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Phase 1 Desk Study Site Investigation Report

LOCATION	27 Walmer Street, Abbey Hey, M18 8QP
ISSUE DATE	19 February 2025
FOR	NH Electrical Ltd
CLIENT REF.	
OUR REF.	G25046

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Executive Summary

The major conclusions of this desk-based Phase one study are summarised in the table below:

Site Suitability	Desk Study Finding	Preliminary Assessment
Normal Foundations	Bedrock expected to be present at depth with possible deep drift deposits. Consideration should be made to vegetation influence if clay soils are encountered.	Likely to be suitable
Soakaways	Site space too limited.	None

Potential Risks	Desk Study Finding	Preliminary Risk Assessment
Radon Gas	Less than 1% of properties affected	Very Low
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs and petroleum hydrocarbons.	Low / Moderate
Hazardous Gas	Unlikely to be any significant potential source of hazardous gas.	Low/Moderate
Ground Instability/ subsidence	Potential for significant deposits of compressible made/infilled ground.	Low
Ground Instability/ subsidence	Potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave.	Moderate
Ground Instability/ subsidence	Ground instability via risk of settlement / collapse	High / Moderate

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

1. Introduction

In accordance with your instruction, Geoinvestigate Ltd. has carried out a Phase 1 Desk Study Investigation of the land at 27 Walmer Street, Gorton, Manchester, M18 8QP. The location of the site is shown on the Groundsure Enviro+Geo Insight report presented in Appendix 2.

The site currently comprises an area of land some 0.01 ha in size with access from Walmer Street in the south. The site is currently derelict after partial collapse and subsequent demolition of the previous structures.

It is understood that it is proposed to construct a new two storey residential dwelling with associated garden area.

the purpose of the Phase 1 Desk Study investigation was to review the historical land use and geological information for the site in order to provide an assessment of the potential geotechnical/foundation problems together with a qualitative contamination and ground gas risk assessment.

2. Scope of Works

The investigation comprised a review of the following information:

- An extract from the 1:50,000 BGS geological mapping.
- Historical OS maps of various scales dating back to 1848 (presented in Appendix 1).
- Observations from a walkover study carried out by Geoinvestigate.

3. Findings of Phase 1 Investigation

3.1 Anticipated Geology

The extract of the 1: 50,000 BGS geological mapping indicates that the site will be underlain by superficial deposits of Devensian Till (Diamicton) with bedrock comprising the Chester Formation (sandstone).

Nearby AGS/BGS boreholes suggest clay is most likely to be present at shallow depth, however these boreholes are at a distance from the site where they may not be relied upon.

3.2 Historical OS Maps and Historical Land Use

Copies of historical OS maps were obtained for the site covering the period 1848 to 2025. Historical land uses and major features located within the site boundary and externally but potentially within influencing distance are summarised in Table 1. The earliest OS map of 1848 shows the site to be undeveloped land, likely used for agricultural purposes.

Table 1: Summary of Historical OS Map Land Use & Potential Hazard Identification

Map Feature	Location	Appears	Absent	Notes
Residential dwellings	onsite	1922	2021	Demolished after structural damage caused by suspected leaking water utility within Walmer Street.
Railway line and junction	125m north	1892	1995	
Canal	100m South and west	1892	1982	Later turned into footpath.
Mill with reservoir.	100m south	1892	1934	
Earthworks	100m east	1908	1922	
Works with chimney	150m south	1908	2025	
Football Ground	150m west	1933	1950	
Garage	75m northeast	1933	2003	
Works with chimney	150m northeast	1933	Present	Expanded over time

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

A review of the historical OS maps has highlighted the land uses most likely to present (or have presented) a hazard or source of potentially harmful contamination to the study area. The primary features of interest are the various works and the garage but are probably too distant to have meaningfully affected the site.

3.3 GroundSure Enviro + GeoInsight Reports

The GroundSure Enviro+Geo Insight Report presented in Appendix 2 provides listings of potentially contaminative current and past land uses together with possible pathway and receptor information. It also covers other potential risks to the site including ground hazards associated with the area's natural geological setting and man-made hazards such as those arising from development activities. A summary of the relevant Report findings is presented in Table 2 below and on the following pages.

Table 2: GroundSure Enviro+Geo Insight Summary

Details	Feature	Location relative to site
Past land use		
Historical industrial land uses	Unspecified Ground Workings (2) Unspecified Works (7) Wadding Works (2) Cuttings (21) Railway Station (5) Brick Works (1) Railway Sidings (8) Railway Building (2) Unspecified Mills (3) Unspecified Pits (1) Iron Works (1) Cotton Mills (1)	90m Northeast 93m South (closest) 110m South (closest) 119m North (closest) 142m Northwest (closest) 164m East 172m East (closest) 177m Northeast (closest) 191m South (closest) 193m Northeast 204m Northwest 226m South
Historical Tanks	Unspecified Tank (14) Tanks (3)	179m Northwest (closest) 353m Northwest (closest)
Historical Energy Features	Electrical Substation (9)	116m North (closest)
Historical garages	Garage (3)	47m Northeast (closest)
Landfill and Other Waste Sites		
Historical landfill (LA/mapping records)	None recorded within 500m	N/A
Historical landfill (EA/NRW records)	Industrial, Commercial, Environmental (3)	116m Southwest (closest)
Historical waste sites	Breakers Yard (3) Recycling Centre (1)	294m West (closest) 408m Southwest
Licensed waste sites	25000 tonnes (1) 75000 tonnes (1)	266m Northwest 266m Northwest
Waste exemptions	Using waste exemption (4) Storing waste exemption (1)	19m East (closest) 109m Northeast
Recent industrial land uses	Electricity Sub Station (2) Gorton Rail Station (1) Sprayaway (1) Mast Telecommunication (1)	120m North (closest) 125m Northwest 141m North 196m Northeast
Current or recent petrol stations	Shell (1) Unknown Company (1)	376m Southwest 428m East
Control of Major Accident Hazards (COMAH)	None recorded within 500m	N/A
Licensed pollutant release (Part A(2)/B)	Respraying of Road Vehicles (1) Unloading of Petrol (1) Timber Manufacture (1) Quarry Processes (1)	189m Northeast 385m Southwest 386m North 424m Northwest
Licensed Discharges to controlled waters	None recorded within 500m	N/A
Pollution Incidents (EA/NRW)	Inert Materials and Wastes (5) Specific Waste Materials (4) Inorganic Chemicals/Products	167m Northeast 167m Northeast (closest) 176m Northeast
Table 2 is continued on the following page		

Table 2: GroundSure Enviro+Geo Insight Summary

Hydrogeology - Superficial aquifer		
Superficial aquifer	Secondary undifferentiated	Onsite
Bedrock aquifer	Principal	Onsite
Groundwater vulnerability	Low	Onsite
Surface Water Abstractions	Historical and active (4)	1383m east (closest)
Hydrology		
Water Network (OS MasterMap)	Inland river not influenced by normal tidal action.	169m southwest
WFD Surface water body catchments	Irwell / Manchester Ship Canal (Irk to confluence with Upper Mers	On Site
WFD Surface water bodies	None with 5km	
WFD Groundwater bodies	Manchester and East Cheshire Permo-Triassic Sandstone Aquifers (poor)	Onsite
River and coastal flooding		
Risk of Flooding from Rivers and Sea (RoFRaS)	None	
Historical Flood Events	None	
Flood Zone 2	None	
Flood Zone 3	None	
Surface water flooding		
Surface water flooding	Highest risk on site Highest risk within 50m	Negligible Negligible
Groundwater flooding		
Groundwater flooding	Highest risk on site Highest risk within 50m	Negligible Negligible
Environmental designations		
Local Nature Reserves (LNR)	None	
Visual and cultural designations		
Listed Buildings	None	
Agricultural and Habitat designations		
Agricultural Land Classification	Urban	Onsite
Environmental Stewardship Schemes	None	
Priority Habitat Inventory	None	
Geology 1:10,000 scale		
Artificial and made ground (10k)	Infilled Ground (9) Worked Ground, void Made Ground	114m southwest (closest) 126m North (closest) 364m west (closest)
Superficial geology (10k)	Glacial Till - diamicton	Onsite
Bedrock geology (10k)	Chester Pebble Beds - Sandstone Manchester Marls Formation - Mudstone	Onsite 76m northeast
Bedrock faults and other linear features (10k)	None	
Geology 1:50,000 scale		
Artificial and made ground (50k)	Made Ground	364m west
Superficial geology (50k)	Glacial Till - diamicton	Onsite
Bedrock geology (50k)	Chester Formation - Sandstone Manchester Marls Formation - Mudstone	Onsite
Bedrock permeability (50k)	Mixed (high to moderate)	Onsite
Bedrock faults and other linear features (50k)	None	

Table 2 is continued on the following page

Table 2 (ctd.): GroundSure Enviro+Geo Insight Summary:

Natural ground subsidence		
Shrink swell clays	Very low	Onsite
Running sands	Very low	Onsite
Compressible deposits	Negligible	Onsite
Collapsible deposits	Very low	Onsite
Landslides	Very Low	Onsite
Ground dissolution of soluble rocks	Negligible	Onsite
Mining, ground workings and natural cavities		
BritPits	Abbey Hey Brick Works – clay & shale (2)	216m east (closest)
Surface ground workings	Unspecified Ground Workings (2) Canal (7) Cuttings (28) Pond (2) Brick works Unspecified pit	90m northeast (closest) 101m south (closest) 121m north (closest) 161m south (closest) 164m east 193m northeast
Underground workings	None	
Non-coal mining	None	
JPB mining areas	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.	Onsite
Coal mining	None	Onsite
Radon Risk		
Radon Risk	Less than 1%. No protection required	Onsite
Soil chemistry		
Mostly near normal levels recorded though slightly elevated metals might be expected.		
Railway infrastructure and projects		
Historical railway and tunnel features	Railway/ railway Sidings (13)	135m north (closest)
Railways	Junction lines	142m north (closest)

The GeoInsight report has highlighted no additional potential risks to the site or the intended development arising due to historical or current land uses and the site's geological setting beyond those already discussed save for perhaps the bedrock comprising a Principal Aquifer.

3.4 Walkover Survey Observations

A site reconnaissance visit was undertaken on the 17th February 2025 by a qualified Geoinvestigate engineer.

The site was as described in Section 1 of this report comprising derelict after partial collapse and subsequent demolition of the previous structures.

The site currently comprises an area of demolished mid terraced building with associated waste piles. It is believed that the buildings became unstable due to leakage of water from a pipe causing the ground to become weak and subsequent partial collapse of the structure.

The inspection of the surface of the site found no obvious evidence of physical hazards or odours, staining, or residues that might be indicative of the presence of chemical (including hydrocarbon) contamination. On the basis of the walkover inspection only, the risk of a serious contamination hazard occurring at this site would be assessed to be low given the current condition of the site and use. The hazardous gas risk

at the site, based solely on the findings of the walkover survey, would also be assessed to be low given it is unlikely any substantial gas source exists beneath the site. The limited minor 'groundworks' (wall removal) does not indicate that significant made ground will be present, unless basements previously existed.

It is noted however that despite the apparent lack of evidence of any contamination encountered during the visual inspection described above, any planning application is likely to require confirmation that no contamination is likely to have occurred. Photographs taken during the walkover survey are presented below and on the following page:

Photograph 1: Site Access



Photograph 2: Stockpile behind access



Photograph 3: Former courtyard to rear



Photograph 4: Former courtyard to rear



Photograph 5: Previous wall demolition



Photograph 6: Previous wall demolition



4. Qualitative Risk Assessment

4.1 Methodology

In order to assess the potential risks to the site, information obtained on the potential sources of hazard identified in Section 3 have been reviewed and applied to a model of the site. This allows an assessment of the potential sources of contamination to be made by examining the potential pollutant linkages between these and the receptors at the site.

The risk assessment presented comprises a source-pathway-receptor model developed in the context of the intended end use of the site (Residential use).

It is noted that an alternative land use would present different pollutant linkages with more or less vulnerable receptors and differing pathways for exposure. Were the intended land use to be changed at the site, a revised risk assessment would be required.

Identified potential sources of hazard or contamination, vulnerable receptors, and possible pathways by which they may be exposed are presented in the Conceptual Ground Hazard Model (CGHM) presented in Figure 1, see Section 4.2.

In addition to risks to human health and controlled waters and aquifers posed by contamination and ground gas, the CGHM examines the potential risks to the construction of the development including its buildings from geological or geotechnical hazards.

It allows an overall assessment to be made of the potential hazards and risks to the site and the proposed development with respect to “fitness for purpose”. Bedrock geology which is anticipated to underlie the site is assumed to exhibit potentially high permeability, however, semi-impermeable clay deposits are excepted.

4.2 Risk Assessment

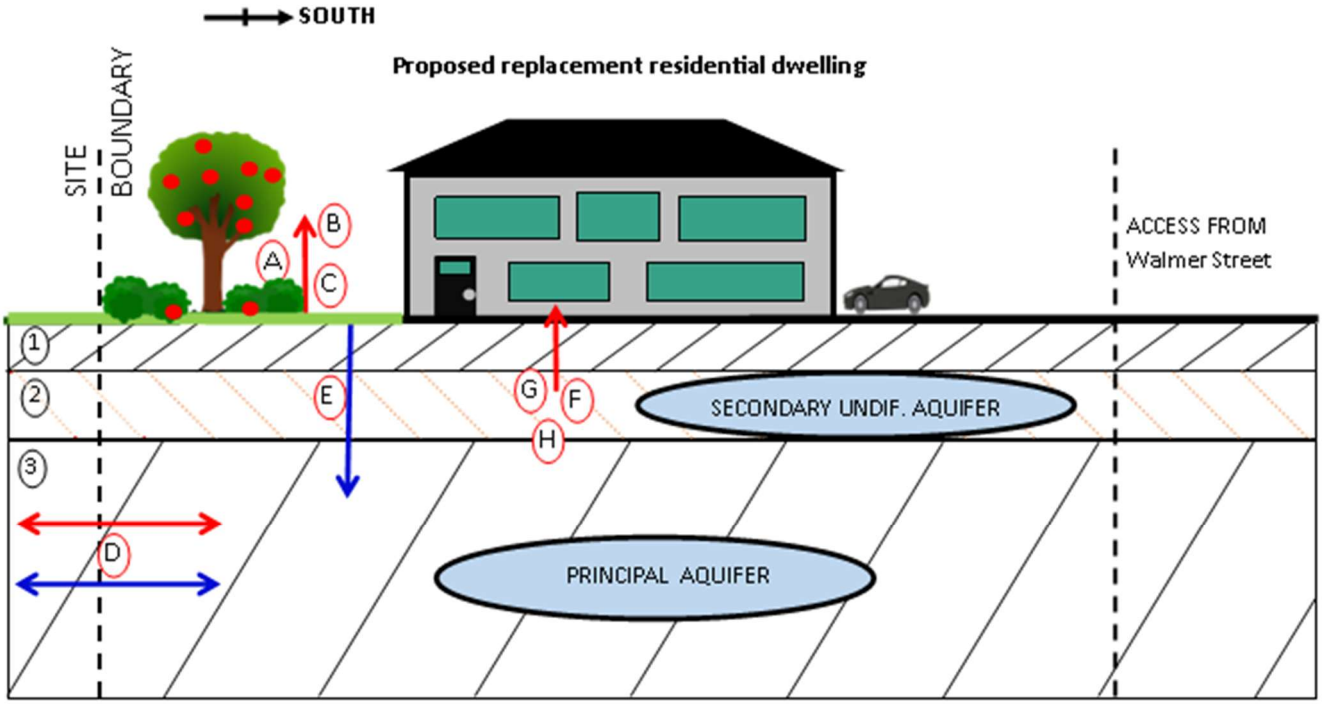
The desk study has highlighted the presence of possible sources of contamination which could potentially affect (or have affected) the site, primarily comprising the former industry and garage around the site.

Contamination from external sources would require a favourable pathway for migration into the site and the majority of external sources of contamination are likely to be too distant or minor to pose any significant risk.

BGS mapping and borehole records both suggest that the superficial deposits will primarily comprise clay soils which would have intrinsically low permeability. As such, it is quite unlikely that a plausible pathway for contamination migration into or out of the site could exist and thus the risk of contamination migration is probably very low.

Potential receptors at the site would include the end users of the site (residents), workers employed in the construction of the new development, the buildings themselves and their services, plants and vegetation, neighbouring sites (and their users/occupants), nearby surface water and ground water at depth. A representation of the potential hazards and pollutant linkages is shown in Figure 1 overleaf.

Figure 1 – Conceptual Ground Hazard Model of site including a Source, Pathway and Receptor Model



1. SURFACE: MADE GROUND of unknown composition and depth.
2. SUPERFICIAL GEOLOGY: GLACIAL TILL—CLAY
3. BEDROCK GEOLOGY: CHESTER PEBBLE BEDS—SANDSTONE

IDENTIFIED HAZARDS Including Potential CONTAMINATION SOURCES

-Possible presence of made ground and historical contamination thereof by past land use and development and/or demolition works at the site.

-Potentially contaminative historical land uses on nearby/adjacent sites limited to historical development and demolition of structures.

-Possible hazardous gas risk from nearby made ground.

-Potential ground stability issues associated with ground settlement and recent escape of water.

IDENTIFIED RECEPTORS and ASSOCIATED PATHWAY

A— End Users through Direct Contact / Inhalation / Ingestion. Buildings and hard standing will encompass some of the site, removing any pathway to end users through direct contact in these areas.

B— Plants through uptake, likely given the intended end use and proposed development layout.

C— End Users through cultivation and consumption of vegetables / fruit. Considered possible given the intended end use.

D— Neighbouring Sites through lateral migration (in soil and water, including surface water run off).

E— Groundwater through leaching of sub-soil.

F— Buildings and services through direct contact.

G— End users and buildings through ground gas migration.

H— Geotechnical risks to buildings and services.

The CGHM and the summary table below (Table 3) present the most likely potential sources of contamination, gas or geotechnical risk that are considered to be possible either within or near to the study site.

The identified potential contamination sources could feasibly, albeit unlikely, have given rise to harmful and potentially mobile contamination of made ground and/or natural deposits which might underlie the site.

Note that, due to the potentially contaminative historical land uses / features that have been identified around the study site boundary, the risk to external sites or ground/surface waters through contamination migration from the study site is currently expected to be less significant than any risks posed to the study site from external sources.

Therefore, assuming the worst-case scenario, the potential for harmful contamination to exist at the site from historical sources is assessed to be Low / Moderate owing to the limited potentially contaminative activities located near to the study area.

The hazardous gas risk is currently assessed to be Low as it is unlikely that any significant potential hazardous gas source exists at or the site or within influencing distance. However, if deeper (>1.0m) made ground is subsequently discovered at the site, this conclusion should be reassessed.

The actual current level of risk to the development and its users can only be ascertained for certain through confirmation of the ground conditions by a Phase 2 intrusive investigation, including a contamination survey.

Table 3: Summary of Conceptual Ground Hazard Model

Potential Source	Associated Contaminants	Pathway	Receptor	Preliminary Risk Rating
Historical land use and development. Possible made ground. Nearby historical industrial featrues . 	Inorganic and organic chemical contaminants within soil. -Trace metals -PAHs -Petroleum hydrocarbons -Asbestos	-Direct human contact -Ingestion of soil -Ingestion of dust -Inhalation of vapour -Leaching into ground or surface waters -Overground migration to external sites (soil and water) -Permeation of pipes.	-Site Operatives -End Users -Vegetation -Controlled waters -Structures and services -Neighbouring sites/users	Low / Moderate
Possible made ground	Landfill-type gases (CO_2, CH_4 etc.)	Hazardous ground gas migration through permeable geology -Inhalation -Explosion risk	-Site Operatives -End Users -Structures	Low/Moderate
Local Geology	Radon gas	Radon gas migration through underlying geology.	-End Users	Very Low
Shallow coal mine workings	N/A	Ground instability via risk of settlement / collapse	-End Users -Structures	Low
Disturbed Ground (from apparent recent water leak)	N/A	Ground instability via risk of settlement / collapse	-End Users -Structures	High / Moderate
Shrink-swell clays	N/A	Ground instability vegetation influence / heave	-End Users -Structures	Moderate
Infilled ground	N/A	Ground instability via risk of settlement	-End Users -Structures	Low

NB. Arbitrary potential hazard assessment: High (Red), Moderate (Amber), Low (Yellow), Very Low (Green), Negligible (uncoloured)

5. Conclusions

A summary of the anticipated ground conditions, risks and implications based on the findings of Sections 3 and 4 of this report is presented in Table 4 on the following page:

Table 4: Summary of Phase 1 Desk Study Findings

Concern	Desk Study Finding	Initial Risk Assessment	Potentially Useful Action in a Phase 2 Site Investigation
Normal Foundations	Bedrock expected to be present at depth with possible deep drift deposits. Consideration should be made to vegetation influence if clay soils are encountered.	Likely to be suitable	Borehole investigation to confirm strength of ground with regard to supporting building loads. Soil analysis might also be included to stablish risk with regard to shrink-swell clay to rule out vegetation influence, or assess strength of any potentially weaker soils.
Soakaways	Site space too limited.	Unlikely to be suitable	None
Radon Gas	Less than 1% of properties affected	Very Low	None. No radon protection required.
Chemical Contamination	Historical nearby and on-site land uses potentially giving rise to a range of inorganic and organic contaminants including asbestos, metals/metalloids, PAHs and petroleum hydrocarbons.	Low / Moderate	Chemical analysis for potential contaminants in soil samples (and potentially leachate). Samples should be recovered from made ground (if found) and topsoil, and also potentially underlying natural sub soils to check for potential leaching and/or migration into the site from possible external sources.
Hazardous Gas	Unlikely to be any significant potential source of hazardous gas.	Low/Moderate	Ground gas monitoring unlikely to be required unless significant (>1m deep) made ground deposits are encountered. Alternative means of assessment may be useful such as those described in CL:AIRE RB17.
Ground Instability/ subsidence	Potential for vegetation influence on shrink-swell clays which may be present, including risk of soil heave.	Moderate	Borehole investigation to confirm strength of both natural and made ground and shrinkage potential of any cohesive soils.
	Potential for significant depth of weak superficial deposits, from escape of water	High / Moderate	
	Potential for significant deposits of compressible made/infilled ground.	Low	
	Potential for unrecorded shallow coal mining.	Low	None.

The initial risk assessment provided above is tentative as it is based only on the Phase 1 desk study. The risks will need to be reassessed and may perhaps change significantly becoming higher or lower depending on the results of the Phase 2 intrusive investigation and contamination survey, should these be undertaken.

6 Recommendations

In light of the Phase 1 desk study findings it is recommended that a Phase 2 investigation be undertaken at the site to better explore the possible risks that have been identified. This should include contamination analyses and together with a geotechnical appraisal of the site to establish correct foundation requirements. As there are relative uncertainties, this work is recommended in order to establish the actual site conditions and to properly assess both geotechnical and environmental risks.

The Phase 2 investigation should be designed to focus on the potential contaminants highlighted in the CGHM (Figure 1 and Table 4).

Table 5: Proposed Phase 2 Site Investigation Specification

Action	Quantities	Justification/Details
Window Sampling Boreholes	Up to 3 boreholes. (up to 4-5m in depth – if achievable)	Establish actual ground conditions and confirm strength of ground. Retrieve samples of possible made ground and natural soils for geotechnical testing and contamination analysis. Potentially recover ground water samples if encountered. Installation of ground gas monitoring wells (if appropriate).
Hand excavated trial pits	Up to 3 (up to 1m in depth – if achievable)	Further inspect condition and composition of soils and recover additional samples for contamination analyses, including in locations which may be difficult for plant to access.
Chemical Contamination Analysis of Soils and Leachate (and possibly ground water if pertinent)	Up to 6 No. samples from topsoil and/or made ground at shallow depth (<1m) and potentially also deeper natural strata or made ground (if encountered).	Quantify risk posed to receptors identified in CGHM (see Figure 1) for revised risk assessment. Determinands should include a range of metals/metalloids, speciated PAH content, petroleum hydrocarbon content, BTEX, asbestos presence, and soil organic matter content (to aid in revised risk assessment).
Gas monitoring	Up to 6 No. visits over 3 months. Preferably including occasions of <1000mb and after sharp drop (likely only to be required if made ground encountered at site).	Quantify risk posed by potential hazardous gas from made/in-filled ground. Possible analysis of Total Organic Carbon (TOC) to support gas measure recommendations (or in the absence of gas monitoring data) using guidance published in CL:AIRE research bulletin RB17. If no evidence of significant (>1m deep) made ground deposits are encountered, then monitoring may not be necessary or may be cut short (i.e. if there is no feasible significant gas sources).
Geotechnical Testing	Up to 50+ No. Up to 5 No.	Moisture content determination to classify nature of soils. Atterberg Limit determinations to assess the shrinkage and swelling characteristics of the ground should clay soils be encountered.
Provision of Factual and Interpretive Report	N/A	Presentation of findings and implications including: • Site plan • Borehole and trial pit logs • Results of geotechnical testing • Contamination analysis results • Ground gas measurements (if appropriate) • Revised CGHM and chemical contamination risk assessment including appropriate soil assessment criteria. • Advice regarding any necessary remediation/validation • Advice regarding foundation design etc.

END OF REPORT

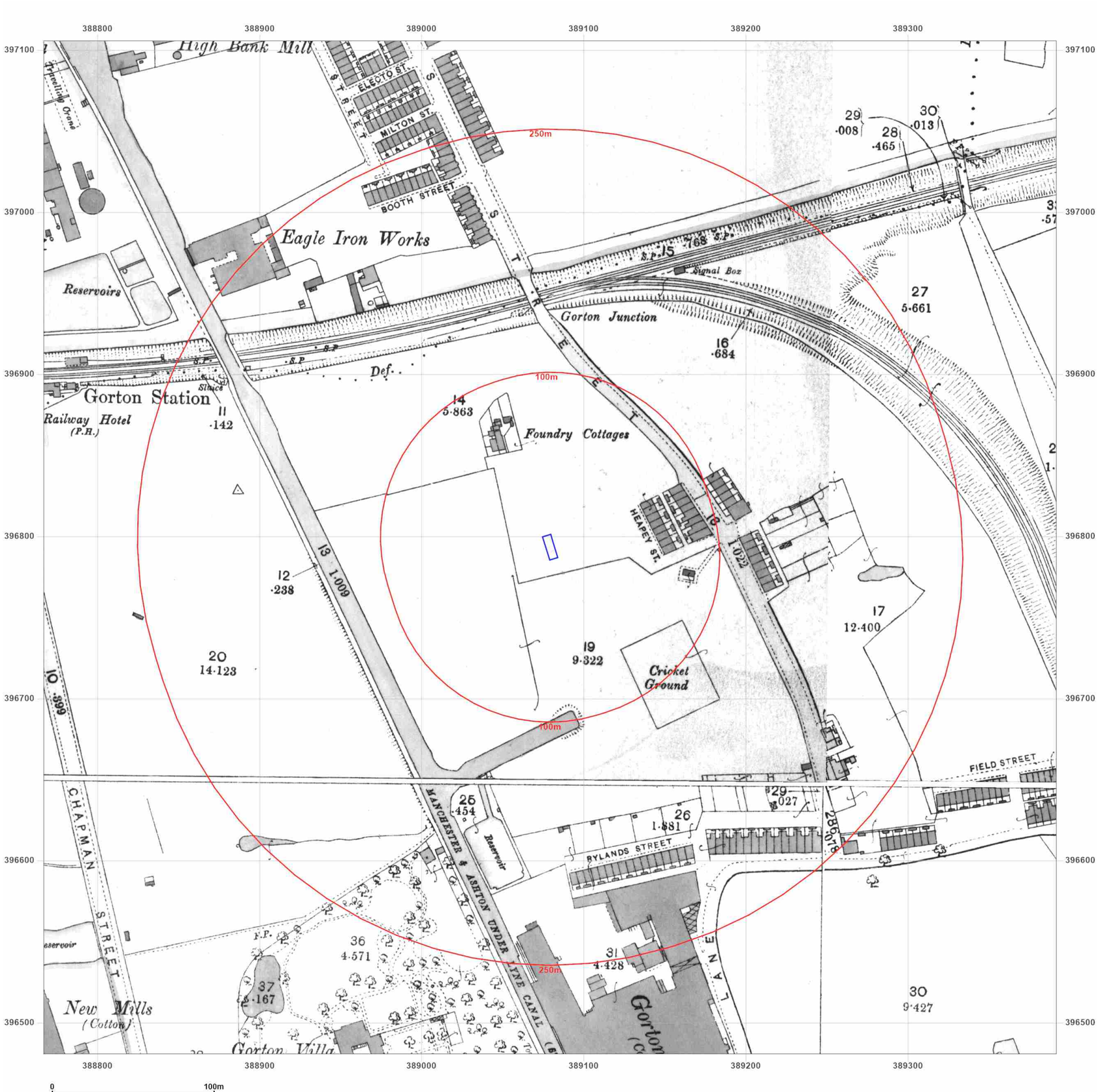
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APPENDIX 1

Historical Map Record



Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series
Map date: **1892-1894**
Scale: 1:2,500
Printed at: 1:2,500

N W E S

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

Surveyed 1894
Revised 1894
Edition N/A
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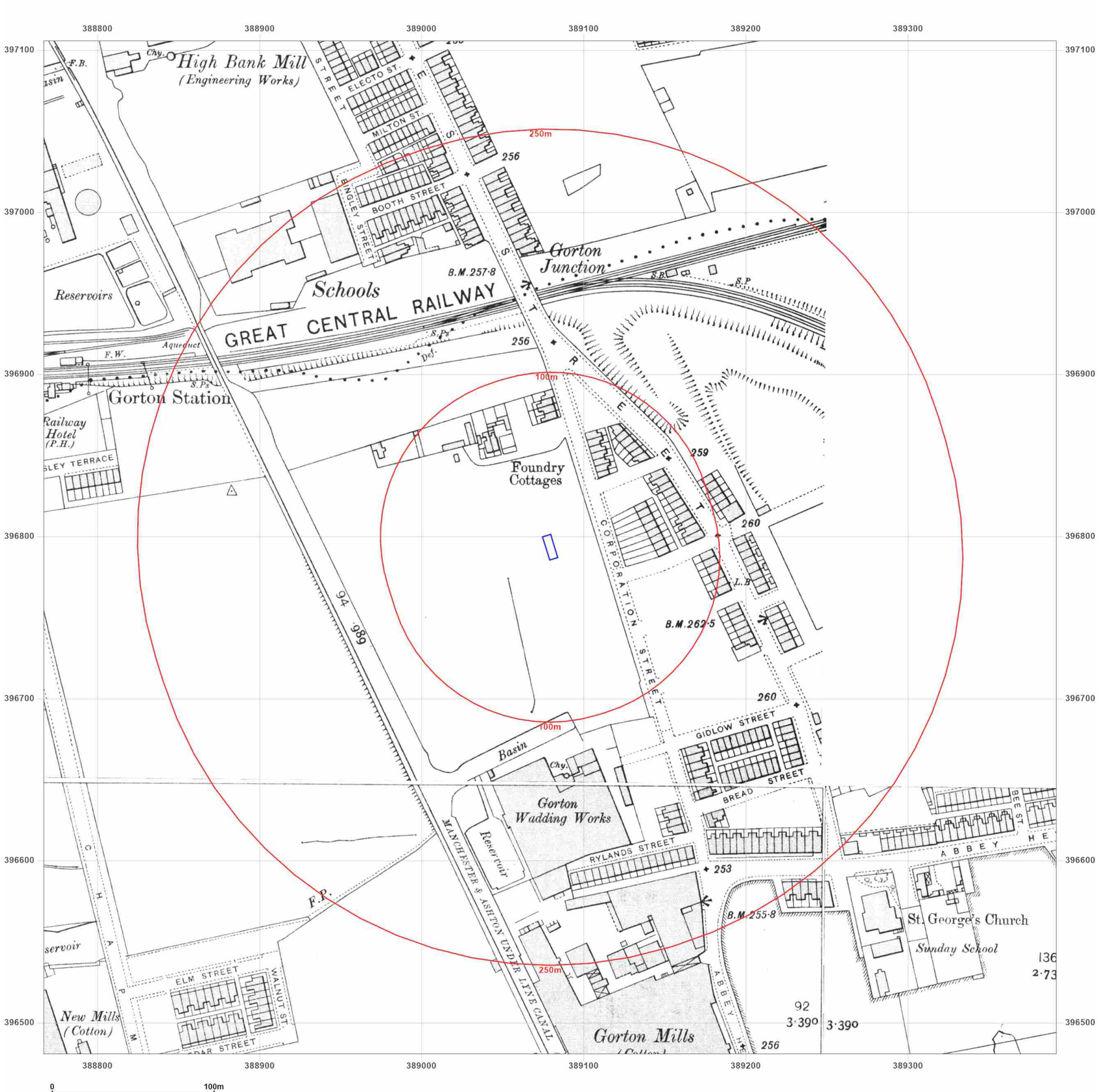
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E: info@groundsure.com
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Production date: 14 February 2025

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



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Site Details:

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Client Ref: G25046-KR
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Map Name: County Series

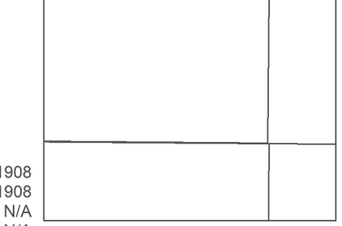
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Scale: 1:2,500

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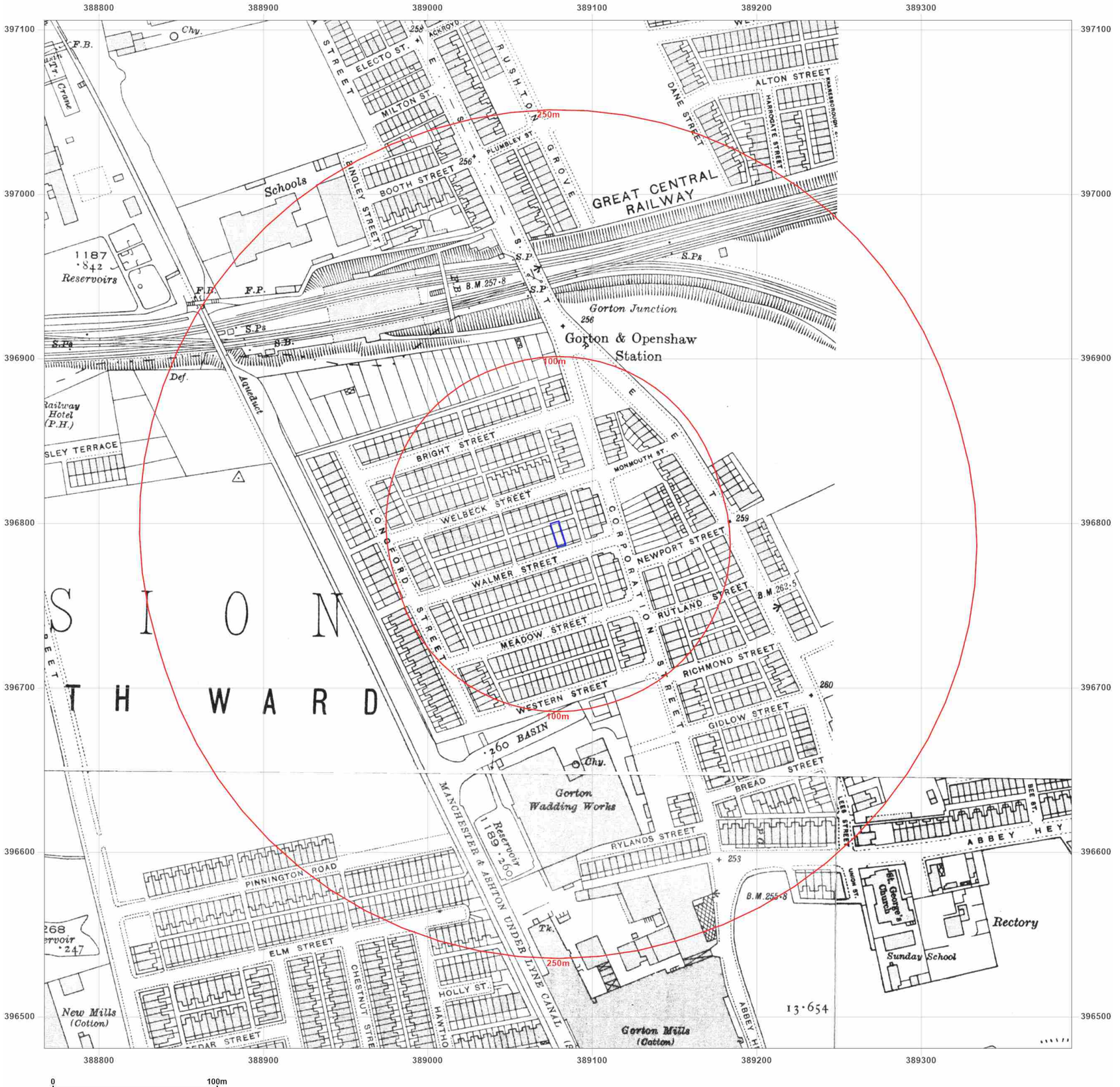
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

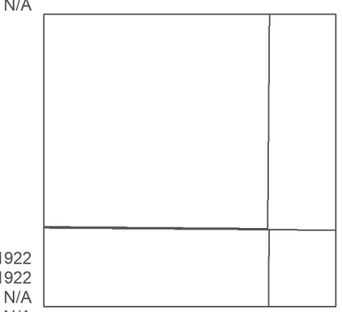
Map date: **1922**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A



Surveyed 1922
Revised 1922
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1922
Revised 1922
Edition N/A
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Site Details:

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

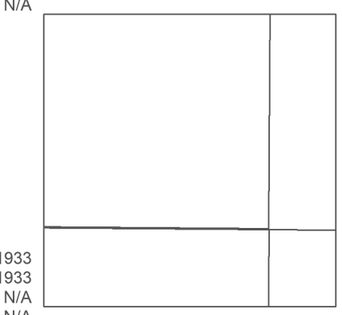
Map date: **1933-1934**

Scale: 1:2,500

Printed at: 1:2,500

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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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Revised 1934
Edition N/A
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Site Details:

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1949-1950**

Scale: 1:1,250

Printed at: 1:2,000

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

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Site Details:

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1950-1951**

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: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1949-1951**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1949
Revised N/A
Edition 1951
Copyright N/A
Levelled 1929

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

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

Surveyed 1950
Revised 1950
Edition N/A
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

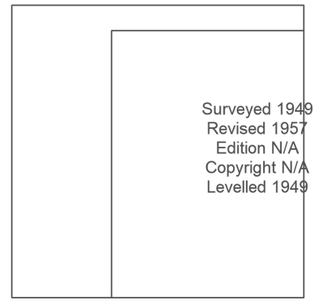
Map Name: National Grid

Map date: **1957**

Scale: 1:1,250

Printed at: 1:2,000

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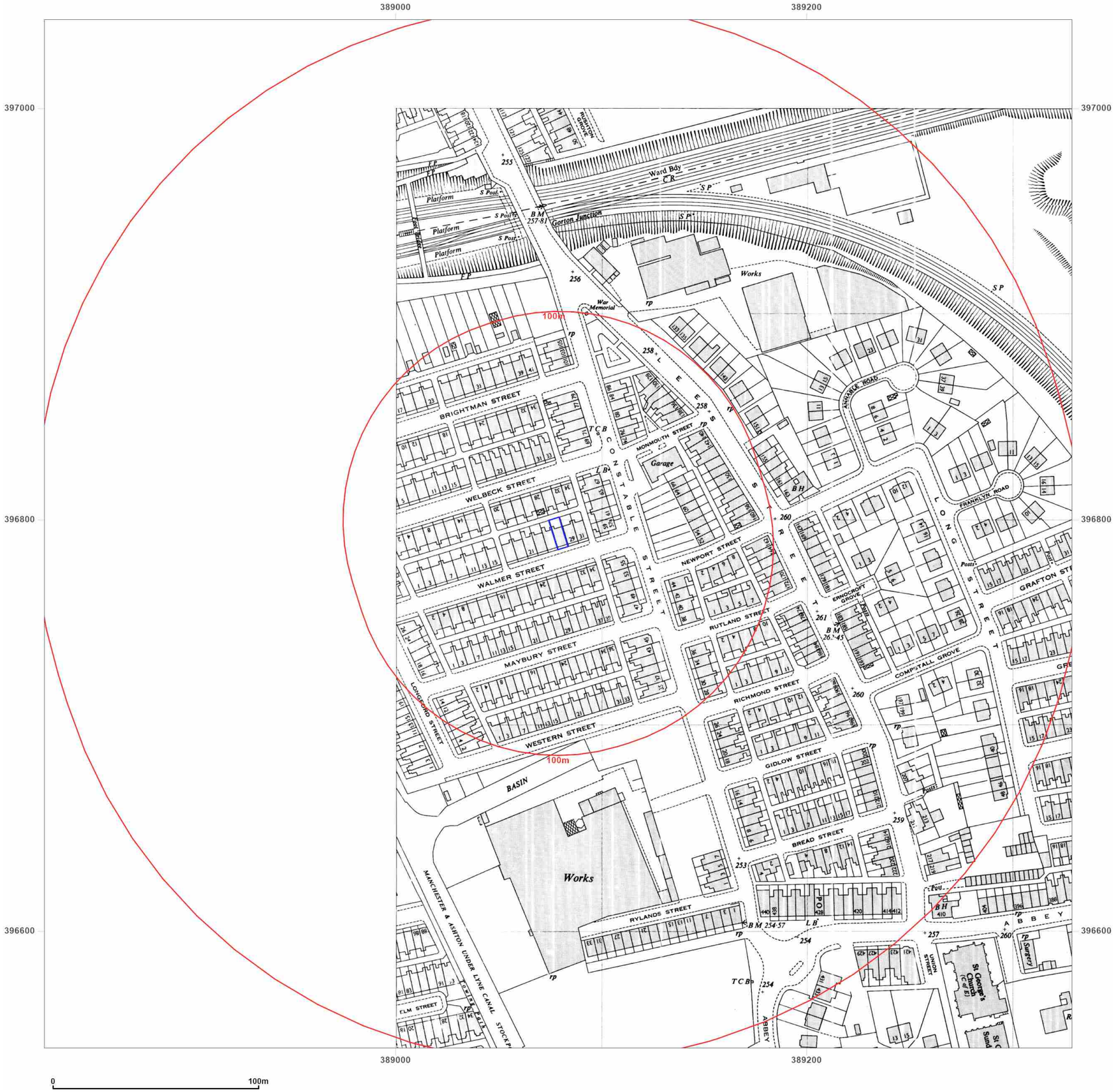
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Site Details:

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1958**

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

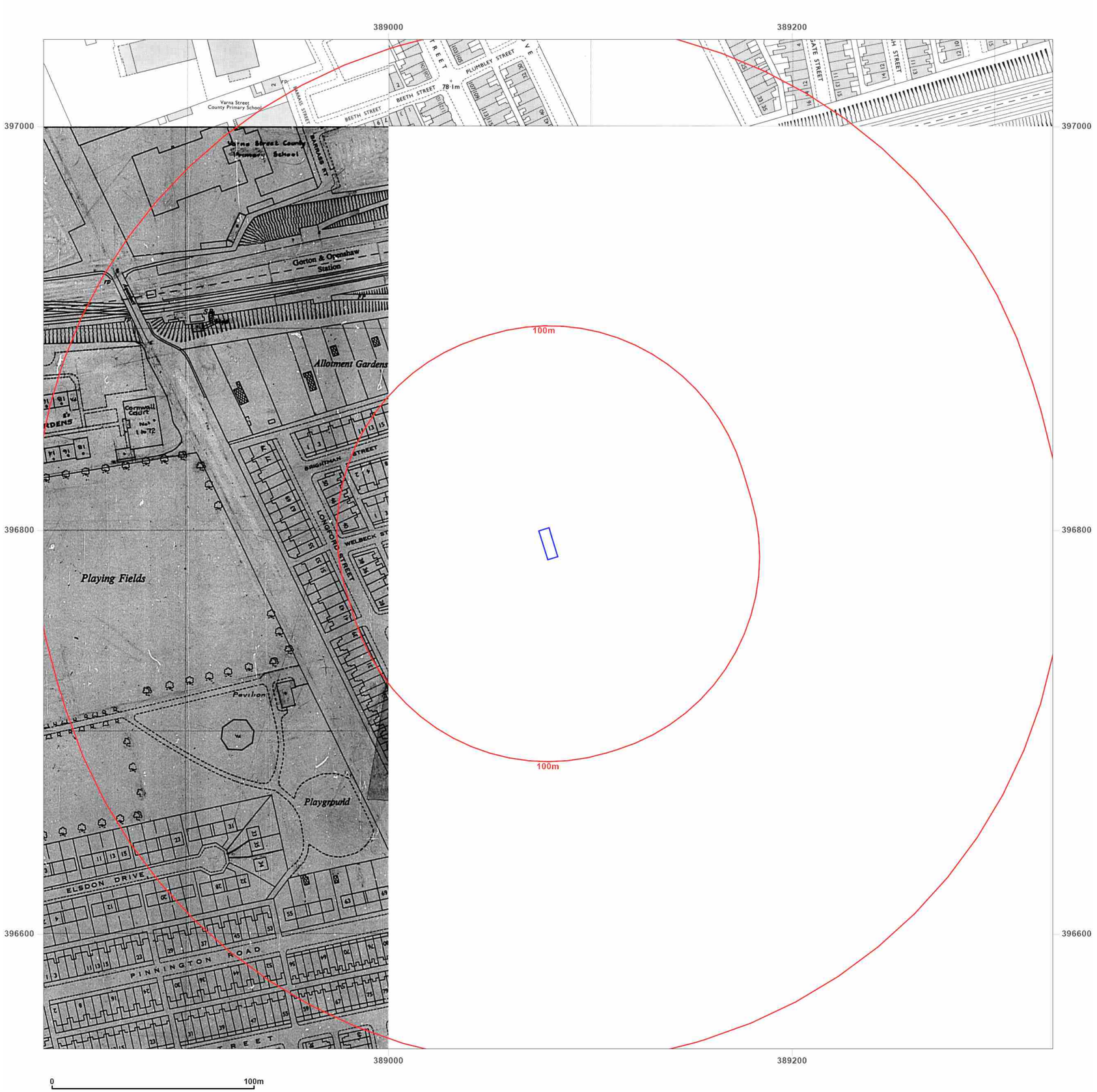
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1973-1978**

Scale: 1:1,250

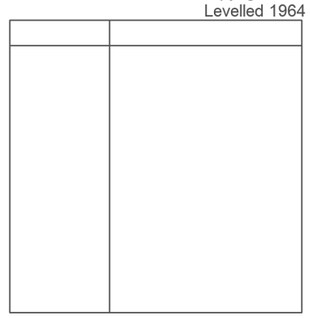
Printed at: 1:2,000

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Surveyed 1949
Revised 1975
Edition N/A
Copyright 1978
Levelled 1964

Surveyed 1949
Revised 1973
Edition N/A
Copyright 1973
Levelled 1964

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1978
Levelled 1964



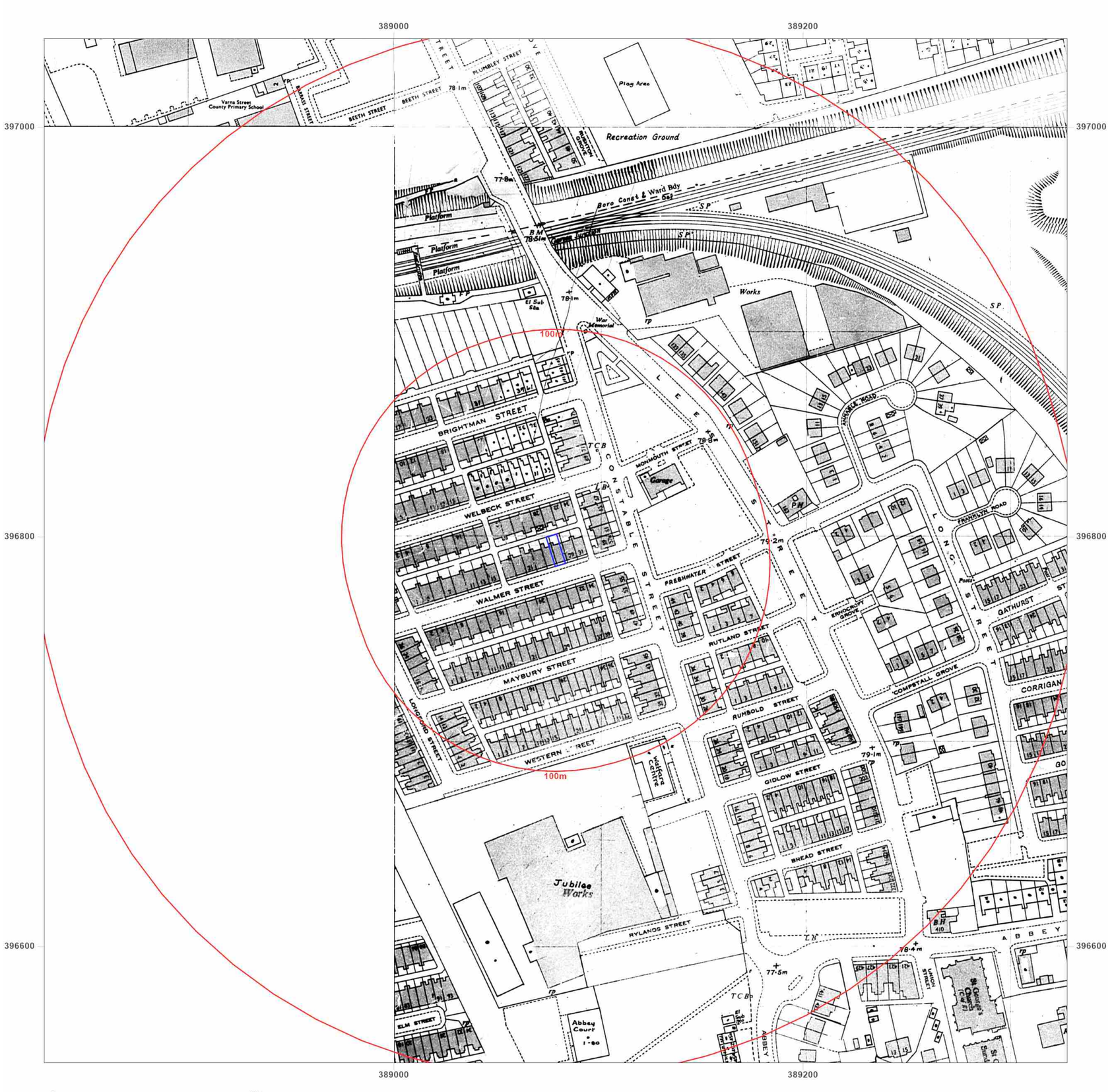
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1979-1981**

Scale: 1:1,250

Printed at: 1:2,000

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

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

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

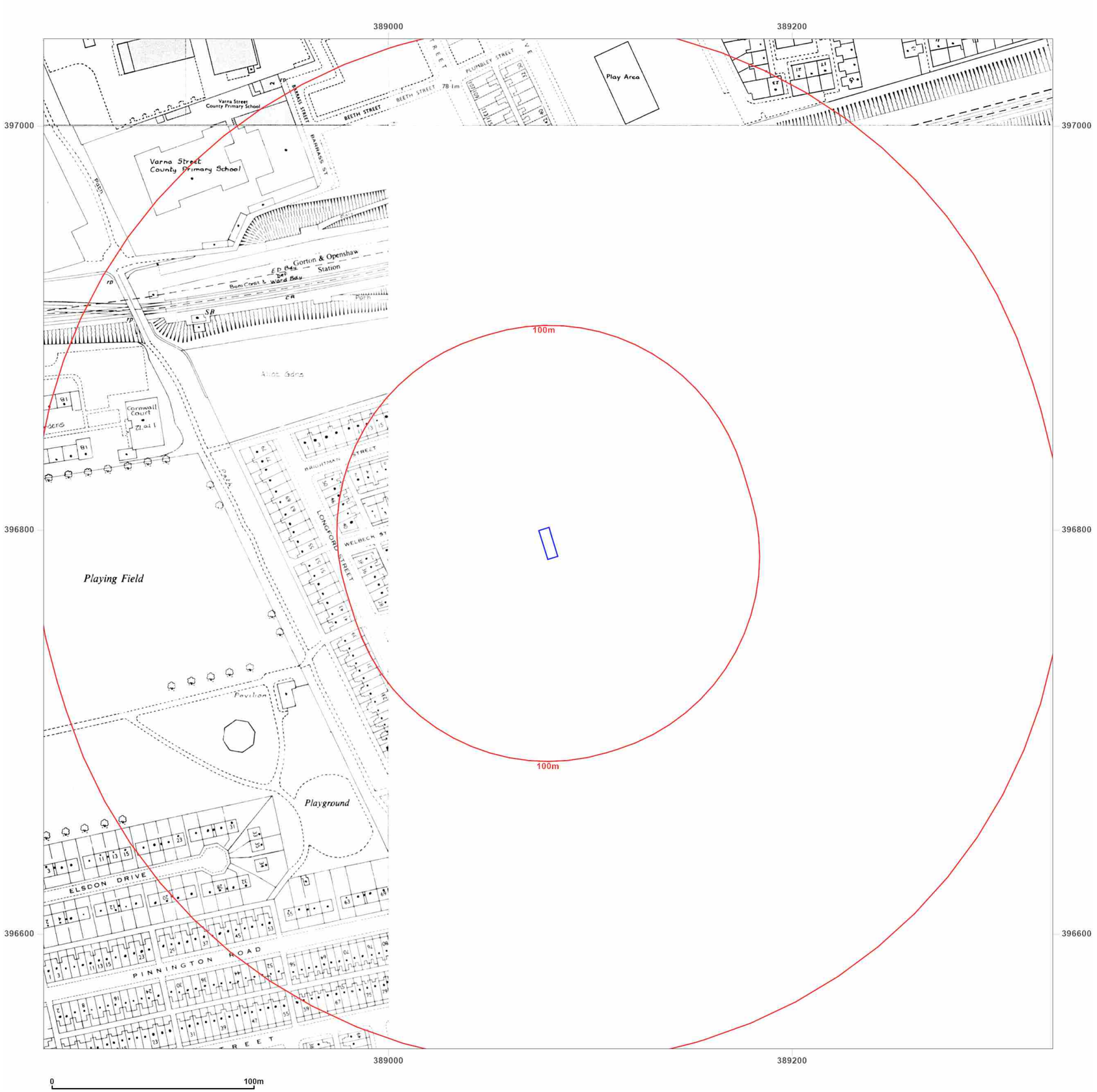
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1980-1985**

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

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

Surveyed 1964
Revised 1985
Edition N/A
Copyright 1985
Levelled 1964

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1987-1992**

Scale: 1:1,250

Printed at: 1:2,000

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Surveyed 1964 Revised 1991 Edition N/A Copyright 1991 Levelled 1964	Surveyed 1949 Revised 1986 Edition N/A Copyright 1987 Levelled 1964
Surveyed 1950 Revised 1985 Edition N/A Copyright 1987 Levelled 1964	Surveyed N/A Revised N/A Edition N/A Copyright 1992 Levelled N/A

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1987-1992**

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 1949 Revised 1986 Edition N/A Copyright 1987 Levelled 1964
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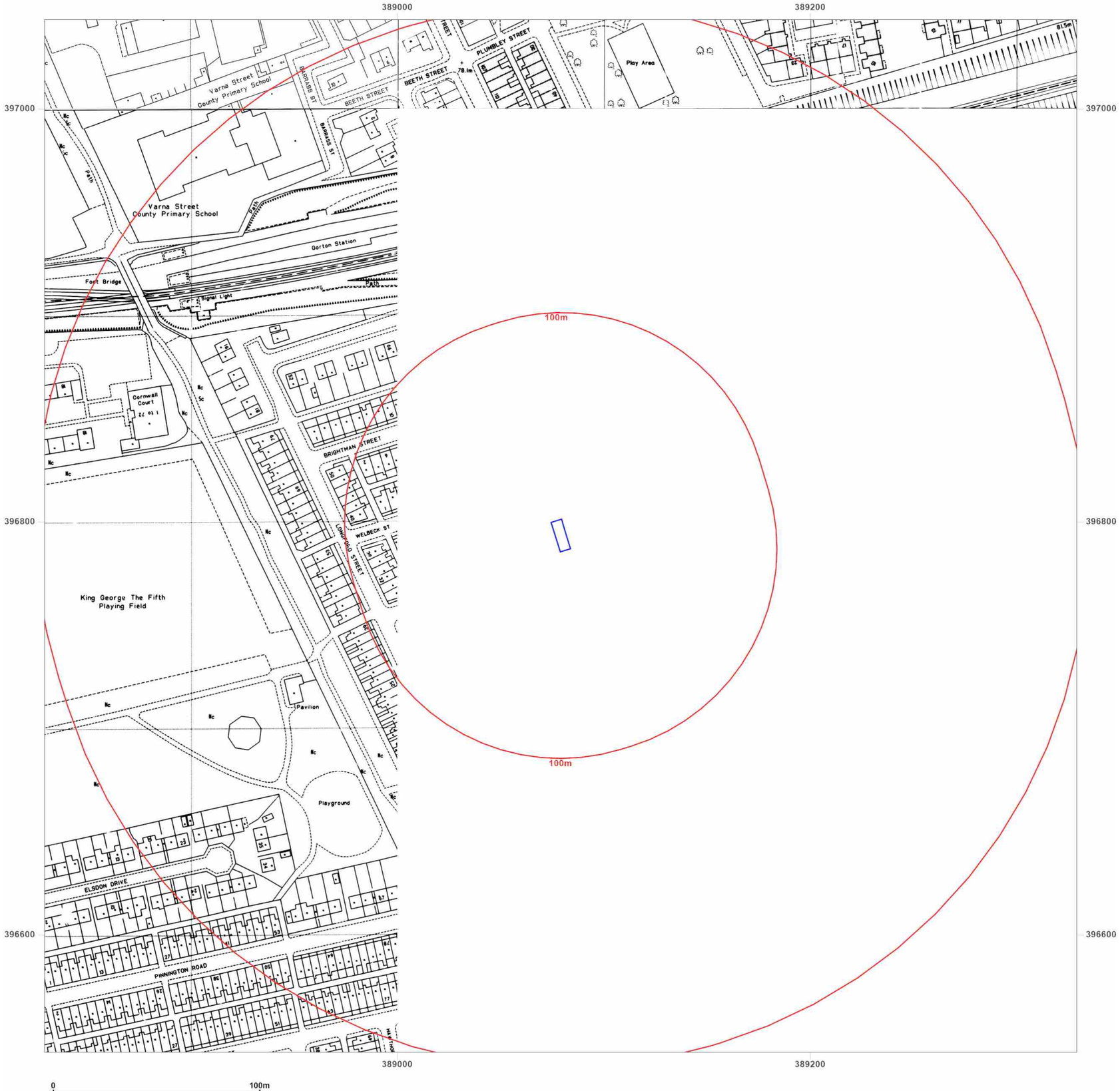
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1991-1995**

Scale: 1:1,250

Printed at: 1:2,000

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

Surveyed N/A
Revised 1991
Edition N/A
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Surveyed N/A
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

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

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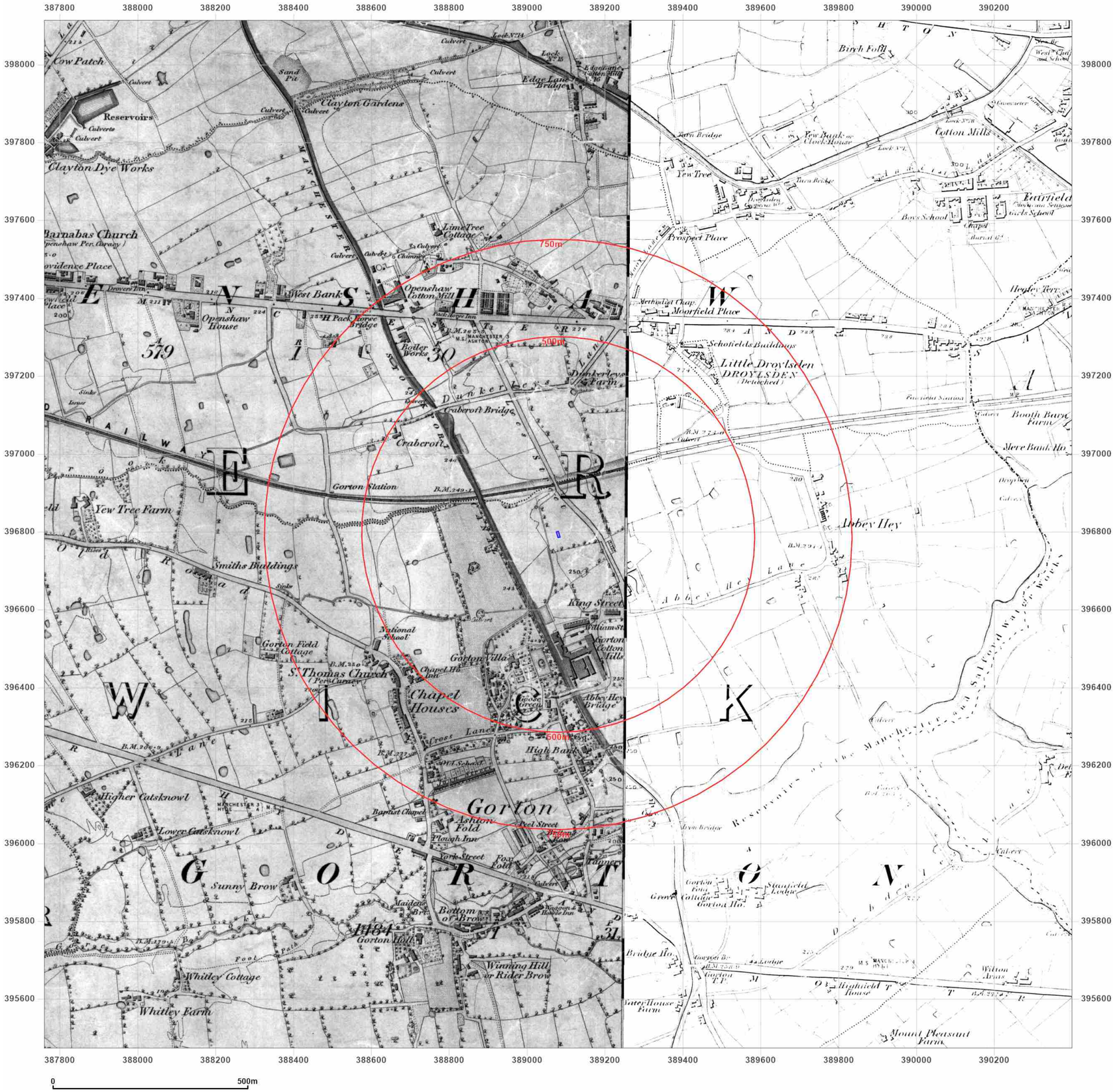
2003

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

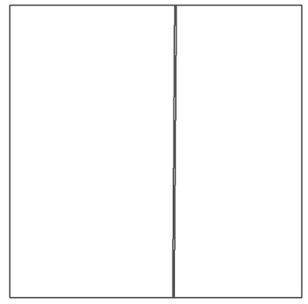
Map date: **1848**

Scale: 1:10,560

Printed at: 1:10,560

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



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

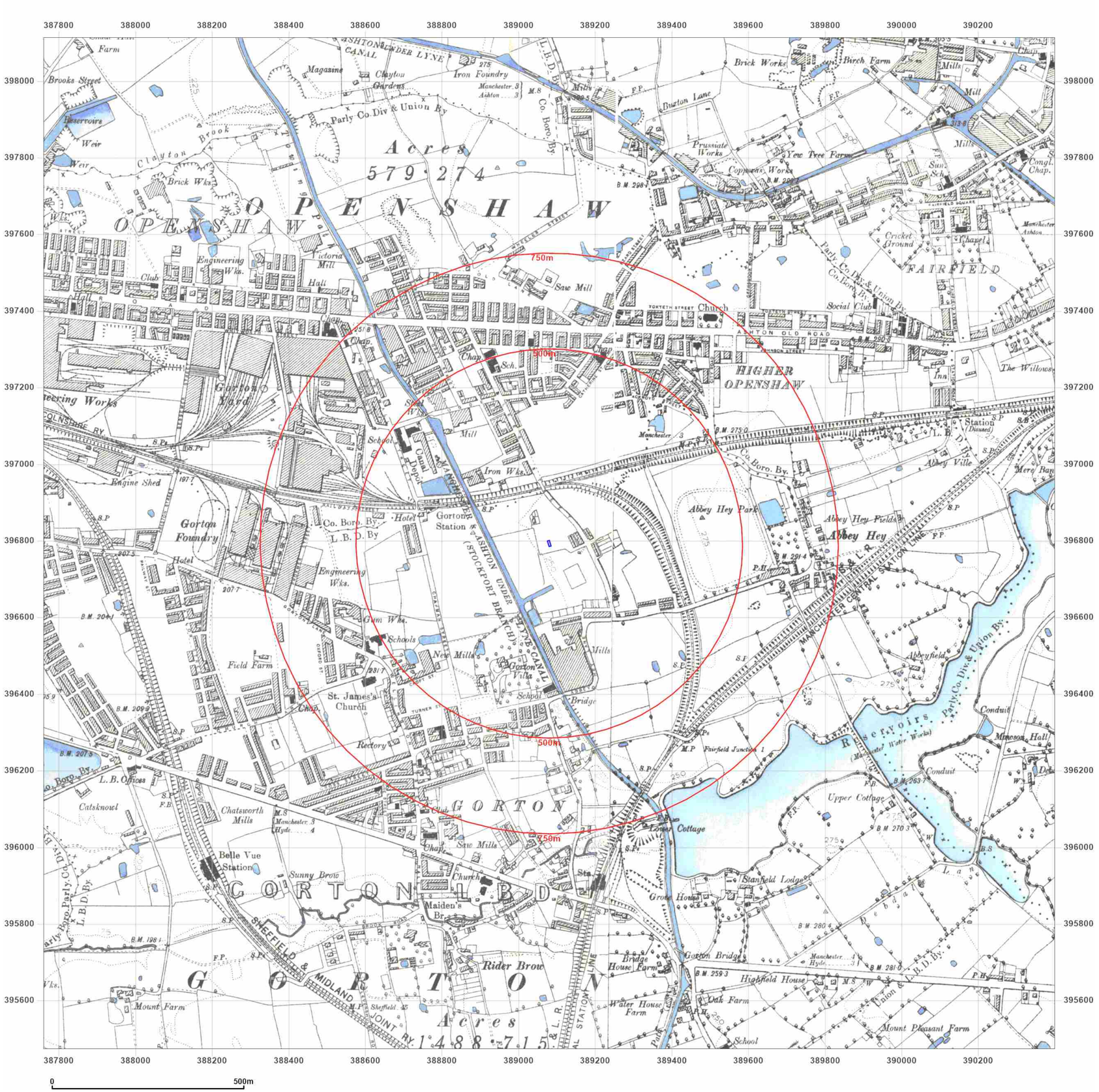
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Site Details:

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

Map date: **1890-1892**

Scale: 1:10,560

Printed at: 1:10,560

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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

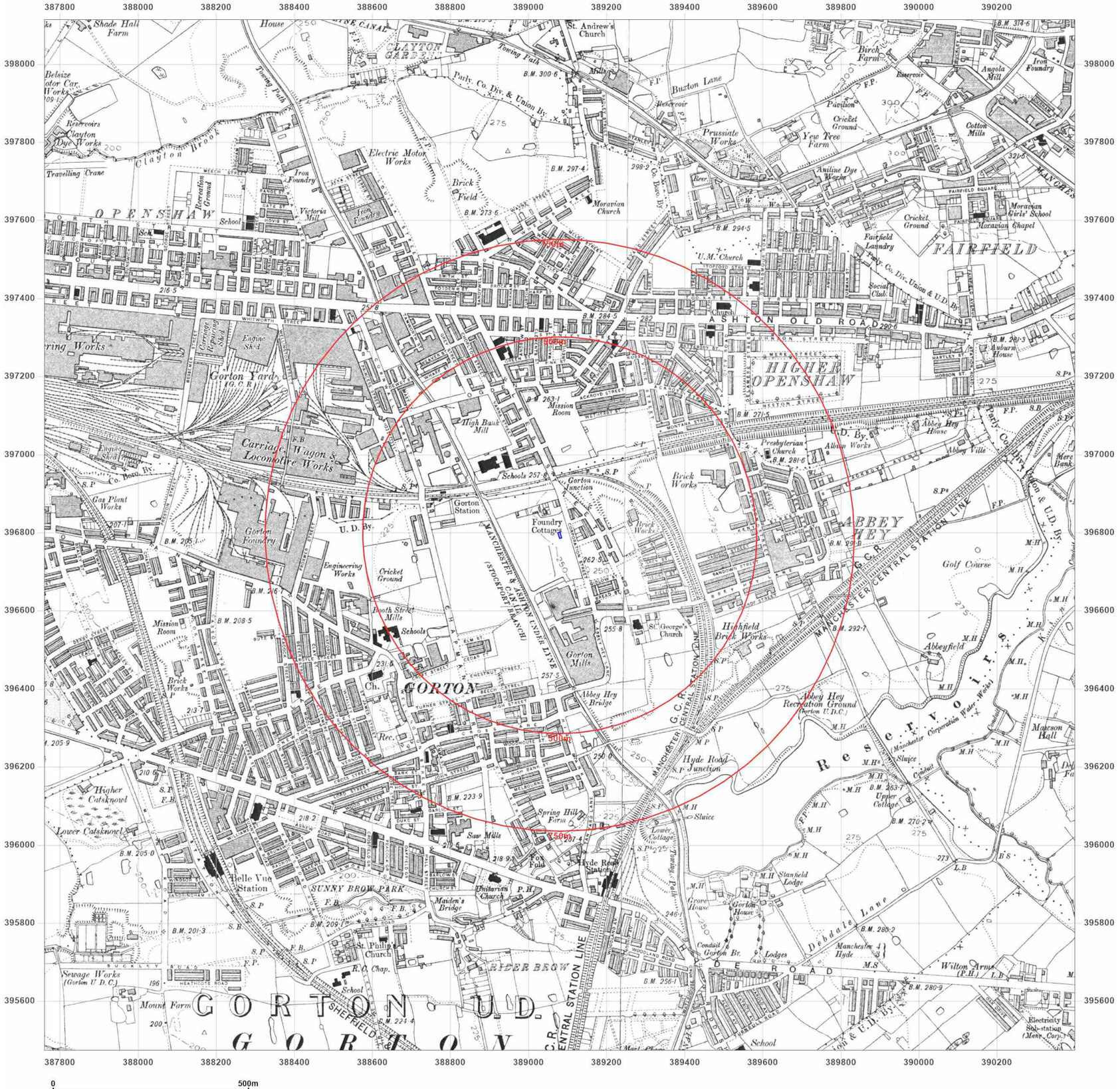
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Site Details:

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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

Map date: **1905-1906**

Scale: 1:10,560

Printed at: 1:10,560

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

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

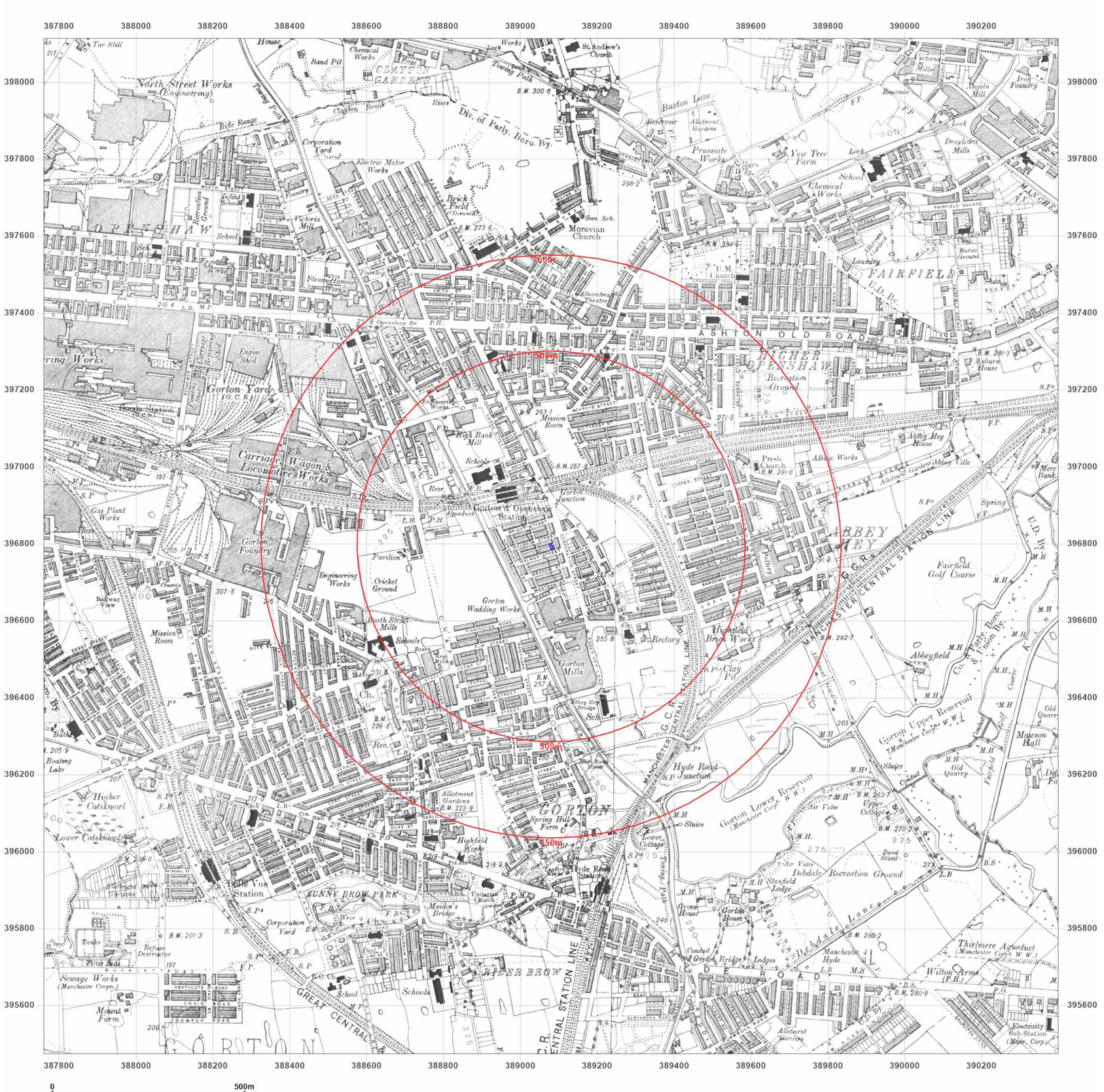
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Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

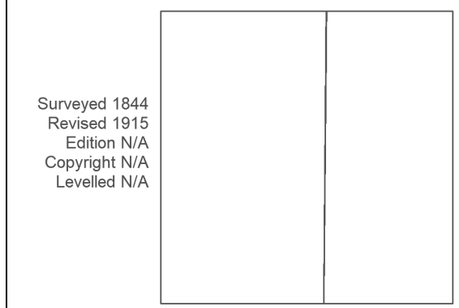
Map Name: County Series

Map date: **1915-1918**

Scale: 1:10,560

Printed at: 1:10,560

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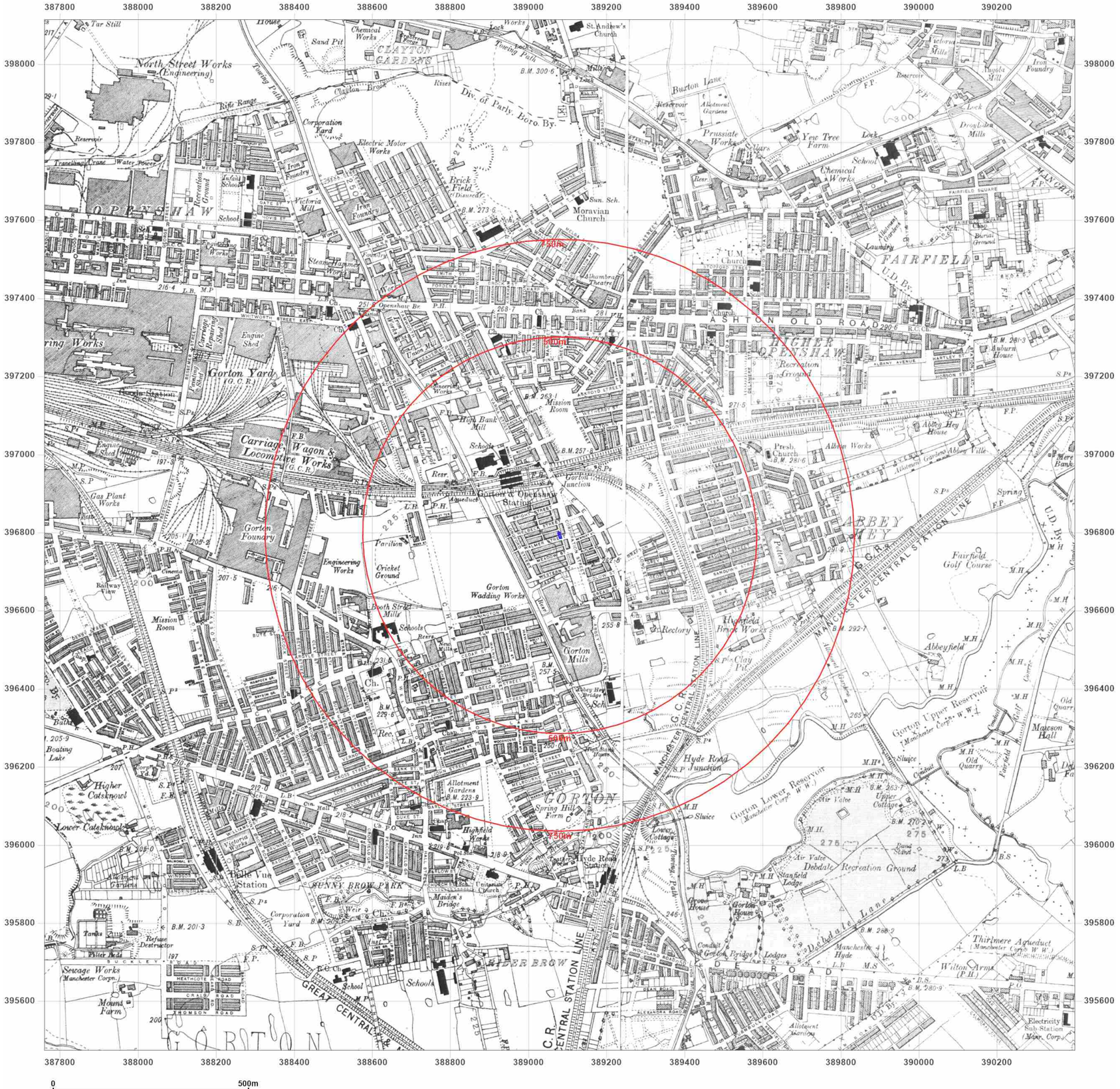
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Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

Map date: **1923**

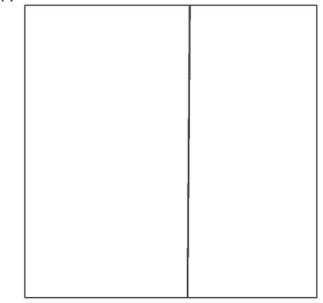
Scale: 1:10,560

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



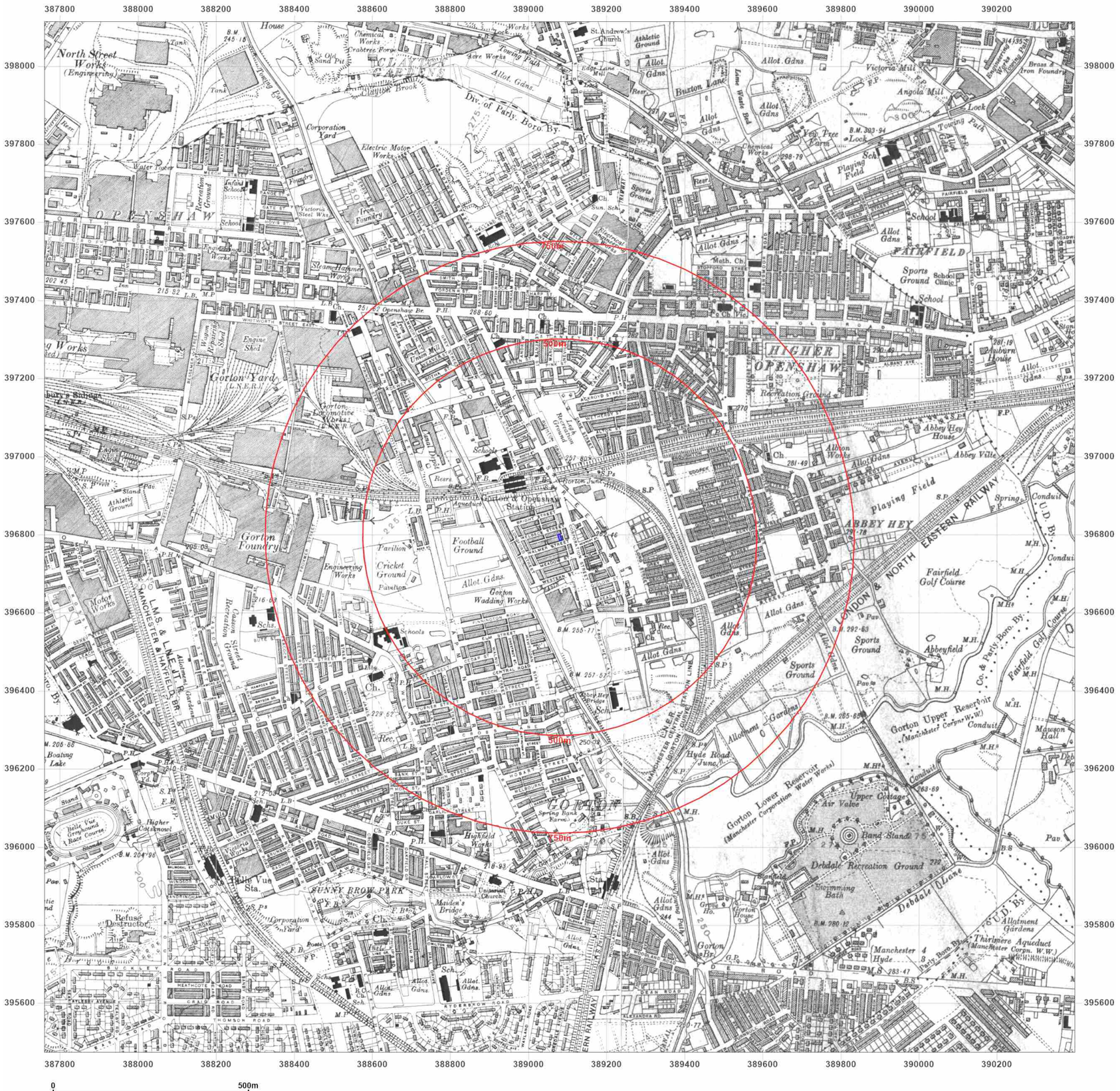
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Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

Map date: **1934**

Scale: 1:10,560

Printed at: 1:10,560

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

Surveyed 1844
Revised 1934
Edition N/A
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

Map date: **1934-1938**

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 1934
Edition N/A
Copyright N/A
Levelled N/A

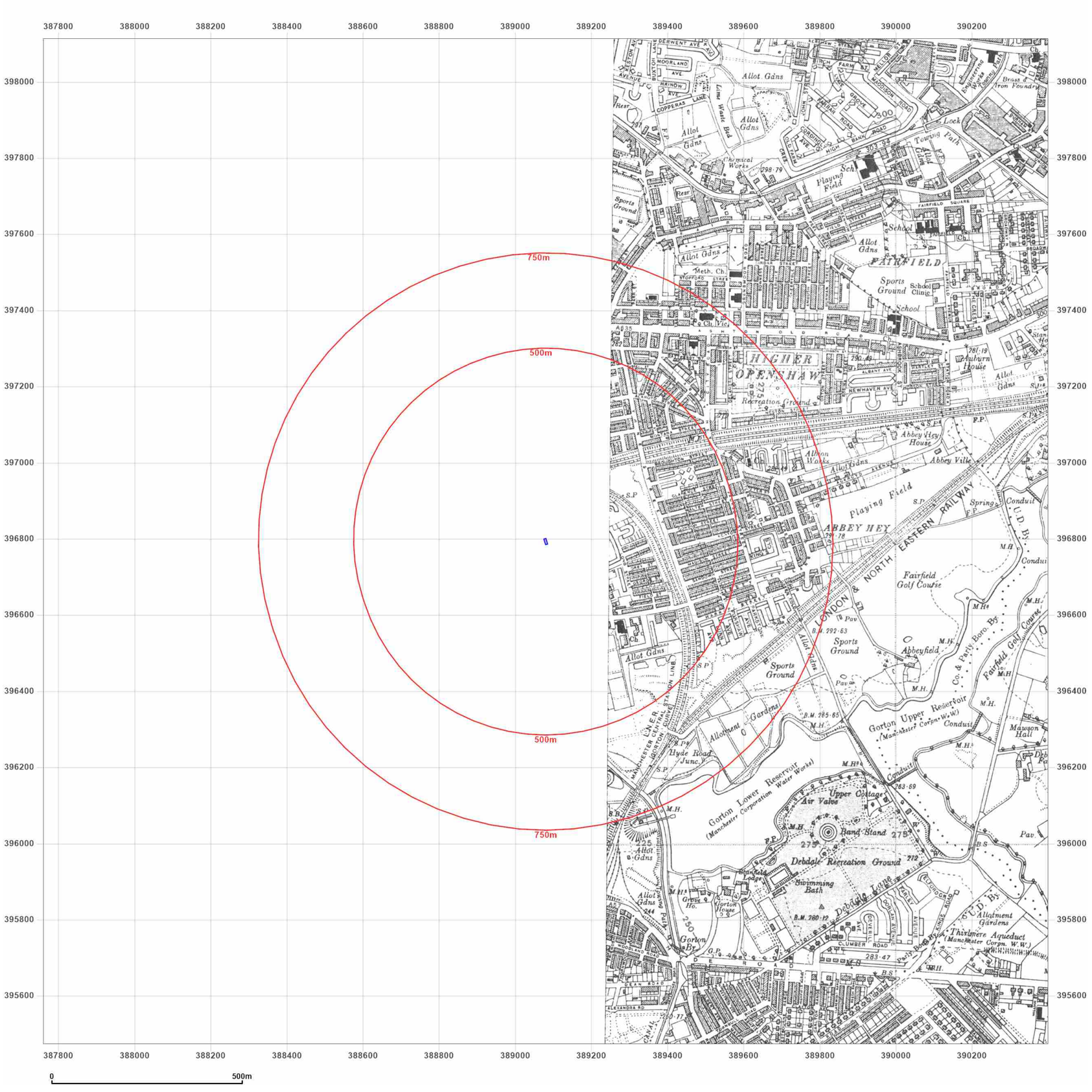
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: County Series

Map date: **1938**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1844
Revised 1938
Edition N/A
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: Provisional

Map date: **1954-1956**

Scale: 1:10,560

Printed at: 1:10,560

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Surveyed 1956	Surveyed N/A
Revised 1956	Revised 1954
Edition N/A	Edition N/A
Copyright N/A	Copyright 1954
Levelled N/A	Levelled N/A

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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

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

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

Surveyed 1960
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1981-1982**

Scale: 1:10,000

Printed at: 1:10,000

N W E S

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

Surveyed 1979
Revised 1982
Edition N/A
Copyright 1982
Levelled 1977

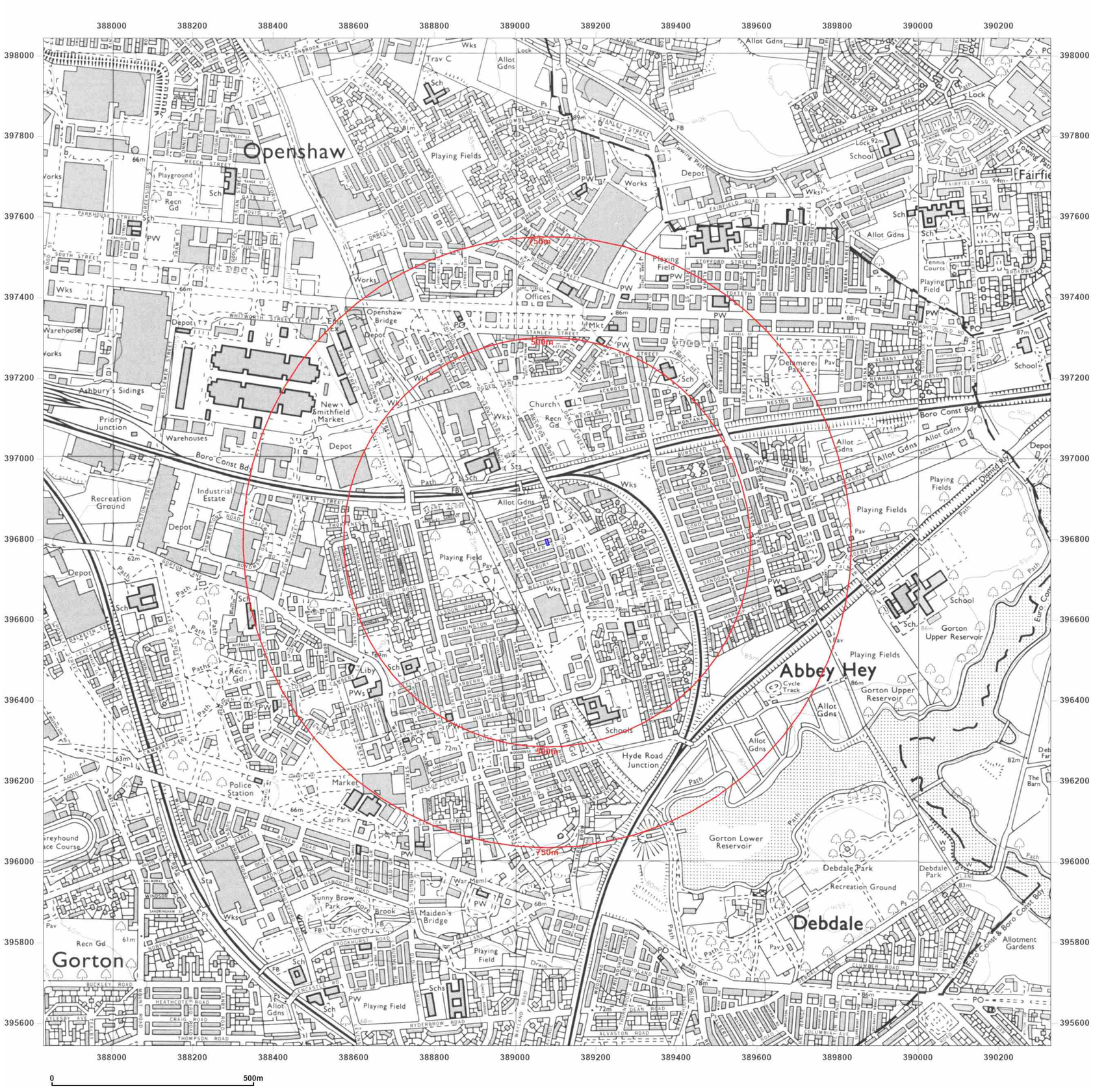
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **1985-1989**

Scale: 1:10,000

Printed at: 1:10,000

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Surveyed 1985	Surveyed 1988
Revised 1985	Revised 1989
Edition N/A	Edition N/A
Copyright N/A	Copyright N/A
Levelled N/A	Levelled N/A

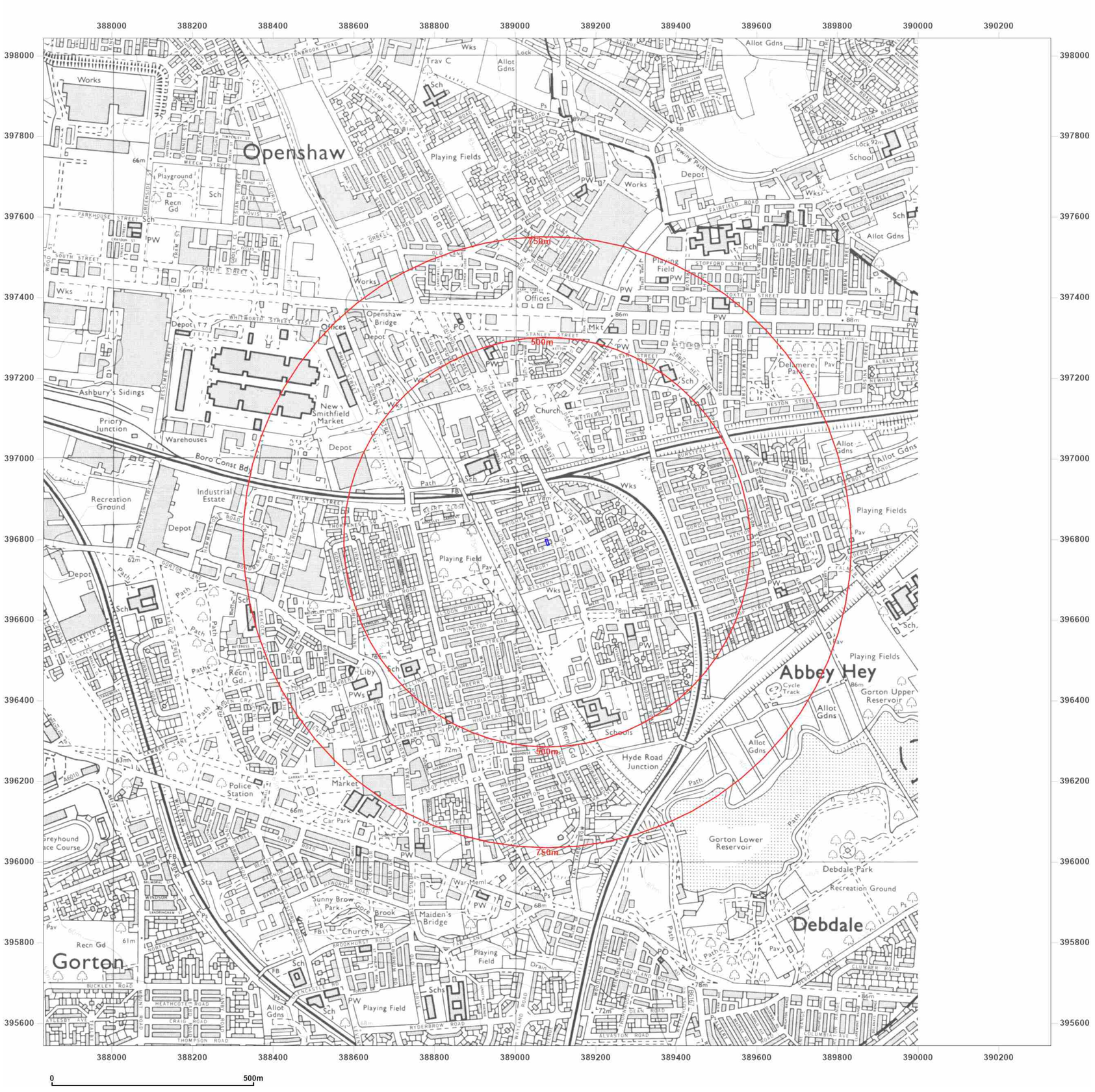
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

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

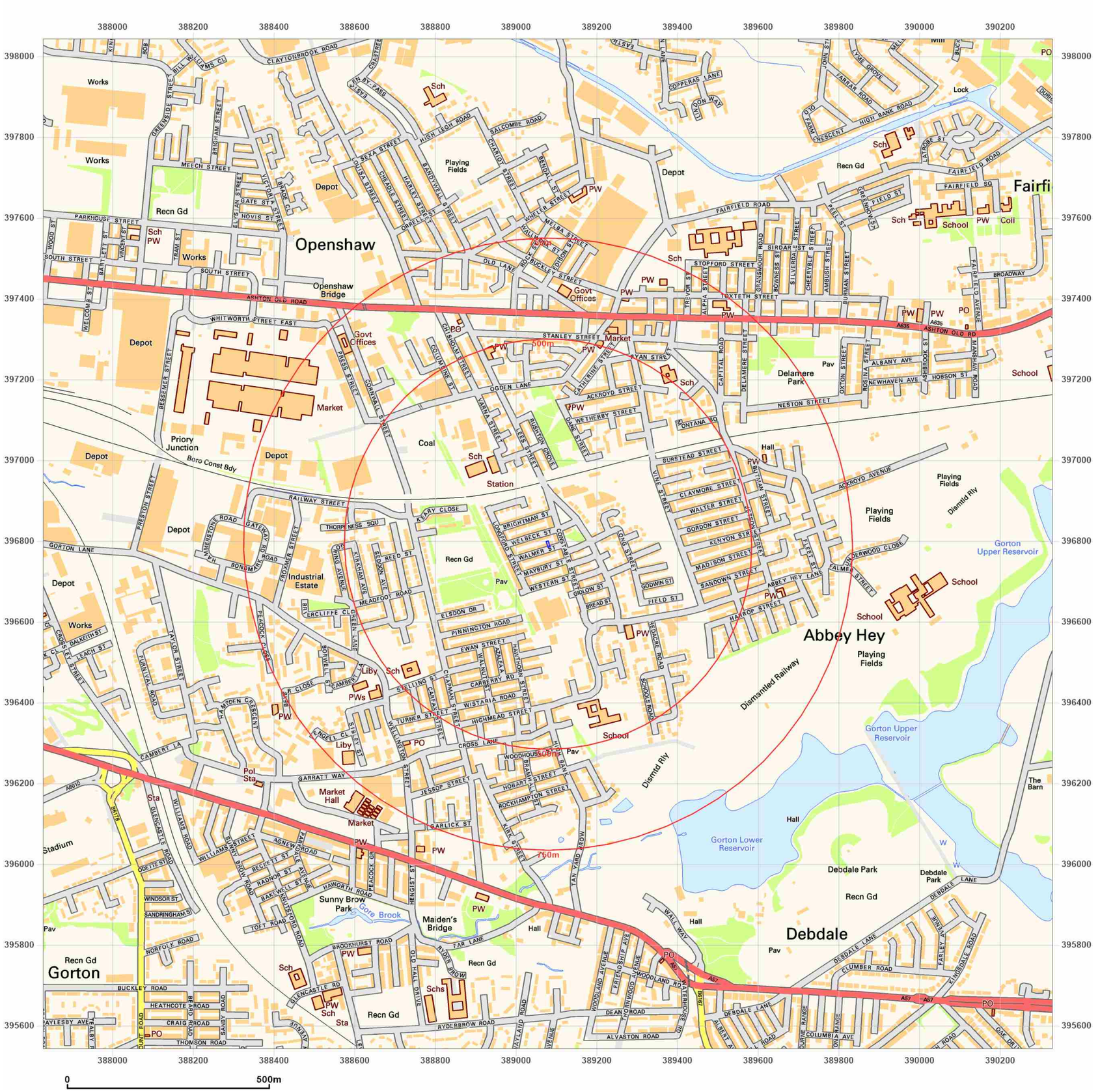
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **2001**

Scale: 1:10,000

Printed at: 1:10,000

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2001

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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid

Map date: **2010**

Scale: 1:10,000

Printed at: 1:10,000

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2010

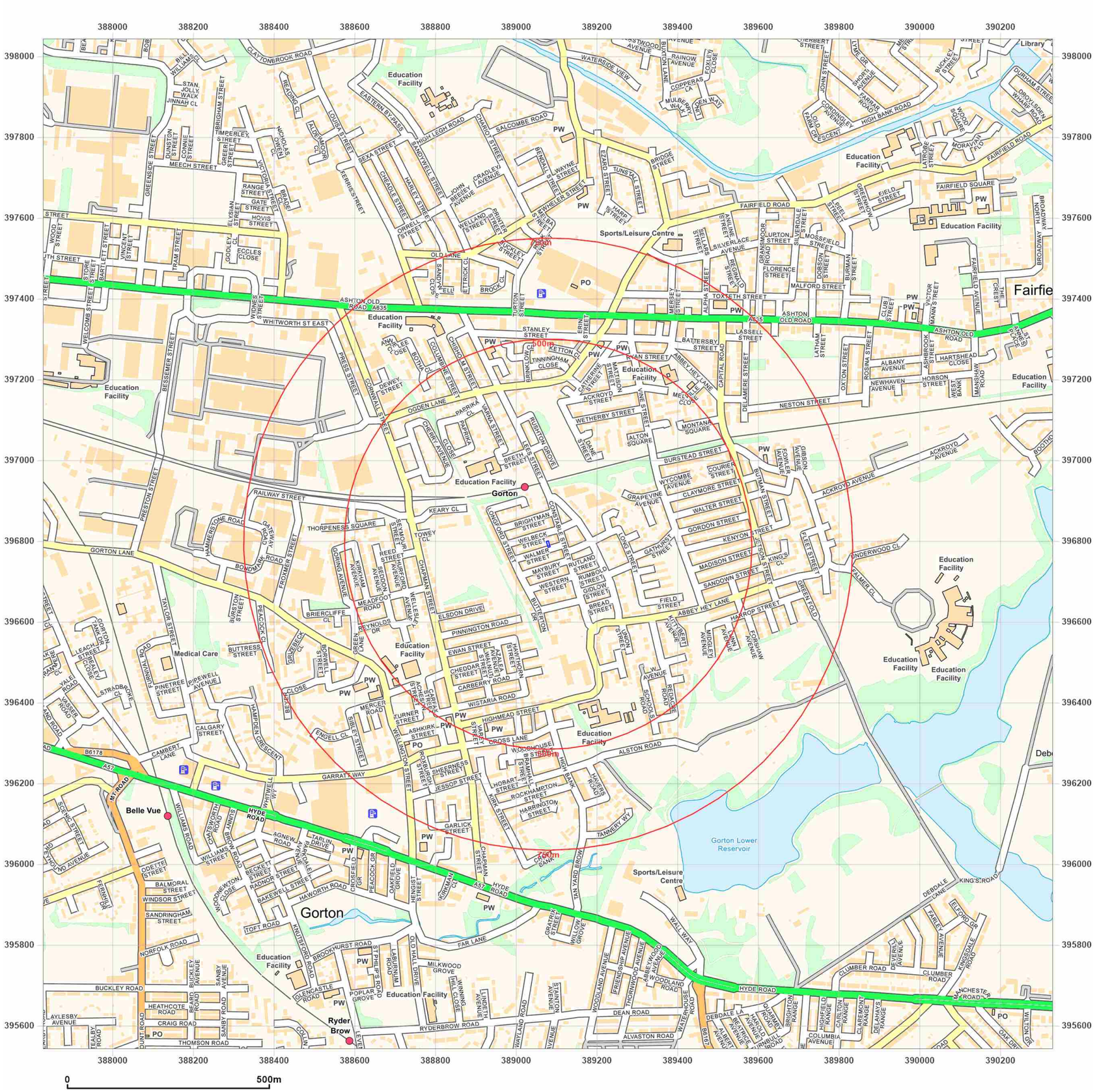
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Groundsure INSIGHTS

Site Details:

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Client Ref: G25046-KR
Report Ref: GS-RH5-SW6-YHZ-GPE
Grid Ref: 389079, 396793

Map Name: National Grid
Map date: **2025**
Scale: 1:10,000
Printed at: 1:10,000

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APPENDIX 2

GroundSure Enviro + GeoInsight Report

Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

27, WALMER STREET, GORTON, MANCHESTER, M18 8QP

Order Details

Date: 14/02/2025

Your ref: G25046-KR

Our Ref: GS-YB2-D2M-S95-8EL

Site Details

Location: 389079 396793

Area: 0.01 ha

Authority: Manchester City Council ↗



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan p.14 >

Insight User Guide ↗

Contact us with any questions at:
info@groundsure.com ↗
01273 257 755

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	0	54	73	-
20 >	1.2 >	Historical tanks >	0	0	2	15	-
21 >	1.3 >	Historical energy features >	0	0	2	7	-
22	1.4	Historical petrol stations	0	0	0	0	-
22 >	1.5 >	Historical garages >	0	1	0	2	-
23	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	2.1 >	Historical industrial land uses >	0	0	68	100	-
31 >	2.2 >	Historical tanks >	0	0	2	26	-
32 >	2.3 >	Historical energy features >	0	0	4	10	-
33	2.4	Historical petrol stations	0	0	0	0	-
33 >	2.5 >	Historical garages >	0	3	0	3	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
34	3.1	Active or recent landfill	0	0	0	0	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
35	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
35 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	2	-
36 >	3.5 >	Historical waste sites >	0	0	0	4	-
36 >	3.6 >	Licensed waste sites >	0	0	0	2	-
37 >	3.7 >	Waste exemptions >	0	2	3	0	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
39 >	4.1 >	Recent industrial land uses >	0	0	5	-	-
40 >	4.2 >	Current or recent petrol stations >	0	0	0	2	-
40	4.3	Electricity cables	0	0	0	0	-
40	4.4	Gas pipelines	0	0	0	0	-
41	4.5	Sites determined as Contaminated Land	0	0	0	0	-

41	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
41	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
41	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
42	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
42 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	0	0	1	3	-
43	4.12	Radioactive Substance Authorisations	0	0	0	0	-
43	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
43	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
43	4.15	Pollutant release to public sewer	0	0	0	0	-
43	4.16	List 1 Dangerous Substances	0	0	0	0	-
44	4.17	List 2 Dangerous Substances	0	0	0	0	-
44 >	**4.18 >**	**Pollution Incidents (EA/NRW) >**	0	0	9	0	-
45	4.19	Pollution inventory substances	0	0	0	0	-
45	4.20	Pollution inventory waste transfers	0	0	0	0	-
46	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
47 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
49 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
51 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
52	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
52	5.5	Groundwater vulnerability- local information	None (within 0m)				
53 >	**5.6 >**	**Groundwater abstractions >**	0	0	0	0	29
61 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	4
62	5.8	Potable abstractions	0	0	0	0	0
62	5.9	Source Protection Zones	0	0	0	0	-
62	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
63 >	**6.1 >**	**Water Network (OS MasterMap) >**	0	0	1	-	-

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

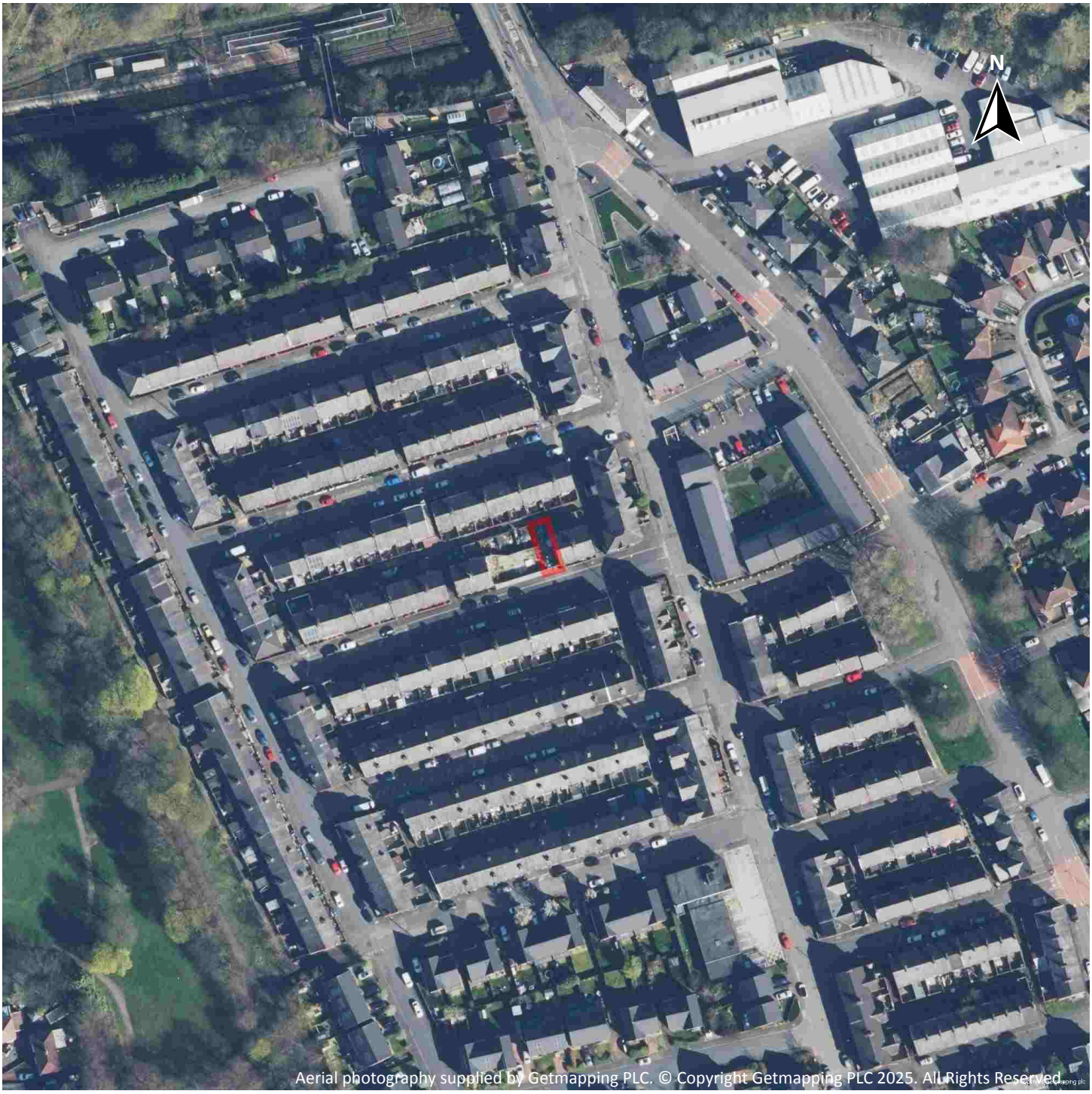
73	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
74	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
74	10.15	Nitrate Sensitive Areas	0	0	0	0	0
74	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
75 >	**10.17 >**	**SSSI Impact Risk Zones >**	1	-	-	-	-
76	10.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
77	11.1	World Heritage Sites	0	0	0	-	-
78	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
78	11.3	National Parks	0	0	0	-	-
78 >	**11.4 >**	**Listed Buildings >**	0	0	2	-	-
79	11.5	Conservation Areas	0	0	0	-	-
79	11.6	Scheduled Ancient Monuments	0	0	0	-	-
79	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
80 >	**12.1 >**	**Agricultural Land Classification >**	Urban (within 250m)				
81	12.2	Open Access Land	0	0	0	-	-
81	12.3	Tree Felling Licences	0	0	0	-	-
81	12.4	Environmental Stewardship Schemes	0	0	0	-	-
81	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
82	13.1	Priority Habitat Inventory	0	0	0	-	-
82	13.2	Habitat Networks	0	0	0	-	-
83 >	**13.3 >**	**Open Mosaic Habitat >**	0	0	1	-	-
83	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	**Geology 1:10,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
84 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
85 >	**14.2 >**	**Artificial and made ground (10k) >**	0	0	5	6	-
87 >	**14.3 >**	**Superficial geology (10k) >**	1	0	0	0	-

88	14.4	Landslip (10k)	0	0	0	0	-
89 >	14.5 >	Bedrock geology (10k) >	1	0	1	0	-
90	14.6	Bedrock faults and other linear features (10k)	0	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	15.1 >	50k Availability >	Identified (within 500m)				
92 >	15.2 >	Artificial and made ground (50k) >	0	0	0	1	-
93	15.3	Artificial ground permeability (50k)	0	0	-	-	-
94 >	15.4 >	Superficial geology (50k) >	1	0	0	0	-
95 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
95	15.6	Landslip (50k)	0	0	0	0	-
95	15.7	Landslip permeability (50k)	None (within 50m)				
96 >	15.8 >	Bedrock geology (50k) >	1	0	1	0	-
97 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
97	15.10	Bedrock faults and other linear features (50k)	0	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
98 >	16.1 >	BGS Boreholes >	0	0	6	-	-
Page	Section	Natural ground subsidence >					
100 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
101 >	17.2 >	Running sands >	Very low (within 50m)				
102 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
103 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
104 >	17.5 >	Landslides >	Very low (within 50m)				
105 >	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
107 >	18.1 >	BritPits >	0	0	1	1	-
108 >	18.2 >	Surface ground workings >	0	0	44	-	-
110	18.3	Underground workings	0	0	0	0	0
110	18.4	Underground mining extents	0	0	0	0	-
110	18.5	Historical Mineral Planning Areas	0	0	0	0	-

110	18.6	Non-coal mining	0	0	0	0	0
111 >	18.7 >	JPB mining areas >	Identified (within 0m)				
111	18.8	The Coal Authority non-coal mining	0	0	0	0	-
111 >	18.9 >	Researched mining >	0	0	0	1	-
112	18.10	Mining record office plans	0	0	0	0	-
112	18.11	BGS mine plans	0	0	0	0	-
112 >	18.12 >	Coal mining >	Identified (within 0m)				
112	18.13	Brine areas	None (within 0m)				
113	18.14	Gypsum areas	None (within 0m)				
113	18.15	Tin mining	None (within 0m)				
113	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes >	On site	0-50m	50-250m	250-500m	500-2000m
114	19.1	Natural cavities	0	0	0	0	-
115	19.2	Mining cavities	0	0	0	0	0
115 >	19.3 >	Reported recent incidents >	0	2	0	0	-
115	19.4	Historical incidents	0	0	0	0	-
Page	Section	Radon >					
117 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
119 >	21.1 >	BGS Estimated Background Soil Chemistry >	1	0	-	-	-
119 >	21.2 >	BGS Estimated Urban Soil Chemistry >	2	2	-	-	-
120	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
121	22.1	Underground railways (London)	0	0	0	-	-
121	22.2	Underground railways (Non-London)	0	0	0	-	-
122	22.3	Railway tunnels	0	0	0	-	-
122 >	22.4 >	Historical railway and tunnel features >	0	0	13	-	-
123	22.5	Royal Mail tunnels	0	0	0	-	-
123 >	22.6 >	Historical railways >	0	0	1	-	-

123 >	22.7 >	Railways >	0	0	12	-	-
124	22.8	Crossrail 2	0	0	0	0	-
124	22.9	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 07/04/2023

Site Area: 0.01ha

Recent site history - 2022 aerial photograph



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Capture Date: 18/10/2022

Site Area: 0.01ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 0.01ha

Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.01ha

Recent site history - 2000 aerial photograph



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Capture Date: 19/06/2000

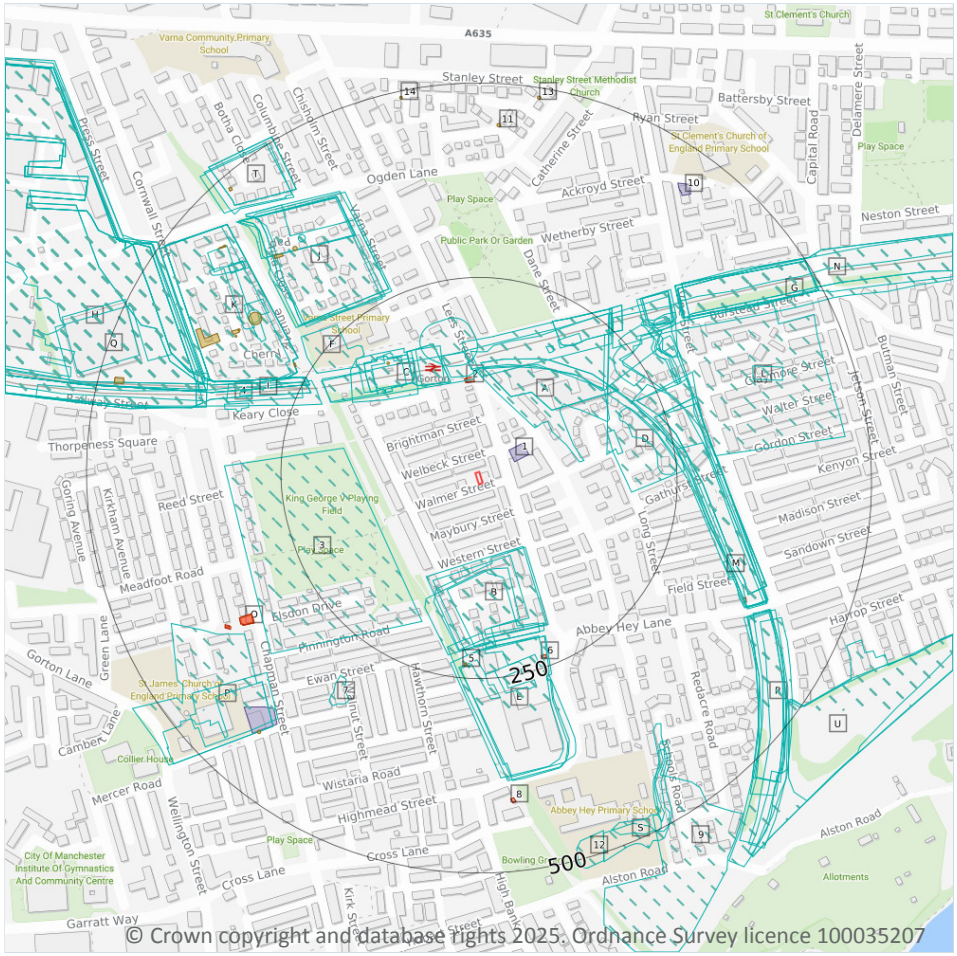
Site Area: 0.01ha

OS MasterMap site plan



Site Area: 0.01ha

1 Past land use



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Site Outline

Search buffers in metres (m)

- Historical industrial land uses
- Historical tanks
- Historical energy features
- Historical garages

1.1 Historical industrial land uses

Records within 500m	127

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	90m NE	Unspecified Ground Workings	1905	812949

ID	Location	Land use	Dates present	Group ID
B	93m S	Unspecified Works	1981	886353
B	95m S	Unspecified Works	1968	862047
B	99m S	Unspecified Works	1985 - 1991	958348
A	105m N	Unspecified Works	1985 - 1991	879003
A	105m N	Unspecified Works	1968 - 1981	973964
B	110m S	Wadding Works	1934	821578
B	111m S	Unspecified Works	1923	928323
C	119m N	Cuttings	1848	903046
C	121m N	Cuttings	1934 - 1938	891732
C	121m N	Cuttings	1915	995113
A	122m N	Cuttings	1848	985489
C	124m N	Cuttings	1923	896040
A	124m N	Cuttings	1890	917991
C	126m NW	Cuttings	1923	868063
A	132m N	Cuttings	1923 - 1934	891514
C	139m N	Railway Station	1985 - 1991	973915
C	139m NW	Railway Station	1956 - 1968	888494
3	139m SW	Wadding Works	1915	821579
C	142m NW	Railway Station	1934 - 1938	916393
C	142m NW	Railway Station	1915	991827
C	144m NW	Railway Station	1923	889446
C	162m NW	Cuttings	1890	965680
D	164m E	Brick Works	1906	818337
D	172m E	Railway Sidings	1906	857365
A	177m NE	Railway Building	1923	853986
A	190m NE	Railway Building	1968 - 1981	1004587
E	191m S	Unspecified Mills	1890 - 1905	879976
D	193m NE	Unspecified Pit	1906	829289

ID	Location	Land use	Dates present	Group ID
D	193m NE	Cuttings	1892	968072
A	195m NE	Cuttings	1938	903613
A	195m NE	Cuttings	1915	971258
D	202m NE	Cuttings	1918	874994
F	204m NW	Iron Works	1890	808483
E	207m S	Unspecified Mills	1923	882921
E	209m S	Unspecified Mills	1915	1002766
D	215m NE	Cuttings	1934 - 1938	885289
D	215m NE	Cuttings	1906	959016
4	216m NW	Cuttings	1848	807699
A	218m NE	Unspecified Ground Workings	1906	972220
D	223m NE	Cuttings	1981	1001804
E	226m S	Cotton Mills	1848	825899
G	234m NE	Cuttings	1845	892534
H	235m NW	Railway Sidings	1905	891028
H	235m NW	Railway Sidings	1923	1007451
D	236m E	Cuttings	1923	973122
H	242m NW	Railway Sidings	1915	916181
H	242m NW	Railway Sidings	1915	916798
H	242m NW	Railway Sidings	1934	964798
H	242m NW	Railway Sidings	1938	1005550
D	242m E	Cuttings	1968	915929
D	242m E	Cuttings	1985 - 1991	920699
I	242m NW	Railway Sidings	1991	910089
A	245m NE	Cuttings	1938	859259
D	253m E	Cuttings	1934	935340
J	254m NW	Unspecified Mill	1905	943736
J	256m NW	Unspecified Commercial/Industrial	1934	822037

ID	Location	Land use	Dates present	Group ID
J	257m NW	Unspecified Works	1985	878482
J	262m NW	Unspecified Works	1968	942881
J	262m NW	Unspecified Works	1981	958721
K	263m NW	Unspecified Commercial/Industrial	1905	822039
K	263m NW	Canal Depot	1915	873140
K	263m NW	Canal Depot	1934 - 1938	931108
K	263m NW	Canal Depot	1890	949440
K	270m NW	Canal Depot	1923	878427
A	271m NE	Unspecified Ground Workings	1934	893570
A	274m NE	Unspecified Ground Workings	1934 - 1938	878179
A	281m NE	Unspecified Heap	1968 - 1981	999871
A	283m NE	Unspecified Heap	1985 - 1991	951353
A	284m NE	Cuttings	1918	977199
A	288m NE	Cuttings	1938	958796
A	288m NE	Cuttings	1934	968610
A	290m NE	Cuttings	1923	887597
L	293m E	Brick Works	1906	818427
7	303m SW	Unspecified Mills	1890	821873
I	304m W	Railway Station	1890 - 1905	1004568
I	305m W	Railway Station	1905	818785
K	320m NW	Railway Sidings	1934 - 1938	874435
M	325m E	Railway Building	1934 - 1938	870477
N	327m NE	Railway Sidings	1906	929149
G	327m NE	Cuttings	1934	971078
G	329m NE	Cuttings	1923	939349
G	330m NE	Cuttings	1934 - 1938	893909
G	330m NE	Cuttings	1892	962412
G	330m NE	Cuttings	1906 - 1918	1006629

ID	Location	Land use	Dates present	Group ID
N	337m NE	Cuttings	1956 - 1981	913436
N	337m NE	Cuttings	1985 - 1991	942500
K	340m NW	Unspecified Depot	1968	821122
K	341m NW	Unspecified Tank	1905	851182
J	342m NW	Unspecified Mill	1915 - 1923	909050
J	344m NW	Unspecified Mill	1890	968049
H	356m W	Railway Sidings	1890	905056
H	356m W	Unspecified Yard	1890	937063
P	358m SW	Unspecified Mills	1915 - 1923	876374
Q	361m W	Unspecified Depot	1985 - 1991	927628
H	363m W	Railway Sidings	1968	956823
P	365m SW	Unspecified Works	1968	835288
H	368m W	Locomotive Works	1938 - 1956	886614
H	368m W	Locomotive Works	1968	886972
H	368m W	Railway Sidings	1956	919186
H	369m W	Locomotive Works	1905	957167
H	369m W	Carriage, Wagon and Locomotive Works	1915 - 1923	964753
H	370m W	Locomotive Works	1934	984745
J	371m NW	Chimney	1968	853036
L	372m E	Railway Sidings	1906	857678
P	377m SW	Unspecified Commercial/Industrial	1934	822344
R	378m SE	Cuttings	1923 - 1938	889021
R	381m SE	Cuttings	1892	868147
S	382m SE	Unspecified Ground Workings	1906	953511
R	383m SE	Cuttings	1906	970313
R	385m SE	Cuttings	1918	990433
R	386m SE	Cuttings	1956 - 1981	974557
K	393m NW	Railway Sidings	1938	1004762

ID	Location	Land use	Dates present	Group ID
K	396m NW	Railway Sidings	1915	866534
K	396m NW	Railway Sidings	1934	899987
R	399m SE	Cuttings	1985 - 1991	876574
S	404m SE	Unspecified Ground Workings	1918 - 1923	897173
9	412m SE	Refuse Heap	1934 - 1938	978939
T	425m NW	Steel Works	1890	852893
T	429m NW	Engineering Works	1915 - 1923	956238
T	432m NW	Unspecified Works	1968 - 1981	889895
T	432m NW	Unspecified Works	1985 - 1991	956369
Q	458m W	Unspecified Warehouse	1981	848249
12	473m S	Unspecified Pit	1905	829287
U	482m SE	Brick Works	1923	949634
U	483m SE	Brick Works	1906	951604
U	483m SE	Brick Works	1918	887080

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**17**

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
C	179m NW	Unspecified Tank	1893	115209
5	230m S	Unspecified Tank	1922	120569
F	268m NW	Unspecified Tank	1933	115197
K	338m NW	Unspecified Tank	1893 - 1908	145930

ID	Location	Land use	Dates present	Group ID
K	353m NW	Unspecified Tank	1893 - 1908	139523
K	353m NW	Tanks	1933	108676
K	354m NW	Unspecified Tank	1893 - 1908	126849
J	368m NW	Unspecified Tank	1893	115206
K	369m NW	Tanks	1922 - 1933	137128
J	373m NW	Unspecified Tank	1978	115201
P	424m SW	Unspecified Tank	1893	120571
K	433m NW	Tanks	1949	108674
11	444m N	Unspecified Tank	1987 - 1992	155322
Q	467m W	Unspecified Tank	1985 - 1996	133772
T	480m NW	Unspecified Tank	1978 - 1980	127713
13	485m N	Unspecified Tank	1987 - 1992	155572
14	490m N	Unspecified Tank	1995	115196

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**9**

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
2	116m N	Electricity Substation	1979 - 1991	76927
6	234m S	Electricity Substation	1979 - 1991	77689
O	336m SW	Electricity Substation	1950	83113
O	337m SW	Electricity Substation	1950 - 1985	80255
O	337m SW	Electricity Substation	1991	72068

ID	Location	Land use	Dates present	Group ID
M	366m SE	Electricity Substation	1991	65908
O	368m SW	Electricity Substation	1996	84003
O	368m SW	Electricity Substation	1987	84296
8	406m S	Electricity Substation	1981 - 1991	69589

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	3

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
1	47m NE	Garage	1957 - 1991	29348
P	391m SW	Garage	1992	22549
10	441m NE	Garage	1949 - 1973	27236

This data is sourced from Ordnance Survey / Groundsure.

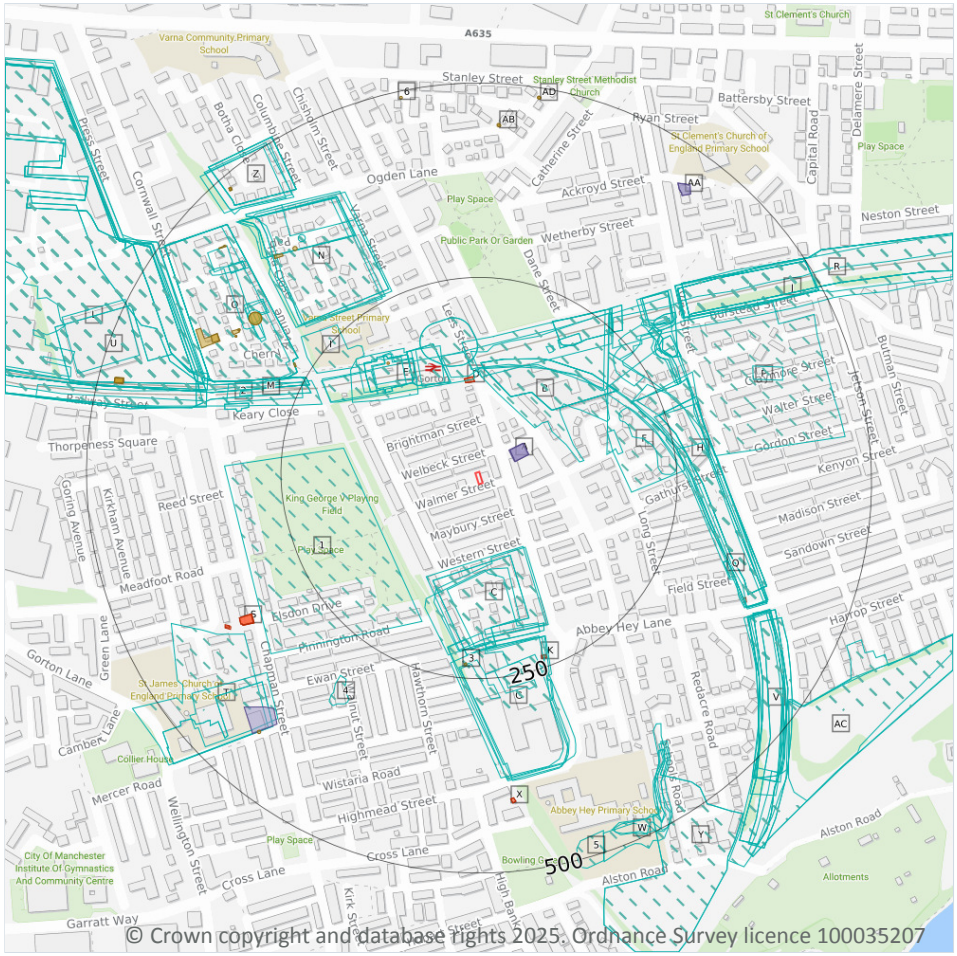
1.6 Historical military land

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	168

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 24 >**

ID	Location	Land Use	Date	Group ID
B	90m NE	Unspecified Ground Workings	1905	812949
C	93m S	Unspecified Works	1981	886353
C	95m S	Unspecified Works	1968	862047

ID	Location	Land Use	Date	Group ID
C	99m S	Unspecified Works	1985	958348
C	99m S	Unspecified Works	1991	958348
B	105m N	Unspecified Works	1985	879003
B	105m N	Unspecified Works	1981	973964
B	105m N	Unspecified Works	1991	879003
B	105m N	Unspecified Works	1968	973964
C	110m S	Wadding Works	1934	821578
C	111m S	Unspecified Works	1923	928323
E	119m N	Cuttings	1848	903046
E	121m N	Cuttings	1938	891732
E	121m N	Cuttings	1934	891732
E	121m N	Cuttings	1915	995113
B	122m N	Cuttings	1848	985489
E	124m N	Cuttings	1923	896040
B	124m N	Cuttings	1890	917991
E	126m NW	Cuttings	1923	868063
B	132m N	Cuttings	1923	891514
E	139m N	Railway Station	1985	973915
E	139m N	Railway Station	1991	973915
E	139m NW	Railway Station	1968	888494
1	139m SW	Wadding Works	1915	821579
E	142m NW	Railway Station	1938	916393
E	142m NW	Railway Station	1934	916393
E	142m NW	Railway Station	1915	991827
E	144m NW	Railway Station	1956	888494
E	144m NW	Railway Station	1923	889446
E	162m NW	Cuttings	1890	965680
F	164m E	Brick Works	1906	818337

ID	Location	Land Use	Date	Group ID
F	172m E	Railway Sidings	1906	857365
B	177m NE	Railway Building	1923	853986
B	190m NE	Railway Building	1981	1004587
B	190m NE	Railway Building	1968	1004587
G	191m S	Unspecified Mills	1890	879976
F	193m NE	Unspecified Pit	1906	829289
H	193m NE	Cuttings	1892	968072
B	195m NE	Cuttings	1938	903613
B	195m NE	Cuttings	1934	891514
B	195m NE	Cuttings	1915	971258
G	200m S	Unspecified Mills	1905	879976
H	202m NE	Cuttings	1918	874994
I	204m NW	Iron Works	1890	808483
G	207m S	Unspecified Mills	1923	882921
G	209m S	Unspecified Mills	1915	1002766
H	215m NE	Cuttings	1938	885289
H	215m NE	Cuttings	1934	885289
H	215m NE	Cuttings	1906	959016
2	216m NW	Cuttings	1848	807699
B	218m NE	Unspecified Ground Workings	1906	972220
H	223m NE	Cuttings	1981	1001804
G	226m S	Cotton Mills	1848	825899
B	226m NE	Cuttings	1892	968072
J	234m NE	Cuttings	1845	892534
L	235m NW	Railway Sidings	1905	891028
L	235m NW	Railway Sidings	1923	1007451
H	236m E	Cuttings	1923	973122
L	242m NW	Railway Sidings	1938	1005550

ID	Location	Land Use	Date	Group ID
L	242m NW	Railway Sidings	1934	964798
L	242m NW	Railway Sidings	1915	916181
L	242m NW	Railway Sidings	1915	916798
H	242m E	Cuttings	1985	920699
H	242m E	Cuttings	1991	920699
H	242m E	Cuttings	1968	915929
M	242m NW	Railway Sidings	1991	910089
B	245m NE	Cuttings	1938	859259
B	245m NE	Cuttings	1934	891514
H	253m E	Cuttings	1934	935340
N	254m NW	Unspecified Mill	1905	943736
N	256m NW	Unspecified Commercial/Industrial	1934	822037
N	257m NW	Unspecified Works	1985	878482
N	262m NW	Unspecified Works	1981	958721
N	262m NW	Unspecified Works	1968	942881
O	263m NW	Canal Depot	1938	931108
O	263m NW	Canal Depot	1934	931108
O	263m NW	Canal Depot	1915	873140
O	263m NW	Unspecified Commercial/Industrial	1905	822039
O	263m NW	Canal Depot	1890	949440
O	270m NW	Canal Depot	1923	878427
B	271m NE	Unspecified Ground Workings	1934	893570
B	274m NE	Unspecified Ground Workings	1938	878179
B	274m NE	Unspecified Ground Workings	1934	878179
B	281m NE	Unspecified Heap	1981	999871
B	281m NE	Unspecified Heap	1968	999871
B	283m NE	Unspecified Heap	1985	951353
B	283m NE	Unspecified Heap	1991	951353

ID	Location	Land Use	Date	Group ID
B	284m NE	Cuttings	1918	977199
B	288m NE	Cuttings	1938	958796
B	288m NE	Cuttings	1934	968610
B	290m NE	Cuttings	1923	887597
P	293m E	Brick Works	1906	818427
4	303m SW	Unspecified Mills	1890	821873
M	304m W	Railway Station	1905	1004568
M	304m W	Railway Station	1890	1004568
M	305m W	Railway Station	1905	818785
O	320m NW	Railway Sidings	1934	874435
O	323m NW	Railway Sidings	1938	874435
Q	325m E	Railway Building	1938	870477
Q	325m E	Railway Building	1934	870477
R	327m NE	Railway Sidings	1906	929149
J	327m NE	Cuttings	1934	971078
J	329m NE	Cuttings	1923	939349
J	330m NE	Cuttings	1918	1006629
J	330m NE	Cuttings	1938	893909
J	330m NE	Cuttings	1934	893909
J	330m NE	Cuttings	1906	1006629
J	330m NE	Cuttings	1892	962412
R	337m NE	Cuttings	1956	913436
R	337m NE	Cuttings	1985	942500
R	337m NE	Cuttings	1981	913436
R	337m NE	Cuttings	1991	942500
R	337m NE	Cuttings	1968	913436
O	340m NW	Unspecified Depot	1968	821122
O	341m NW	Unspecified Tank	1905	851182

ID	Location	Land Use	Date	Group ID
N	342m NW	Unspecified Mill	1915	909050
N	344m NW	Unspecified Mill	1890	968049
N	344m NW	Unspecified Mill	1923	909050
L	356m W	Railway Sidings	1890	905056
L	356m W	Unspecified Yard	1890	937063
T	358m SW	Unspecified Mills	1923	876374
U	361m W	Unspecified Depot	1985	927628
U	361m W	Unspecified Depot	1991	927628
L	363m W	Railway Sidings	1968	956823
T	365m SW	Unspecified Works	1968	835288
L	368m W	Railway Sidings	1956	919186
L	368m W	Locomotive Works	1956	886614
L	368m W	Locomotive Works	1968	886972
L	369m W	Locomotive Works	1905	957167
L	369m W	Carriage, Wagon and Locomotive Works	1923	964753
L	370m W	Locomotive Works	1938	886614
L	370m W	Locomotive Works	1934	984745
N	371m NW	Chimney	1968	853036
P	372m E	Railway Sidings	1906	857678
T	377m SW	Unspecified Commercial/Industrial	1934	822344
T	377m SW	Unspecified Mills	1915	876374
V	378m SE	Cuttings	1934	889021
V	381m SE	Cuttings	1892	868147
W	382m SE	Unspecified Ground Workings	1906	953511
V	383m SE	Cuttings	1938	889021
V	383m SE	Cuttings	1934	889021
V	383m SE	Cuttings	1906	970313
V	384m SE	Cuttings	1923	889021

ID	Location	Land Use	Date	Group ID
V	385m SE	Cuttings	1918	990433
V	386m SE	Cuttings	1956	974557
V	386m SE	Cuttings	1981	974557
V	386m SE	Cuttings	1968	974557
O	393m NW	Railway Sidings	1938	1004762
O	396m NW	Railway Sidings	1934	899987
O	396m NW	Railway Sidings	1915	866534
V	399m SE	Cuttings	1985	876574
V	399m SE	Cuttings	1991	876574
W	404m SE	Unspecified Ground Workings	1923	897173
W	405m SE	Unspecified Ground Workings	1918	897173
Y	412m SE	Refuse Heap	1938	978939
Y	412m SE	Refuse Heap	1934	978939
Z	425m NW	Steel Works	1890	852893
Z	429m NW	Engineering Works	1915	956238
Z	430m NW	Engineering Works	1923	956238
Z	432m NW	Unspecified Works	1985	956369
Z	432m NW	Unspecified Works	1981	889895
Z	432m NW	Unspecified Works	1991	956369
Z	432m NW	Unspecified Works	1968	889895
U	458m W	Unspecified Warehouse	1981	848249
5	473m S	Unspecified Pit	1905	829287
AC	482m SE	Brick Works	1923	949634
AC	483m SE	Brick Works	1906	951604
AC	483m SE	Brick Works	1918	887080

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	28

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

Features are displayed on the Past land use - un-grouped map on **page 24 >**

ID	Location	Land Use	Date	Group ID
E	179m NW	Unspecified Tank	1893	115209
3	230m S	Unspecified Tank	1922	120569
I	268m NW	Unspecified Tank	1933	115197
O	338m NW	Unspecified Tank	1893	145930
O	338m NW	Unspecified Tank	1908	145930
O	353m NW	Unspecified Tank	1893	139523
O	353m NW	Unspecified Tank	1908	139523
O	353m NW	Tanks	1933	108676
O	354m NW	Unspecified Tank	1893	126849
O	354m NW	Unspecified Tank	1908	126849
N	368m NW	Unspecified Tank	1893	115206
O	369m NW	Tanks	1922	137128
O	371m NW	Tanks	1933	137128
N	373m NW	Unspecified Tank	1978	115201
T	424m SW	Unspecified Tank	1893	120571
O	433m NW	Tanks	1949	108674
AB	444m N	Unspecified Tank	1992	155322
AB	445m N	Unspecified Tank	1987	155322
U	467m W	Unspecified Tank	1996	133772
U	468m W	Unspecified Tank	1987	133772
U	468m W	Unspecified Tank	1991	133772
U	468m W	Unspecified Tank	1985	133772
Z	480m NW	Unspecified Tank	1978	127713

ID	Location	Land Use	Date	Group ID
Z	480m NW	Unspecified Tank	1980	127713
Z	480m NW	Unspecified Tank	1980	127713
AD	485m N	Unspecified Tank	1992	155572
AD	485m N	Unspecified Tank	1987	155572
6	490m N	Unspecified Tank	1995	115196

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**14**

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

Features are displayed on the Past land use - un-grouped map on **page 24 >**

ID	Location	Land Use	Date	Group ID
D	116m N	Electricity Substation	1979	76927
D	116m N	Electricity Substation	1991	76927
K	234m S	Electricity Substation	1979	77689
K	234m S	Electricity Substation	1991	77689
S	336m SW	Electricity Substation	1950	83113
S	337m SW	Electricity Substation	1950	80255
S	337m SW	Electricity Substation	1978	80255
S	337m SW	Electricity Substation	1991	72068
S	337m SW	Electricity Substation	1985	80255
Q	366m SE	Electricity Substation	1991	65908
S	368m SW	Electricity Substation	1996	84003
S	368m SW	Electricity Substation	1987	84296
X	406m S	Electricity Substation	1981	69589
X	406m S	Electricity Substation	1991	69589

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	6

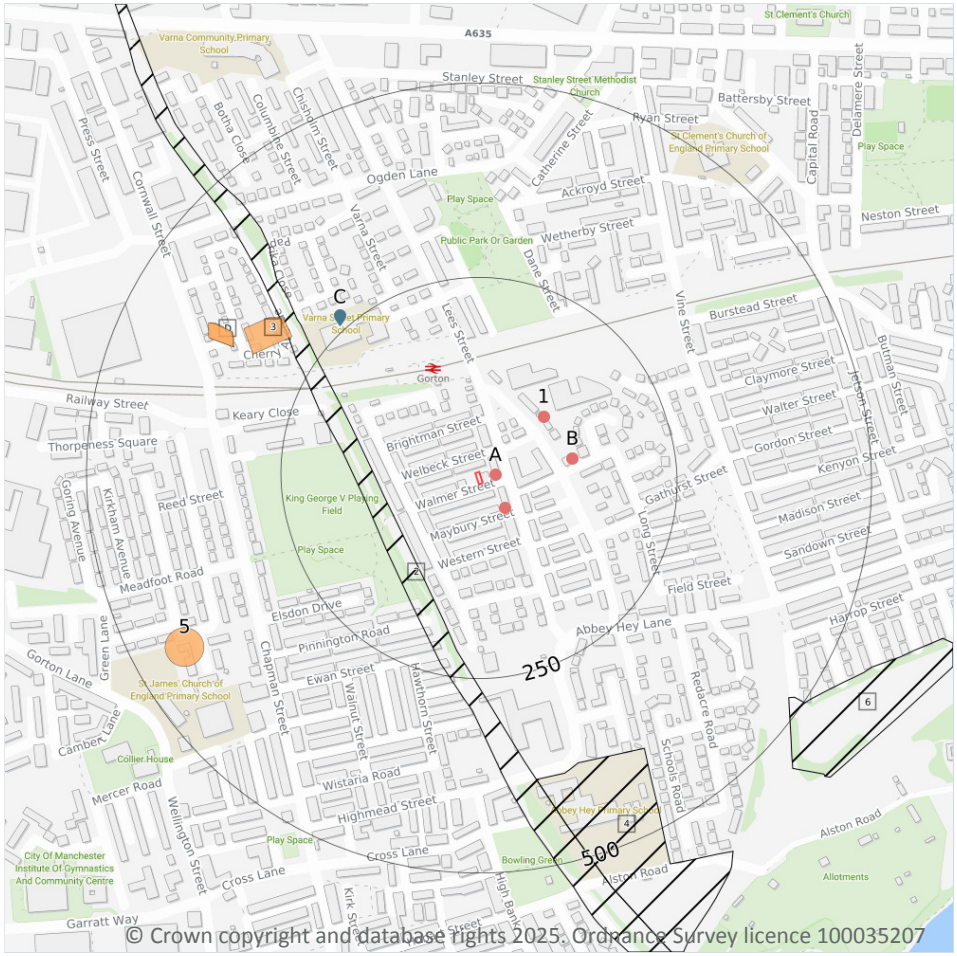
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 24 >**

ID	Location	Land Use	Date	Group ID
A	47m NE	Garage	1957	29348
A	47m NE	Garage	1979	29348
A	47m NE	Garage	1991	29348
T	391m SW	Garage	1992	22549
AA	441m NE	Garage	1949	27236
AA	441m NE	Garage	1973	27236

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Historical waste sites

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	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 34 >**

ID	Location	Details		
2	116m SW	Site Address: Stockport Branch Canal, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: F056 Waste Type: Inert, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
4	380m S	Site Address: High Bank, Gorton, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: F037 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -
6	481m SE	Site Address: Abbey Hey Lane, Levenshulme Licence Holder Address: -	Waste Licence: - Site Reference: F038 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	4

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

Features are displayed on the Waste and landfill map on **page 34 >**

ID	Location	Address	Further Details	Date
3	294m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1987
D	350m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1987
D	351m NW	Site Address: N/A	Type of Site: Breaker's Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1991
5	408m SW	Site Address: 10,Sandfold Lane, Gorton, MANCHESTER, Greater Manchester, M18 8NP	Type of Site: Recycling Centre Planning application reference: 081691/FO/2006/N2 Description: Scheme comprises use of material storage site for recycling centre for inert material and storage of inert material. An application (ref: 081691/FO/2006/N2) for detailed planning permission was granted by Manchester C.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 34 >**

ID	Location	Details		
C	266m NW	Site Name: - Site Address: Highbank Trading Estate, Unit 3b, Openshaw, Manchester, M11 Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DFO001 EPR reference: EA/EPR/FP3692CZ/S002 Operator: Foster Mr. K. Waste Management licence No: 53510 Annual Tonnage: 75000	Issue Date: 20/03/1998 Effective Date: - Modified: - Surrendered Date: Sep 7 2000 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered
C	266m NW	Site Name: Site SJ 88900 97000 Site Address: Unit 3b Highbank Trading Estate, Openshaw, Manchester, Greater Manches, M11 1WG Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 637218 EPR reference: EA/EPR/FP3692CZ Operator: K. Foster Waste Management licence No: 53510 Annual Tonnage: 75000	Issue Date: 20/03/1998 Effective Date: 20/03/1998 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m **5**

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.

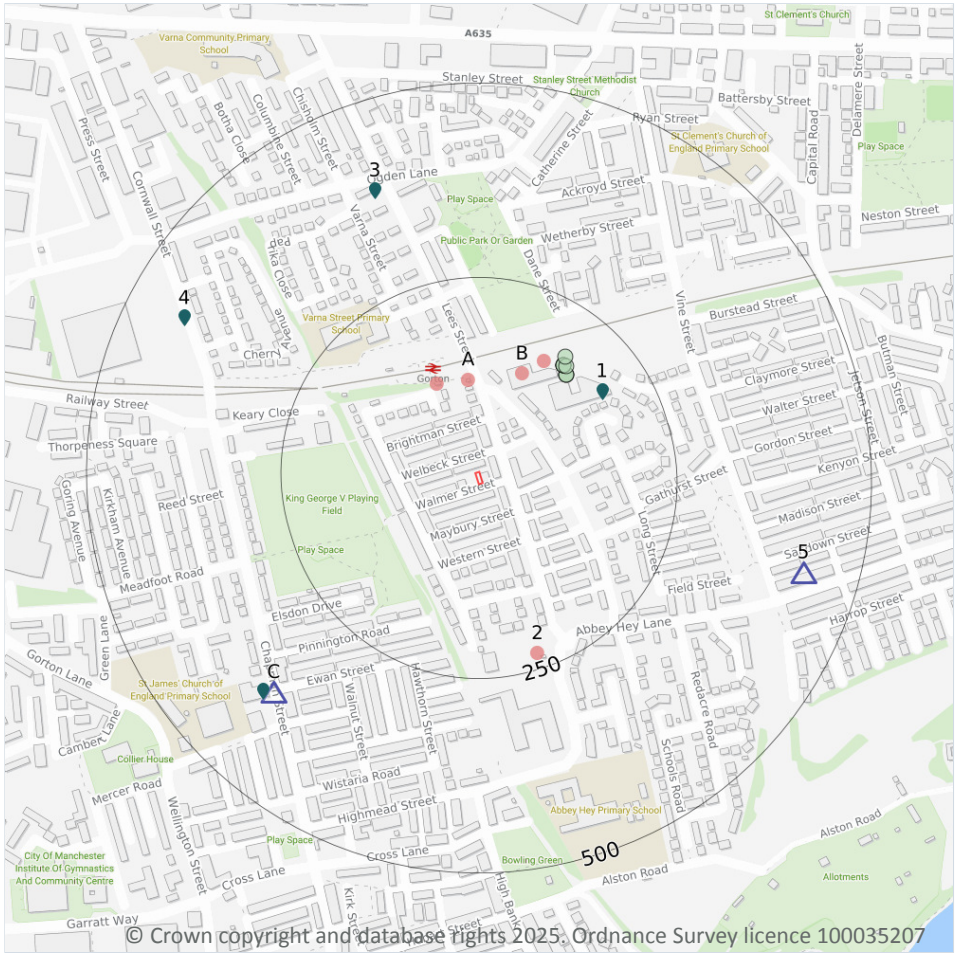
Features are displayed on the Waste and landfill map on **page 34 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	19m E	C/o Engie, Constable Street, Gorton, Manchester, M18 8qq	WEX139652	Using waste exemption	Not on a farm	Use of waste in construction
A	43m SE	47, Constable Street, Manchester, M18 8qq	WEX221462	Using waste exemption	Not on a farm	Use of waste in construction
1	109m NE	Land Adjacent To 163 Lees Street, Lees Street, Gorton, Manchester, M188ql	WEX138324	Storing waste exemption	Not on a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
B	119m E	163 (Land Adjacent), Lees Street, Abbey Hey, Manchester, M18 8ql	WEX134251	Using waste exemption	Not on a farm	Use of waste in construction
B	119m E	163 (Land Adjacent), Lees Street, Abbey Hey, Manchester, M18 8ql	WEX275803	Using waste exemption	Not on a farm	Use of waste in construction

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)

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 39 >**

ID	Location	Company	Address	Activity	Category
A	120m N	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities
A	125m NW	Gorton Rail Station	Greater Manchester, M18	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure

ID	Location	Company	Address	Activity	Category
B	138m N	Sprayaway	Unit 5 Enterprise Trading Estate, Lees Street, Manchester, Greater Manchester, M18 8QU	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	165m NE	Mast (Telecommunication)	Greater Manchester, M18	Telecommunications Features	Infrastructure and Facilities
2	230m S	Electricity Sub Station	Greater Manchester, M18	Electrical Features	Infrastructure and Facilities

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 39 >**

ID	Location	Company	Address	LPG	Status
C	376m SW	SHELL	197, Chapman Street, Gorton, Manchester, Greater Manchester, M18 8WP	No	Open
5	428m E	OBSOLETE	Butman Street, Manchester, Greater Manchester, M18 8TG	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	4

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 39 >**

ID	Location	Address	Details	
1	189m NE	Sapphire Garage Limited, Units 3,4,5,6,7, Enterprise Trading Estate, Lees Street, Gorton North, M18 8QU	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	385m SW	Shell Gorton Service Station, 197 Chapman Street, Gorton, M18 8WP	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
3	386m N	Lomax Joinery Ltd, Highbank Tradin Estate, Ogden Lane, Openshaw, M11 1WO	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
4	424m NW	British Fuels Ltd, The Coal Yd, Cornwall St, M11 2NR	Process: Quarry Processes 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	0

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

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	9

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

Features are displayed on the Current industrial land use map on **page 39 >**

ID	Location	Details	
B	167m NE	Incident Date: 23/08/2001 Incident Identification: 26259 Pollutant: Inert Materials and Wastes:Specific Waste Materials Pollutant Description: Construction and Demolition Materials and Wastes:Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	167m NE	Incident Date: 23/08/2001 Incident Identification: 26259 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	167m NE	Incident Date: 23/08/2001 Incident Identification: 26259 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	175m NE	Incident Date: 26/09/2001 Incident Identification: 33103 Pollutant: Inert Materials and Wastes:Specific Waste Materials:Specific Waste Materials Pollutant Description: Construction and Demolition Materials and Wastes:Asbestos:Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	175m NE	Incident Date: 26/09/2001 Incident Identification: 33103 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
B	175m NE	Incident Date: 26/09/2001 Incident Identification: 33103 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	175m NE	Incident Date: 26/09/2001 Incident Identification: 33103 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	176m NE	Incident Date: 19/06/2001 Incident Identification: 10078 Pollutant: Inorganic Chemicals/Products Pollutant Description: Alkalis	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
B	185m NE	Incident Date: 14/06/2001 Incident Identification: 9289 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m	**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.

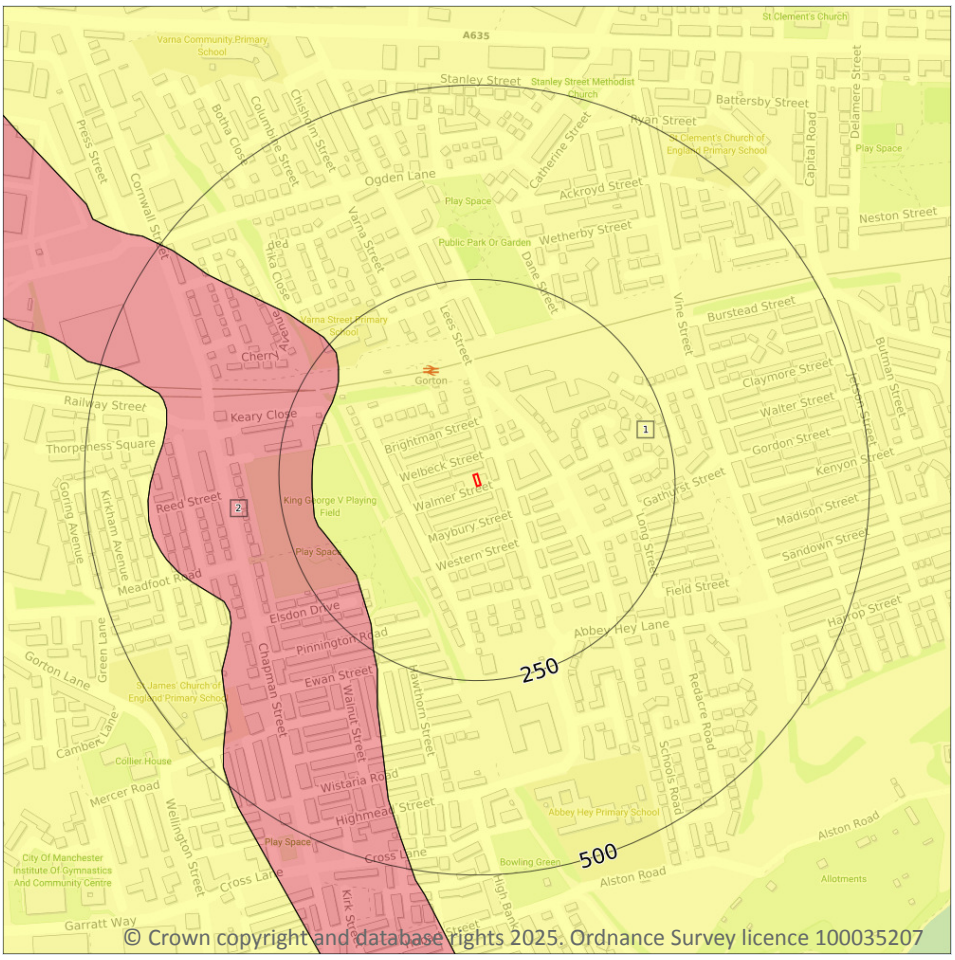
4.21 Pollution inventory radioactive waste

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

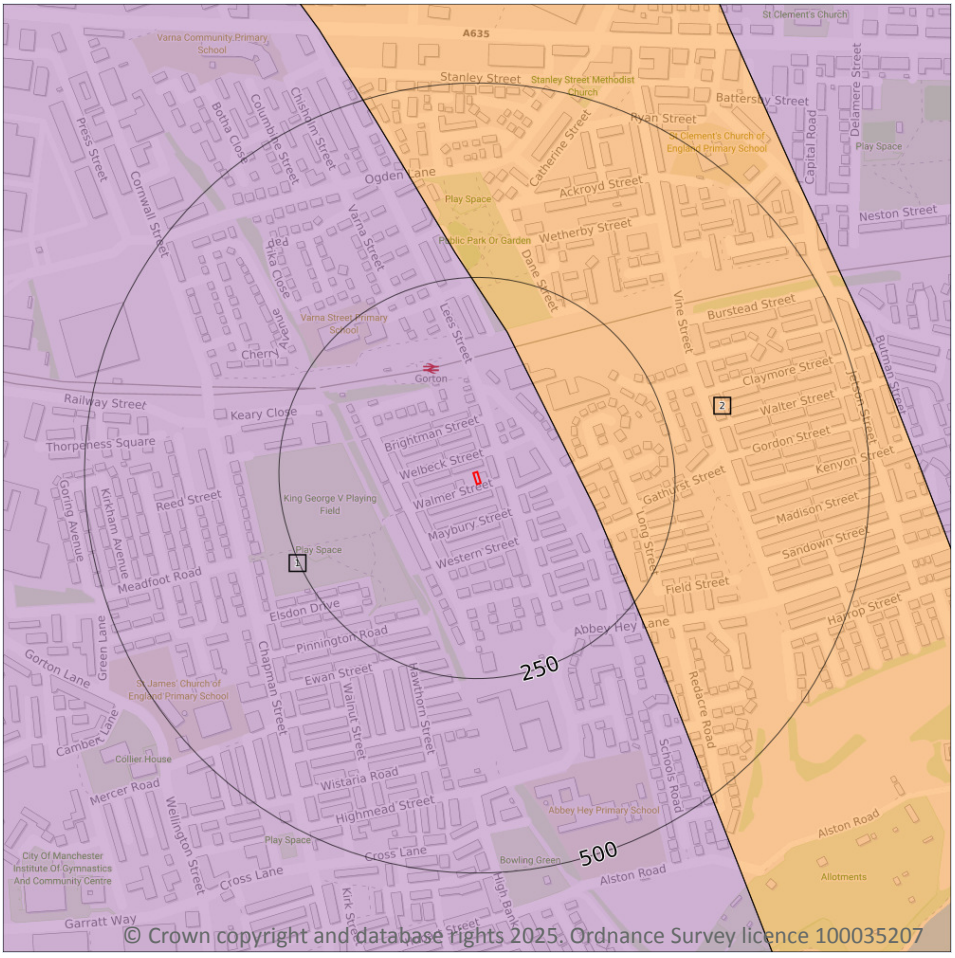
Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 47 >**

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	193m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	2

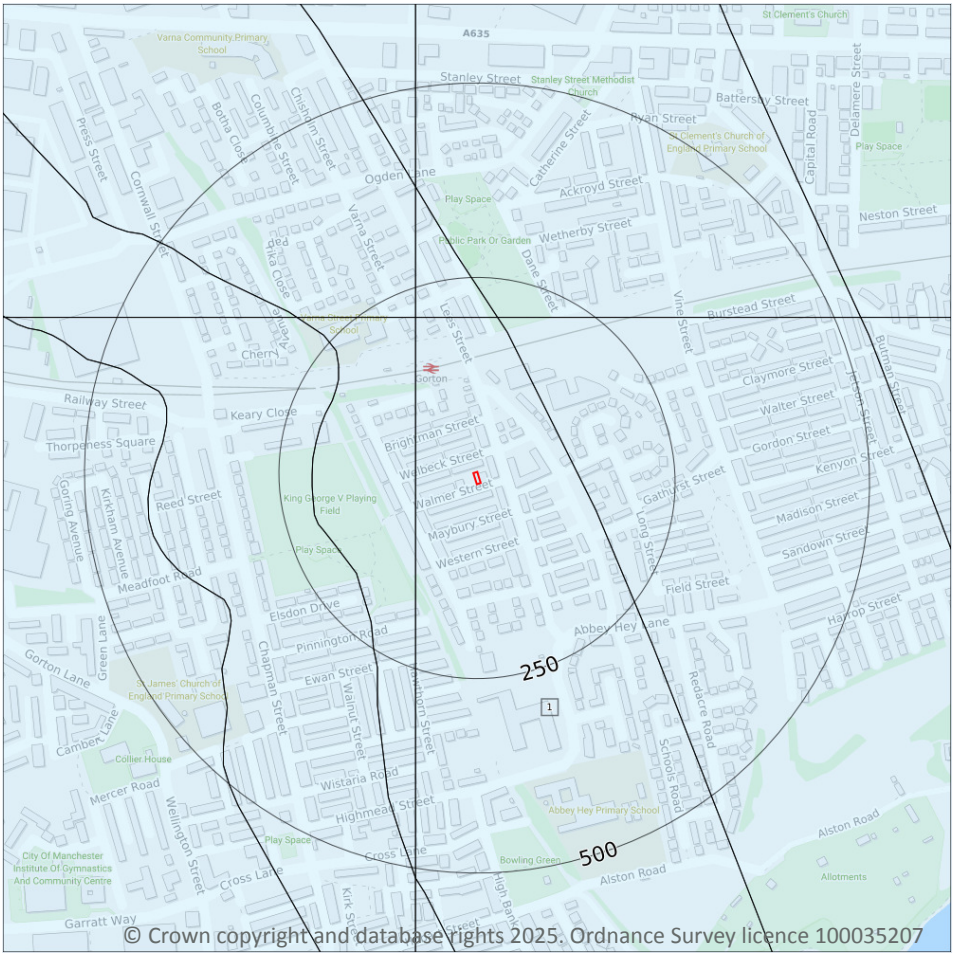
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 49 >**

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	115m NE	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

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

Groundwater vulnerability



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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 51 >**

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.

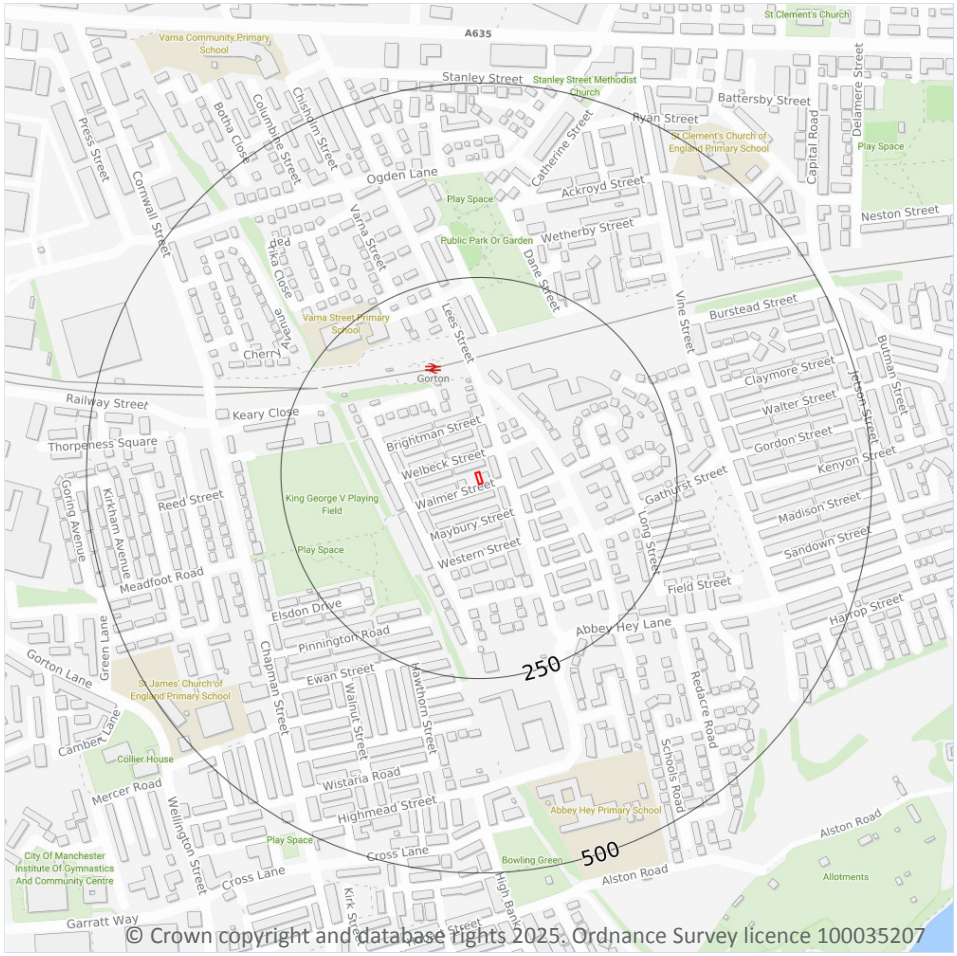
5.5 Groundwater vulnerability- local information

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



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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	29

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 53 >**

ID	Location	Details	
-	1047m W	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: -
-	1047m W	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: -
-	1321m SW	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: -
-	1665m E	Status: Active Licence No: NW/069/0013/001/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: DENTON GOLF CLUB BOREHOLE Data Type: Point Name: The Denton Golf Club Limited Easting: 390716 Northing: 396461	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 127.4 Original Application No: NPS/WR/024169 Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1665m E	Status: Historical Licence No: NW/069/0013/001 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: DENTON GOLF CLUB BOREHOLE Data Type: Point Name: The Denton Golf Club Limited Easting: 390716 Northing: 396461	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 127.4 Original Application No: - Original Start Date: 27/08/2009 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 27/08/2009 Version End Date: -

ID	Location	Details	
-	1736m SW	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: -
-	1736m SW	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: -
-	1737m SW	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: -
-	1765m NW	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -

ID	Location	Details	
-	1765m NW	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1765m NW	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1765m NW	Status: Historical Licence No: 2569006036 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1765m NW	Status: Historical Licence No: 2569006036 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m^3): 372772 Max Daily Volume (m^3): 3600.5 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -

ID	Location	Details	
-	1765m NW	Status: Historical Licence No: 2569006036 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 388000 Northing: 398200	Annual Volume (m^3): 372772 Max Daily Volume (m^3): 3600.5 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1811m NW	Status: Active Licence No: 2569006036 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE ON PREMISES AT CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Ltd Easting: 388027 Northing: 398277	Annual Volume (m^3): 372772 Max Daily Volume (m^3): 3600.5 Original Application No: NPS/WR/035265 Original Start Date: 21/05/1985 Expiry Date: - Issue No: 104 Version Start Date: 19/04/2021 Version End Date: -
-	1860m NW	Status: Historical Licence No: NW/069/0006/005/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m^3): 221650 Max Daily Volume (m^3): 1000 Original Application No: NPS/WR/024168 Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1860m NW	Status: Historical Licence No: NW/069/0006/005/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m^3): 221650 Max Daily Volume (m^3): 1000 Original Application No: NPS/WR/024168 Original Start Date: 01/04/2018 Expiry Date: 31/03/2024 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -

ID	Location	Details	
-	1860m NW	Status: Historical Licence No: NW/069/0006/005 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m^3): 266113 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1860m NW	Status: Historical Licence No: NW/069/0006/005 Details: Horticultural Watering Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m^3): 266113 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1860m NW	Status: Historical Licence No: NW/069/0006/005 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT OPENSHAW, WEST ASHTON Data Type: Point Name: MANCHESTER CITY FOOTBALL CLUB LIMITED Easting: 387681 Northing: 398032	Annual Volume (m^3): 266113 Max Daily Volume (m^3): 1000 Original Application No: - Original Start Date: 14/11/2012 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 14/11/2012 Version End Date: -
-	1892m NW	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -

ID	Location	Details	
-	1892m NW	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, CLAYTON, MANCHESTER" Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1892m NW	Status: Historical Licence No: 2569006026 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m^3): 633962 Max Daily Volume (m^3): 2837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1892m NW	Status: Historical Licence No: 2569006026 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, CLAYTON, MANCHESTER Data Type: Point Name: CIBA SPECIALTY CHEMICALS PLC Easting: 387700 Northing: 398100	Annual Volume (m^3): 633962 Max Daily Volume (m^3): 2837 Original Application No: - Original Start Date: 24/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 25/07/2000 Version End Date: -
-	1985m NW	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLES (2) ON PREMISES AT CROFT ST, CLAYTON, MANCHESTER" Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -

ID	Location	Details	
-	1985m NW	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES (2) ON PREMISES AT CROFT ST, CLAYTON, MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1985m NW	Status: Historical Licence No: 2569006037 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLES X 2 ON PREMISES AT CROFT STREET CLAYTON MANCHESTER Data Type: Point Name: AIR PRODUCTS CHEMICALS LTD Easting: 387900 Northing: 398400	Annual Volume (m^3): 111832 Max Daily Volume (m^3): 654.624 Original Application No: - Original Start Date: 21/05/1985 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1996 Version End Date: -
-	1990m NW	Status: Active Licence No: 2569006037 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 2 ON PREMISES AT CROFT STREET, CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Ltd Easting: 387859 Northing: 398375	Annual Volume (m^3): 111831.6 Max Daily Volume (m^3): 654.62 Original Application No: NPS/WR/035267 Original Start Date: 21/05/1985 Expiry Date: - Issue No: 104 Version Start Date: 19/04/2021 Version End Date: -
-	1992m NW	Status: Active Licence No: 2569006037 Details: Non-Evaporative Cooling Direct Source: Ground Water - North West Region Point: BOREHOLE 1 ON PREMISES AT CROFT STREET, CLAYTON, MANCHESTER Data Type: Point Name: Evonik Chemicals Ltd Easting: 387860 Northing: 398379	Annual Volume (m^3): 111831.6 Max Daily Volume (m^3): 654.62 Original Application No: NPS/WR/035267 Original Start Date: 21/05/1985 Expiry Date: - Issue No: 104 Version Start Date: 19/04/2021 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	4

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 53 >**

ID	Location	Details	
-	1383m E	Status: Historical Licence No: 2569006039 Details: Spray Irrigation - Direct Direct Source: "Surface, Non-Tidal - North West Region" Point: "UPPER GORTON RESERVOIR, AUDENSHAW, MANCHESTER" Data Type: Point Name: FAIRFIELD GOLF AND SAILING CLUB Easting: 390450 Northing: 397000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/11/1996 Expiry Date: - Issue No: 100 Version Start Date: 20/11/1996 Version End Date: -
-	1383m E	Status: Historical Licence No: 2569006039 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UPPER GORTON RESERVOIR, AUDENSHAW, MANCHESTER Data Type: Point Name: FAIRFIELD GOLF AND SAILING CLUB Easting: 390450 Northing: 397000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 20/11/1996 Expiry Date: - Issue No: 100 Version Start Date: 20/11/1996 Version End Date: -
-	1789m NW	Status: Historical Licence No: 2569006995 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "ASHTON CANAL, MANCHESTER" Data Type: Point Name: BRITISH WATERWAYS Easting: 388100 Northing: 398300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

ID	Location	Details	
-	1789m NW	Status: Historical Licence No: 2569006995 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: ASHTON CANAL, MANCHESTER Data Type: Point Name: Canal and River Trust Easting: 388100 Northing: 398300	Annual Volume (m^3): 68190 Max Daily Volume (m^3): 68190 Original Application No: - Original Start Date: 01/04/1969 Expiry Date: - Issue No: 100 Version Start Date: 01/04/1969 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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



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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	1

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

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
3	169m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Corn Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Irwell / Manchester Ship Canal (Irk to confluence with Upper Mers**	**GB112069061452**	**Croal Irwell**	**Irwell**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	5625m W	River	Irwell / Manchester Ship Canal (Irk to confluence with Upper Mers	GB112069061452 ↗	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
2	**On site**	**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**

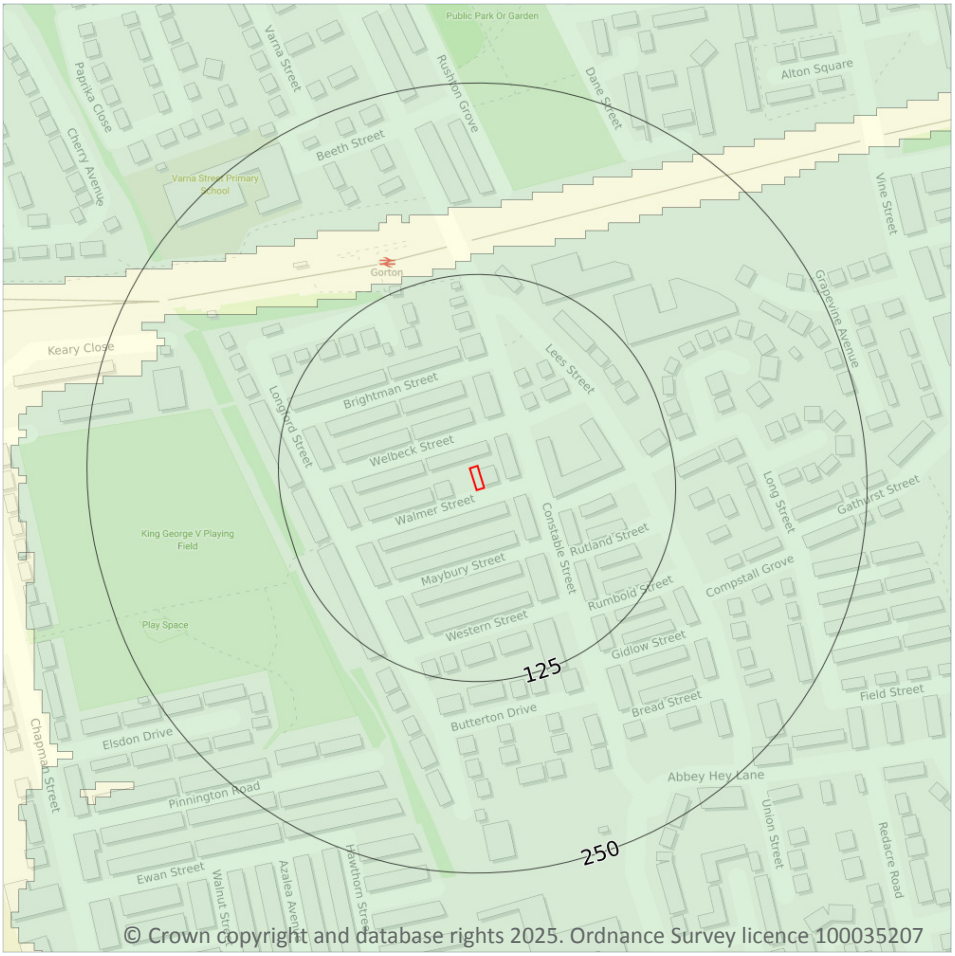
Ambiental Risk Analytics surface water (pluvial) FloodMap identifies areas likely to flood as a result of extreme rainfall events, i.e. land naturally vulnerable to surface water ponding or flooding. This data set was produced by simulating 1 in 30 year, 1 in 100 year, 1 in 250 year and 1 in 1,000 year 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	**Low**
Highest risk within 50m	**Low**

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

Features are displayed on the Groundwater flooding map on **page 70 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	0

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

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	0

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

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

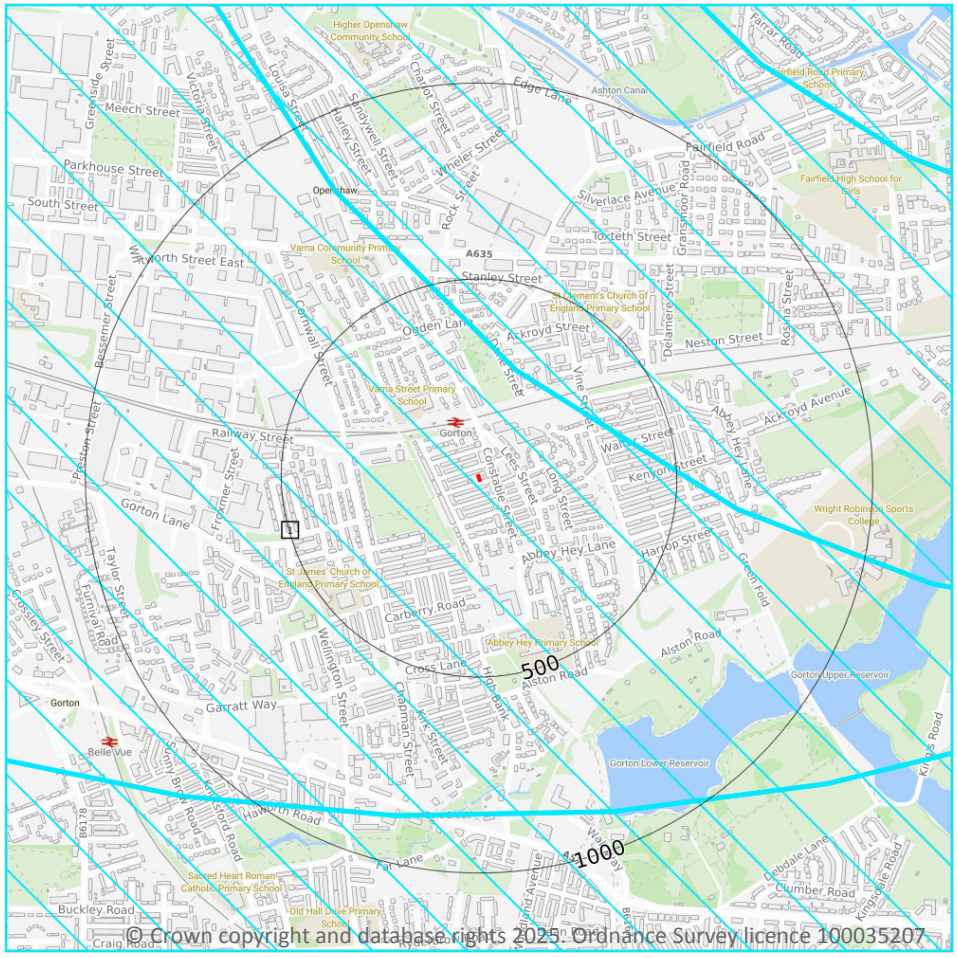
10.16 Nitrate Vulnerable Zones

Records within 2000m	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



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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 75 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Infrastructure - Airports, helipads and other aviation proposals.** **Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t).** **Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	2

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

Features are displayed on the Visual and cultural designations map on **page 77 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	100m N	Gorton And Abbey Hey War Memorial	II	1460798	08/11/2018
2	249m NW	Varna Street School, Main Block	II	1403128	01/06/2012

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.

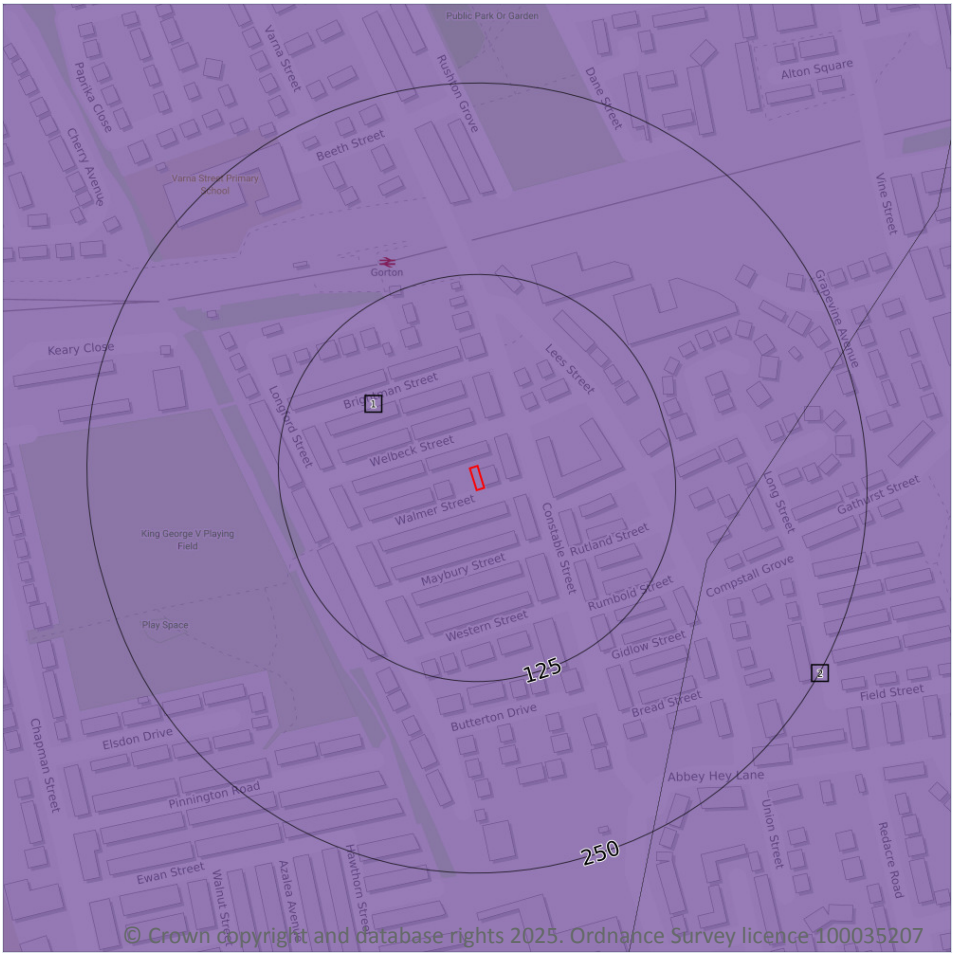
11.7 Registered Parks and Gardens

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



12.1 Agricultural Land Classification

Records within 250m	2

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 80 >**

ID	Location	Classification	Description
1	**On site**	**Urban**	**Non-agricultural/no quality assigned**
2	153m E	Urban	Non-agricultural/no quality assigned

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	0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	1

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

Features are displayed on the Habitat designations map on **page 82 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	165m NE	HLD_refs: EAHLD16559	Low	Environment Agency Historic Landfill Sites	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography

This data is sourced from Natural England.

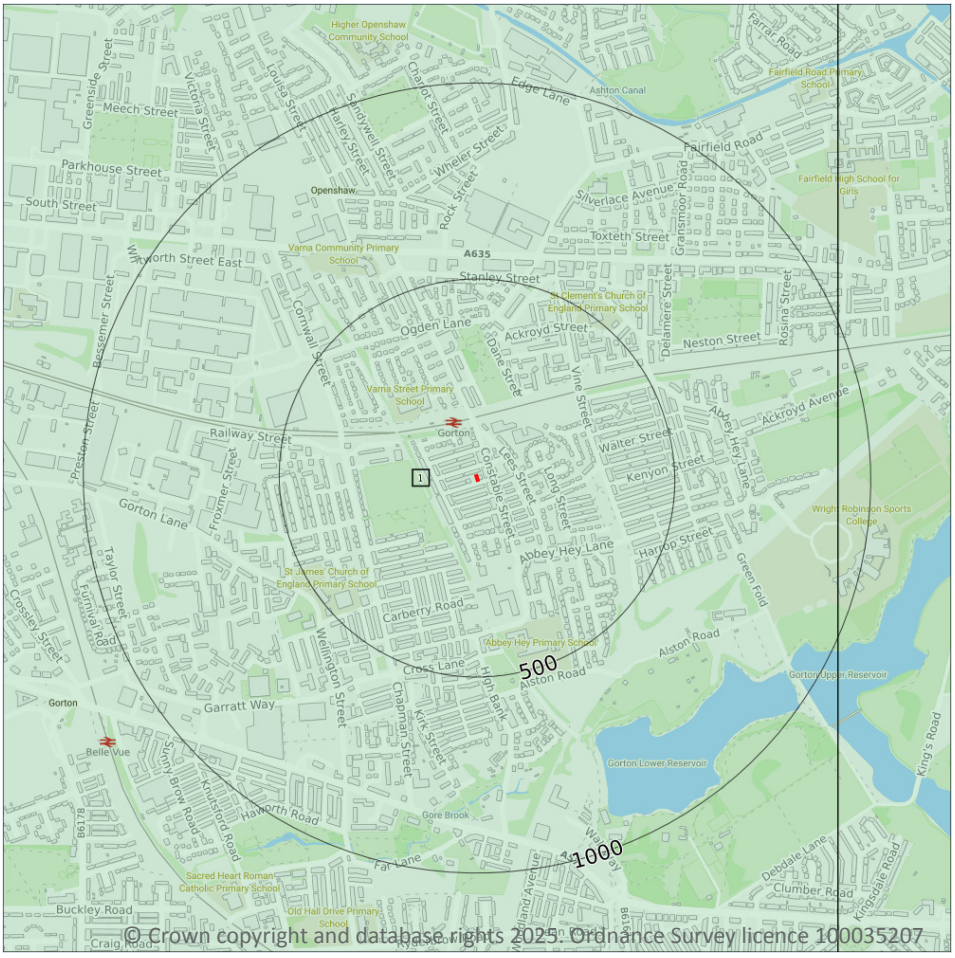
13.4 Limestone Pavement Orders

Records within 250m	0

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



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Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m	1

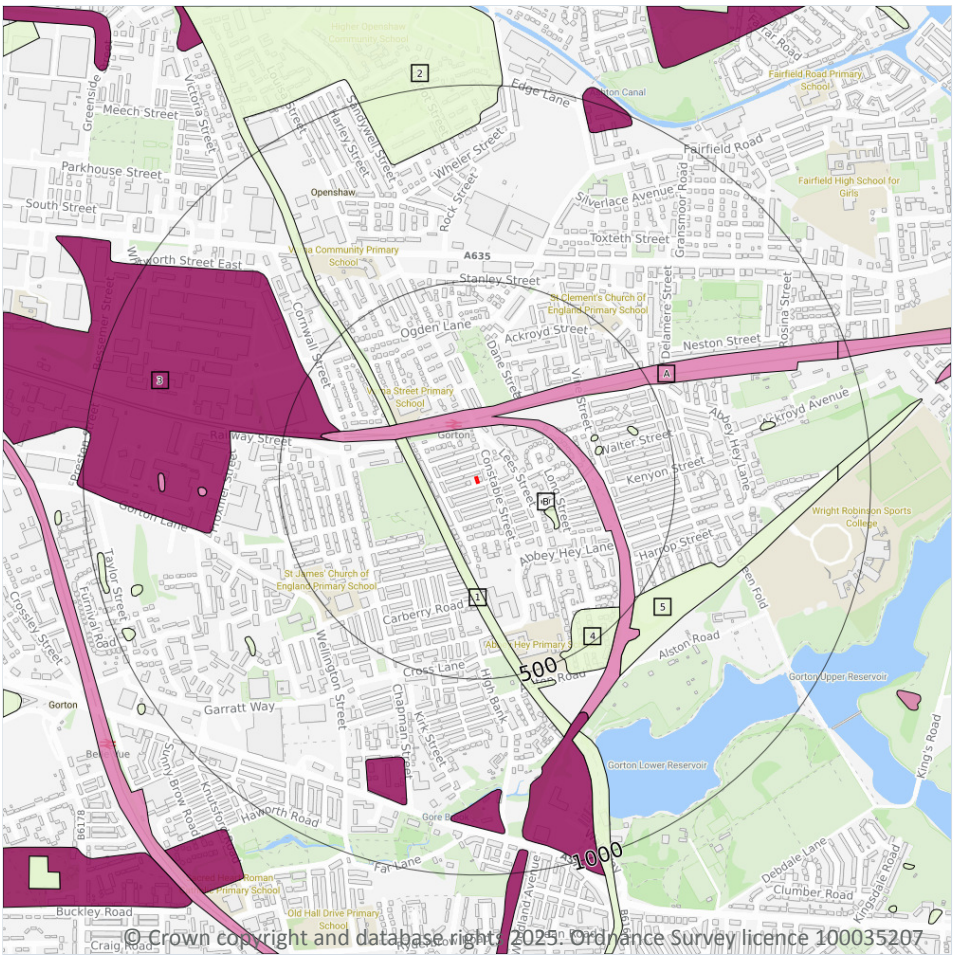
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 84 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SJ89NE**

This data is sourced from the British Geological Survey.

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



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14.2 Artificial and made ground (10k)

Records within 500m	11

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

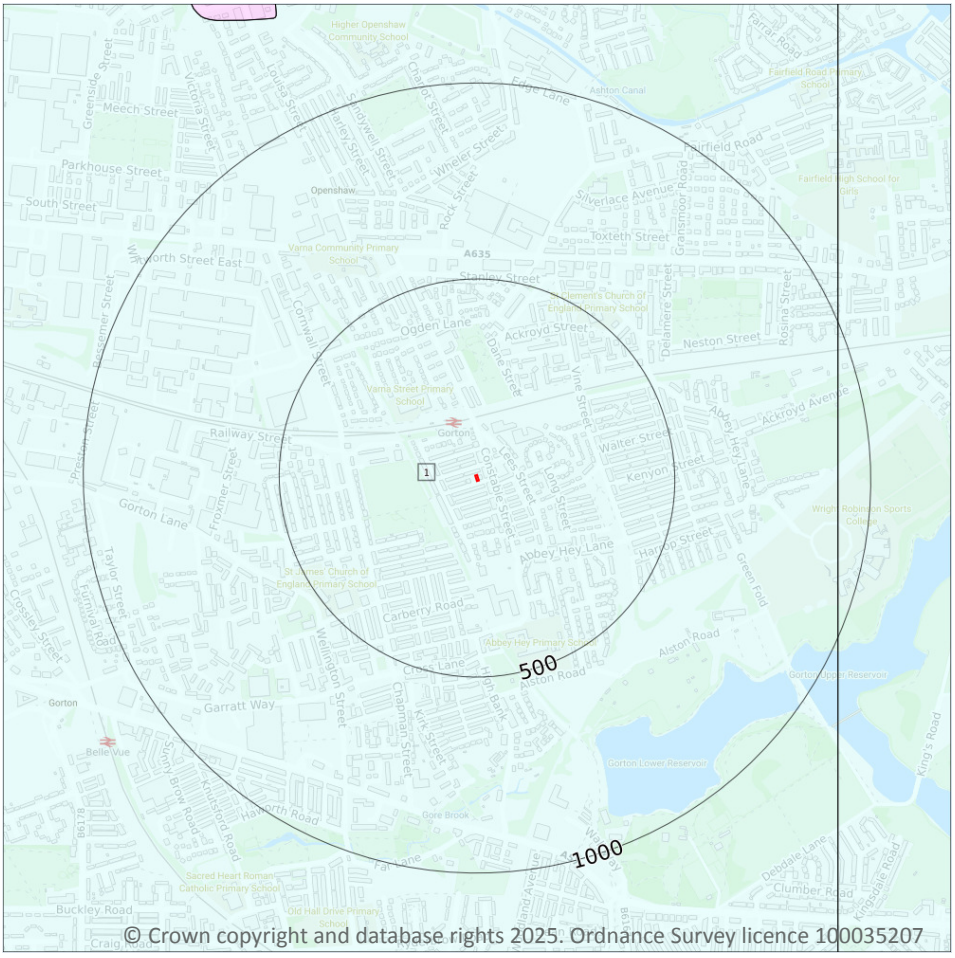
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 85 >**

ID	Location	LEX Code	Description	Rock description
1	114m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	126m N	WGR-VOID	Worked Ground (Undivided)	Void
B	168m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	182m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
2	242m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	306m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	307m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	364m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	402m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
4	414m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
5	495m SE	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	1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 87 >**

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

This data is sourced from the British Geological Survey.

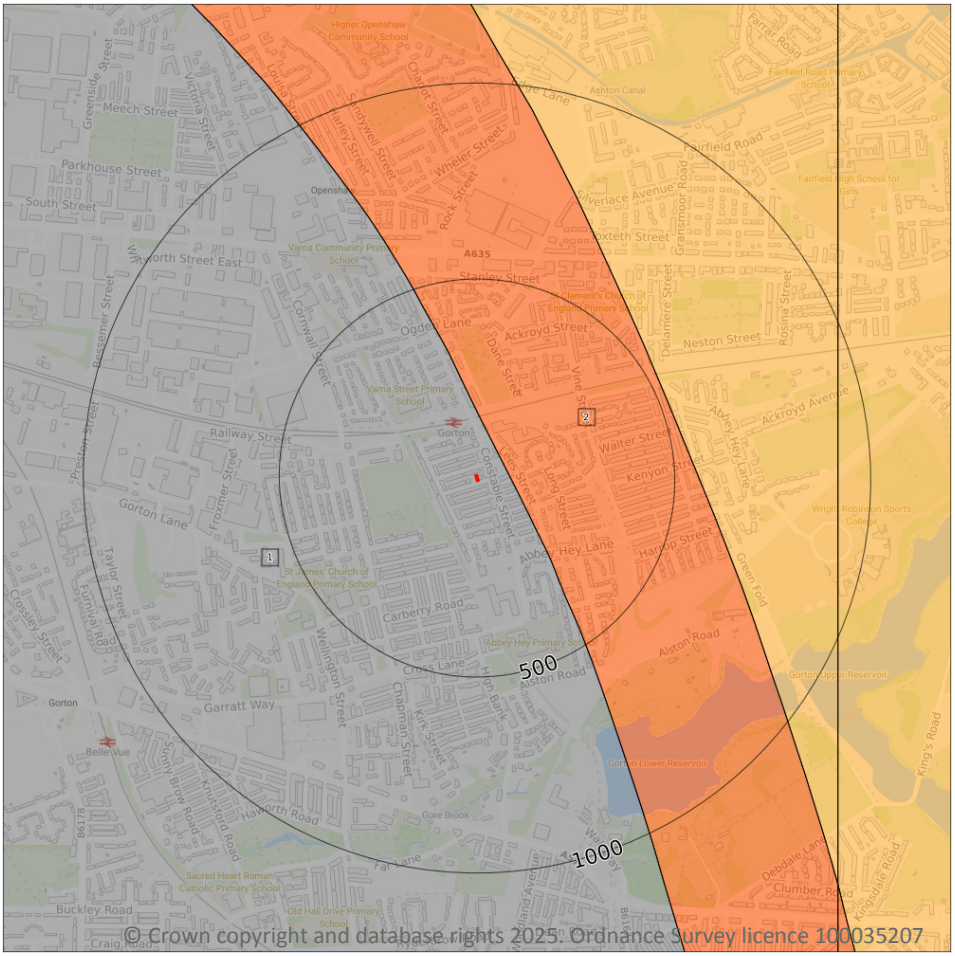
14.4 Landslip (10k)

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	2

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

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

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CPB-SDST**	**Chester Pebble Beds Formation - Sandstone**	**Early Triassic Epoch**
2	73m NE	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

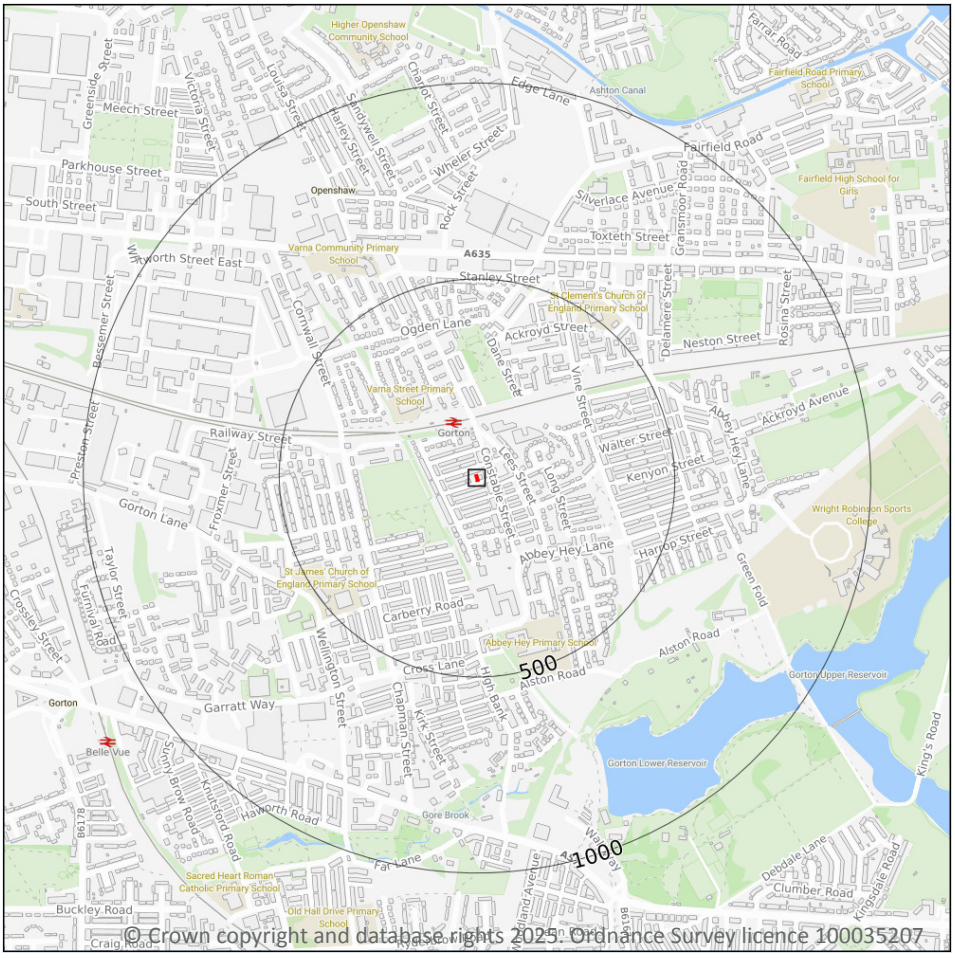
14.6 Bedrock faults and other linear features (10k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

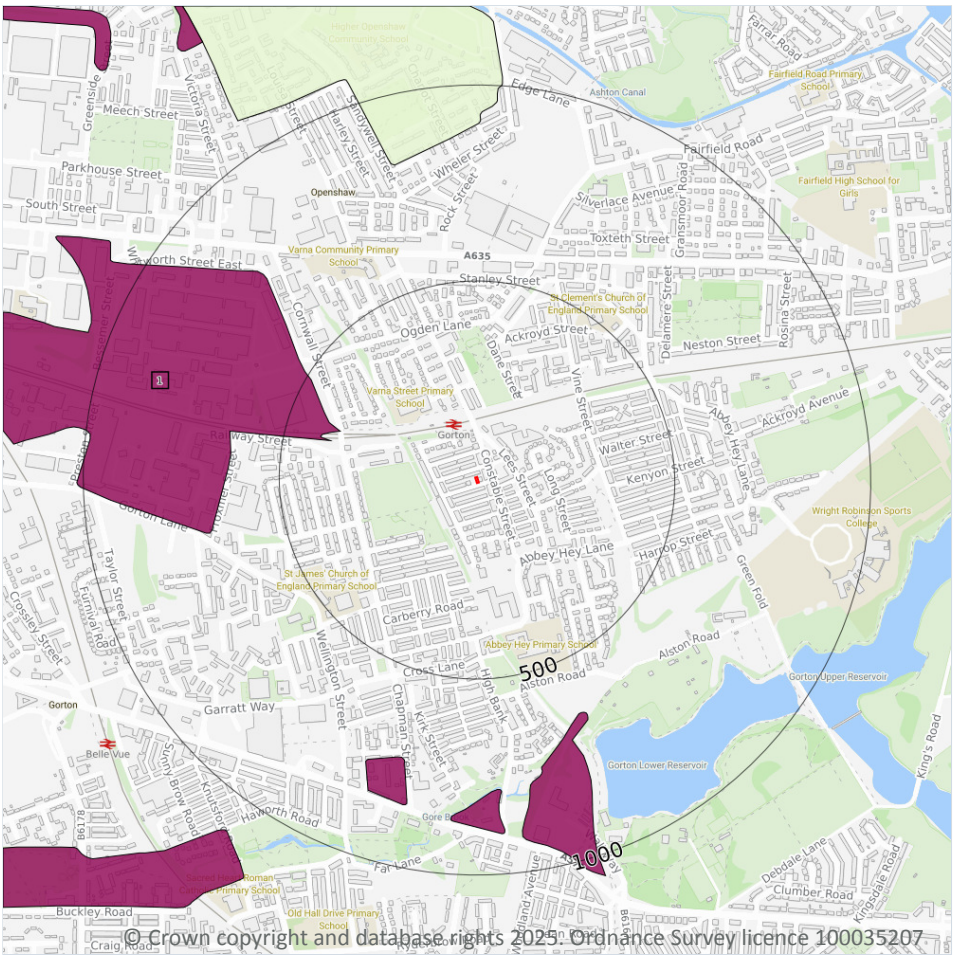
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 91 >**

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



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15.2 Artificial and made ground (50k)

Records within 500m	1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 92 >**

ID	Location	LEX Code	Description	Rock description
1	364m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

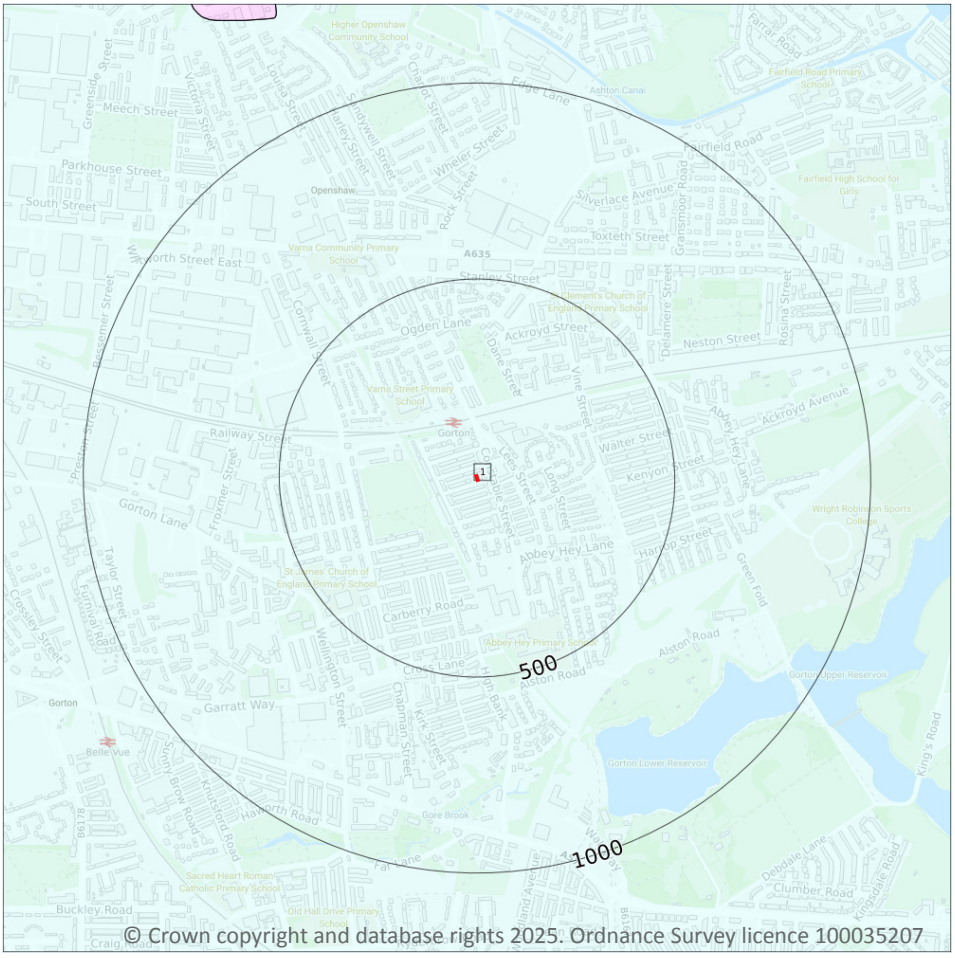
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	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 94 >**

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.

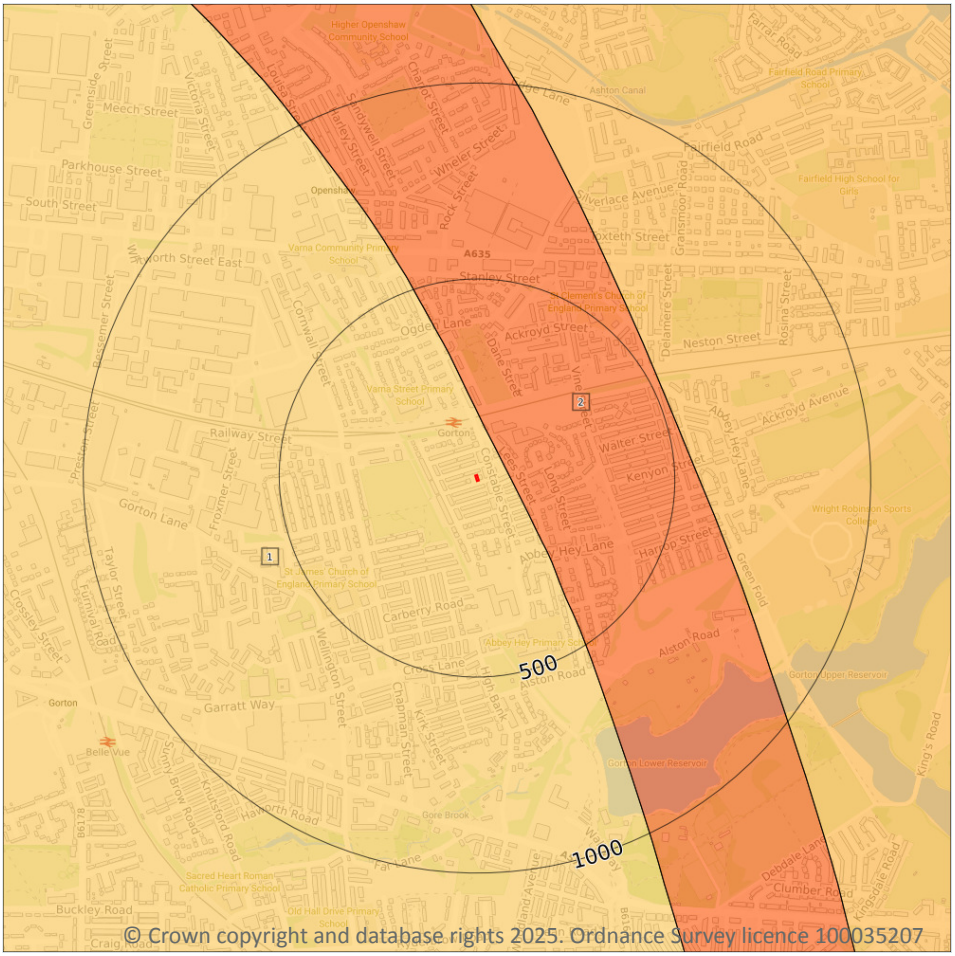
15.7 Landslip permeability (50k)

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	2

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

ID	Location	LEX Code	Description	Rock age
1	**On site**	**CHES-SDST**	**CHESTER FORMATION - SANDSTONE**	**OLENEKIAN**
2	72m NE	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-

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.

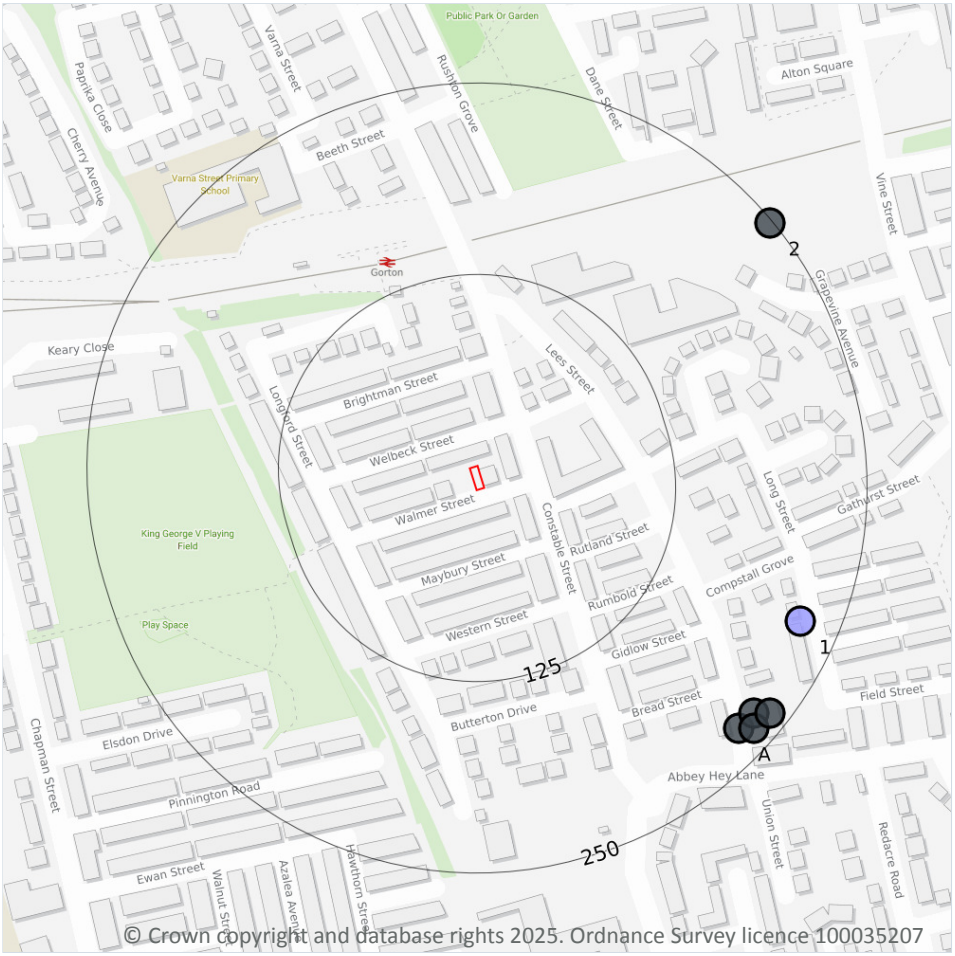
15.10 Bedrock faults and other linear features (50k)

Records within 500m	0

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.

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	6

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.

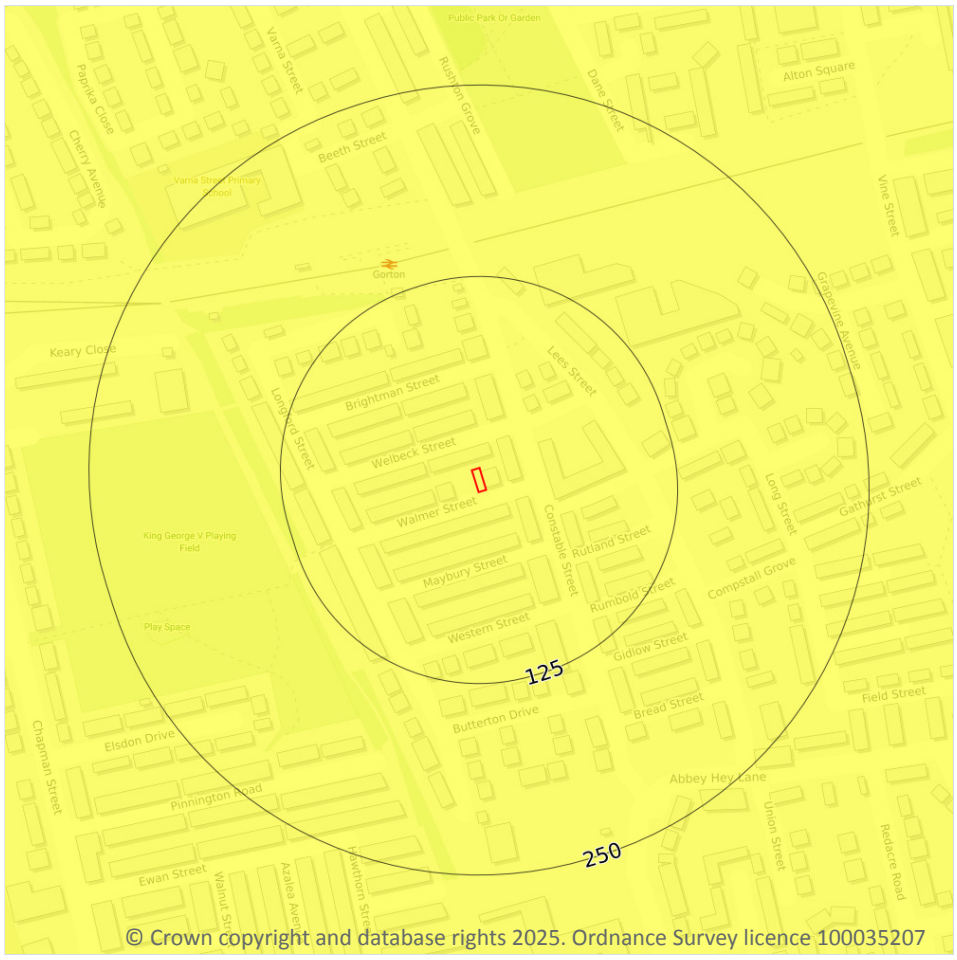
Features are displayed on the Boreholes map on **page 98 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	224m SE	389290 396700	38 LONG STREET GORTON 1	6.0	N	937089 ↗
A	229m SE	389250 396630	BREAD STREET GORTON TP3	-	Y	N/A
A	230m SE	389260 396640	BREAD STREET GORTON TP1	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	236m SE	389260 396630	BREAD STREET GORTON TP4	-	Y	N/A
A	237m SE	389270 396640	BREAD STREET GORTON TP2	-	Y	N/A
2	248m NE	389270 396960	PRO DEV GORTON M'CHESTER TP 6	-	Y	N/A

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	1

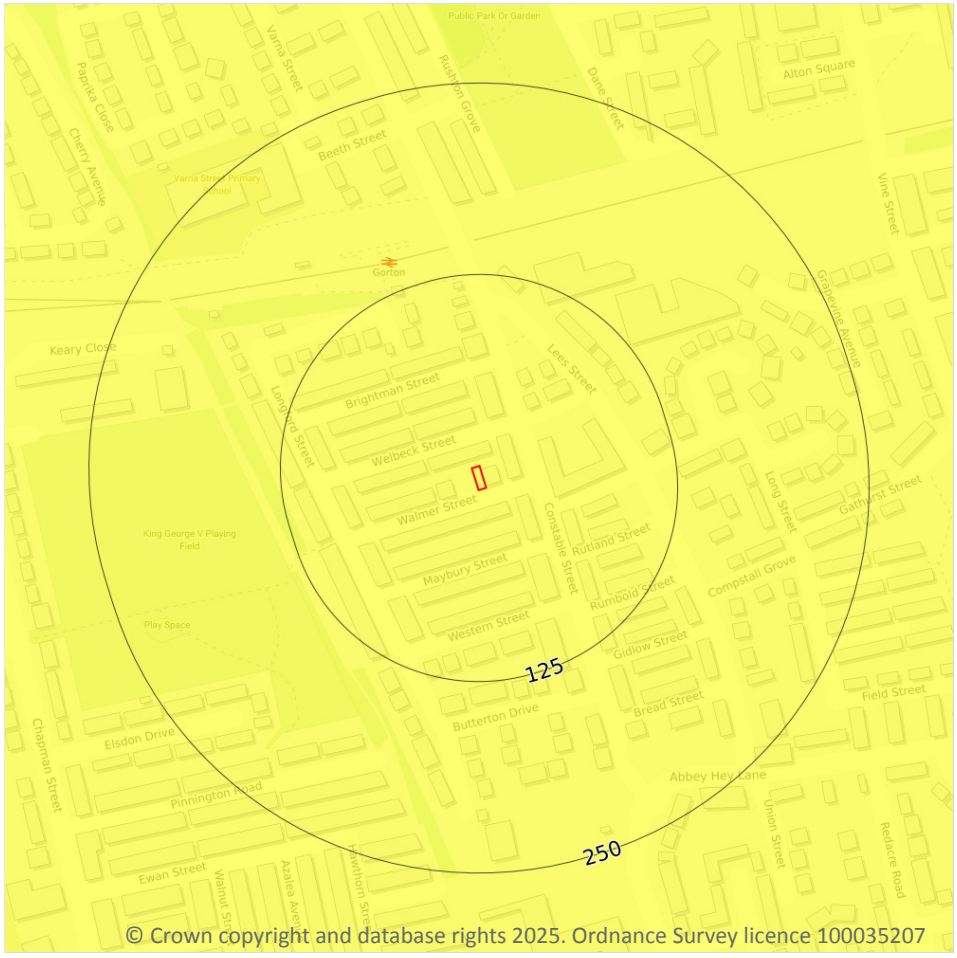
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 100 >**

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 101 >**

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



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Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

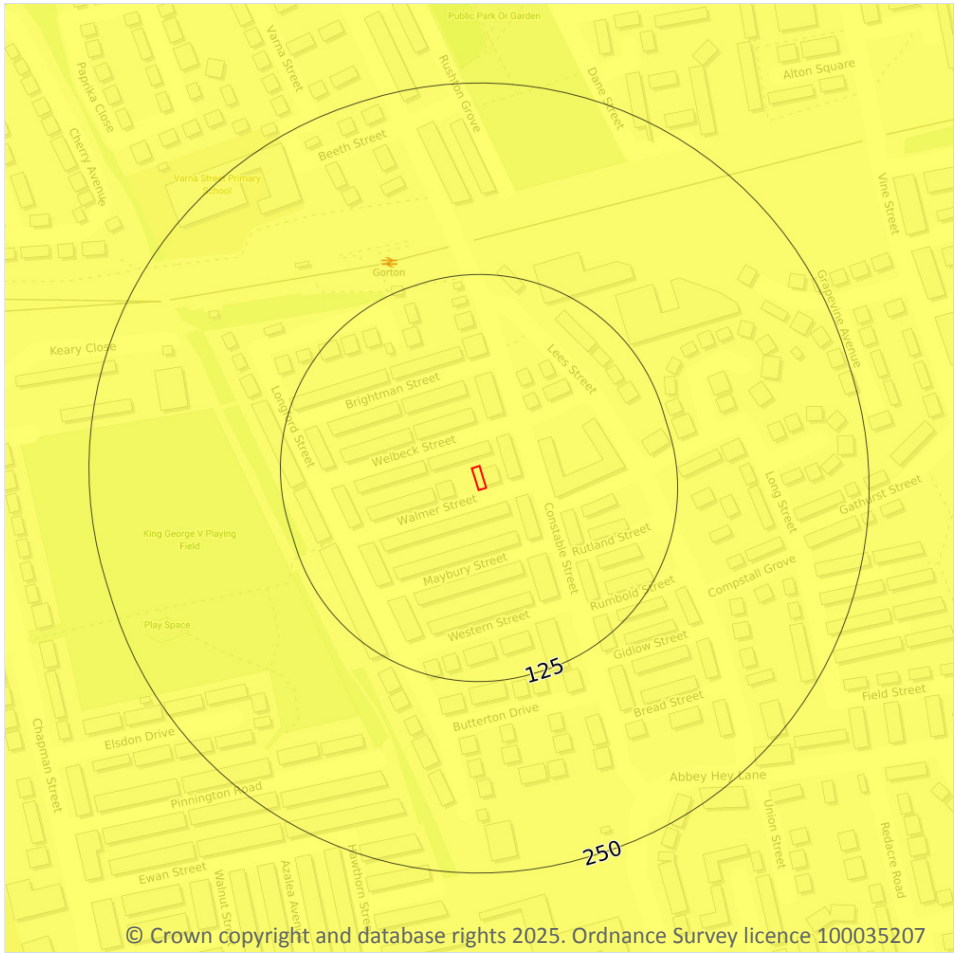
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 102 >**

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

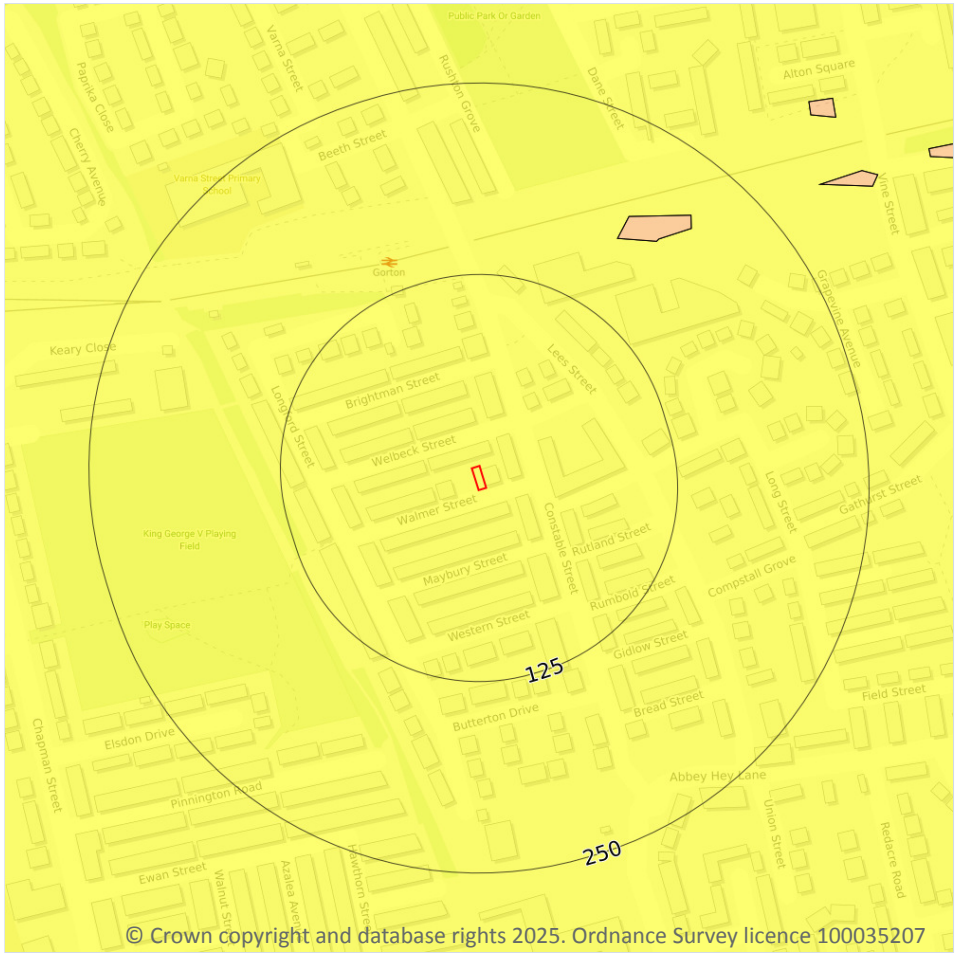
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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

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 104 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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17.6 Ground dissolution of soluble rocks

Records within 50m	1

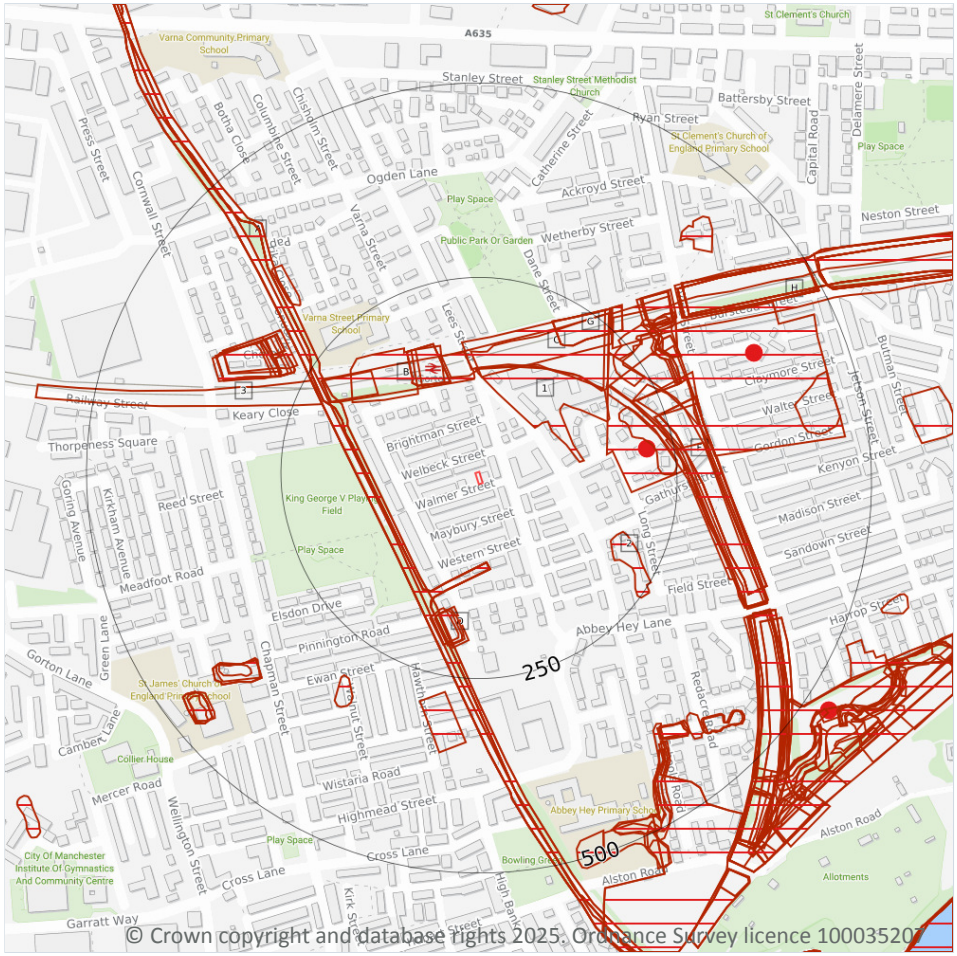
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 105 >**

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	2

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 107 >**

ID	Location	Details	Description
E	216m E	Name: Abbey Hey Brick Works Address: Abbey Hey, 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
J	385m NE	Name: Abbey Hey Brick Works Address: Abbey Hey, 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	**44**

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 107 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	90m NE	Unspecified Ground Workings	1905	1:10560
A	101m S	Canal	1938	1:10560
A	101m S	Canal	1934	1:10560
A	101m S	Canal	1915	1:10560
A	101m S	Canal	1905	1:10560
A	101m S	Canal	1890	1:10560
B	119m N	Cuttings	1848	1:10560
A	120m SW	Canal	1968	1:10560
A	120m SW	Canal	1956	1:10560
B	121m N	Cuttings	1938	1:10560
B	121m N	Cuttings	1934	1:10560
B	121m N	Cuttings	1915	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
C	122m N	Cuttings	1848	1:10560
B	124m N	Cuttings	1923	1:10560
C	124m N	Cuttings	1890	1:10560
B	126m NW	Cuttings	1923	1:10560
C	132m N	Cuttings	1923	1:10560
D	161m S	Pond	1848	1:10560
B	162m NW	Cuttings	1890	1:10560
E	164m E	Brick Works	1906	1:10560
D	164m S	Reservoir	1915	1:10560
D	166m S	Reservoir	1923	1:10560
D	166m S	Pond	1890	1:10560
2	181m SE	Ponds	1845	1:10560
E	193m NE	Unspecified Pit	1906	1:10560
F	193m NE	Cuttings	1892	1:10560
G	195m NE	Cuttings	1938	1:10560
G	195m NE	Cuttings	1934	1:10560
G	195m NE	Cuttings	1915	1:10560
F	202m NE	Cuttings	1918	1:10560
F	215m NE	Cuttings	1938	1:10560
F	215m NE	Cuttings	1934	1:10560
F	215m NE	Cuttings	1906	1:10560
3	216m NW	Cuttings	1848	1:10560
G	218m NE	Unspecified Ground Workings	1906	1:10560
F	223m NE	Cuttings	1981	1:10000
G	226m NE	Cuttings	1892	1:10560
H	234m NE	Cuttings	1845	1:10560
F	236m E	Cuttings	1923	1:10560
F	242m E	Cuttings	1968	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
F	242m E	Cuttings	1985	1:10000
F	242m E	Cuttings	1991	1:10000
G	245m NE	Cuttings	1938	1:10560
G	245m NE	Cuttings	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	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 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	1

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.

Location	Mineral type
494m SE	Stone

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.

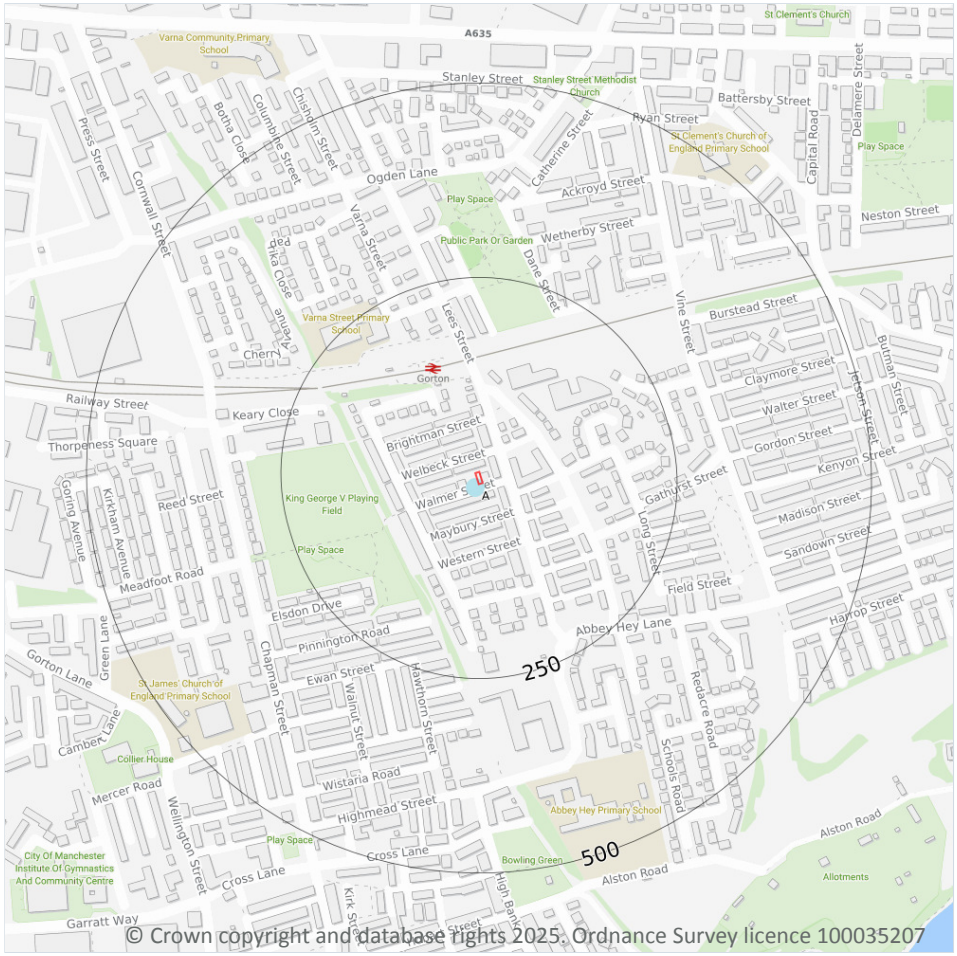
18.16 Clay mining

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



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Site Outline

Search buffers in metres (m)

Natural cavities (Area)

Natural cavities (Point)

Mining cavities

Reported recent incidents

Historical incidents

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	2

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.

Features are displayed on the Ground cavities and sinkholes map on **page 114 >**

ID	Location	Name	Date	Cause	Estimated diameter	Description	Accuracy
A	6m SW	Walmer Street, Abbey Hey, Gorton, Manchester ↗	20/01/2021	Unknown - Speculated Collapsed Sewer; Possible Heavy Rain	3m	After heavy rains in the area a sinkhole opened up swallowing a car, the following days the sinkhole caused three houses - 23, 25 & 27 Walmer St - to collapse (these were later demolished and other properties were evacuated). Cause is still unknown.	1m
A	7m S	Walmer Street, Abbey Hey ↗	20/01/2021	Collapsed drain/sewer	3m	Hole appeared on the Wednesday evening, four homes in the road were evacuated, hours later two of these homes had partially collapsed.	1m

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

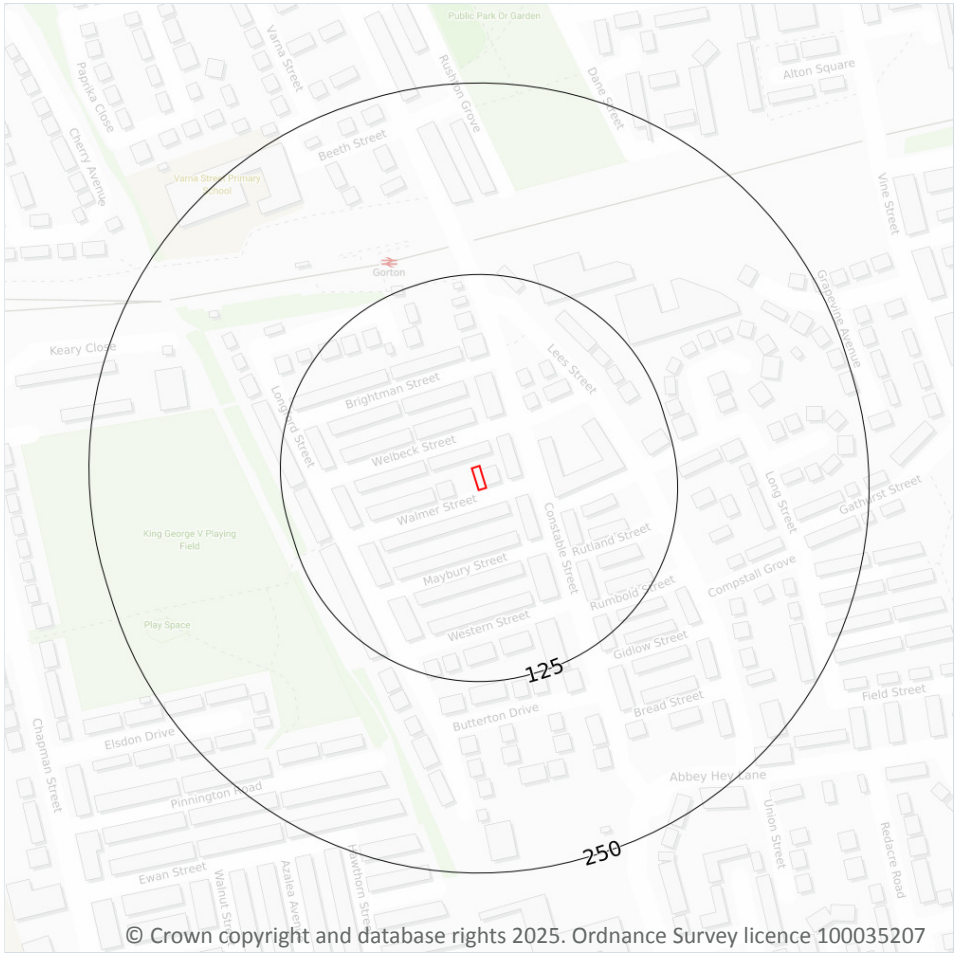
This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a 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.

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 117 >**

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	1

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**	**200 - 300 mg/kg**	**120 - 240 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	4

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	**32**	**5.6**	**56**	**38**	**0.3**	**80**	**12**	**35**	**4**
On site	**33**	**5.8**	**58**	**40**	**0.3**	**81**	**13**	**36**	**4**
16m E	32	5.6	56	38	0.3	78	26	35	2
19m E	33	5.8	60	41	0.3	77	27	34	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



Site Outline

Search buffers in metres (m)

- 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	13

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 121 >**

Location	Land Use	Year of mapping	Mapping scale
135m N	Railway	1908	-
172m E	Railway Sidings	1906	10560
203m NE	Railway	1938	-
235m NW	Railway Sidings	1905	10560
235m NW	Railway Sidings	1923	10560
242m NW	Railway Sidings	1938	10560
242m NW	Railway Sidings	1934	10560
242m NW	Railway Sidings	1915	10560
242m NW	Railway Sidings	1991	10000
246m NW	Railway Sidings	1908	2500
247m NW	Railway Sidings	1922	2500
248m NW	Railway Sidings	1950	2500
248m NW	Railway 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	1

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

Features are displayed on the Railway infrastructure and projects map on **page 121 >**

Location	Description
146m N	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	12

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

Features are displayed on the Railway infrastructure and projects map on **page 121 >**

Location	Name	Type
142m N	Hadfield and Ardwick Junction Line	rail
144m N	Not given	Multi Track
145m N	Hadfield and Ardwick Junction Line	rail
146m NW	Not given	Multi Track
147m N	Not given	Multi Track
212m NW	Hadfield and Ardwick Junction Line	rail
220m NW	Not given	Multi Track
229m NW	Hadfield and Ardwick Junction Line	rail

Location	Name	Type
230m NW	Not given	Multi Track
230m NW	Not given	Multi Track
242m NW	Not given	Multi Track
242m NW	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 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.

22.9 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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