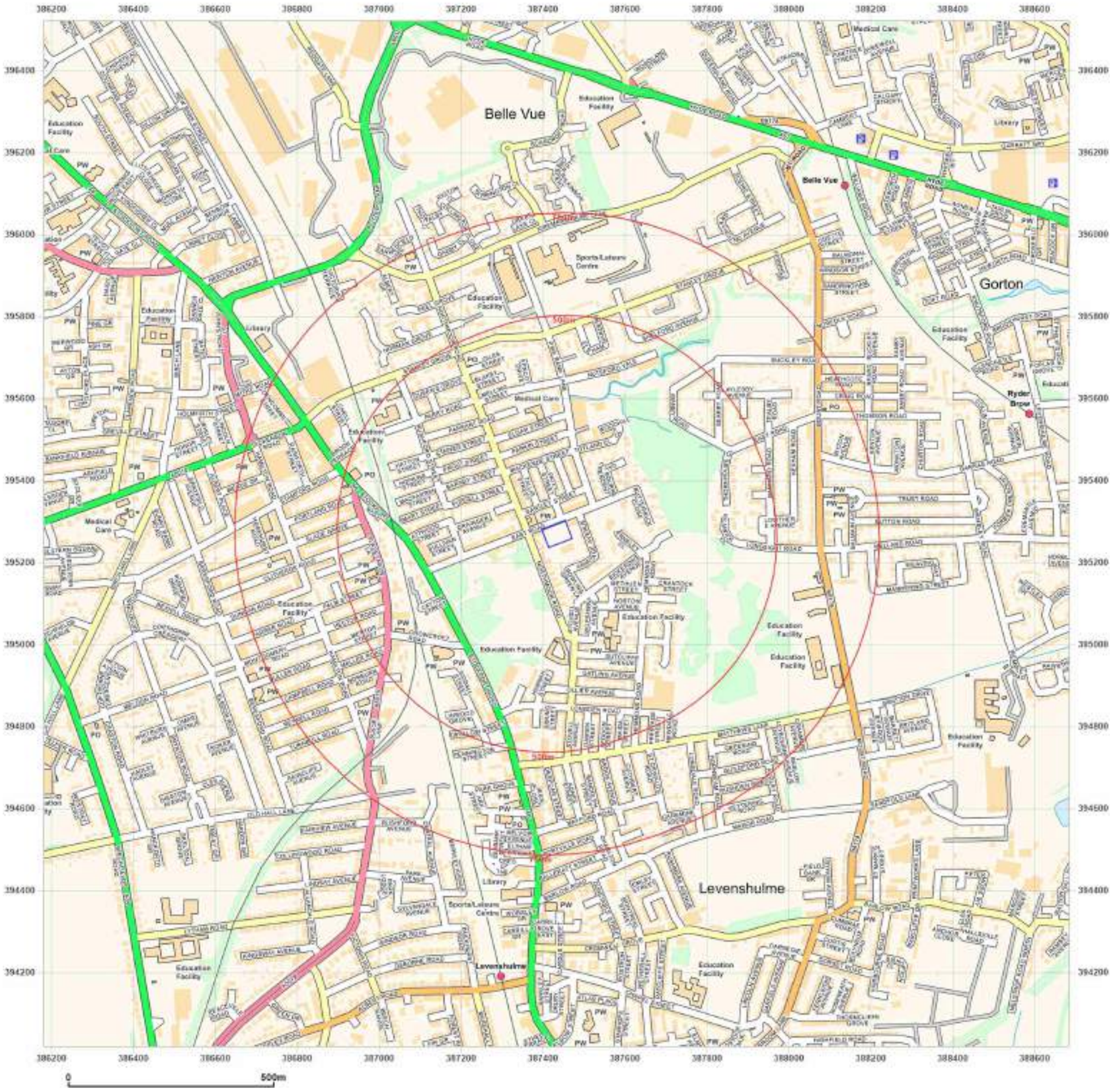
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Client Ref: A5710/MM/01
Report Ref: GS-YKJ-XGG-XAJ-JCN
Grid Ref: 387433, 395270

Map Name: National Grid
Map date: **2024**
Scale: 1:10,000
Printed at: 1:10,000

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APPENDIX 2

SITE PHOTOGRAPHS

Earth Environmental & Geotechnical Ltd

Tel: 0161 975 6088
Email: info@earthenvironmental.co.uk
Web: www.earthenvironmental.co.uk

SITE PHOTOGRAPHS

EARTH ENVIRONMENTAL & GEOTECHNICAL

Job No.: A5710

Site: Longsight Cricket Club

Plate 1 Existing Cricket Green facing southeast



Date: 16th July 2024

Plate 2 Existing Cricket Green facing south



Date: 16th July 2024

Plate 3 Pedestrian entrance on the north of the site



Date: 16th July 2024

Plate 4 Existing green and pavilion facing southwest



Date: 16th July 2024

Earth Environmental & Geotechnical Ltd

Tel: 0161 975 6088
Email: info@earthenvironmental.co.uk
Web: www.earthenvironmental.co.uk

SITE PHOTOGRAPHS

EARTH ENVIRONMENTAL & GEOTECHNICAL

Job No.: A5710

Site: Longsight Cricket Club

Plate 5 Vehicle entrance to the south of the site facing north



Date: 16th July 2024

Plate 6 Cricket club car park facing northwest



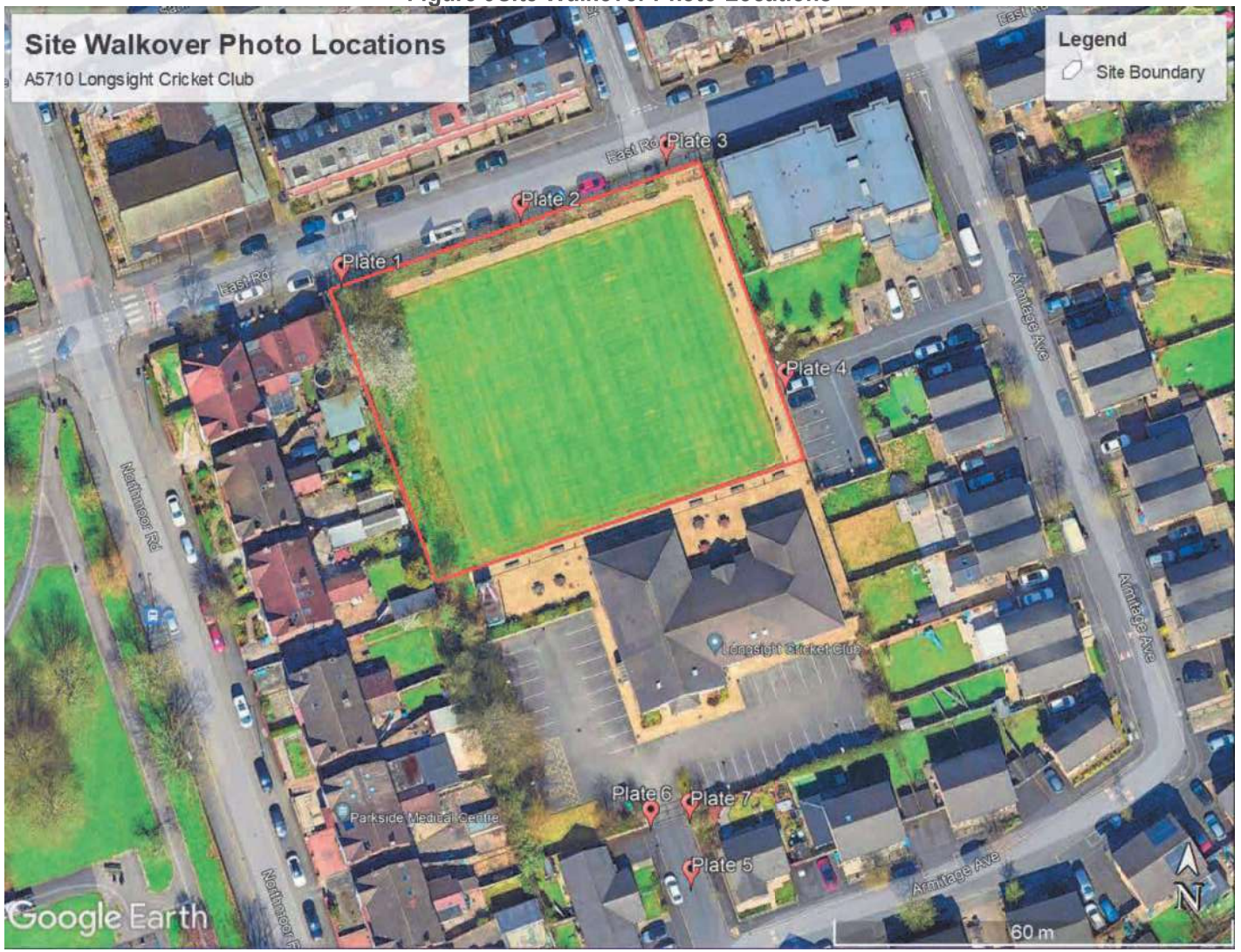
Date: 16th July 2024

Plate 7 Cricket pavilion facing northeast



Date: 16th July 2024

Figure 9Site Walkover Photo Locations



APPENDIX 3

SITE WALKOVER NOTES

WALK OVER SURVEY REPORT

Site: Longsight Cricket Club **Date:** 16th July 2024

Job No: A5710 **Undertaken By:** Ross Page

Purpose of Site Walkover:
1) Provide further information for the Desk Study Report;
2) Identify potential contamination sources, pathways, and receptors;
3) Identify geotechnical features and potential geohazards;
4) Determine locations for exploratory boreholes.

Desk Study features checked during site visit	Feature and Information required	Present	Description / Comments
Site Setting	Description required for: Town/Country/Suburb Setting Industrial/Residential/Retail Usage Current Site use (if undertaking security and access to the site)		 City setting. Commercial Usage The site is currently occupied by the green of Longsight Cricket Club
Evidence of Past Activities	Are there: Any relevant street names in area? Features or relics which indicate past history?	 Yes/~~No~~ Yes/~~No~~	 East Road to the north and Armitage Avenue to the south The cricket pavilion is still present
Geographic Setting	Description required for: Low lying flood plain/dry valley/rolling hills etc.		N/A
Ground Conditions	Is there any evidence of: Mining, Mine entries Subsidence Landslip/slope erosion Former investigation works	 ~~Yes~~/No ~~Yes~~/No ~~Yes~~/No ~~Yes~~/No	 N/A N/A N/A N/A

Desk Study features checked during site visit	Feature and Information required	Present	Description / Comments
Topography	Description required for: Are there apparent differences between site and surrounding area? (If yes describe the presence of retaining walls, and slopes). Is there evidence of Made Ground / Fill on site?	~~Yes~~/No ~~Yes~~/No	N/A N/A
Site Boundaries and Neighbours	Description required for: Type of boundary demarcation (if any) on each side of site, usage of adjacent land and name of industrial/commercial occupiers. Note any adjacent features such as water course and other potentially environmentally sensitive uses (residential, school, infirmary, SSSI etc)		The site is bounded on all sides by black metal fencing.
Vegetation	Are there any vegetation/trees on or close to site (if yes describe locations, type, maturity, etc) Is there any evidence of poor health / distress?	Yes/~~No~~ ~~Yes~~/No	Shrubs and trees are present to the west of the site.
Ground Surface	Are there areas of hardstanding and estimate the split between hard and soft cover? (If yes describe locations, types, and conditions). Is there any evidence of any spillages or staining?	Yes/~~No~~ ~~Yes~~/No	The site was 95% covered in a soft landscaped area with a small hardstanding area to the north and east of the site.

Desk Study features checked during site visit	Feature and Information required	Present	Description / Comments
Site Drainage	Are there any drain covers / soakaways (if yes describe locations)	Yes/~~No~~	Drain covers are located in the car park of the cricket club
	Are there any outfalls/water courses on site (note the condition of water courses in open water courses. discolouration, odour, eutrophication, oily sheen, gas bubbling water, clear or cloudy)	Yes/~~No~~	No.
	Where a watercourse runs alongside or crosses a site are there any differences in visible water quality upstream and downstream of the site?	Yes/No	N/A.
Electrical Equipment	Are there any electricity sub stations on or adjacent to the site? Are there any electrical transformers, capacitors, pylons etc on site?	~~Yes~~/No	An electricity substation is located adjacent the site to the northwest.
Buildings	Is there any evidence of asbestos construction materials e.g., roofing, insulation materials.	Yes/No	No evidence of asbestos was observed on the site walkover.
	Do any buildings have basements?	~~Yes~~/No	
	Do any buildings have a boiler room (if yes, describe fuel type and storage arrangements)?	Yes/No	Unknown.

Desk Study features checked during site visit	Feature and Information required	Present	Description / Comments
Landfilling	Is there any evidence of gas protection measures (gas membrane, gravel-filled trenches, venting pipes, etc)?	~~Yes~~/No	N/A.
Process Air Emissions	Point Source: Are there any stacks / vents / cooling towers / abatement equipment?	~~Yes~~/No	N/A.
	Fugitive Source: is there any stockpiled material / windblown dust / vapour process?	~~Yes~~/No	N/A
Storage of fuels & Chemicals	Are there any drums / containers (if yes, describe quantity, full /empty, stored on hard standing / soft landscaping, bunding)?	~~Yes~~/No	N/A
	Are there any above ground fuel tanks (if yes, describe locations, volumes, how many, bunding, used / disused, condition?)	~~Yes~~/No	N/A.
	Is there any evidence of underground fuel tanks (fuel pumps, covers, vent pipes, how many and how large, fill point, used / disused, and condition)?	~~Yes~~/No	N/A.
Accidents	In the event of a large spillage would runoff affect any vulnerable watercourse/culverts?	~~Yes~~/No	N/A.
	Are emergency procedures / equipment in place?	Yes/No	N/A.

Desk Study features checked during site visit	Feature and Information required	Present	Description / Comments
Waste	Are there any waste skips present on site?	~~Yes/~~No	N/A
	Are waste storage facilities adequate?	Yes/~~No~~	N/A
	Is there any litter/fly tipped material?	~~Yes~~/No	N/A
Atmospheric	Are there any fumes, odours originating from site or affecting site from neighbouring sites?	~~Yes/~~No	N/A.
Access / Further Investigations	If a Phase 2 Investigation is likely to be required, describe any access problems including headroom where relevant, services, overhead cables, restricted access areas, confined spaces, trafficked areas, etc that are likely to affect investigation scope/techniques.		Access is available to the south of the site through the cricket carpark.
	Identify possible site office and storage locations.		Cricket club car park.
	Identify possible water supply.		From the existing cricket pavilion.
Site Environs	Are there any local features that could have a harmful influence e.g., landfill, industrial processes, railway land?	~~Yes~~/No	N/A.
	Are there any sensitive water features/courses near to the site?	~~Yes~~/No	N/A.
Local Knowledge / Anecdotal Evidence			
Site Dimensions	Describe shape of Site in plan and measure dimensions.		The site is a roughly square shaped parcel of land. Site dimensions in section 2.3.

APPENDIX 4

REPORT LIMITATIONS

LIMITATIONS

This contract was completed by Earth Environmental & Geotechnical Ltd on the basis of a defined programme and scope of works and terms and conditions agreed with the client. This report was compiled with all reasonable skill, and care, bearing in mind the project objectives, the agreed scope of works, the prevailing site conditions, the budget, and staff resources allocated to the project.

Other than that, expressly contained in the above paragraph, Earth Environmental & Geotechnical Ltd provides no other representation or warranty whether express or implied, is made in relation to the services. Unless otherwise agreed this report has been prepared exclusively for the use and reliance of the client in accordance with generally accepted consulting practices and for the intended purposes as stated in the agreement under which this work was completed. This report may not be relied upon, or transferred to, by any other party without the written agreement of a Director of Earth Environmental & Geotechnical Ltd.

If a third party relies on this report, it does so wholly at its own and sole risk and Earth Environmental & Geotechnical Ltd disclaims any liability to such parties.

It is Earth Environmental & Geotechnical Ltd understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was an important factor in determining the scope and level of the services. Should the purpose for which the report is used, or the proposed use of the site change, this report will no longer be valid and any further use of, or reliance upon the report in those circumstances by the client without Earth Environmental & Geotechnical Ltd review and advice shall be at the client's sole and own risk.

The report was written in 2024 and should be read considering any subsequent changes in legislation, statutory requirements, and industry best practices. Ground conditions can also change over time and further investigations, or assessment should be made if there is any significant delay in acting on the findings of this report. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of Earth Environmental & Geotechnical Ltd. In the absence of such written advice of Earth Environmental & Geotechnical Ltd, reliance on the report in the future shall be at the client's own and sole risk. Should Earth Environmental & Geotechnical Ltd be requested to review the report in the future, Earth Environmental & Geotechnical Ltd shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between Earth Environmental & Geotechnical Ltd and the client.

The observations and conclusions described in this report are based solely upon the services that were provided pursuant to the agreement between the client and Earth Environmental & Geotechnical Ltd. Earth Environmental & Geotechnical Ltd has not performed any observations, investigations, studies or testing not specifically set out or mentioned within this report.

Earth Environmental & Geotechnical Ltd is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, Earth Environmental & Geotechnical Ltd did not seek to evaluate the presence on or off the site of electromagnetic fields, lead paint, radon gas or other radioactive materials.

The services are based upon Earth Environmental & Geotechnical Ltd observations of existing physical conditions at the site gained from a walkover survey of the site together with Earth Environmental & Geotechnical Ltd interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The findings and recommendations contained in this report are based in part upon information provided by third parties, and whilst Earth Environmental & Geotechnical Ltd have no reason to doubt the accuracy and that it has been provided in full from those it was requested from, the items relied on have not been verified.

No responsibility can be accepted for errors within third party items presented in this report. Further Earth Environmental & Geotechnical Ltd was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the services. Earth Environmental & Geotechnical Ltd is not liable for any inaccurate information, misrepresentation of data or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to Earth Environmental & Geotechnical Ltd and including the doing of any independent investigation of the information provided to Earth Environmental & Geotechnical Ltd save as otherwise provided in the terms of the contract between the client and Earth Environmental & Geotechnical Ltd.

Where field investigations have been carried out these have been restricted to a level of detail required to achieve the stated objectives of the work. Ground conditions can also be variable and as investigation excavations only allow examination of the ground at discrete locations. The potential exists for ground conditions to be encountered which are different to those considered in this report. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition, chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and Earth Environmental & Geotechnical Ltd] based on an understanding of the available operational and historical information, and it should not be inferred that other chemical species are not present.

The groundwater conditions entered on the exploratory hole records are those observed at the time of investigation. The normal speed of investigation usually does not permit the recording of an equilibrium water level for any one water strike. Moreover, groundwater levels are subject to seasonal variation or changes in local drainage conditions and higher groundwater levels may occur at other times of the year than were recorded during this investigation.

Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan but is (are) used to present the general relative locations of features on, and surrounding, the site.