

# CONTAMINATED LAND RISK ASSESSMENT

## Phase 1 Desk Study Report

### Site Address

17 Prospect Place,  
Heywood,  
OL10 4JQ

### Client

Eagles Estate Ltd

### Report Reference

PH1-2023-000007

### Prepared by

STM Environmental Consultants Ltd

### Date

22/02/2023



**CONSULTING GEO-ENVIRONMENTAL  
ENGINEERS AND SCIENTISTS**

Phase 1 Contaminated Land Desk Studies, Geo-Environmental Site Investigations, Environmental Due Diligence, Flood Risk Assessments, Surface Water Management Strategies (SuDS), Ecology, Noise and Air Quality Assessments, Environmental Management Systems, GIS & Data Management Systems

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## 2 DOCUMENT CONTROL



### CONTAMINATED LAND RISK ASSESSMENT Phase 1 Desk Study Report



|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| <b>Site Address:</b>            | 17 Prospect Place,<br>Heywood,<br>OL10 4JQ               |
| <b>Site Coordinates:</b>        | 385900, 411106                                           |
| <b>Prepared for:</b>            | Eagles Estate Ltd                                        |
| <b>Report Reference:</b>        | PH1-2023-000007                                          |
| <b>Version No:</b>              | 1.0                                                      |
| <b>Date:</b>                    | 22/02/2023                                               |
| <b>Report Author:</b>           | Rebecca Andrew (MSci)<br><b>Environmental Consultant</b> |
| <b>Draft Report Checked by:</b> | Rima Hassan (BSc)<br><b>Environmental Consultant</b>     |
| <b>Authorised by:</b>           | Simon Makoni (BSc, MSc)<br><b>Director</b>               |

### 3 DISCLAIMER

This report and any information or advice which it contains, is provided by STM Environmental Consultants Ltd (STM) and can only be used and relied upon by Eagles Estate Ltd (Client).

STM has exercised such professional skill, care and diligence as may reasonably be expected of a properly qualified and competent consultant when undertaking works of this nature. However, STM gives no warranty, representation or assurance as to the accuracy or completeness of any information, assessments or evaluations presented within this report. Furthermore, STM accepts no liability whatsoever for any loss or damage arising from the interpretation or use of the information contained within this report. Any party other than the Client using or placing reliance upon any information contained in this report, do so at their own risk.

It is noted that some of the findings presented in this report are based on information obtained from third parties (i.e. Environmental Search Report). Whilst we assume that all information is representative of the site and of present conditions, we can offer no guarantee as to its validity regarding the short term or long-term history of the Site.

This report excludes consideration of potential hazards arising from any activities at the Site other than normal use and occupancy for the intended land uses. Hazards associated with any other activities have not been assessed and must be subject to a specific risk assessment by the parties responsible for those activities.

It should be noted that this report has been produced for environmental purposes only. It should not in any way be construed to be or used to replace a geotechnical survey, structural survey, asbestos survey, buried services survey, unexploded ordnance survey or Invasive Plant Survey.

## 4 EXECUTIVE SUMMARY

| SECTION                         | SUMMARY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Site Location And Size</b>   | The site is located at 17 Prospect Place, Heywood, OL10 4JQ and is centred at national grid reference 385900, 411106. The site has an area of approximately 0.02 ha.                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Current Site Use</b>         | The site currently comprises open undeveloped land, with a Small Domestic Garage present in the east. The main current uses in the immediate surrounding area include residential dwellings and open undeveloped land.                                                                                                                                                                                                                                                                                                                                                |
| <b>Proposed Development</b>     | The development proposal is for the erection of 3no. residential dwellings. It is understood that there are proposals to include soft landscaping in the development.                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Site History</b>             | Examination of Ordnance Survey historic maps revealed that the site was open undeveloped land in c.1851. 1no. unspecified building was developed in the east of the site in c.1955-56. By c.1973-75 the site was cleared and 2no. small unspecified buildings were developed in the south of the site. By c.1989-92 the building in the south east of the site was demolished, after which no further significant changes occurred. The surrounding area has been predominantly residential, with Industrial properties over 100m away present to the south and east. |
| <b>Geology</b>                  | According to BGS, the bedrock geology beneath the site consists of Pennine Lower Coal Measures Formation comprising Mudstone, Siltstone and Sandstone while superficial deposits of Glaciofluvial Deposits, Devensian comprising Sand and Gravel were identified.                                                                                                                                                                                                                                                                                                     |
| <b>Topography</b>               | The site is at an elevation of approximately 108mAOD (above Ordnance Datum).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Hydrogeology</b>             | The site is underlain by Secondary A Superficial and Bedrock Aquifers.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hydrology</b>                | The nearest surface water body is Millers Brook located 20m NW.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ecology</b>                  | There are no ecological receptors located on or within 250m of the site.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Coal Mining</b>              | The site is located in an area potentially affected by Coal Mining. It is recommended that a Coal Mining Risk Assessment is undertaken for the site as this is outside the scope of this assessment.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Contamination Assessment</b> | <p>On site potentially contaminative land uses (PCLUs) have included a Small Domestic Garage and Unknown Ground Workings/Refuse Heap while off site PCLUs include Allotment Gardens (25m W), Infilled Marl Pit (85m SE), 4no. Infilled Reservoirs (90m SW, 130m S, 135m SE &amp; 240m SW), Refuse Tip (115m SW) and Mutual Street Historical Landfill (217m E). Potential Coal Mine Gas was also identified as a further potential source of contamination.</p> <p>A conceptual site risk model was developed and a qualitative risk assessment carried out.</p>      |

|                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                               | <p>Potentially significant potential pollutant linkages were identified in respect of:</p> <ul style="list-style-type: none"> <li>Human Health Receptors - via ingestion, dermal absorption and inhalation (indoors and outdoors);</li> <li>Human Health Receptors - Explosion/Fire risk due to build-up of Methane in confined spaces;</li> <li>Property Receptors – Damage to Buildings and Services due to the presence of aggressive chemicals in the soil.</li> <li>Property Receptors - Explosion/Fire risk due to build-up of Methane in confined spaces</li> </ul> |
| <b>Recommendations</b>                                                                                                        | <p>Given that potentially significant potential pollutant linkages were identified, it is recommended that an intrusive site investigation is undertaken with the objective of determining the presence and extent of any soil and gaseous contamination at the site.</p>                                                                                                                                                                                                                                                                                                  |
| <p>This table is intended as a summary of the desk study findings and should be read in conjunction with the main report.</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## 5 INTRODUCTION

STM Environmental Consultants Ltd (STM) were commissioned by Eagles Estate Ltd (Client) to undertake a Phase 1 Contaminated Land Risk Assessment (CLRA) at a site located at 17 Prospect Place, Heywood, OL10 4JQ.

The study is required to support the planning application 22/01531/FUL.

### 5.1 Development Proposal

The development proposal is for the erection of 3no. residential dwellings. It is understood that there are proposals to include soft landscaping in the development.

The proposed development plans are contained in [Appendix 2](#).

## 6 CONTEXT AND OBJECTIVES FOR THE RISK ASSESSMENT

### 6.1 Legislative Context

#### 6.1.1 Part IIA

Part IIA of the Environmental Protection Act 1990, which came into force in England in April 2000 and in Wales in July 2001, introduced a new statutory regime for the identification and remediation of contaminated land in the United Kingdom.

The legislation considers risks from contaminated land to human beings, controlled waters (surface and ground water), protected ecological systems and property. Under the legislation "contaminated land" is defined as:

"Any land which appears to the local authority in whose area it is situated to be in such a condition, by reason of substances in, on or under the land that: -

(a) Significant harm is being caused or there is significant possibility of such harm being caused: or

(b) Pollution of controlled waters is being caused, or is likely to be, caused."

In order for land to be considered contaminated, there must be a contaminant, a receptor and a pathway (via which the contaminant can reach the receptor) present at the site. When these three components are identified at a site, a *pollutant linkage* is said to exist.

**Pollutant Linkage = Contaminant → Pathway → Receptor**

In order for a local authority to determine that a site is contaminated land, it must be satisfied that the pollutant linkage is a *significant pollutant linkage* and that the land in question is causing, or that there is a significant possibility that it will cause significant harm (SPOSH) to humans, habitats, buildings or livestock and crops if remedial work is not carried out.

#### 6.1.2 National Planning Policy Framework

The National Planning Policy Framework (NPPF) sets out the government's policy on dealing with land contamination through the planning process. It states that planning policies and decisions should ensure that:

- a site is suitable for its proposed use taking account of ground conditions and any risks arising from land instability and contamination. This includes risks arising from natural hazards or former activities such as mining, and any proposals for mitigation including land remediation (as well as potential impacts on the natural environment arising from that remediation);
- after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and
- adequate site investigation information, prepared by a competent person, is presented.

### 6.1.3 Environmental Damage Regulations

The Environmental Damage (Protections and Remediation) Regulations 2015 transpose the provisions of the EU Environmental Liability Directive into law in England and Wales.

The Regulations require action in response to the most significant cases of environmental damage. They cover specific types of:

- damage to species and habitats;
- damage to water; or
- risks to human health from contamination of land.

The Regulations apply to both imminent threats and actual cases of damage. Where these arise, those responsible must take immediate action to prevent damage occurring or remediate damage where it does occur.

The Regulations are based on the polluter pays principle 'requiring those responsible to meet the cost of preventive and remedial measures.

## 6.2 Objectives

This Desk Study has been written so as to provide an initial overview of the nature and extent of contamination hazards that may exist at the site. It has been undertaken in accordance with the specifications outlined in the British Standard BS 10175:2011+A2:2017 Code of Practice for the Investigation of potentially contaminated sites and the Environment Agency Document, LCRM: Stage 1 Risk Assessment.

The main objectives of the study were to:

- Enable a conceptual site risk model to be constructed;
- Provide sufficient information for a preliminary qualitative risk assessment to be undertaken;
- Inform the need for and scope of any intrusive investigations that may be required.

## 6.3 Summary of Research Undertaken

Details of information sources researched in order to compile this desk study are given below.

- Environment Agency Open Data (GIS)
- English Nature Open Data (GIS)
- English Heritage Open Data (GIS)
- British Geological Survey GeoIndex Web Map Service
- Coal Authority Open Data and Web Map Service.
- Historical Ordnance Survey Maps

-  Local Authority Planning Application Portal
-  Groundsure Enviro Insight Report & Historical Maps
-  Bomb Sight Web Map Service for UXO

## 7 SITE DESCRIPTION

### 7.1 Site Location and Size

The site is located at 17 Prospect Place, Heywood, OL10 4JQ at grid reference is 385900, 411106. The site has an area of approximately 0.02 ha.

The site lies within the jurisdiction of Rochdale Metropolitan Borough Council in terms of the planning process. See Figure 1 below for the Site Location and Aerial Map.

### 7.2 Current Site Use

The site currently comprises open undeveloped land, with a Small Domestic Garage present in the east.

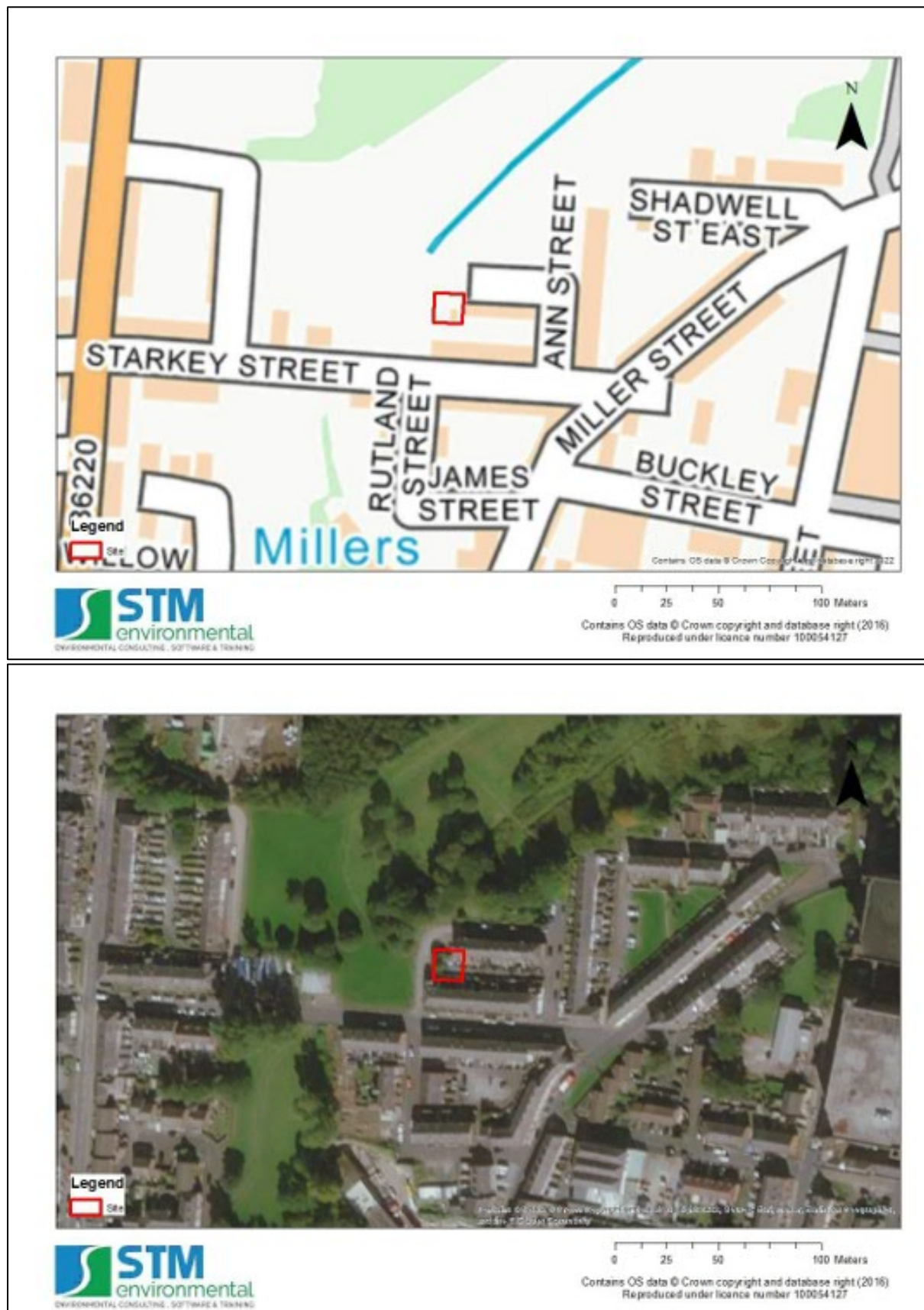
### 7.3 Surrounding Land Uses

A description of current land uses surrounding the boundaries of the site is given below in Table 1.

Table 1: Summary of surrounding land uses

| Boundary | Land Use Description                 |
|----------|--------------------------------------|
| Northern | Prospect Place/Open Undeveloped Land |
| Eastern  | Residential                          |
| Southern | Residential                          |
| Western  | Prospect Place/Open Undeveloped Land |

Figure 1: Site Location and Aerial Map



## 8 SITE HISTORY

### 8.1 Analysis of Historical Ordnance Survey Mapping

Historical maps published by the Ordnance Survey dating back to the late 1800's were reviewed in order to ascertain any previous industrial use at the site. The Groundsure Historical Maps are presented in [Appendix 3](#). A summary of the historic map analysis is provided in Table 2.

Table 2: Summary of historical land use identified from historical maps

| Map Year & Scale                                 | POTENTIALLY CONTAMINATIVE LAND USES                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                  | On Site                                                                                                                                                                                             | Off Site                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>1851</b><br><b>1:1,056</b><br><b>1:10,560</b> | The site comprises undeveloped land.                                                                                                                                                                | The surrounding area is predominantly open undeveloped land.<br><br>Marl Pit 85m SE.                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>1890</b><br><b>1:2,500</b><br><b>1:10,560</b> | No significant changes.                                                                                                                                                                             | The surrounding area has undergone major development to the E, S & W; including the adjacent residential properties.<br>Marl Pit 85m SE has been redeveloped as residential properties, likely infilled.<br><br>3no. Cotton Mills 75m SW, 160m S & 175m SW.<br>Dye Works 100m SW.<br>Woodfield Mill 105m SE.<br>2no. Reservoirs 130m S & 135m SE.<br>Mutual Mill (Cotton) 200m E.<br>Phoenix Mill 200m SW.<br>2no. Timber Yards 210m SW & 250m SW.<br>Saw Mill 230m W. |
| <b>1908-09</b><br><b>1:10,560</b>                | Whilst not identified in the maps, within the Groundsure Report a Refuse Tip is listed as present onsite in c.1909. This is likely associated with the Unknown Ground Workings located adjacent NW. | Unknown Ground Workings adjacent NW.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>1910</b><br><b>1:2,500</b>                    | No significant changes.                                                                                                                                                                             | Cotton Mills 75m SW relabelled John Street Mill (Cotton).<br>Reservoirs 135m SE no longer present.<br>Cotton Mill 160m S relabelled Miller's Brook Mill (Cotton).                                                                                                                                                                                                                                                                                                      |

Table 2: Summary of historical land use identified from historical maps

| Map Year & Scale                                   | POTENTIALLY CONTAMINATIVE LAND USES                          |                                                                                                                                                                                                                                                                                                                     |
|----------------------------------------------------|--------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | On Site                                                      | Off Site                                                                                                                                                                                                                                                                                                            |
|                                                    |                                                              | Phoenix Mill 200m SW has been relabelled Phoenix Mill (Cotton).<br>Timber Yard 250m SW no longer present.<br><br>Smithy 240m S.                                                                                                                                                                                     |
| <b>1928</b><br><b>1:10,560</b>                     | No significant changes.                                      | No significant changes.                                                                                                                                                                                                                                                                                             |
| <b>1929-30</b><br><b>1:2,500</b>                   | No significant changes.                                      | Dye Works 100m SW no longer labelled.<br>Woodfield Mill 105m SE no longer labelled.<br>Mutual Mill (Cotton) 200m E no longer labelled.<br>Timber Yard 210m SW no longer labelled.<br>Smithy 240m S no longer labelled.<br><br>Allotment Gardens 75m N.<br>2no. Reservoirs 90m SW & 240m SW.<br>Brass Works 235m SW. |
| <b>1937</b><br><b>1:2,500</b>                      | No significant changes.                                      | John Street Mill (Cotton) 75m SW no longer present.<br>Reservoir 90m SW no longer present.<br>Phoenix Mill (Cotton) 200m SW no longer labelled.<br>Saw Mill 230m W no longer present.<br><br>2no. Tanks 130m SE & 220m NE.<br>Saw Mill 210m S.                                                                      |
| <b>1938</b><br><b>1:10,560</b>                     | No significant changes.                                      | No significant changes.                                                                                                                                                                                                                                                                                             |
| <b>1955-56</b><br><b>1:1,250</b><br><b>1:2,500</b> | 1no. unspecified building developed in the east of the site. | Allotment Gardens 75m N have expanded, now located 60m NW.<br>2no. Reservoirs 130m S & 240m SW no longer present.<br>Cotton Mill 175m SW relabelled Willow Street Mill (Cotton).<br><br>3no. Allotment Gardens 25m W, 95m NE & 200m W.                                                                              |

Table 2: Summary of historical land use identified from historical maps

| Map Year & Scale                                    | POTENTIALLY CONTAMINATIVE LAND USES                                                                           |                                                                                                                                                                                                                                                      |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                     | On Site                                                                                                       | Off Site                                                                                                                                                                                                                                             |
|                                                     |                                                                                                               | Builder's Yard 100m S.<br>Woodfield Mill (Industrial Gloves) 105m SE.<br>Electricity Substation 175m SW.<br>Garage 210m SW.<br>Builder's Yard 210m SW.<br>Engineering Works 235m SW.<br>Springfield Engineering Works 240m SE.<br>Warehouse 240m SE. |
| <b>1957-58</b><br><b>1:1,250</b><br><b>1:2,500</b>  | No significant changes.                                                                                       | Mutual Mills (Cotton, Wool & Synthetic Fibres Spinning) 200m E.                                                                                                                                                                                      |
| <b>1965-68</b><br><b>1:1,250</b><br><b>1:10,560</b> | No significant changes.                                                                                       | Builder's Yard 210m SW relabelled Plastic Works.<br>Springfield Engineering Works 240m SE no longer labelled.<br>Warehouse 240m SE no longer labelled.<br><br>Refuse Tip 115m SW.                                                                    |
| <b>1969</b><br><b>1:2,500</b>                       | Blank map.                                                                                                    | Partial mapping only; no significant changes.                                                                                                                                                                                                        |
| <b>1973-75</b><br><b>1:1,250</b><br><b>1:10,000</b> | The site has been cleared, and 2no. small unspecified buildings have been developed in the south of the site. | 3no. Allotment Gardens 25m W, 65m NW & 95m NE no longer labelled.<br>Engineering Works 235m SW no longer labelled.<br><br>Electricity Substation 235m NW.                                                                                            |
| <b>1981-85</b><br><b>1:1,250</b>                    | No significant changes.                                                                                       | Partial mapping only; Refuse Tip 115m SW no longer labelled.<br>Plastic Works 210m SW relabelled Works.<br>Brass Works 235m SW no longer present.                                                                                                    |
| <b>1987</b><br><b>1:10,000</b>                      | No significant changes.                                                                                       | No significant changes.                                                                                                                                                                                                                              |
| <b>1989-92</b><br><b>1:1,250</b><br><b>1:10,000</b> | The building in the eastern side of the site has been demolished.                                             | Building Yard 100m S has been relabelled as a Scrap Yard.                                                                                                                                                                                            |

Table 2: Summary of historical land use identified from historical maps

| Map Year & Scale               | POTENTIALLY CONTAMINATIVE LAND USES                                                                   |                                                                                                                               |
|--------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
|                                | On Site                                                                                               | Off Site                                                                                                                      |
|                                |                                                                                                       | Electricity Substation 225m SE.                                                                                               |
| <b>2001</b><br><b>1:10,000</b> | No significant changes.                                                                               | No significant changes.                                                                                                       |
| <b>2003</b><br><b>1:1,250</b>  | No significant changes.                                                                               | Woodfield Mill (Industrial Gloves) 105m SE relabelled Mill.                                                                   |
| <b>2010</b><br><b>1:10,000</b> | No significant changes.                                                                               | No significant changes.                                                                                                       |
| <b>2023</b><br><b>1:10,000</b> | No significant changes.                                                                               | No significant changes.                                                                                                       |
| <b>Current Use</b>             | The site currently comprises open undeveloped land, with a Small Domestic Garage present in the east. | The main current uses in the immediate surrounding area include residential dwellings and open undeveloped land to the N & W. |

## 9 ENVIRONMENTAL CHARACTERISTICS

A variety of Environmental datasets provided by the Environment Agency, British Geological Society, English Heritage and English Nature and others were screened in order to assess the environmental sensitivity of the site. The Groundsure Environmental Screen Report is presented in [Appendix 4](#). The results are summarised below.

### 9.1 Geology

#### 9.1.1 Published Geology

According to the BGS Geoindex, the site is located on bedrock of Pennine Lower Coal Measures Formation comprising Mudstone, Siltstone and Sandstone. The superficial deposits are Glaciofluvial Deposits, Devensian comprising Sand and Gravel.

#### 9.1.2 Unpublished Geology

BGS borehole records for the immediate surrounding area were reviewed in order to obtain further information on the ground conditions beneath the site. No relevant information was identified.

## 9.2 Hydrogeology

The Environment Agency classifies the superficial deposits as a Secondary A Aquifer. The bedrock is classified as a Secondary A Aquifer. There are no groundwater Source Protection Zones on or within 250m of the site.

## 9.3 Water Abstractions

No Potable Water Abstraction Licenses were identified on or within 1000m of the site.

The following Groundwater (GW) and Surface Water (SW) Abstraction Licenses were identified within 1000m of the site:

Table 3: Groundwater and Surface Water Abstraction Licenses identified within 1000m of the site

| Point                                                                | Status     | Details       | Source                                 | Distance/<br>Direction |
|----------------------------------------------------------------------|------------|---------------|----------------------------------------|------------------------|
| <b>Boreholes (2) At Premises, Roeacre Tannery, Heywood (GW)</b>      | Historical | Process Water | Ground Water – North West Region       | 495m SE                |
| <b>Boreholes (2) At Premises, Roeacre Tannery, Heywood, L97 (GW)</b> | Historical | Process Water | Ground Water – North West Region       | 578m SE                |
| <b>Borehole At Premises, Crimble Mills, Heywood (GW)</b>             | Historical | Boiler Feed   | Ground Water – North West Region       | 766m NE                |
| <b>Borehole At Premises, Crimble Mills, Heywood (GW)</b>             | Historical | Process Water | Ground Water – North West Region       | 766m NE                |
| <b>Borehole At Premises, Crimble Mills, Heywood (GW)</b>             | Historical | Process Water | Ground Water – North West Region       | 766m NE                |
| <b>Borehole At Premises, Crimble Mills, Heywood (GW)</b>             | Historical | Boiler Feed   | Ground Water – North West Region       | 766m NE                |
| <b>River Roch At Heywood (SW)</b>                                    | Historical | Boiler Feed   | Surface, Non-Tidal – North West Region | 766m NE                |
| <b>River Roch At Heywood (SW)</b>                                    | Historical | Process Water | Surface, Non-Tidal – North West Region | 766m NE                |

## 9.4 Groundwater Level

According to BGS, the groundwater is likely to be less than 3.0 metres below the ground surface for at least part of the year in the west, and between 3.0 and 5.0 metres below the ground surface throughout the year in the east of the site.

## 9.5 Hydrology

The nearest surface water feature is Millers Brook which is located approximately 20m NW of the site.

## 9.6 Flood Risk

### 9.6.1 River and Tidal (Fluvial and Tidal) Flooding

The risk of fluvial and tidal flooding is considered to be low. The site is located within Flood Zone 1, which is defined as land having less than 1 in 1,000 annual probability of river or sea flooding (<0.1%).

### 9.6.2 Surface Water (Pluvial) Flooding

The Environment Agency (EA) long term flooding maps indicate that the site is at Very Low risk of surface water flooding. Very Low risk means that each year this area has a chance of flooding of less than 0.1%.

### 9.6.3 Groundwater Flooding

The BGS groundwater flood maps indicate that the risk of groundwater flooding at the site is Moderate.

## 9.7 Environmentally Sensitive Sites and Ecological Protection Zones

No Ecological Protection Zones (e.g. Special Scientific Interest (SSSI), Ramsar Sites, Special Areas of Conservation (SAC)) were identified on or within 250m of the proposed development.

The following Environmentally Sensitive Sites (e.g. Green Belt Land, Ancient Woodlands) were identified within 250m of the site:

Table 4: Environmentally Sensitive Sites identified within 250m of the site

| Type                                                  | Direction | Distance |
|-------------------------------------------------------|-----------|----------|
| <b>Green Belt (Merseyside and Greater Manchester)</b> | E         | 219m     |

## 9.8 Conservation Areas, Designated Protected Buildings and Monuments

No Conservation Areas, Listed Buildings or Scheduled Ancient Monuments were identified on or within 50m of the proposed development.

## 9.9 Topography

According to [Google Earth](#), the general site level is at 108mAOD.

## 9.10 Waste Disposal Activities & Landfill Sites

The following Historical Landfills and Waste Sites were identified within 250m of the site:

Table 5: Historical Landfills and Waste Sites identified within 250m of the site

| Site Address      | Source              | Waste Type/Type of Site | Dates     | Distance/Direction |
|-------------------|---------------------|-------------------------|-----------|--------------------|
| <b>N/A</b>        | LA Historic Mapping | Scrap Yard              | 1989-1999 | 100m S             |
| <b>Refuse Tip</b> | LA Mapping Records  | -                       | 1967      | 115m SW            |

|                               |            |       |                         |        |
|-------------------------------|------------|-------|-------------------------|--------|
| <b>Mutual Street, Heywood</b> | EA Records | Inert | 31/12/1882 – 31/12/1986 | 217m E |
|-------------------------------|------------|-------|-------------------------|--------|

#### 9.11 Petrol and Fuel Sites

No Petrol or Fuel Sites were identified on or within 250m of the site.

#### 9.12 Sites Determined as Contaminated Land under Part 2A EPA 1990

No Sites Determined as Contaminated Land were identified on or within 500m of the site.

#### 9.13 Dangerous or Hazardous Sites

No Control of Major Accident Hazards (COMAH) or Notification of Installations Handling Hazardous Substances (NIHHS) Sites were identified on or within 500m of the site.

#### 9.14 Hazardous Substance Storage/Usage

No 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 were identified on or within 500m of the site.

#### 9.15 IPC Authorisations

No Integrated Pollution Control (IPC) Authorisations were identified on or within 500m of the site.

#### 9.16 Part A(1) and IPPC Authorised Activities

No Part A(1) or Integrated Pollution Prevention Control (IPPC) Authorised Activities were identified on or within 500m of the site.

#### 9.17 Part A(2) and Part B Activities and Enforcements

No Part A(2) and Part B Activities and Enforcements were identified on or within 250m of the site.

#### 9.18 Category 3 or 4 Radioactive Substance Authorisations

No Category 3 or 4 Radioactive Substance Authorisations were identified on or within 500m of the site.

#### 9.19 Discharge Consents

No Red List Discharge Consents were identified on or within 500m of the site.

The following Licensed Discharge Consents were identified within 250m of the site:

Table 6: Licensed Discharge Consents identified within 250m of the site

| Site Address                                                                   | Effluent Type                                    | Receiving Water | Effective Date-Revocation Date | Distance/Direction |
|--------------------------------------------------------------------------------|--------------------------------------------------|-----------------|--------------------------------|--------------------|
| <b>John Street CSO<br/>35020, 31 John Street, Heywood, Greater Manchester,</b> | Sewage Discharges – Sewer Storm Overflow – Water | Millers Brook   | 20/01/2006 – 03/06/2018        | 16m NW             |

| Site Address                                                                                | Effluent Type                                            | Receiving Water | Effective Date-Revocation Date | Distance/Direction |
|---------------------------------------------------------------------------------------------|----------------------------------------------------------|-----------------|--------------------------------|--------------------|
| <b>OL10 4LL</b>                                                                             | Company                                                  |                 |                                |                    |
| <b>John Street CSO<br/>35020, 31 John Street, Heywood, Greater Manchester, OL10 4LL</b>     | Sewage Discharges – Sewer Storm Overflow – Water Company | Millers Brook   | 01/01/1995 – 19/01/2006        | 110m SW            |
| <b>John Street CSO<br/>35020, 31 John Street, Heywood, Greater Manchester, OL10 4LL 4LL</b> | Sewage Discharges – Sewer Storm Overflow – Water Company | Millers Brook   | 04/06/2018 – N/A               | 111m SW            |
| <b>Heywood SSO, John Street/Willow Street, Heywood, Greater Manchester</b>                  | Sewage Discharges – Sewer Storm Overflow – Water Company | Millers Brook   | 31/07/1981 – N/A               | 113m SW            |

## 9.20 List 1 and List 2 Dangerous Substance Inventory Sites

No List 1 and List 2 Dangerous Substances Inventory Sites were identified on or within 500m of the site.

## 9.21 Pollution Incidents

No Pollution Incidents occurred on or within 50m of the site.

## 9.22 Coal Mining

The site is located in an area potentially affected by Coal Mining. It is recommended that a Coal Mining Risk Assessment is undertaken at the site as this is outside the scope of this assessment.

## 9.23 Non-Coal Mining

No Non-Coal Mining Areas were identified on or within 50m of the site.

## 9.24 Radon

A search of the BGS Radon dataset indicates that the property lies in an area with less than 1% chance of being affected by naturally occurring Radon gas. Therefore, it is unlikely to be affected by Radon.

## 9.25 Asbestos within Buildings

The information available indicates that the building on the site were developed prior to 2010. It is therefore considered possible that Asbestos may exist within them and that an Asbestos survey may be required in line with The Control of Asbestos Regulations 2012. This is outside the scope of this assessment. An Asbestos survey is recommended.

# 10 RELEVANT PLANNING HISTORY

Rochdale Metropolitan Borough Council's online planning portal was searched in an effort to identify any relevant planning applications. No relevant documents were identified onsite.

## 10.1 Planning Applications for Adjacent Sites

Table 7 below provides a summary of the previously submitted planning applications identified for nearby sites within 200m. Although other planning applications were identified on adjacent sites; they were not deemed relevant to this report.

Table 7: Summary of planning applications for adjacent sites

| Application Reference | Date | Description of Proposal                                                                                                                                                                                                                                                                                                             | Status                                             |
|-----------------------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <b>91/D26716</b>      | 1991 | Residential Development-Three Terraced Dwellinghouses. <b>(Land At Starkey Street Heywood – 117m SW)</b>                                                                                                                                                                                                                            | Granted (without a Contaminated Land Condition)    |
| <b>96/D33591</b>      | 1996 | Use Of Premises To Provide 4 Self-Contained Flats Including Alterations To Elevations <b>(133 Starkey Street Heywood – 66m SE)</b>                                                                                                                                                                                                  | Granted (without a Contaminated Land Condition)    |
| <b>03/D42363</b>      | 2003 | Demolition Of Part Of Existing Mill Buildings, Erection Of Single And Two Storey Extensions, And Formation Of Replacement Car Parking Area To Rear Of 22-26 Clarke Street. <b>(Millersbrook Mill, Miller Street, Heywood – 164m S)</b>                                                                                              | Granted (without a Contaminated Land Condition)    |
| <b>04/D43503</b>      | 2004 | Erection Of Two Storey Building Comprising 2 Self Contained Apartments <b>(Land Adjacent 96 Shadwell Street East, Heywood, Lancashire – 118m NE)</b>                                                                                                                                                                                | Granted (with a Gas Protection Measures Condition) |
| <b>08/D50976</b>      | 2008 | Erection Of 3 Dwellings <b>(Land At Junction Of Miller Street And James Street, Heywood – 102m S)</b>                                                                                                                                                                                                                               | Granted (with a Contaminated Land Condition)*      |
| <b>12/D55441</b>      | 2012 | Erection Of Three, Three-Bedroom Dwellings (Re-Submission Of D55150) <b>(Land At The Junction Of Miller Street And James Street, Heywood – 102m S)</b>                                                                                                                                                                              | Granted (with a Contaminated Land Condition)*      |
| <b>18/01318/FUL</b>   | 2019 | Construction of a single storey extension to provide 4no. additional classrooms and a studio space, office, one-to-one rooms and ancillary facilities; extension to the existing car park; and construction of a new Multi-Use Games Area (MUGA) <b>(St Lukes C Of E Primary School Queens Park Road Heywood OL10 4XB – 95m NW)</b> | Granted (with a Contaminated Land Condition)**     |

\*No Contaminated Land Reports were identified on the online planning portal at the time of the search.

\*\*Whilst a Contaminated Land Report was identified associated with this planning application, it could not be viewed at the time of writing.

## 11 SITE WALKOVER

A site walkover was not undertaken as part of the initial scope of works. Photographs of the site, which have been provided by the Client, are presented in [Appendix 6](#).

## 12 PRELIMINARY CONCEPTUAL SITE RISK MODEL (CSM)

A conceptual site risk model (CSM) aims to summarise all the potential pollutant linkages or risk that may be associated with a site. It considers the potential pollution sources, receptors and pathways by which receptors can be impacted.

### 12.1 Potential Sources

Potentially contaminative land uses (PCLUs) of concern were identified based on their proximity to the site and whether they had the potential to generate significant quantities of ground gases, vapours and/or mobile volatile contamination (i.e. high pollution migration potential).

Any PCLUs within a 50m radius of the site as well as any PCLUs with high pollution migration potential within 250m of the site were considered to be of concern and were included within the assessment.

In addition, the potential for Made Ground to be present was considered to be a possibility.

A summary is provided in Table 8 below.

Table 8: Summary of potential contamination sources, period of operation and distance from site.

| Site Name/<br>Description                               | Industrial Profile                                                   | Approx.<br>Year Use<br>Established | Approx.<br>Year Use<br>Ended | Direction | Approx.<br>Distance<br>from Site<br>(m) |
|---------------------------------------------------------|----------------------------------------------------------------------|------------------------------------|------------------------------|-----------|-----------------------------------------|
| <b>Pennine<br/>Lower Coal<br/>Measures</b>              | -                                                                    | -                                  | Current<br>(2023)            | Onsite    | 0                                       |
| <b>Small<br/>Domestic<br/>Garage</b>                    | Road Vehicles:<br>Garages and Filling<br>Stations                    | Unknown                            | Current<br>(2023)            | Onsite    | 0                                       |
| <b>Unknown<br/>Ground<br/>Workings/<br/>Refuse Heap</b> | Waste: Landfills and<br>Other Waste<br>Treatment & Disposal<br>Sites | c.1908-09                          | Current<br>(2023)            | Onsite    | 0                                       |
| <b>Allotment<br/>Gardens</b>                            | -                                                                    | c.1955-56                          | c.1973-75                    | W         | 25                                      |
| <b>Infilled Marl<br/>Pit</b>                            | Unknown Filled<br>Ground                                             | c.1890                             | Current<br>(2023)            | SE        | 85                                      |
| <b>Infilled<br/>Reservoirs</b>                          | Unknown Filled<br>Ground                                             | c.1937                             | Current<br>(2023)            | SW        | 90                                      |
|                                                         |                                                                      | c.1955-56                          |                              | S         | 130                                     |
|                                                         |                                                                      | c.1910                             |                              | SE        | 135                                     |
|                                                         |                                                                      | c.1955-56                          |                              | SW        | 240                                     |
| <b>Refuse Tip</b>                                       | Waste: Landfills and<br>Other Waste<br>Treatment & Disposal<br>Sites | c.1965-68                          | c.1981-85                    | SW        | 115                                     |
| <b>Mutual<br/>Street<br/>Historical<br/>Landfill</b>    | Waste: Landfills and<br>Other Waste<br>Treatment & Disposal<br>Sites | c.1882                             | c.1986                       | E         | 217                                     |

Typical contaminants that may be associated with the above PCLUs are:

- Acids & Alkalis
- Asbestos
- Chlorinated & Non-Chlorinated Solvents
- Fuels & Fuel Oils
- Heavy Metals
- Landfill Gases: Methane & Carbon Dioxide
- Organic & Inorganic Compounds
- Pesticides
- Polycyclic Aromatic Hydrocarbons (PAHs)
- Total Petroleum Hydrocarbons (TPHs)
- Volatile Organic Compounds (VOCs)

Please note, this list is not exhaustive of all contaminants that may be present on or off site.

## 12.2 Potential Receptors

The potential receptors include human, water, ecological and infrastructure receptors.

### 12.2.1 Potential Human Health receptors

Potential human health receptors include construction workers, future occupants or users of the site and the proposed development and neighbours of the site.

### 12.2.2 Potential Groundwater Receptors

Potential groundwater receptors include the Secondary A Superficial and Bedrock Aquifers.

### 12.2.3 Potential Surface Water Receptors

Potential surface water receptors include Millers Brook located 20m NW.

### 12.2.4 Potential Ecological Receptors

There are no potential ecological receptors in the vicinity of the site.

### 12.2.5 Potential Property Receptors

Potential property receptors include the proposed development as well as neighbouring properties and associated services.

## 12.3 Potential Pathways

### 12.3.1 Potential Pathways for Human Receptors

The main pathways via which on and off-site human receptors are likely to come into contact with, or be affected by any contamination present on the site can be summarised as follows:

- Dermal contact with contaminated soil (i.e. absorption through the skin) – through garden activities such as children playing, gardening etc.
- Ingestion of contaminated soil (either directly or via soil adhering to vegetables grown on the site)
- Inhalation of contaminated soil, fugitive dust and vapours.
- Explosion of landfill gases leading to death/injury

### 12.3.2 Potential Pathways for Groundwater Receptors

The principal means by which contaminants can reach the groundwater is by leaching (i.e. downward movement through the soil pores with percolating and infiltrating water).

### 12.3.3 Potential Pathways for Surface Water Receptors

Routes by which contaminants from the site could reach surface water include via overland run-off, drainage and groundwater entering nearby rivers as base flow.

### 12.3.4 Potential Pathways for Ecological Receptors

The exposure pathways for terrestrial ecological receptors will be similar to those for humans. Pathways for aquatic receptors are via uptake of contaminated sediments and water.

### 12.3.5 Potential Pathways for Property Receptors

Pathways by which property receptors are exposed to potential contaminants include ground gas and vapour migration through the unsaturated zone and absorption of water containing dissolved contaminants (i.e. as in the case of sulphate attack).

## 12.4 Potential Pollutant Linkages

The Potential Pollutant Linkages (PPLs) were identified as part of the CSM. These were concerned with the following:

- Risk of direct contact (ingestion and absorption) with and inhalation of contaminants to on-site human health receptors including future occupiers and site visitors (PPL1a)
- Risk of injury/death to future occupiers and visitors as a result of explosion due to accumulation of ground gas from on and off-site sources in confined spaces within on-site dwellings/buildings. (PPL1b)
- Risk of direct contact (ingestion and absorption) with and inhalation of contaminants to on-site human health receptors such as Construction Workers (PPL1c)
- Risk of injury/death to construction workers as a result of explosion due to accumulation of ground gas from on and off-site sources in confined spaces within on-site dwellings/buildings. (PPL1d)
- Risk of direct contact with (ingestion and absorption) and inhalation of contaminants to off-site human health receptors as a result of on-site contaminants migrating off-site (PPL2a)
- Risk of injury/death to off-site human health receptors as a result of explosion due to migration of on-site ground gas and subsequent accumulation in confined spaces in off-site buildings. (PPL2b)
- Risk of deterioration of groundwater quality resulting from the migration of on-site contaminants into the underlying aquifer (PPL3)
- Risk of deterioration of surface water quality resulting from the migration and entry of on-site contaminants into the surface water receptor (PPL4)
- Risk of deterioration of ecological quality resulting from the migration and entry of on-site contaminants to the ecological receptor during development and after completion (PPL5);
- Risk of damage to buildings and services from on and off-site contaminants (PPL6a)
- Risk of damage to property as a result of explosion due to accumulation of ground gas from on and off-site sources in confined spaces within buildings (PPL6b).

## 13 QUALITATIVE RISK ASSESSMENT

For land to be considered ‘contaminated land’ under Part IIA, the potential contamination source must be causing or have the significant possibility of causing harm to designated receptors. It is therefore necessary to focus on pollutant linkages that have the potential to be significant (i.e. those that are most likely to lead to a determination).

The identified PPLs were therefore individually qualitatively assessed using a basic risk assessment methodology which considers “Likelihood” and “Severity” to assess the magnitude of the potential risk. The methodology is summarised in [Appendix 5](#).

Table 9 below summarises the conceptual site risk model (CSM) including the identified PPLs and the results of the qualitative risk assessment.

Table 9: Conceptual Site Risk Model - Potential Sources, Pathways and Receptors identified on the site.

| Source/<br>Potential<br>Contaminants | Potential Contaminants Associated with Coal Measures and Site Use as a Small Domestic Garage, Unknown Ground Workings/Refuse Heap and Offsite Land Uses as Allotment Gardens, Infilled Marl Pit, Refuse Tip, Infilled Reservoirs and a Historical Landfill: i.e. Acids & Alkalis, Asbestos, Chlorinated & Non-Chlorinated Solvents, Fuels & Fuel Oils, Heavy Metals, Landfill Gases: Methane & Carbon Dioxide, Organic & Inorganic Compounds, Pesticides, PAHs, TPHs, VOCs |                                                                |                                                                                                                |                                                                |                                                                                                                |                                                |                                                                    |                                                                                                                          |                                                                                                                        |                                                                                                                                                                        |                                                                |
|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|
|                                      | On and Off-Site Contaminants                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                |                                                                                                                |                                                                | On Site Contaminants                                                                                           |                                                | On Site Contaminants                                               |                                                                                                                          |                                                                                                                        | On and Off-Site Contaminants                                                                                                                                           |                                                                |
| Potential Pathways                   | <ul style="list-style-type: none"> <li>• Ingestion of soils, garden vegetables and dust</li> <li>• Ingestion of contaminated drinking water</li> <li>• Dermal absorption</li> <li>• Inhalation of dusts and vapours indoors and outdoors</li> <li>• Migration of ground gases and vapours into properties</li> </ul>                                                                                                                                                       |                                                                |                                                                                                                |                                                                |                                                                                                                |                                                | Leaching in the unsaturated zone & diffusion in the saturated zone | <ul style="list-style-type: none"> <li>• Overland run-off</li> <li>• Drainage channels</li> <li>• Base flow</li> </ul>   | <ul style="list-style-type: none"> <li>• Direct contact via absorption and ingestion;</li> <li>• Inhalation</li> </ul> | <ul style="list-style-type: none"> <li>• Migration of ground gases and vapours through the unsaturated zone</li> <li>• Attack on water supply service pipes</li> </ul> |                                                                |
| Potential Receptors                  | ON SITE HUMANS (AFTER COMPLETION)<br>Future Occupiers & Visitors                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                | ON SITE HUMANS (DURING DEVELOPMENT)<br>Construction Workers                                                    |                                                                | OFF SITE HUMANS<br>Neighbours                                                                                  |                                                | GROUND WATER<br>Secondary A Aquifers                               | SURFACE WATER<br>Millers Brook 20m NW                                                                                    | ECOLOGICAL<br>None                                                                                                     | ON SITE PROPERTY<br>Buildings and Services                                                                                                                             |                                                                |
| Potential Hazards                    | <ul style="list-style-type: none"> <li>• Adverse health effects</li> <li>• Injury/</li> <li>• Death</li> </ul>                                                                                                                                                                                                                                                                                                                                                             | Explosion/ Fire - Build-up of Methane/ VOCs in confined spaces | <ul style="list-style-type: none"> <li>• Adverse health effects</li> <li>• Injury/</li> <li>• Death</li> </ul> | Explosion/ Fire - Build-up of Methane/ VOCs in confined spaces | <ul style="list-style-type: none"> <li>• Adverse health effects</li> <li>• Injury/</li> <li>• Death</li> </ul> | Explosion/ Methane build-up in confined spaces | Deterioration of groundwater quality                               | <ul style="list-style-type: none"> <li>• Deterioration of surface water quality</li> <li>• Ecological impacts</li> </ul> | Deterioration of ecological receptor quality                                                                           | Damage to property and services                                                                                                                                        | Explosion/ Fire - Build-up of Methane/ VOCs in confined spaces |
| Plausible?                           | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Yes                                                            | Yes                                                                                                            | Yes                                                            | Yes                                                                                                            | No                                             | Yes                                                                | Yes                                                                                                                      | No                                                                                                                     | Yes                                                                                                                                                                    | Yes                                                            |
| PPL ID                               | PPL1a                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | PPL1b                                                          | PPL1c                                                                                                          | PPL1d                                                          | PPL2a                                                                                                          | PPL2b                                          | PPL3                                                               | PPL4                                                                                                                     | PPL5                                                                                                                   | PPL6a                                                                                                                                                                  | PPL6b                                                          |
| SEVERITY                             | Major (4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Major (4)                                                      | Major (4)                                                                                                      | Major (4)                                                      | Major (4)                                                                                                      | Major (4)                                      | Moderate (3)                                                       | Moderate (3)                                                                                                             | Moderate (3)                                                                                                           | Moderate (3)                                                                                                                                                           | Moderate (3)                                                   |
| LIKELIHOOD                           | Possible (3)                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Possible (3)                                                   | Improbable (1)                                                                                                 | Improbable (1)                                                 | Improbable (1)                                                                                                 | Improbable (1)                                 | Improbable (1)                                                     | Improbable (1)                                                                                                           | Improbable (1)                                                                                                         | Possible (3)                                                                                                                                                           | Possible (3)                                                   |
| UPDATED RISK                         | Moderate (12)                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Moderate (12)                                                  | Low (4)                                                                                                        | Low (4)                                                        | Low (4)                                                                                                        | Low (4)                                        | Very Low (3)                                                       | Very Low (3)                                                                                                             | Very Low (3)                                                                                                           | Low to Moderate (9)                                                                                                                                                    | Low to Moderate (9)                                            |
| POTENTIALLY SIGNIFICANT?             | YES                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | YES                                                            | NO                                                                                                             | NO                                                             | NO                                                                                                             | NO                                             | NO                                                                 | NO                                                                                                                       | NO                                                                                                                     | YES                                                                                                                                                                    | YES                                                            |

### 13.1 Assessment of Potential Significance of Potential Pollutant Linkages

#### 13.1.1 Potential Risks to On-Site Human Health Receptors

PPL1a is concerned with the risk of direct contact (ingestion and dermal absorption) with and inhalation of on and off-site contaminants by on site human health receptors. PPL1a is considered to have the potential to be significant as potentially contaminative land uses, listed above in Table 8, were identified on and within 240m of the site.

As the proposal is to introduce residential dwellings with associated soft landscaping, it is possible that human health receptors (i.e. future occupiers of the dwellings) could be exposed to any potential contamination via direct contact and ground gases and vapours via indoor inhalation during groundworks and after completion.

PPL1c is concerned with the risk of direct contact (ingestion and dermal absorption) with and inhalation of on and off-site contaminants by construction workers. PPL1c is considered unlikely to have the potential to be significant. Although potentially contaminative land uses were identified on and within 240m of the site, it is considered that any potential risks can be satisfactorily reduced so long as Construction Workers implement standard health and safety measures as described in [Sections 15.3](#).

PPL1b is concerned with the risk of injury/death of future occupiers and site visitors as a result of explosion due to the potential accumulation of ground gases and vapours from on and off-site sources. PPL1b is considered to have the potential to be significant as potential sources of explosive ground gases and/or vapours (i.e. Coal Measures, Unknown Ground Workings/Refuse Heap, Infilled Marl Pit, Refuse Tip, Infilled Reservoirs, Historical Landfill) were identified on within 240m of the site.

PPL1d is concerned with the risk of injury/death of construction workers as a result of explosion due to the potential accumulation of ground gases and vapours from on and off-site sources. PPL1d is considered unlikely to have the potential to be significant for the same reasons as PPL1c.

#### 13.1.2 Potential Risks to Off-Site Human Health Receptors

PPL2a is concerned with the risk of direct contact and inhalation of contaminants emanating from the site by off-site human health receptors. PPL2a is considered unlikely to have the potential to be significant. Although a potentially contaminative land use (i.e. Small Domestic Garage) was identified on the site, it is considered unlikely that any potential contaminants present at the site would be of sufficient magnitude and mobility as to significantly impact off-site human receptors.

PPL2b is concerned with the risk of injury/death of off-site human health receptors as a result of explosion due to accumulation of ground gases from on-site sources. PPL2b is considered unlikely to have the potential to be significant. Whilst a potential source of explosive ground gases and/or vapours (i.e. Coal Measures) was identified on the site, these are also present in the surrounding area, therefore the risk to off-site human health receptors is considered to be low.

#### 13.1.3 Potential Risks to Groundwater Receptors

PPL3 is concerned with the risk of deterioration of groundwater quality resulting from the migration of on-site contaminants into the underlying aquifer. PPL3 is considered unlikely to have the potential to be significant. Although the site is underlain by Secondary A Aquifers, it is considered unlikely that any potential contaminants present at the site would be of

sufficient magnitude and mobility as to significantly impact groundwater receptors. Additionally, no Source Protection Zones were identified.

#### 13.1.4 Potential Risks to Surface Water Receptors

PPL4 is concerned with the risk of deterioration of surface water quality resulting from the migration and entry of on-site contaminants into surface water receptors. PPL4 is considered unlikely to have the potential to be significant. The nearest surface water body is Millers Brook located 20m NW from the site. It is considered unlikely that any potential contaminants present at the site would be of sufficient magnitude and mobility as to significantly impact this surface water receptor.

#### 13.1.5 Potential Risks to Ecological Receptors

PPL5 is concerned with the risk of deterioration of ecological receptors resulting from potential on-site contaminants. PPL5 is considered unlikely to have the potential to be significant as no designated ecological receptors were identified on or within 250m of the site.

#### 13.1.6 Potential Risks to Property Receptors

PPL6a is concerned with the risk of damage to on site buildings and services from on and off-site contaminants. If contaminated, the soil may contain aggressive chemicals (i.e. Sulphates, VOCs) that can attack building materials and services. PPL6a is considered to have the potential to be significant for the same reasons as PPL1a.

PPL6b is concerned with the risk of damage to property as a result of explosion due to migration of on and off-site ground gases and vapours and their subsequent accumulation in confined spaces in on-site buildings. PPL6b is considered to have the potential to be significant for the same reasons as PPL1b.

## 14 CONCLUSIONS

This Phase 1 Desk Study was carried out to support a planning application for the erection of 3no. residential dwellings.

A review of historical maps and planning records suggests that the site and surrounding land have been subject to previous potentially contaminative land uses (PCLUs). On site PCLUs have included a Small Domestic Garage and Unknown Ground Workings/Refuse Heap while off site PCLUs include Allotment Gardens (25m W), Infilled Marl Pit (85m SE), 4no. Infilled Reservoirs (90m SW, 130m S, 135m SE & 240m SW), Refuse Tip (115m SW) and Mutual Street Historical Landfill (217m E). Potential Coal Mine Gas was also identified as a further potential source of contamination.

A conceptual site risk model was developed and a qualitative risk assessment undertaken. The conclusions of the risk assessment are presented in Table 10 below.

Table 10: Summary of qualitative risk assessment

| Potential Receptor                                 | Potential Pathway                                 | Potential Hazard                | PSPPL?     | Risk            |
|----------------------------------------------------|---------------------------------------------------|---------------------------------|------------|-----------------|
| <b>On-Site Human Health<br/>(Future Occupiers)</b> | Ingestion/Absorption<br>Inhalation                | Adverse health<br>Injury/Death  | <b>Yes</b> | <b>Moderate</b> |
|                                                    | Buildup of Methane/<br>VOCs in confined<br>spaces | Explosion/ Fire<br>Injury/Death | <b>Yes</b> | <b>Moderate</b> |

| Potential Receptor                                    | Potential Pathway                                 | Potential Hazard                      | PSPPL? | Risk               |
|-------------------------------------------------------|---------------------------------------------------|---------------------------------------|--------|--------------------|
| <b>On-Site Human Health</b><br>(Construction Workers) | Ingestion/Absorption<br>Inhalation                | Adverse health<br>Injury/Death        | No     | Low                |
|                                                       | Buildup of Methane/<br>VOCs in confined<br>spaces | Explosion/ Fire<br>Injury/Death       | No     | Low                |
| <b>Off-Site Human Health</b>                          | Ingestion/Absorption<br>Inhalation                | Adverse health<br>Injury/Death        | No     | Low                |
|                                                       | Buildup of Methane/<br>VOCs in confined<br>spaces | Explosion/ Fire<br>Injury/Death       | No     | Low                |
| <b>Groundwater</b>                                    | Percolation/Leaching                              | Adverse<br>groundwater quality        | No     | Very Low           |
| <b>Surface Water</b>                                  | Lateral Migration<br>Groundwater baseflow         | Adverse<br>Surface water<br>quality   | No     | Very Low           |
| <b>Ecology</b>                                        | Ingestion/Absorption                              | Adverse health<br>Injury/Death        | No     | Very Low           |
| <b>Property</b>                                       | Physical<br>Contact/Absorption                    | Damage to building<br>and services    | Yes    | Low to<br>Moderate |
|                                                       | Buildup of Methane/<br>VOCs in confined<br>spaces | Explosion/ Fire<br>Damage to building | Yes    | Low to<br>Moderate |

## 15 RECOMMENDATIONS

### 15.1 Intrusive Site Investigation

Given that potentially significant potential pollutant linkages (PSPPLs) were identified, it is recommended that an intrusive site investigation is undertaken with the objective of determining the presence and extent of any soil and gaseous contamination at the site.

### 15.2 Watching Brief and Discovery Strategy

Therefore, it is recommended that a “watching brief” is kept at all times during the development. Should any unexpected contamination be encountered then the discovery strategy outlined below should be followed.

- Works should be halted if any suspicious ground conditions are identified by groundworkers;
- The Contractor should assess the need for any immediate health and safety or environmental management control measures. If control measures are considered to be required, they should be implemented;
- The Contractor should notify the Client’s Environmental Consultant and the Local Planning Authority;
- The Environmental Consultant should attend the site to record the extent of ‘contamination’ and if necessary, to collect samples;
- If remedial action is considered necessary then the proposed works should be agreed with the Local Planning Authority prior to implementation;
- Once remediation is complete, the Environmental Consultant should collate evidence of work carried out for inclusion in a Remediation Verification Report which should be submitted to the Local Planning Authority.

### 15.3 Health and Safety

All site works should be carried out in accordance with Health and Safety Executive regulations and guidelines, the Contractor's Construction Health and Safety Plan and the Construction (Design and Management) Regulations 2015.

Precautions should be taken to minimise exposure of site workers during ground works through the implementation of site safety. Such precautions should include, but not be limited to:

-  Provision of appropriate Personal Protective Equipment (PPE);
-  Availability of site welfare;
-  Good personal hygiene, washing and changing procedures;
-  Daily safety briefings.

### 15.4 Services

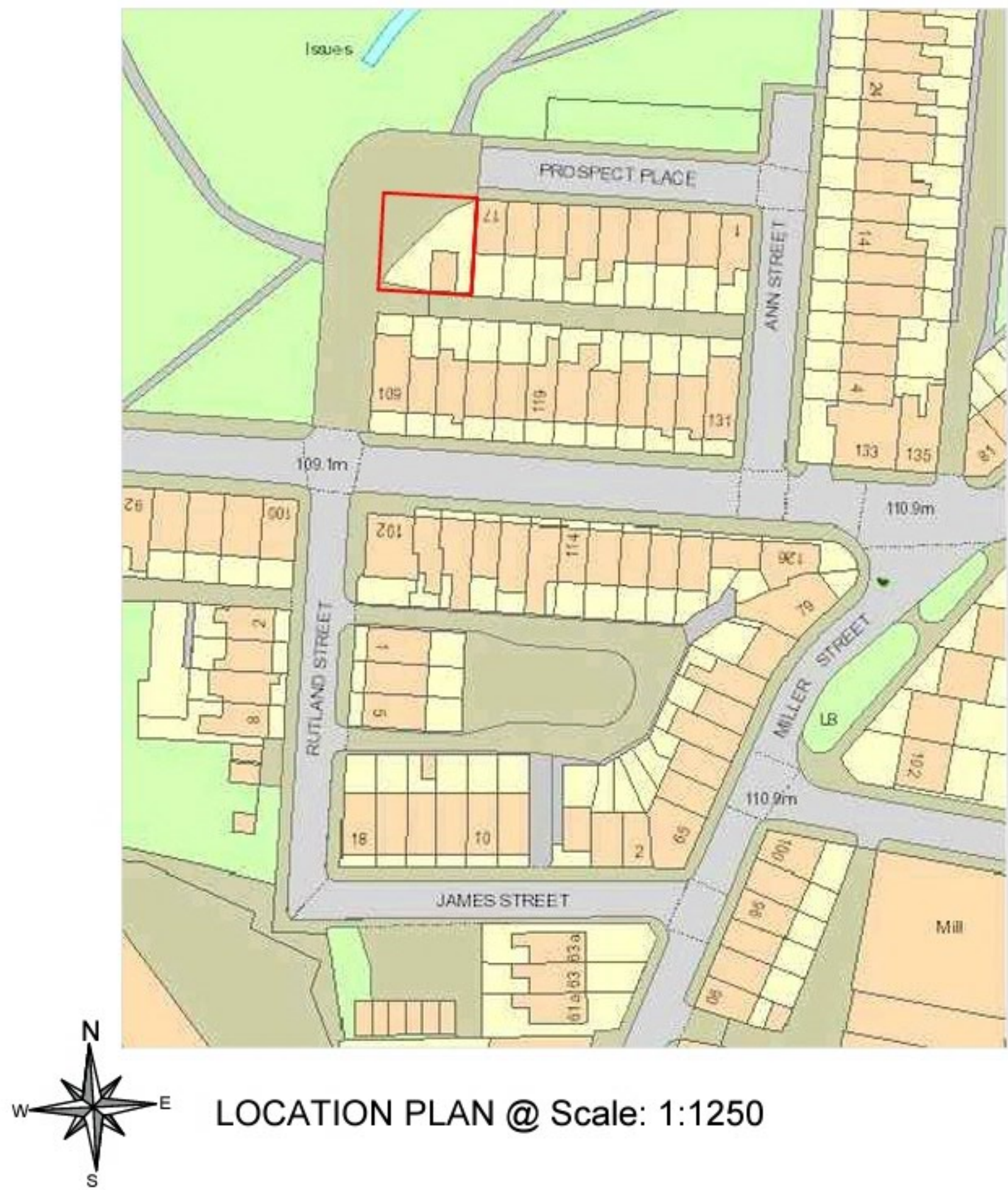
The local Statutory Water Undertaker should be contacted in the event that new services are proposed as part of the redevelopment in order to determine their specification for the type of pipework which should be used on this site.

Further information can be found within the published guidance for the '*Selection of Water Supply Pipes to be used in Brownfield Sites*', issued in January 2011 by the UK Water Industry Research.

## 16 INFORMATION GAPS AND UNCERTAINTIES

Assumptions have been made regarding the nature and scale of the activities that took place on the site and the types of potential contaminants that may have resulted. These assumptions will need to be reviewed along with the Conceptual Site Model should further information come to light.

## 17 APPENDIX 1 – PROPOSED DEVELOPMENT PLANS



|                                                                                                                         |                                                                                                                                  |
|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Planning Services</b><br>2A Cook Street,<br>Bury, Lancashire,<br>BL9 0RP,<br>email: ipsuk@live.co.uk<br>0161 8717405 | <b>Location and Block Plans</b><br>of Land next to 17 Prospect Place, Heywood OL10 4JQ<br>Scale : on A4 All Dimensions in Meters |
|                                                                                                                         | Ref: IPS/R/Land/OL104JQ Date : 03/12/2021                                                                                        |

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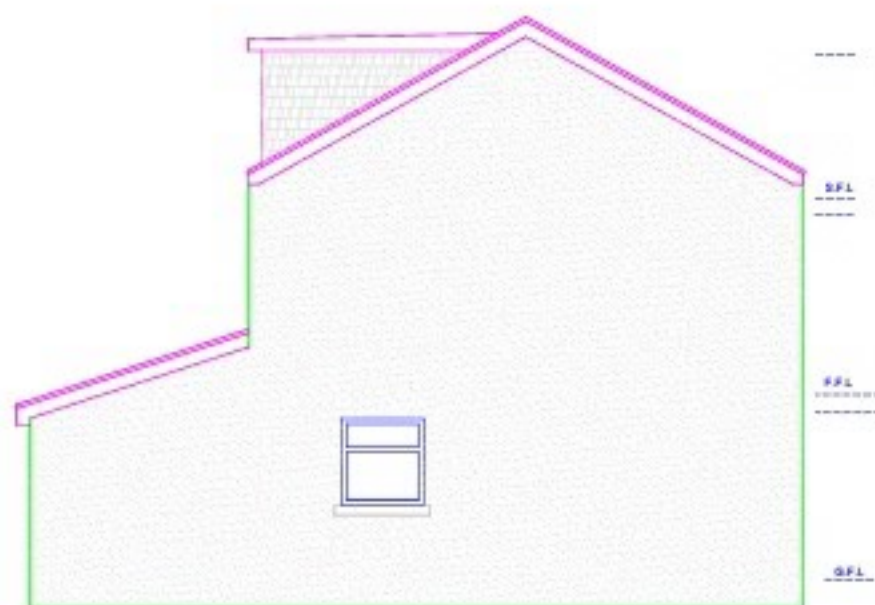
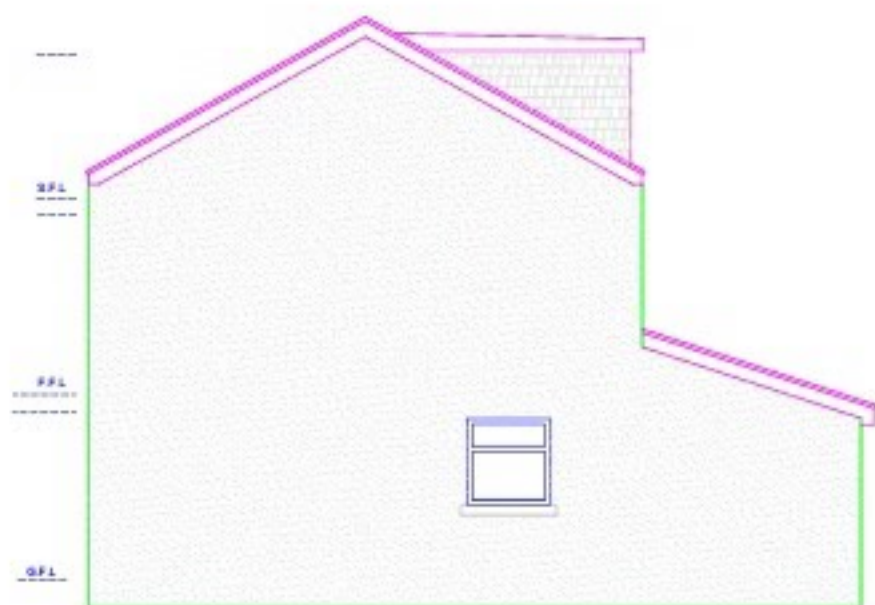
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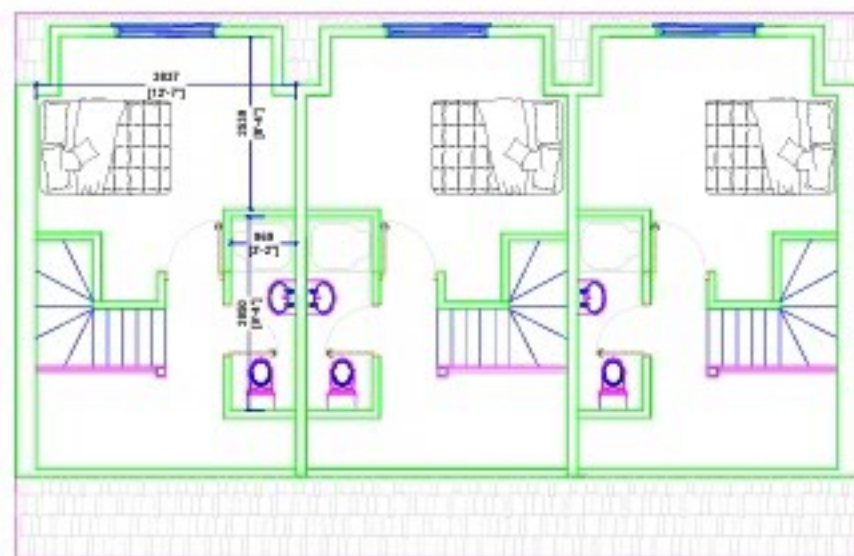


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BL9 0RP,  
email: [ipsuk@live.co.uk](mailto:ipsuk@live.co.uk) 0161 8717405

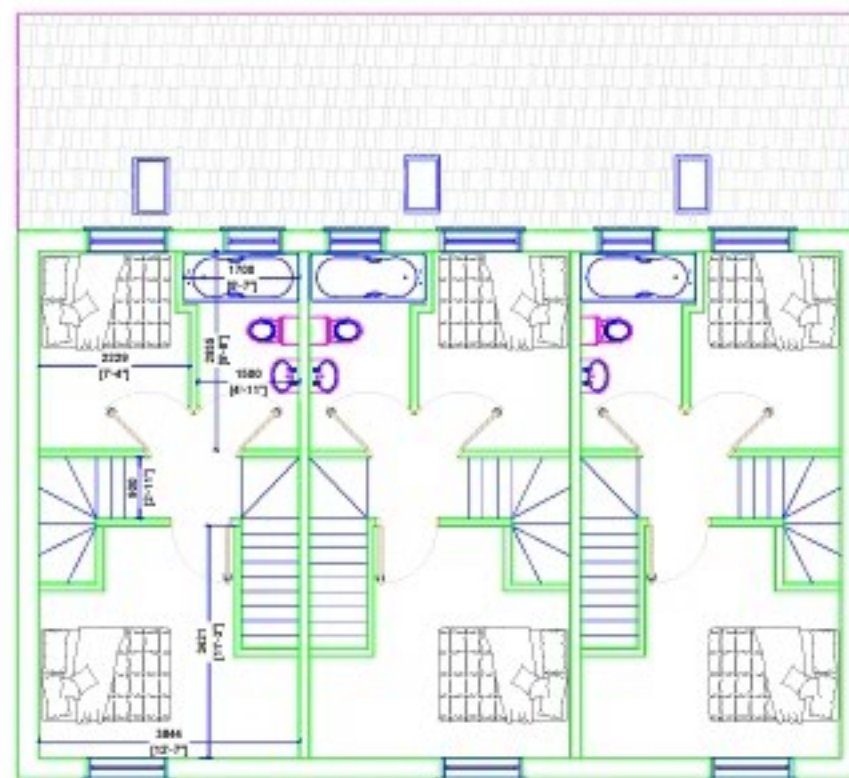
**Proposed Elevations**  
of 597 Burnage Lane, Manchester, M19 1WB

Scale : 1 : 100 on A3 All Dimensions in Meters  
Ref.: IPS/R/597/M191WB Date : 16/05/2022

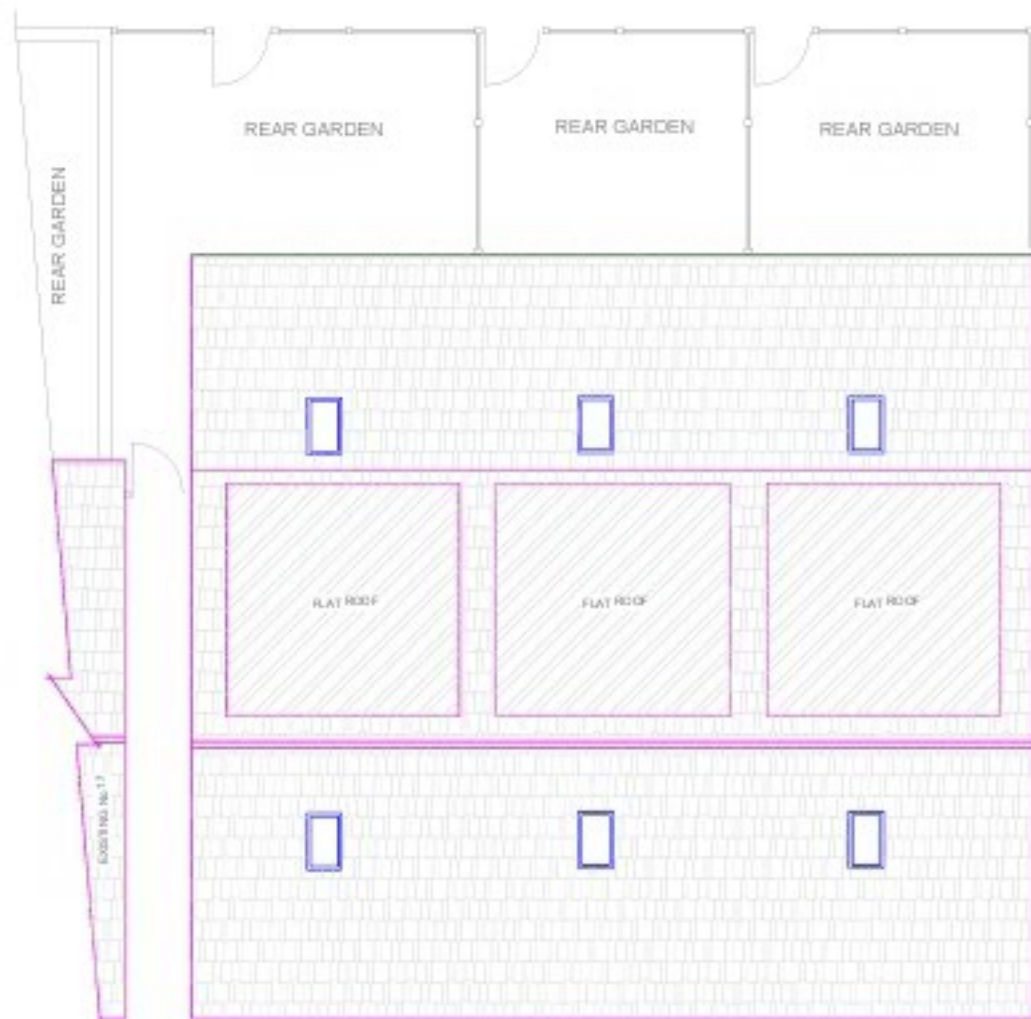
SHT 5 of 7 Proposal



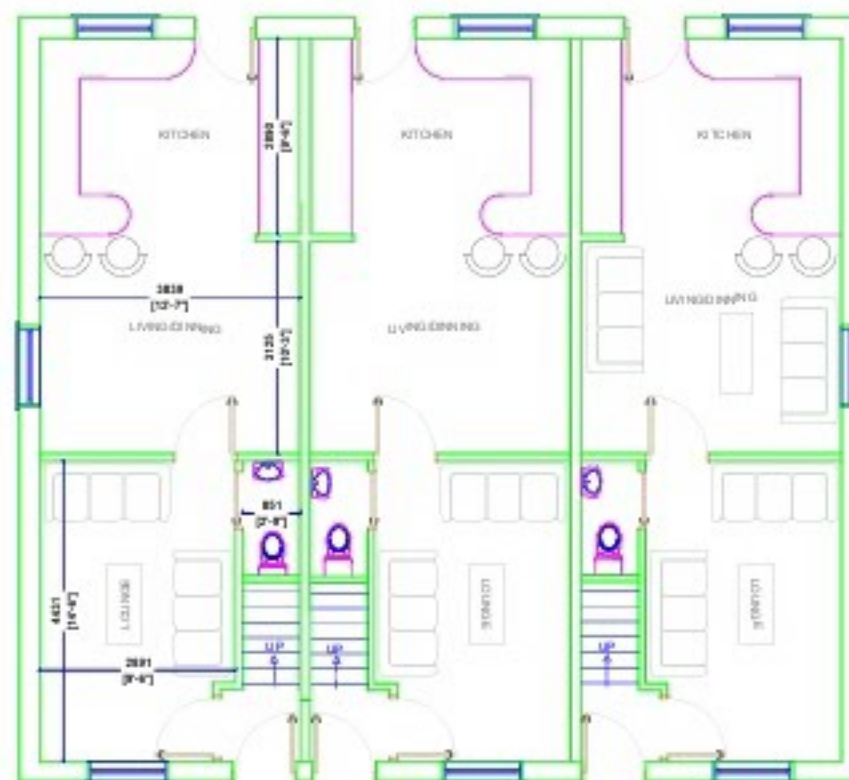
PROPOSED SECOND FLOOR PLAN



PROPOSED FIRST FLOOR PLAN



PROPOSED SITE PLAN



PROPOSED GROUND FLOOR PLAN

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**IPS Planning Services**

email: [ipsuk@live.co.uk](mailto:ipsuk@live.co.uk)

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Bury, Lancashire,  
BL9 0RP,  
0161 8717405

**Proposed Floor plans**

of Land next to 17 Prospect Place, Heywood OL10 4JQ

Scale : 1 : 100 on A3

All Dimensions in Meters

Ref: IPS/R/17/OL104JQ

Date : 16/05/2022

SHT 4 of 7

Proposal

0

5m

10m

## 18 APPENDIX 2 – HISTORICAL MAPS

#### Site Details:

LA 17 PROSPECT PLACE,  
HEYWOOD, OL10 4JQ

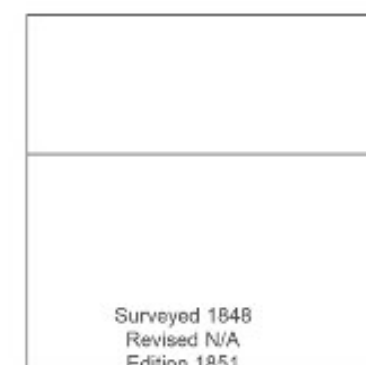
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**Report Ref:** GS-9365083  
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**Map Name:** 1056 Scale Town Plan

**Map date:** 1851

**Scale:** 1:1,056

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



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Edition 1851  
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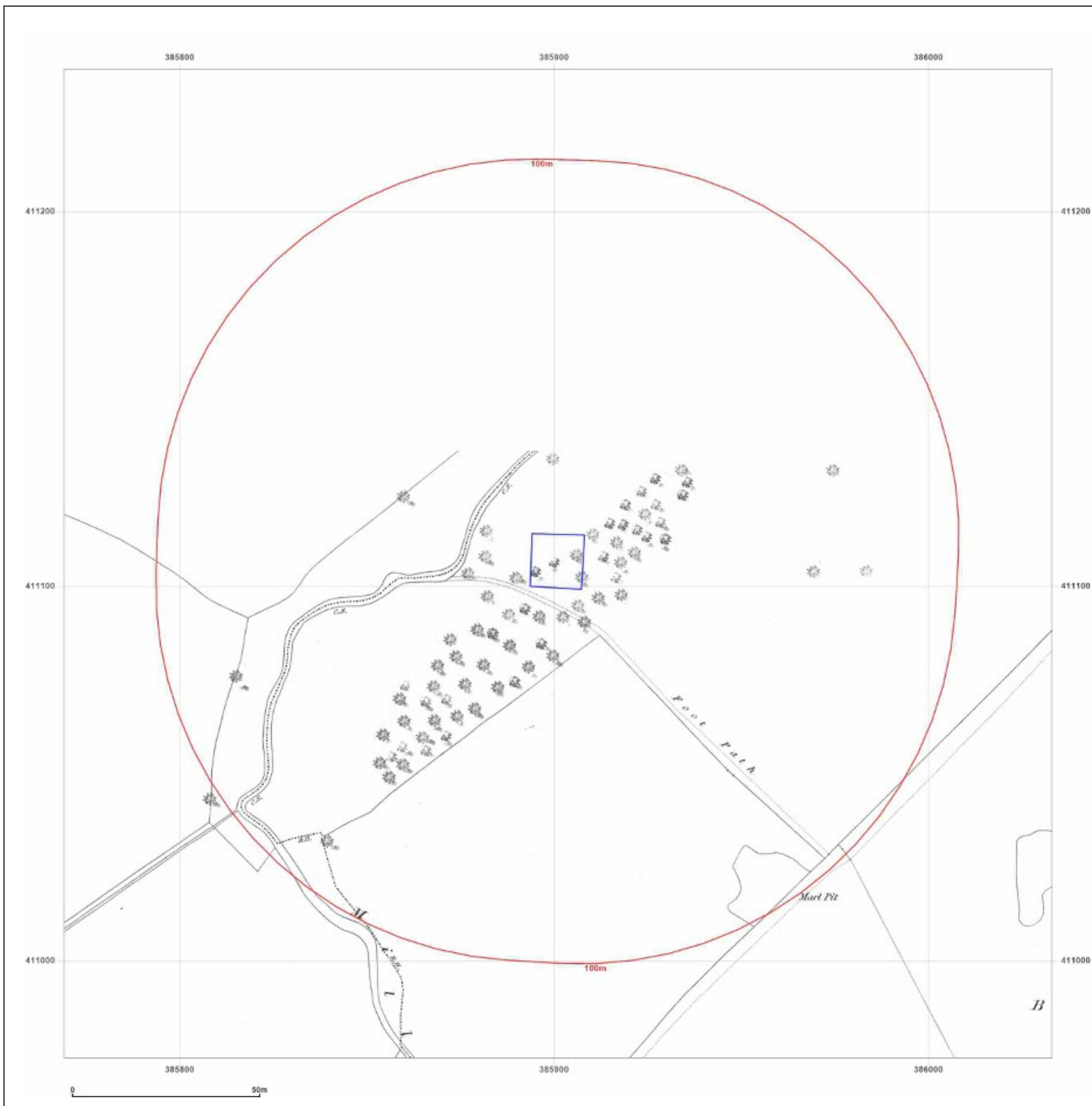


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Client Ref: PH1-2023-000007  
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Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1890

Scale: 1:2,500

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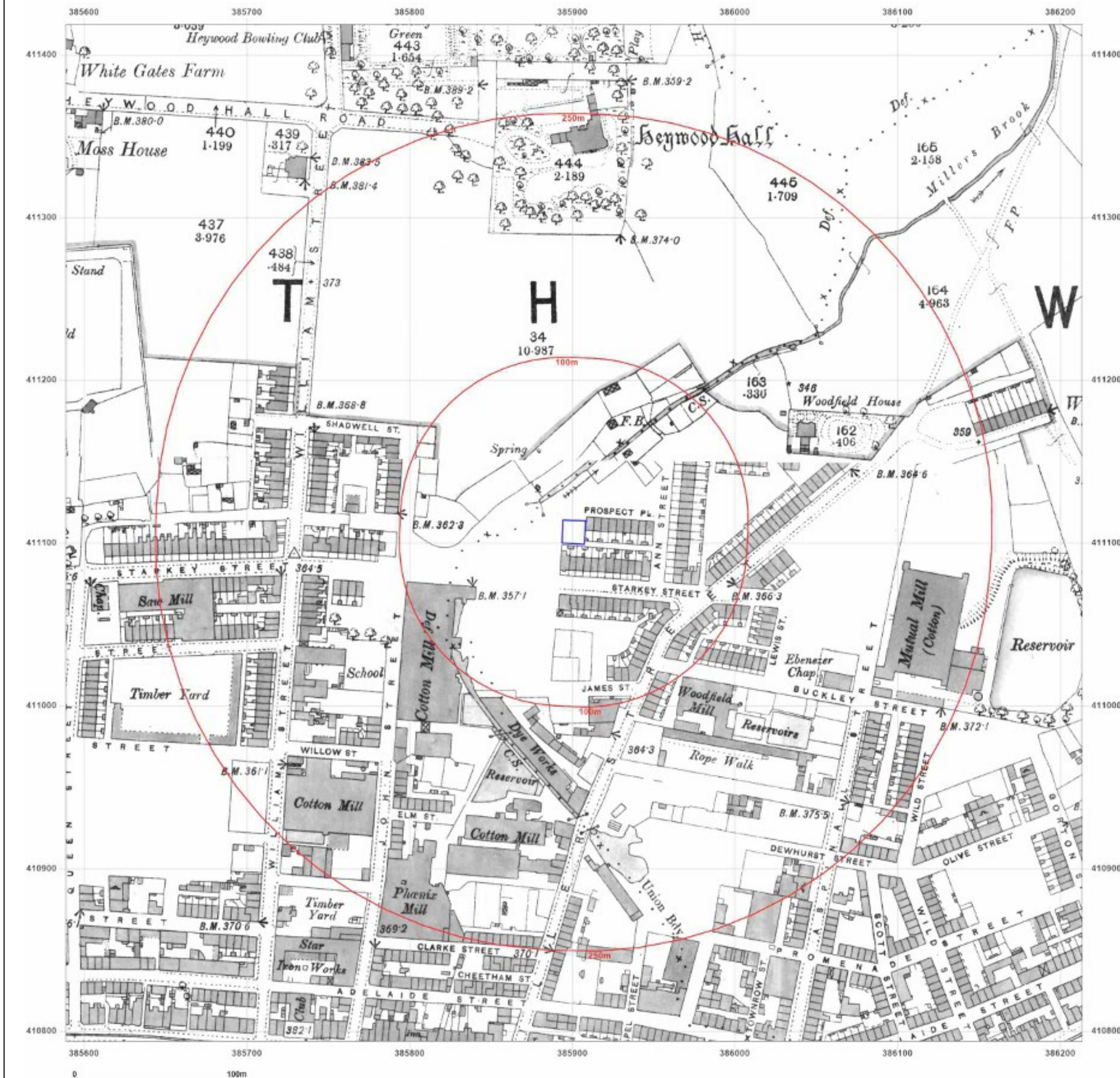


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Client Ref: PH1-2023-000007  
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Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1910

Scale: 1:2,500

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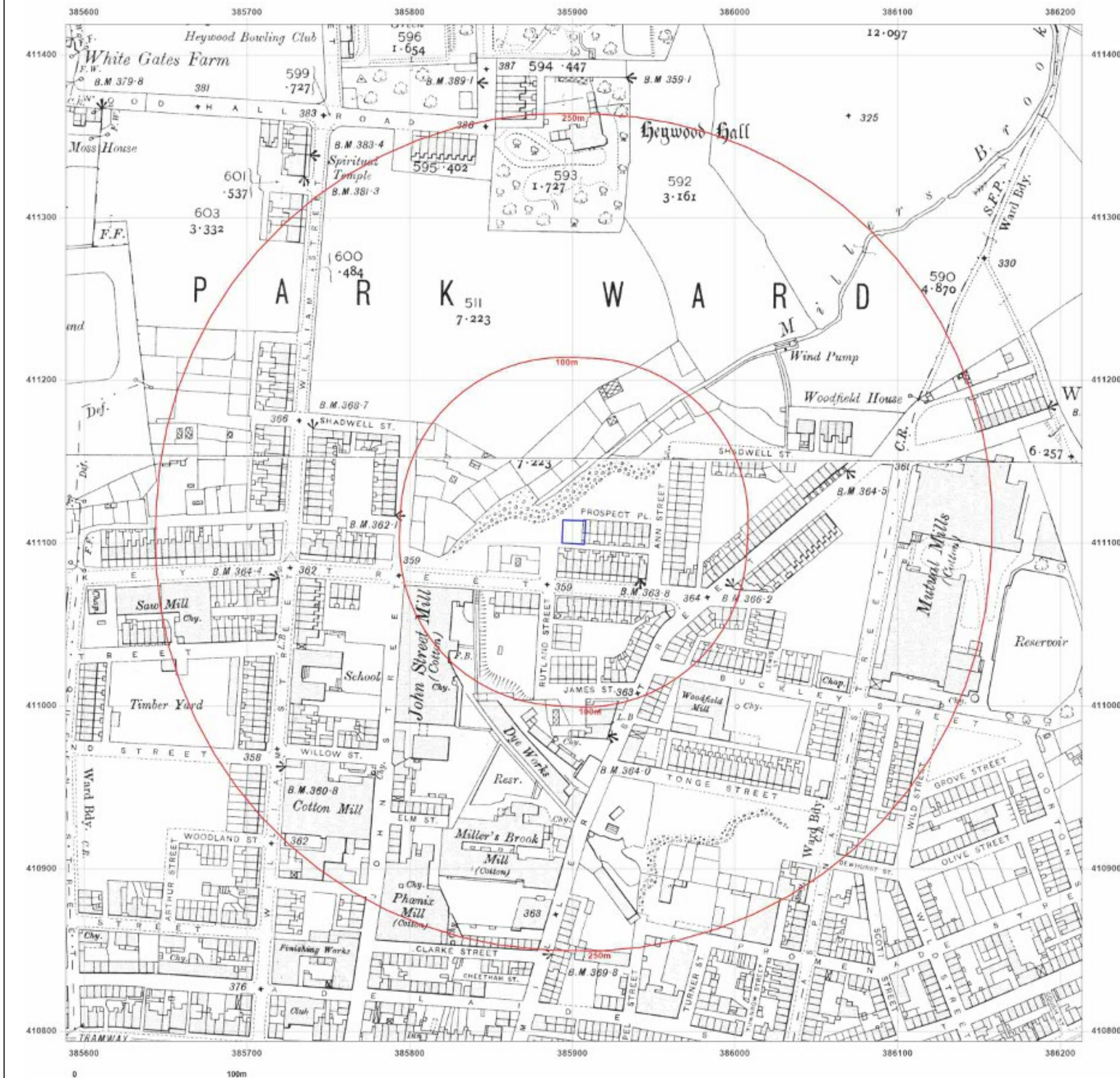


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Map date: 1929-1930

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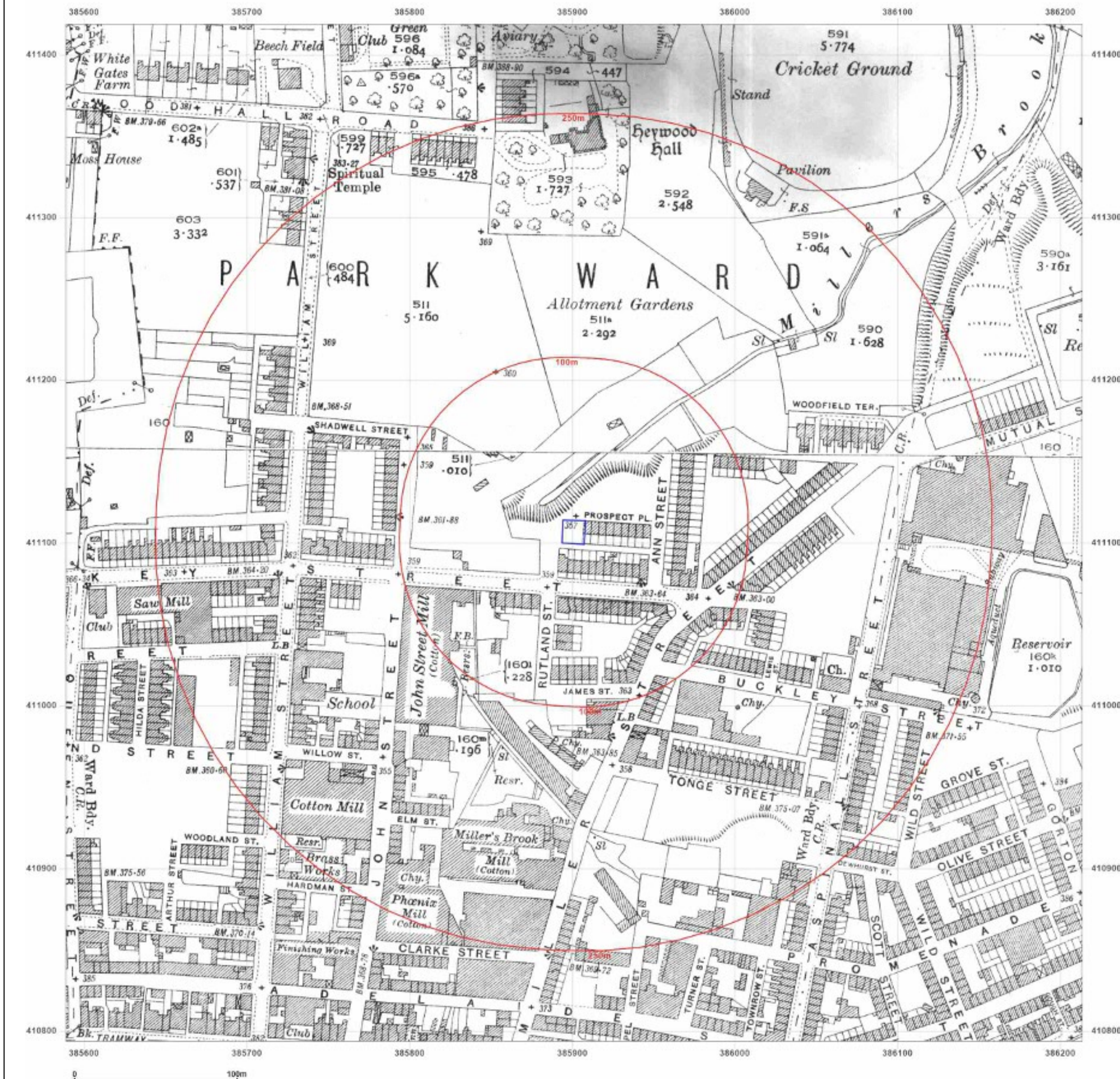


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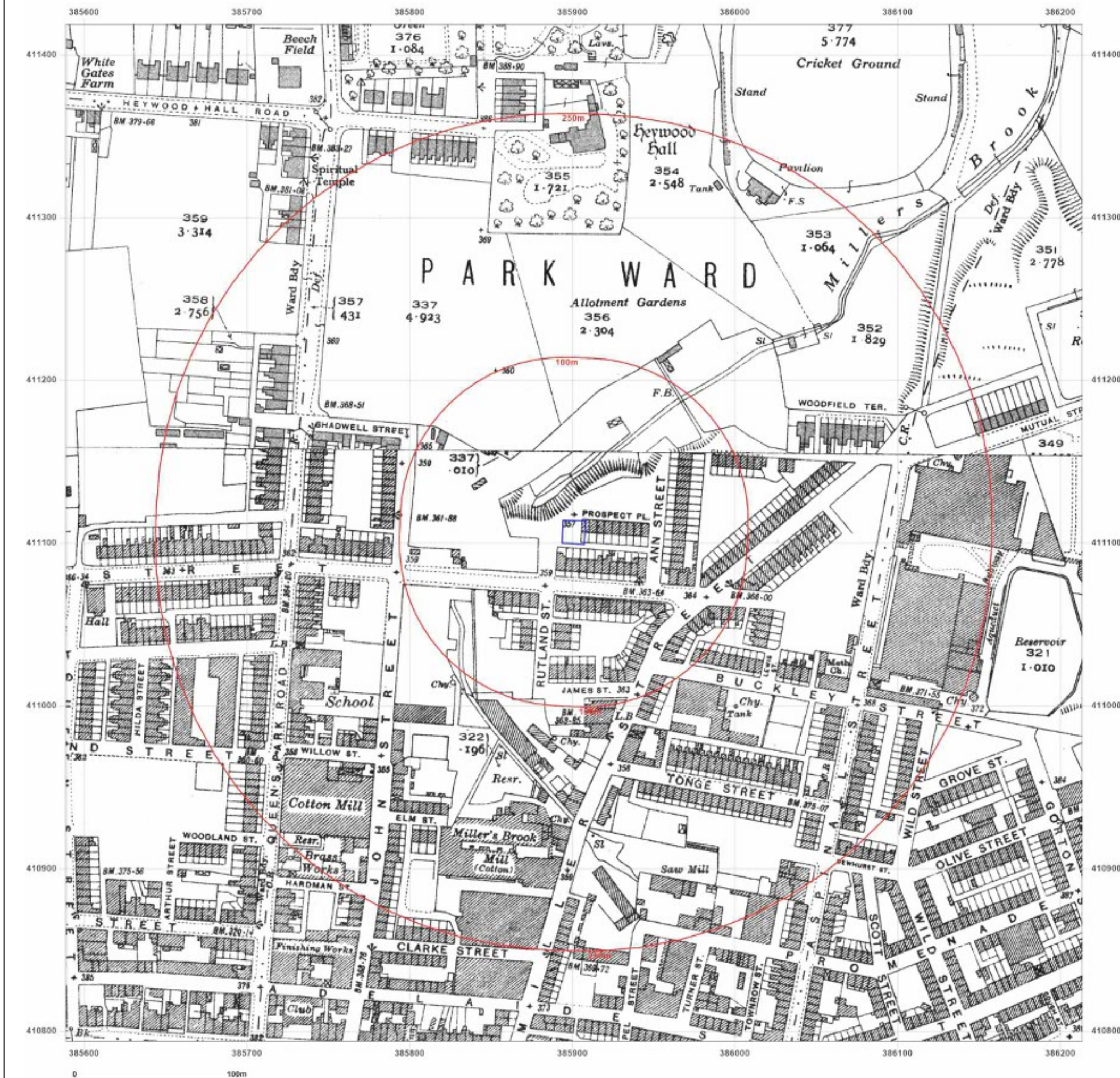


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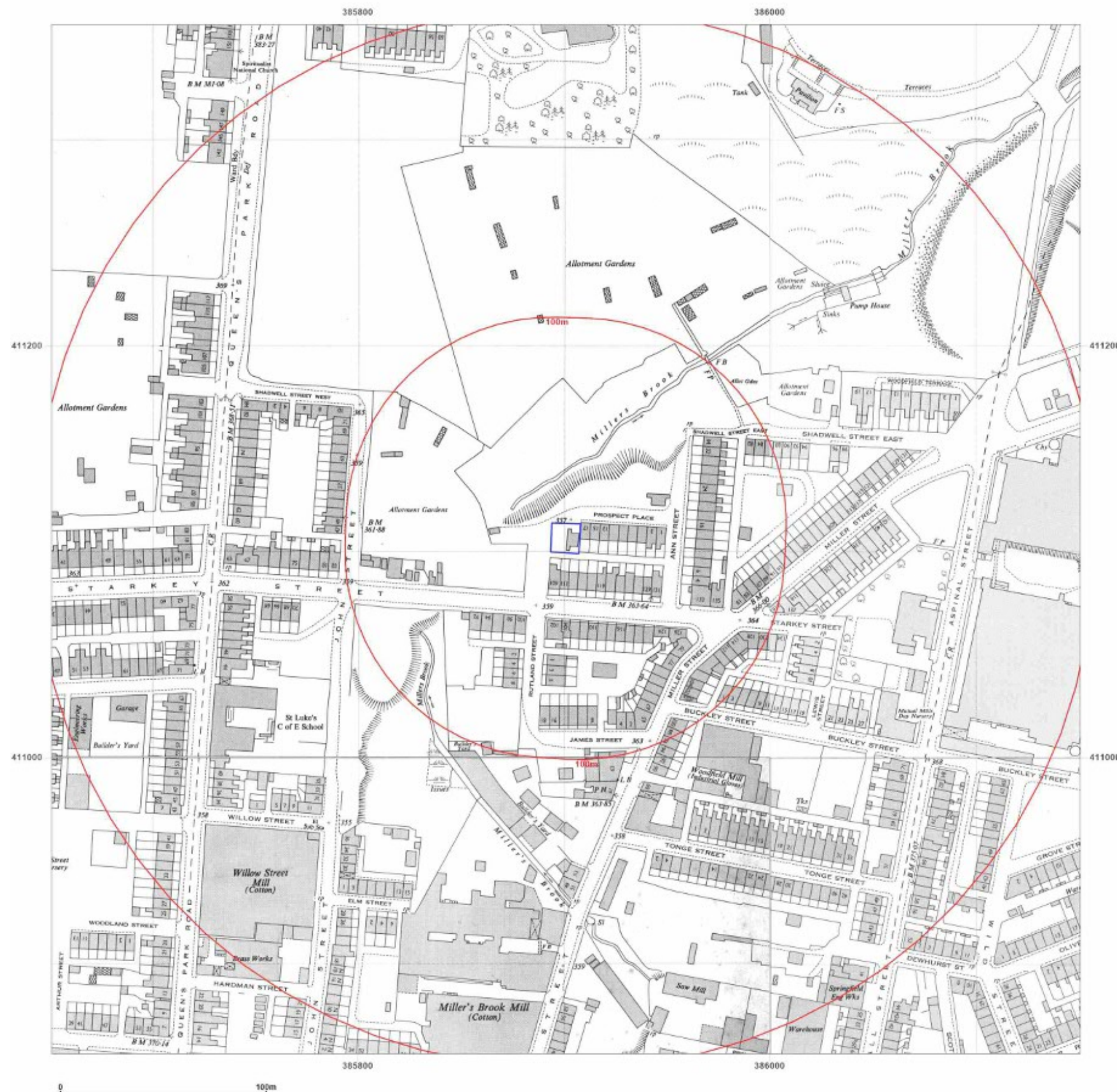


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**Map date:** 1957-1958

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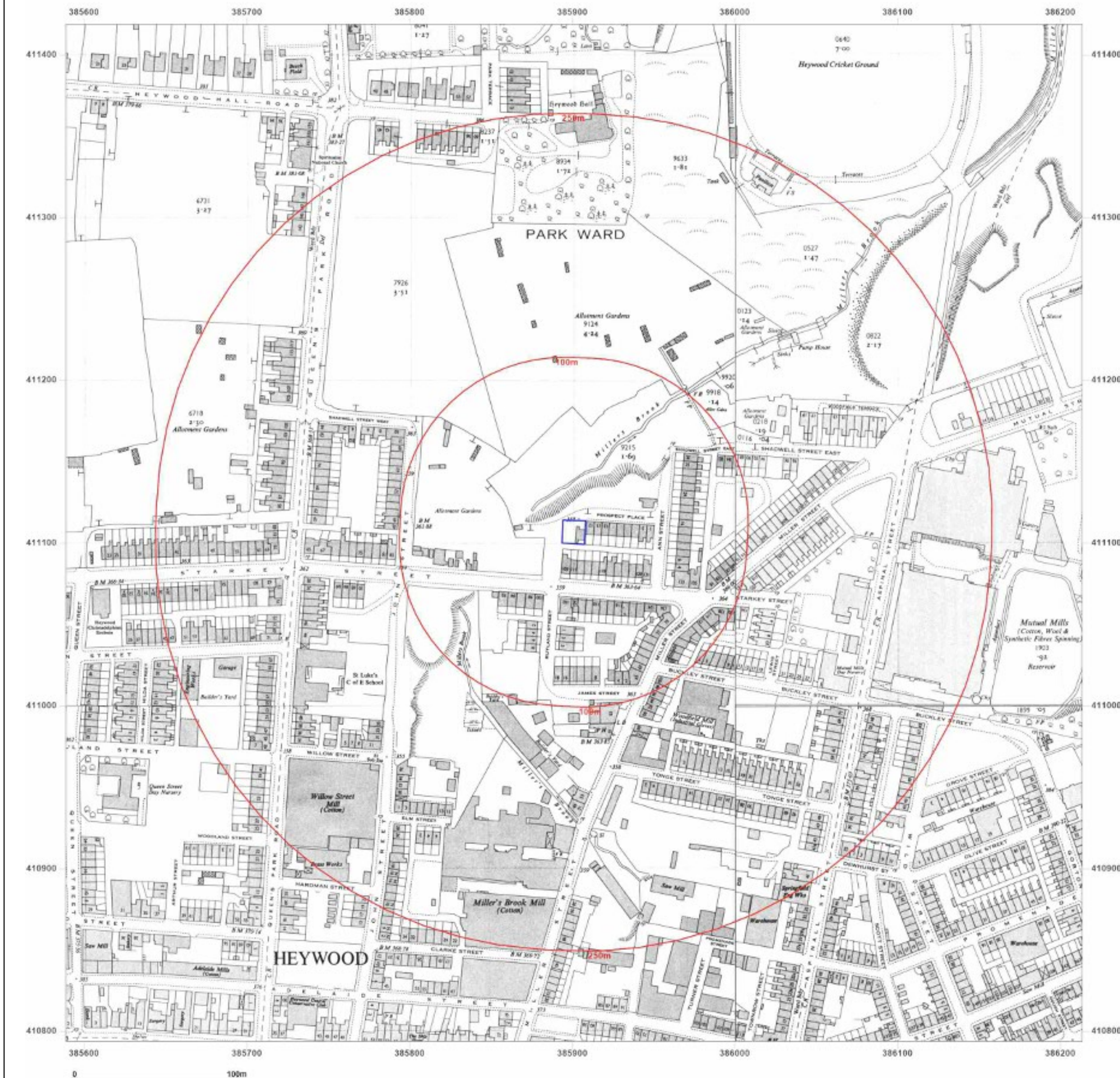


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**Map Name:** National Grid

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**Scale:** 1:1,250

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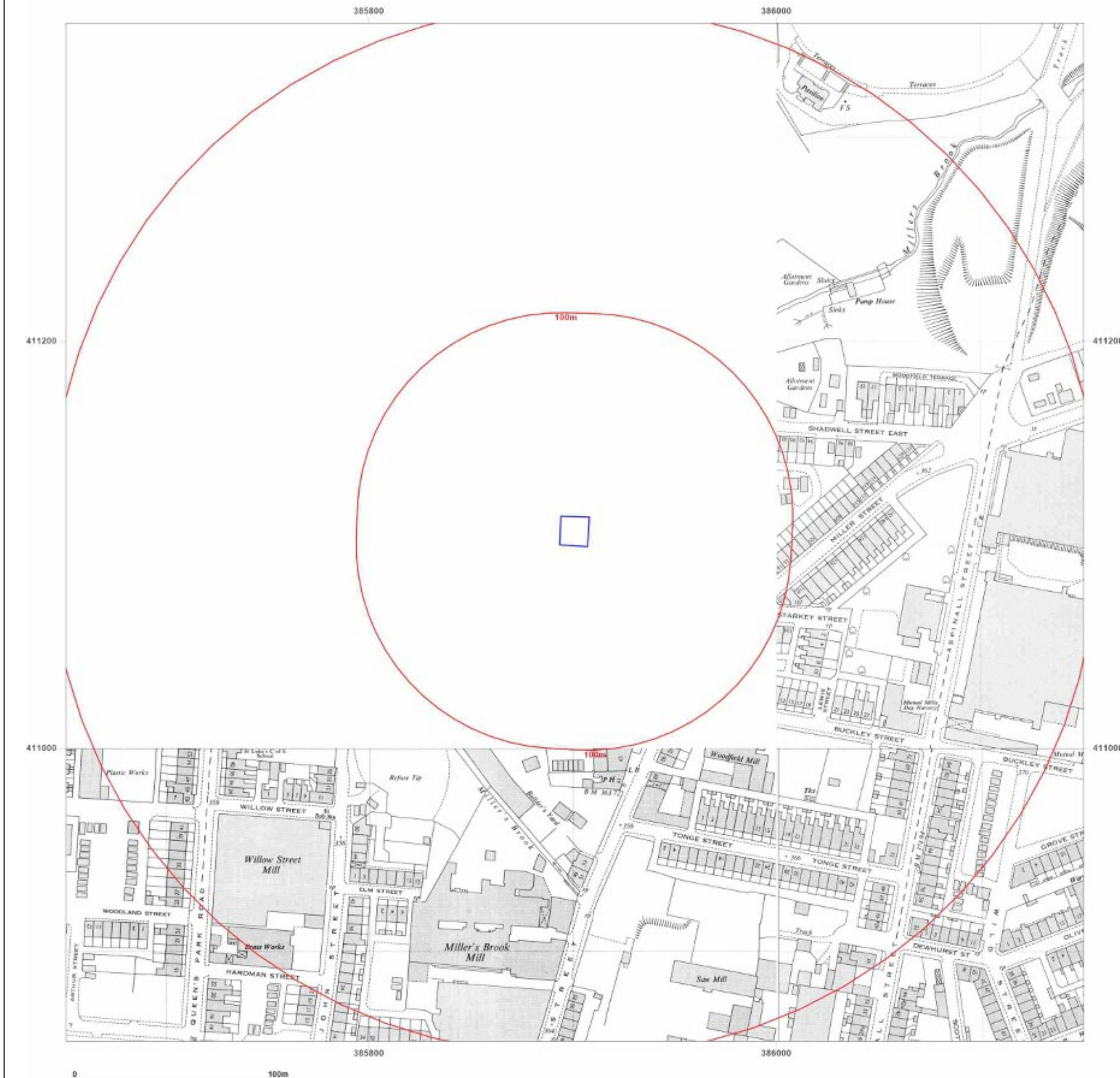


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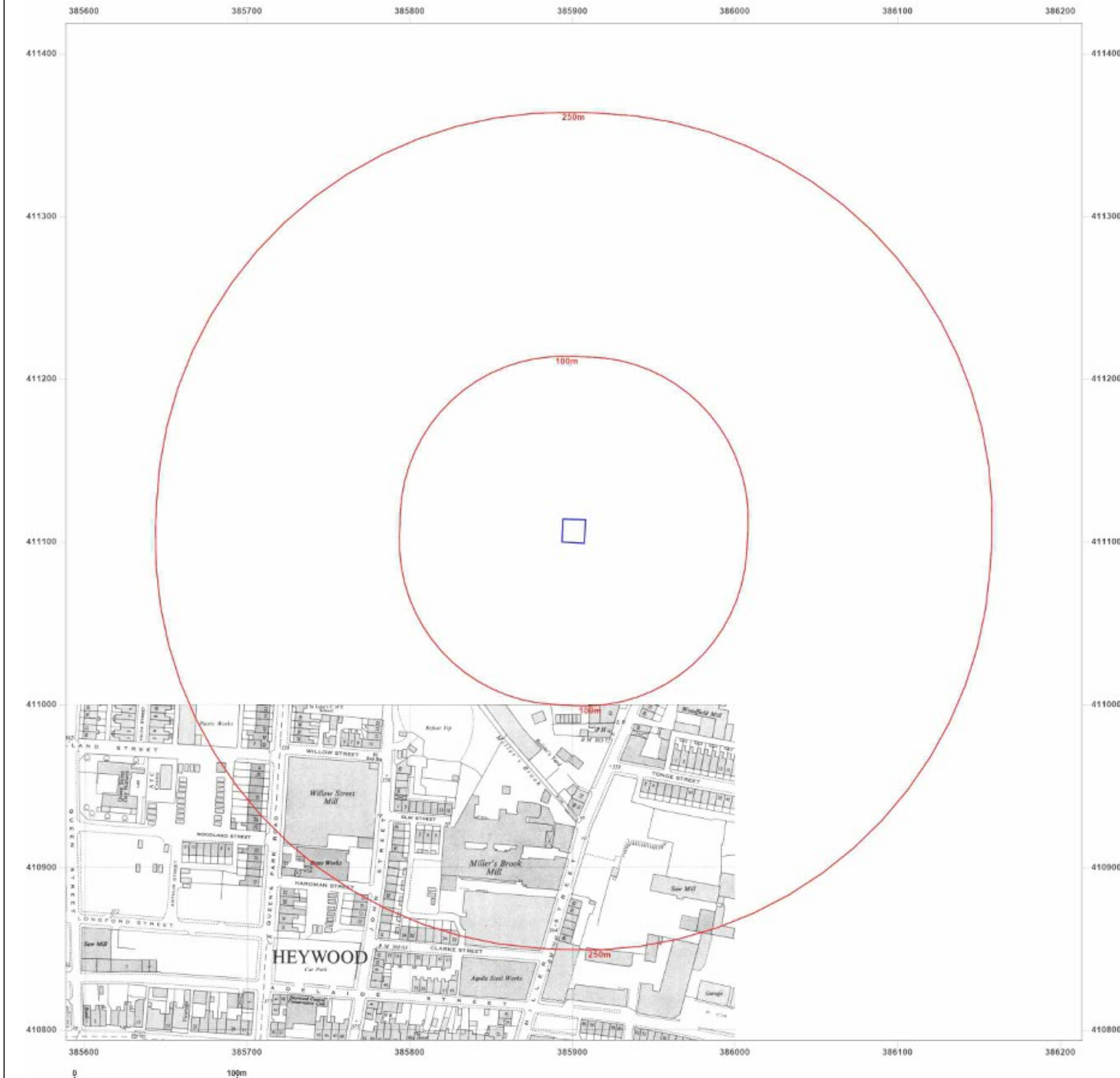


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**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1973-1974

**Scale:** 1:1,250

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



Surveyed 1956  
Revised 1973  
Edition N/A  
Copyright 1973  
Levelled 1962

Surveyed 1956  
Revised 1973  
Edition N/A  
Copyright 1974  
Levelled 1956

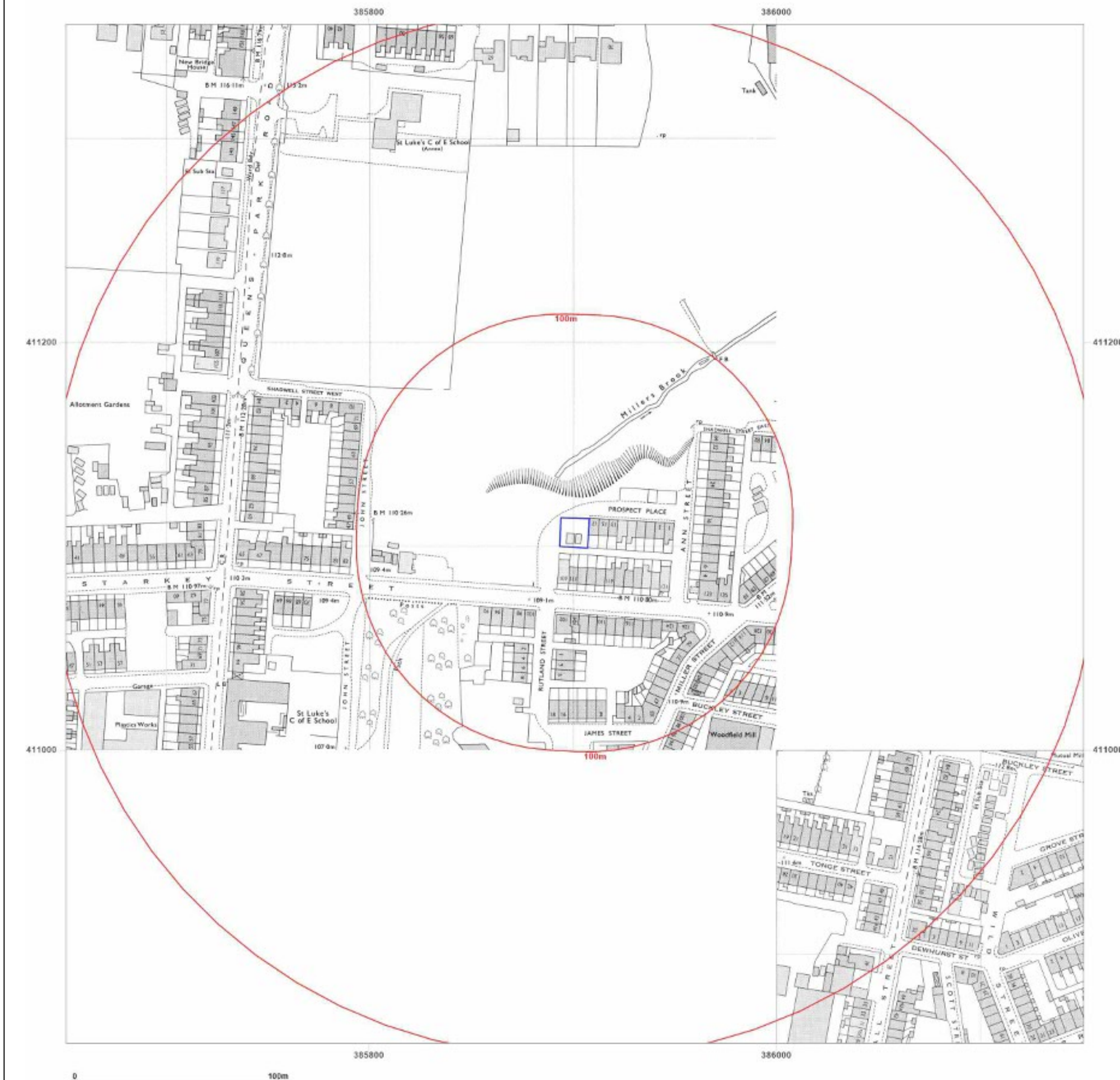


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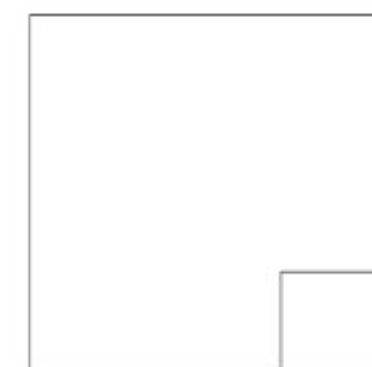
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**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1975

**Scale:** 1:1,250

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



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

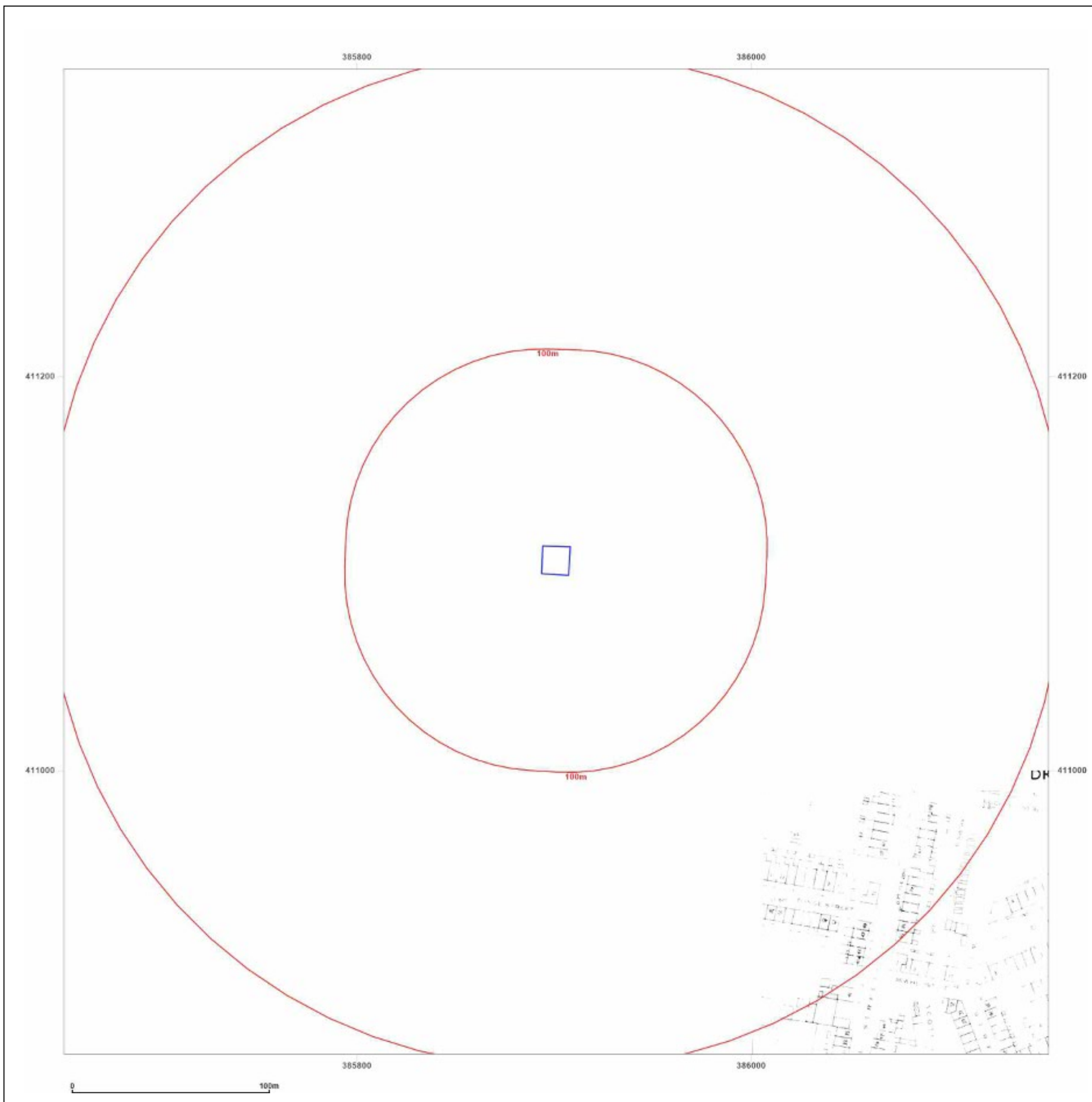


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**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1981-1985

**Scale:** 1:1,250

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



Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright 1985  
Levelled 1962

Surveyed N/A  
Revised N/A  
Edition N/A  
Copyright 1981  
Levelled 1962

Surveyed 1956  
Revised 1985  
Edition N/A  
Copyright 1985  
Levelled 1956

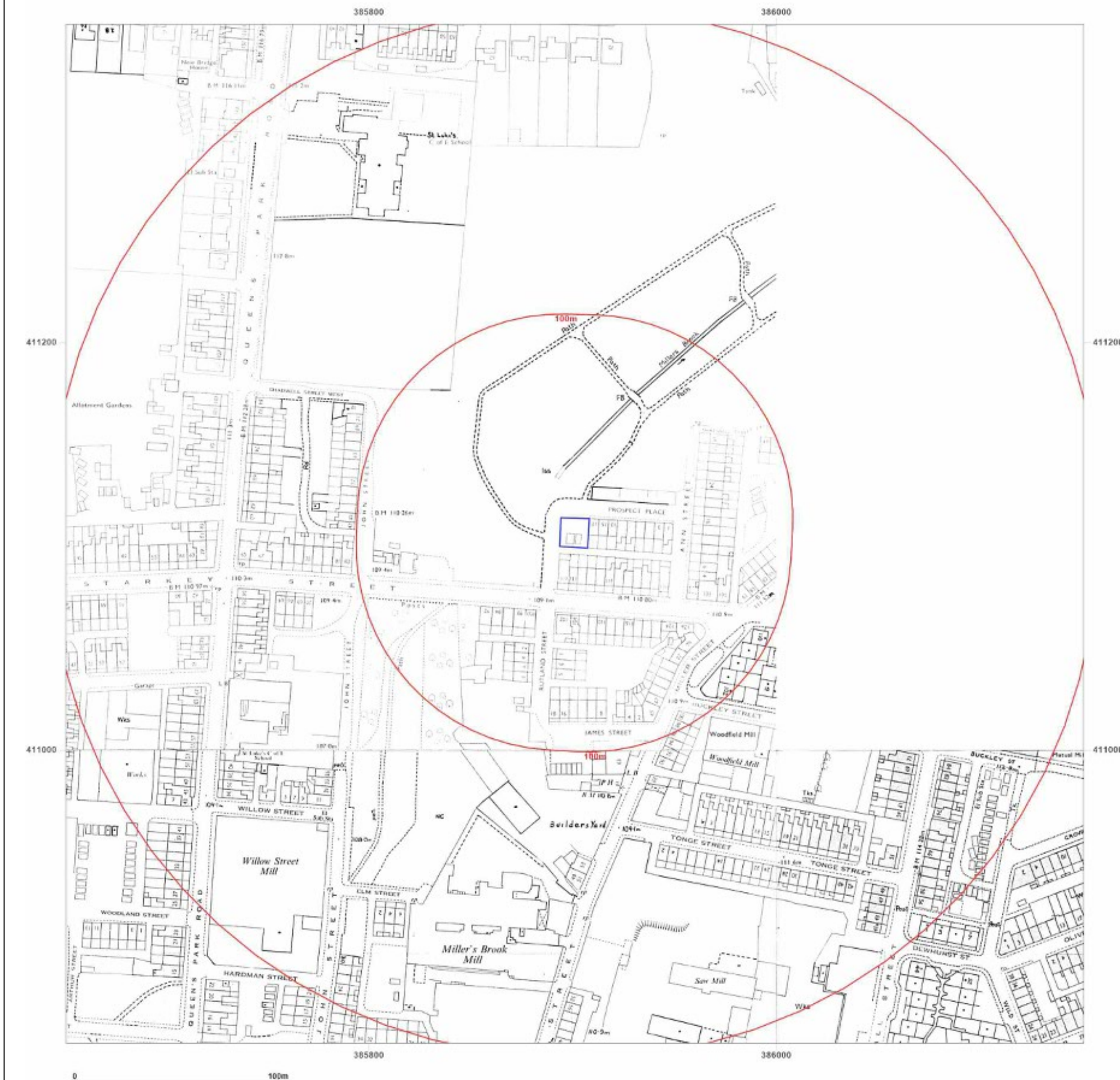


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**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1989-1991

**Scale:** 1:1,250

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



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Edition N/A  
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Revised 1990  
Edition N/A  
Copyright 1990  
Levelled N/A

Surveyed 1956  
Revised 1989  
Edition N/A  
Copyright 1989  
Levelled N/A

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

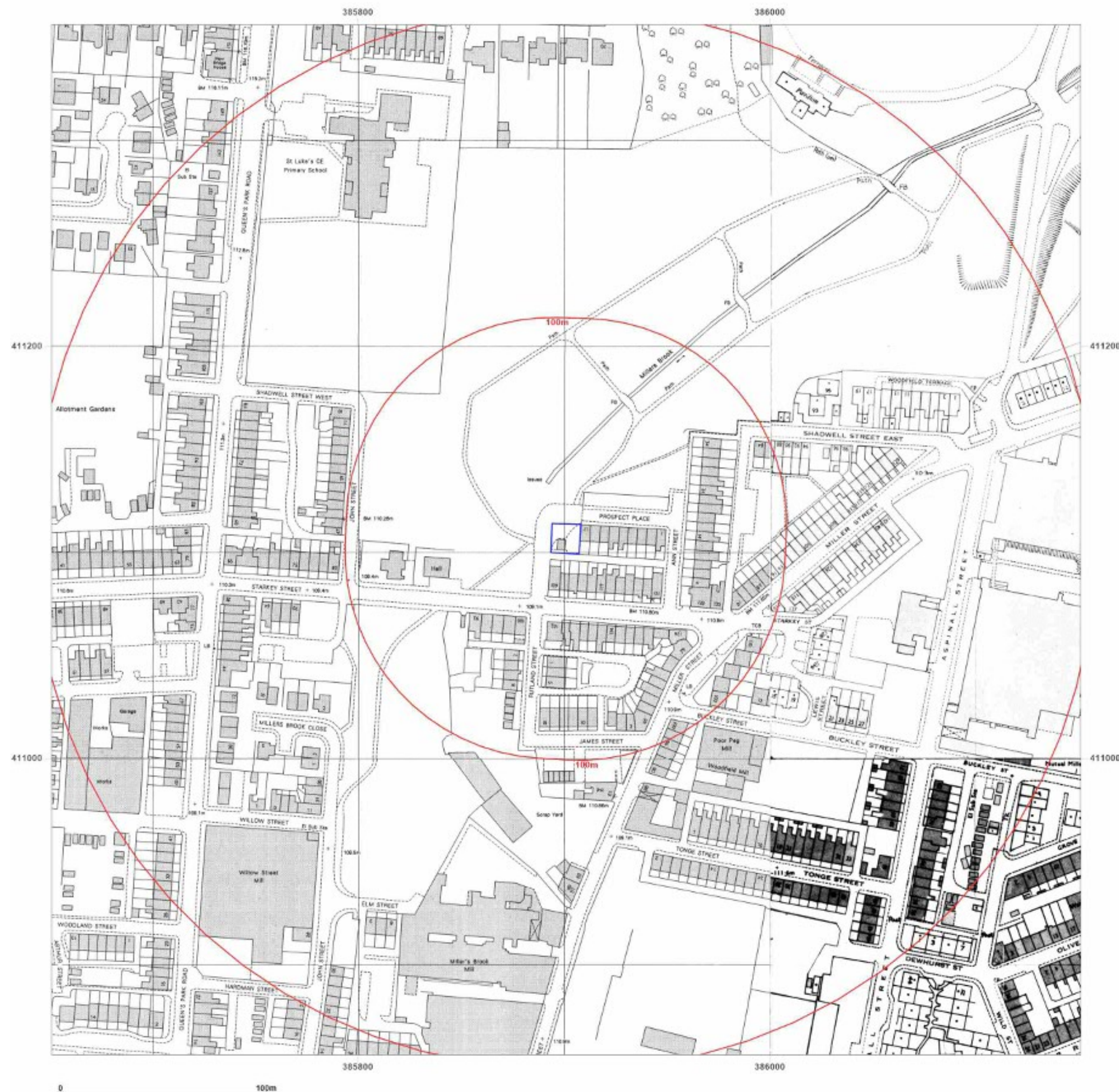


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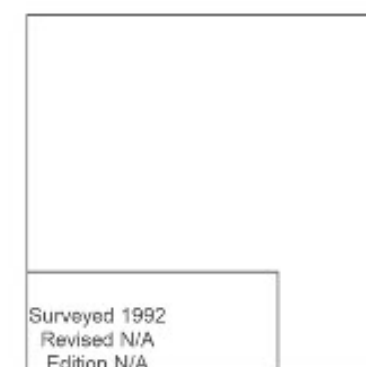
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**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:1,250

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



Surveyed 1992  
Revised N/A  
Edition N/A  
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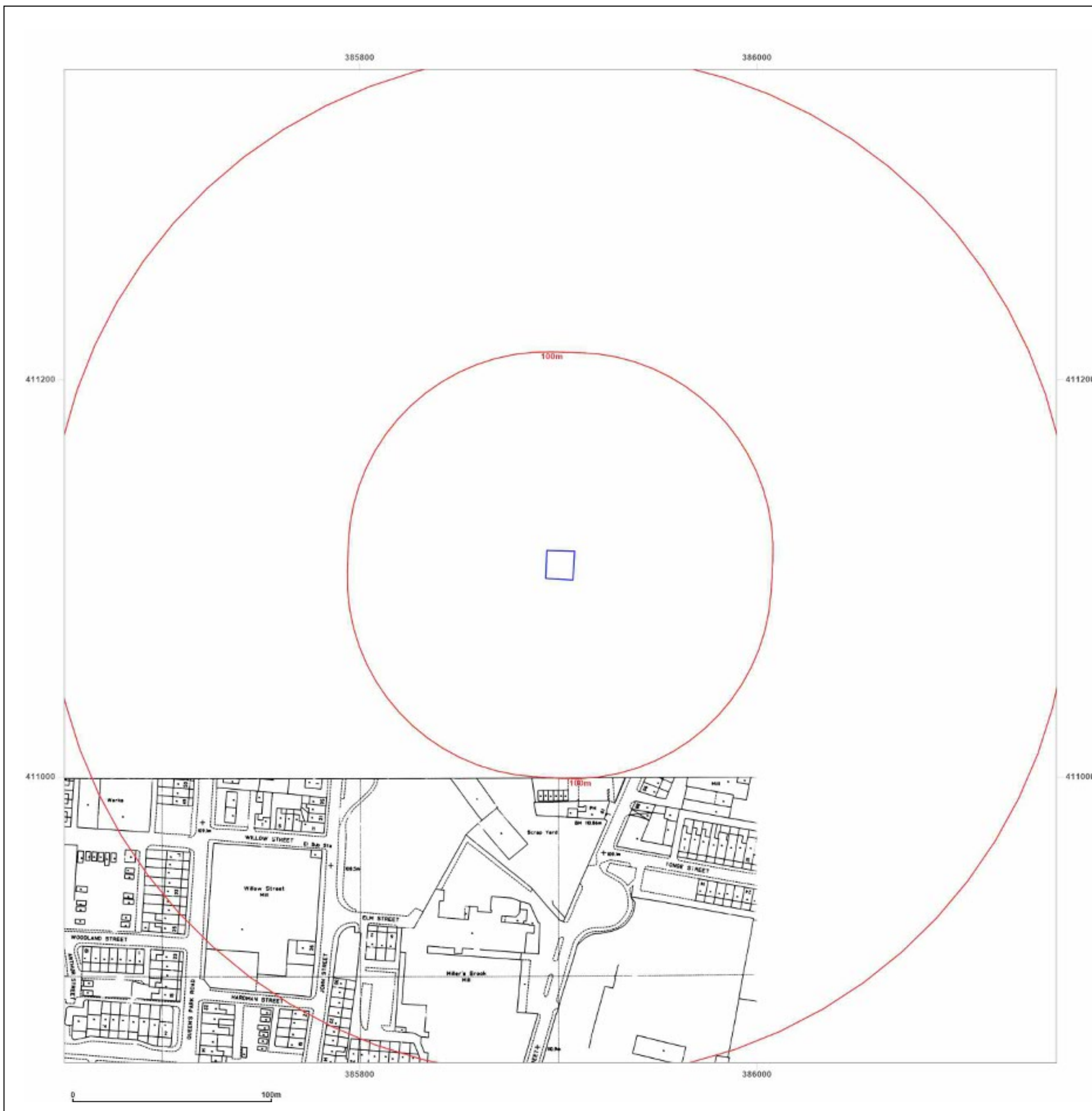


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**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1990-1992

**Scale:** 1:1,250

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



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

Surveyed 1966  
Revised 1989  
Edition N/A  
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Surveyed 1992  
Revised N/A  
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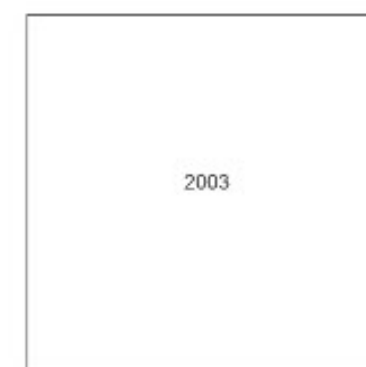
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**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** LandLine

**Map date:** 2003

**Scale:** 1:1,250

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



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#### Site Details:

LA 17 PROSPECT PLACE,  
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007  
Report Ref: GS-9365083  
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847  
Revised N/A  
Edition 1851  
Copyright N/A  
Levelled N/A

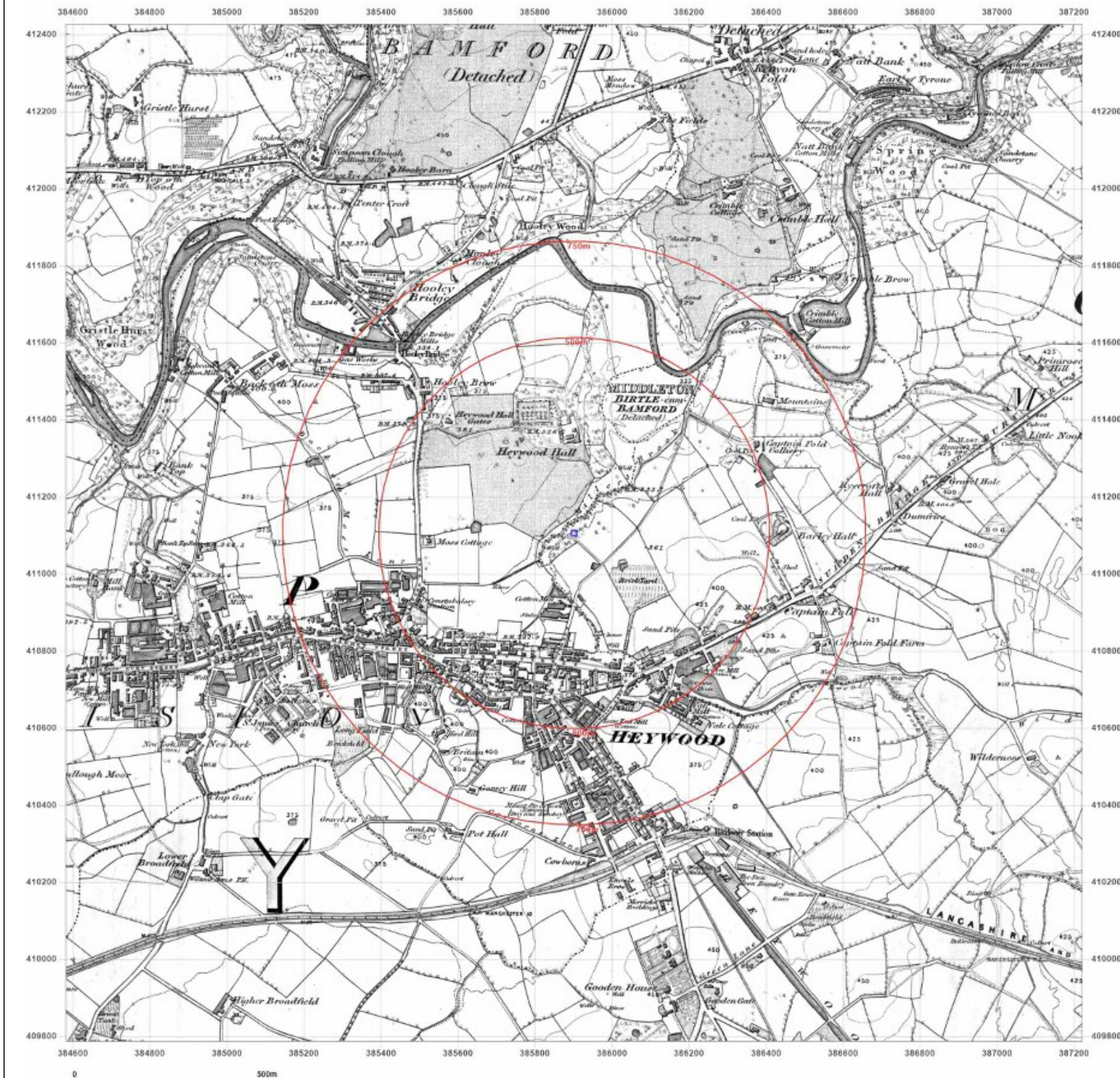


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#### Site Details:

LA 17 PROSPECT PLACE,  
HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007  
Report Ref: GS-9365083  
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1890

Scale: 1:10,560

Printed at: 1:10,560



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

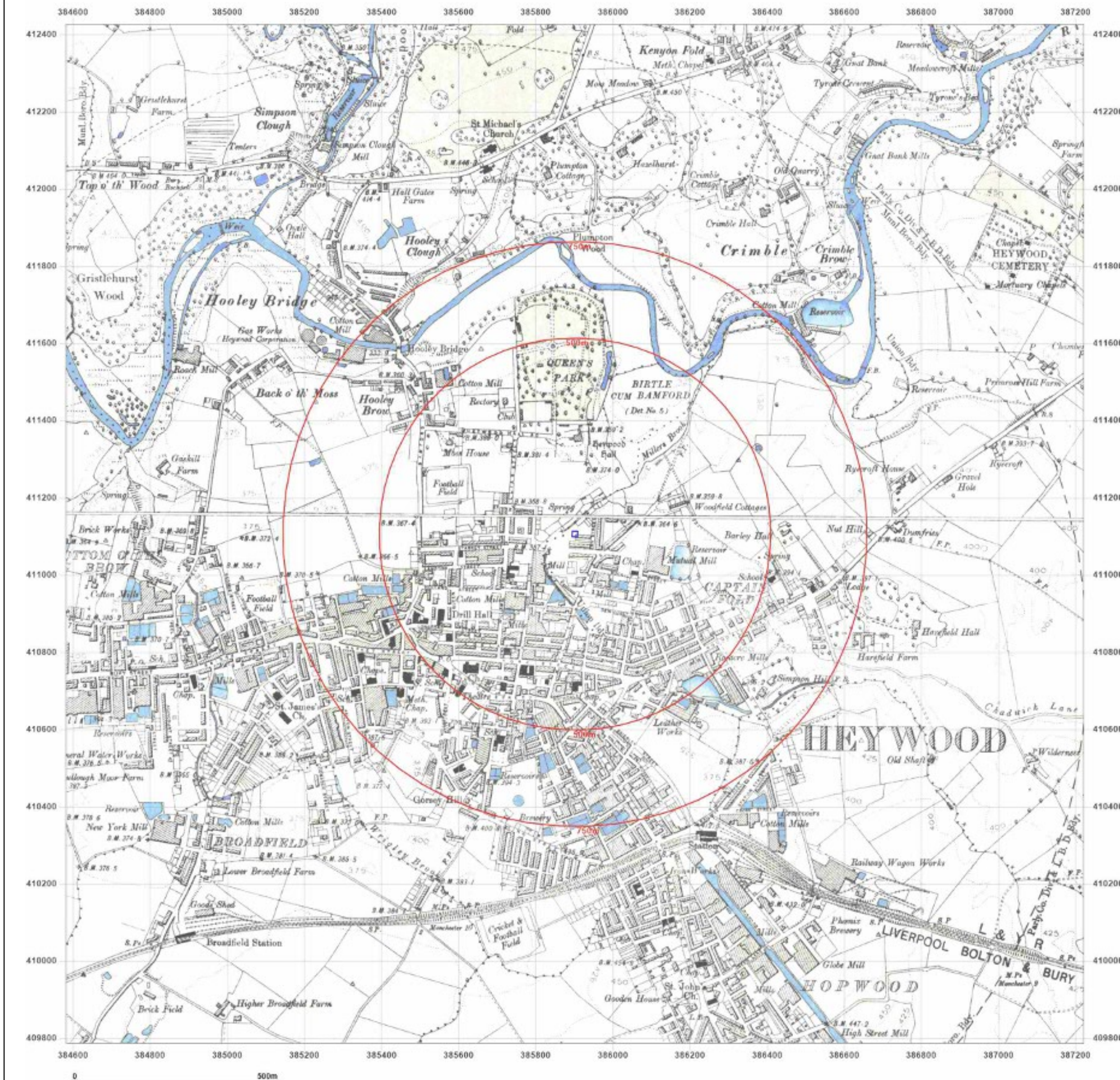


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#### Site Details:

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Client Ref: PH1-2023-000007  
Report Ref: GS-9365083  
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1908-1909

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848  
Revised 1908  
Edition N/A  
Copyright N/A  
Levelled N/A

Surveyed 1848  
Revised 1909  
Edition N/A  
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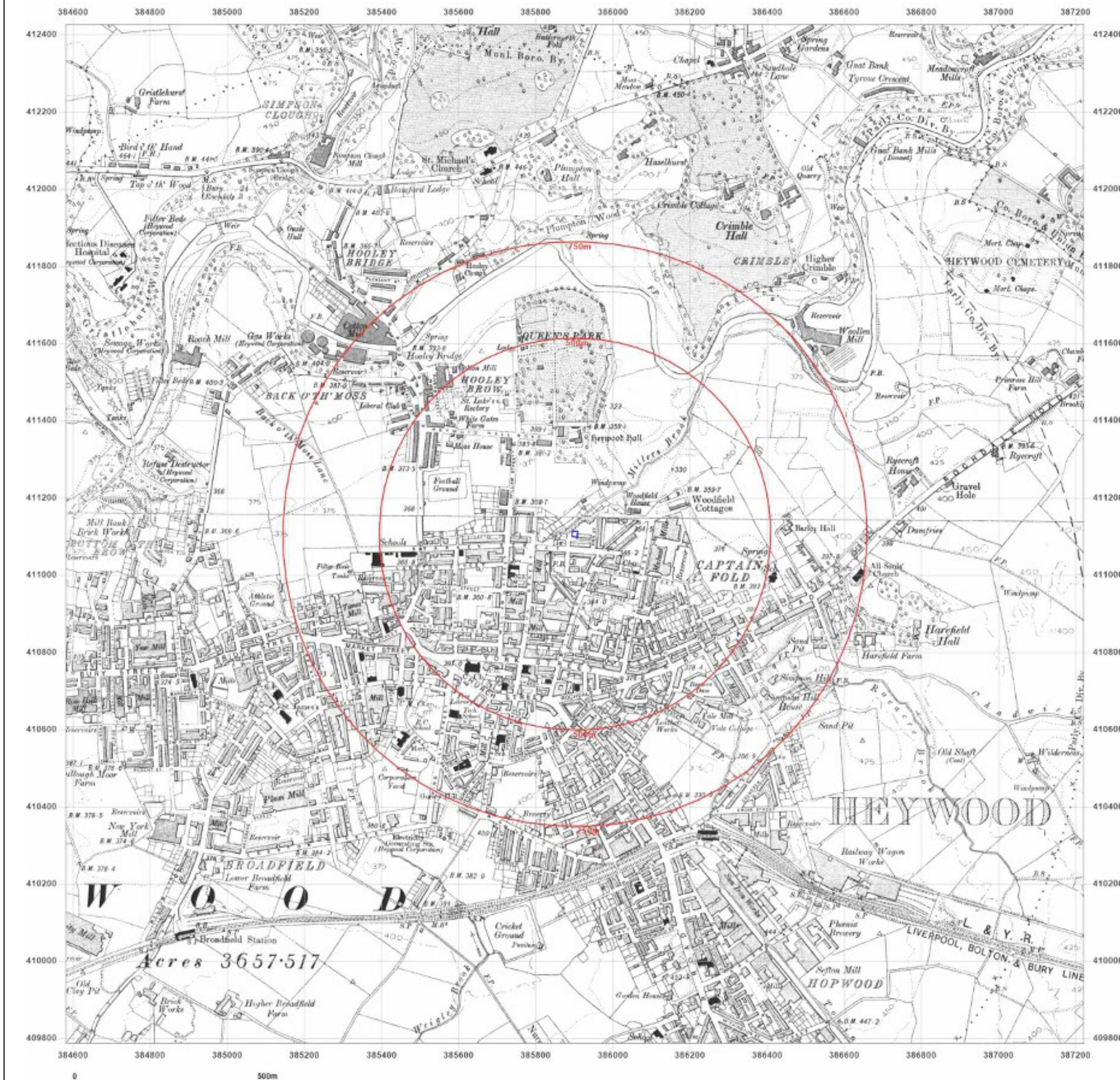


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#### Site Details:

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HEYWOOD, OL10 4JQ

**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** County Series

**Map date:** 1928

**Scale:** 1:10,560

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



Surveyed 1848  
Revised 1928  
Edition N/A  
Copyright N/A  
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Surveyed 1848  
Revised 1928  
Edition N/A  
Copyright N/A  
Levelled N/A

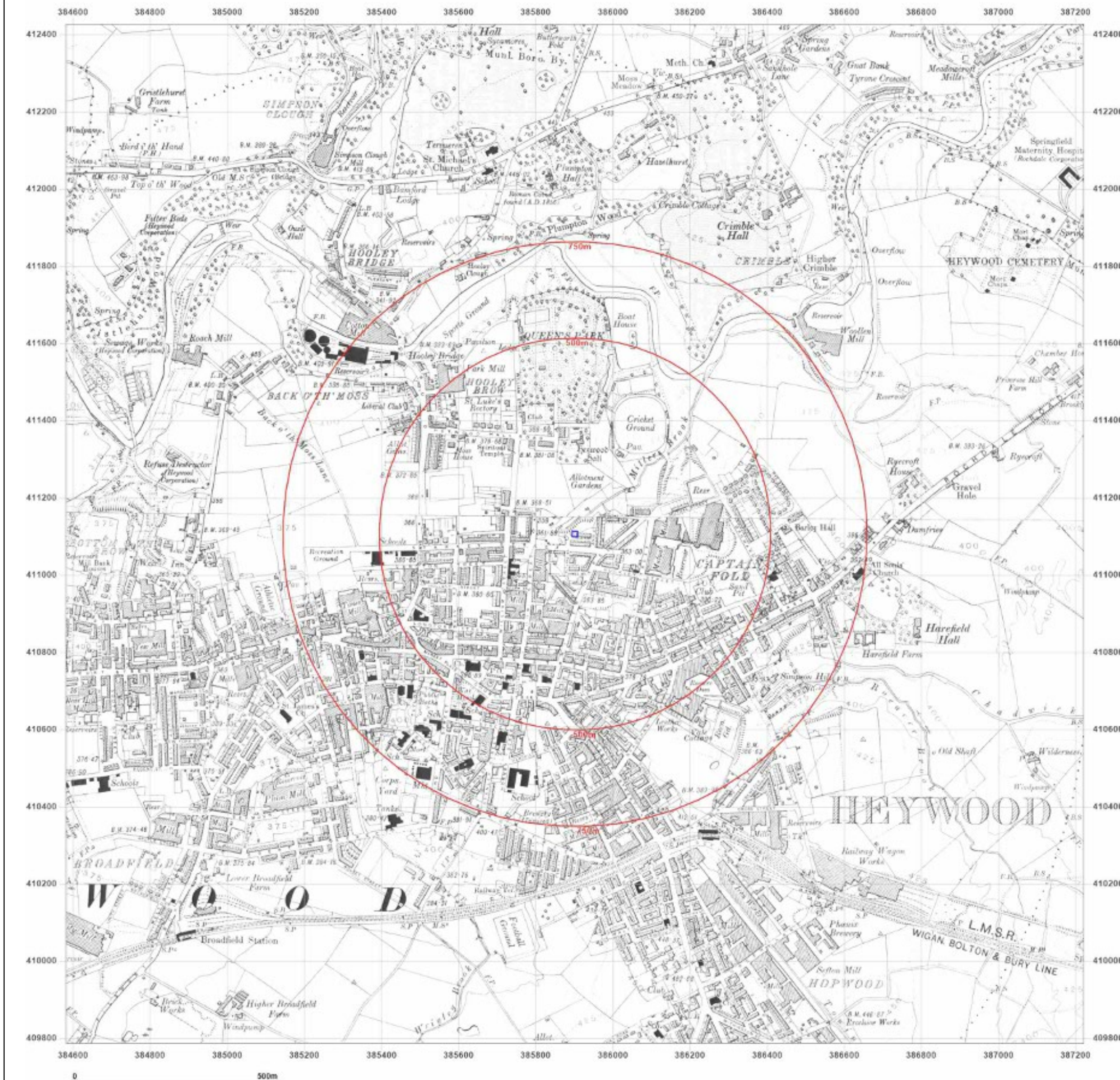


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#### Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007  
Report Ref: GS-9365083  
Grid Ref: 385901, 411106

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1848  
Revised 1938  
Edition N/A  
Copyright N/A  
Levelled N/A

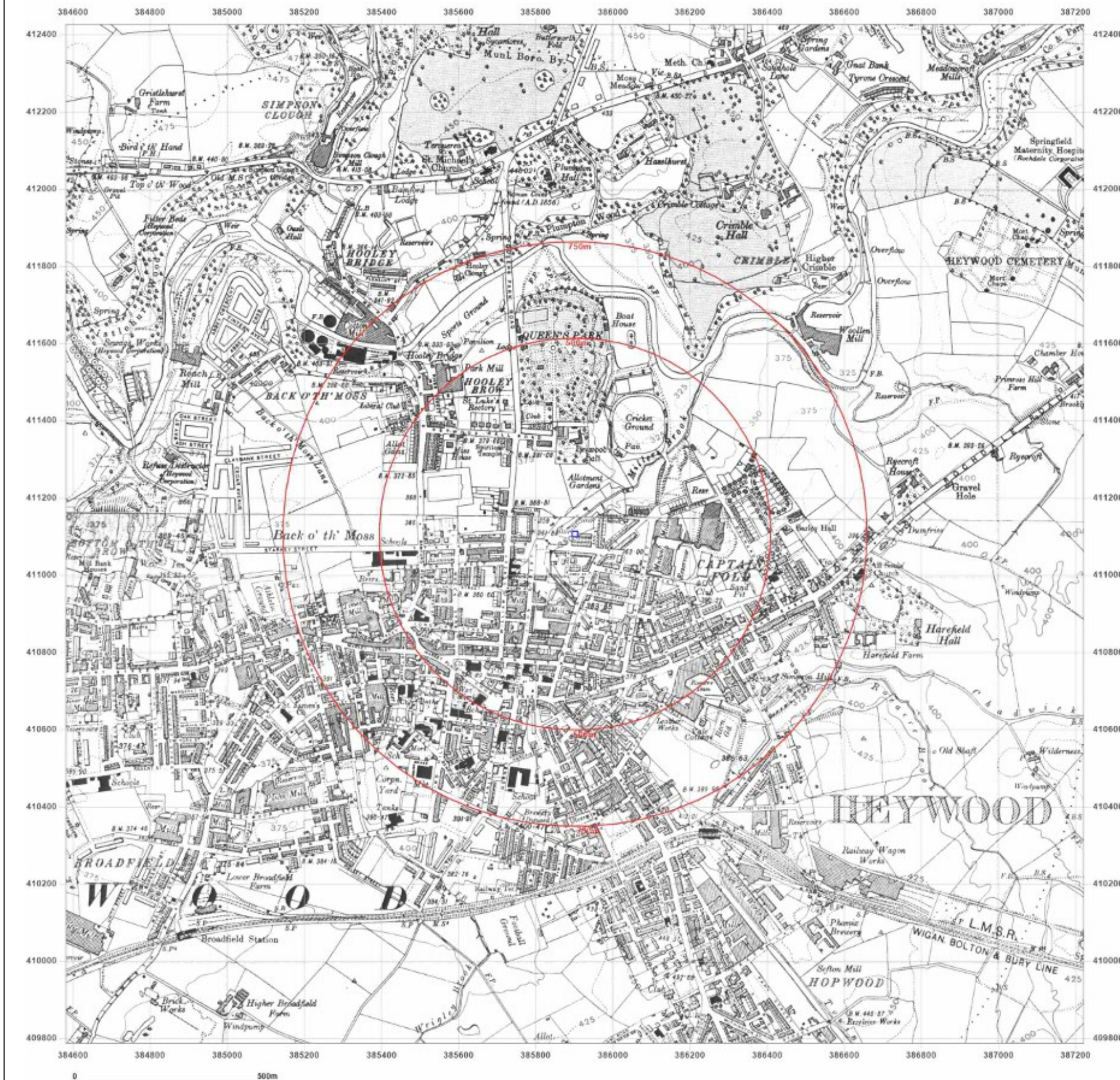


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#### Site Details:

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HEYWOOD, OL10 4JQ

**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** Provisional

**Map date:** 1955-1956

**Scale:** 1:10,560

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



Surveyed 1949  
Revised 1949  
Edition N/A  
Copyright 1956  
Levelled N/A

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

Surveyed 1949  
Revised 1955  
Edition 1955  
Copyright N/A  
Levelled N/A

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

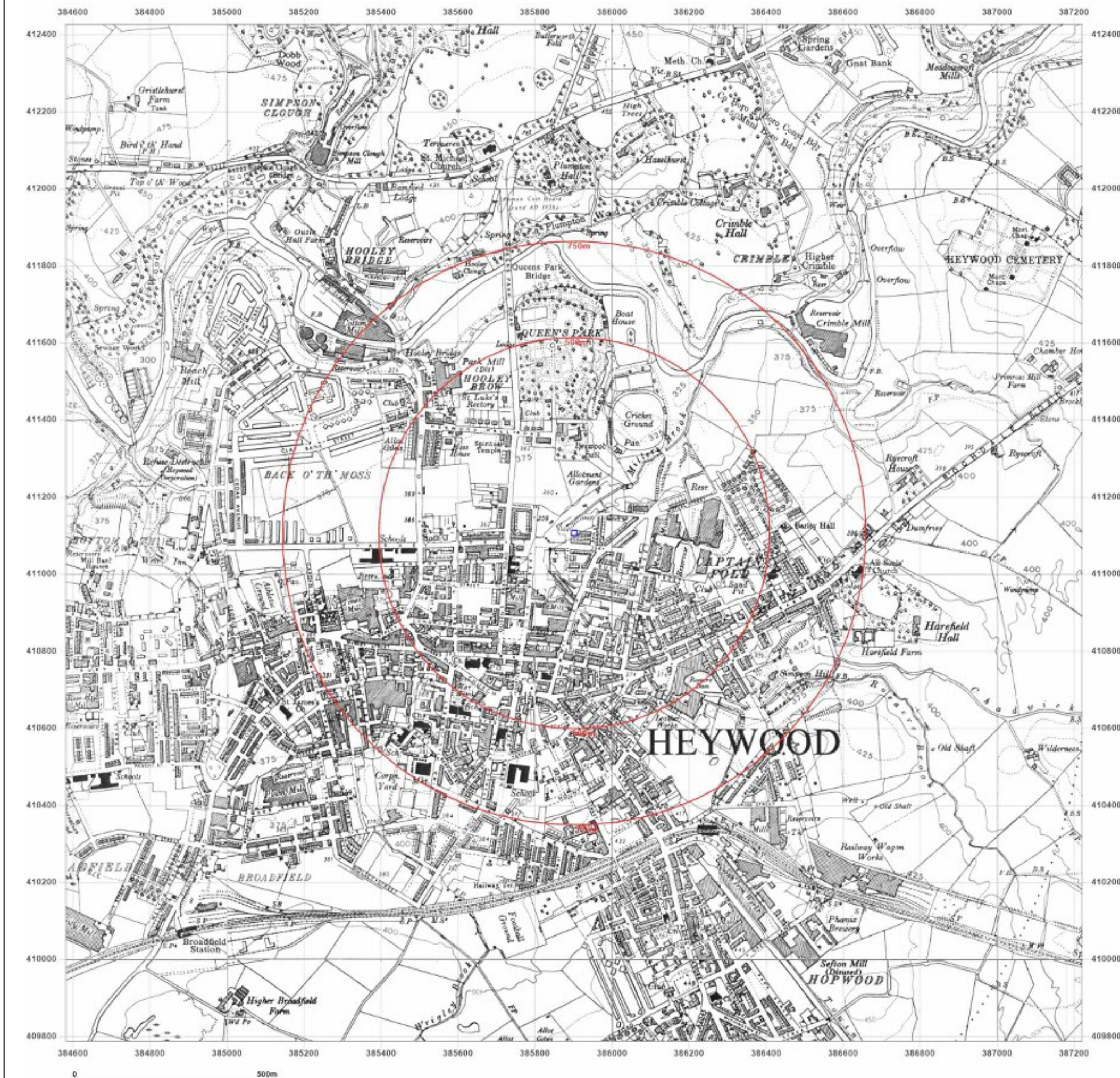


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#### Site Details:

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HEYWOOD, OL10 4JQ

**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** Provisional

**Map date:** 1965-1968

**Scale:** 1:10,560

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



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Revised 1967  
Edition N/A  
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Revised 1968  
Edition N/A  
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Revised 1965  
Edition N/A  
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Surveyed 1965  
Revised 1965  
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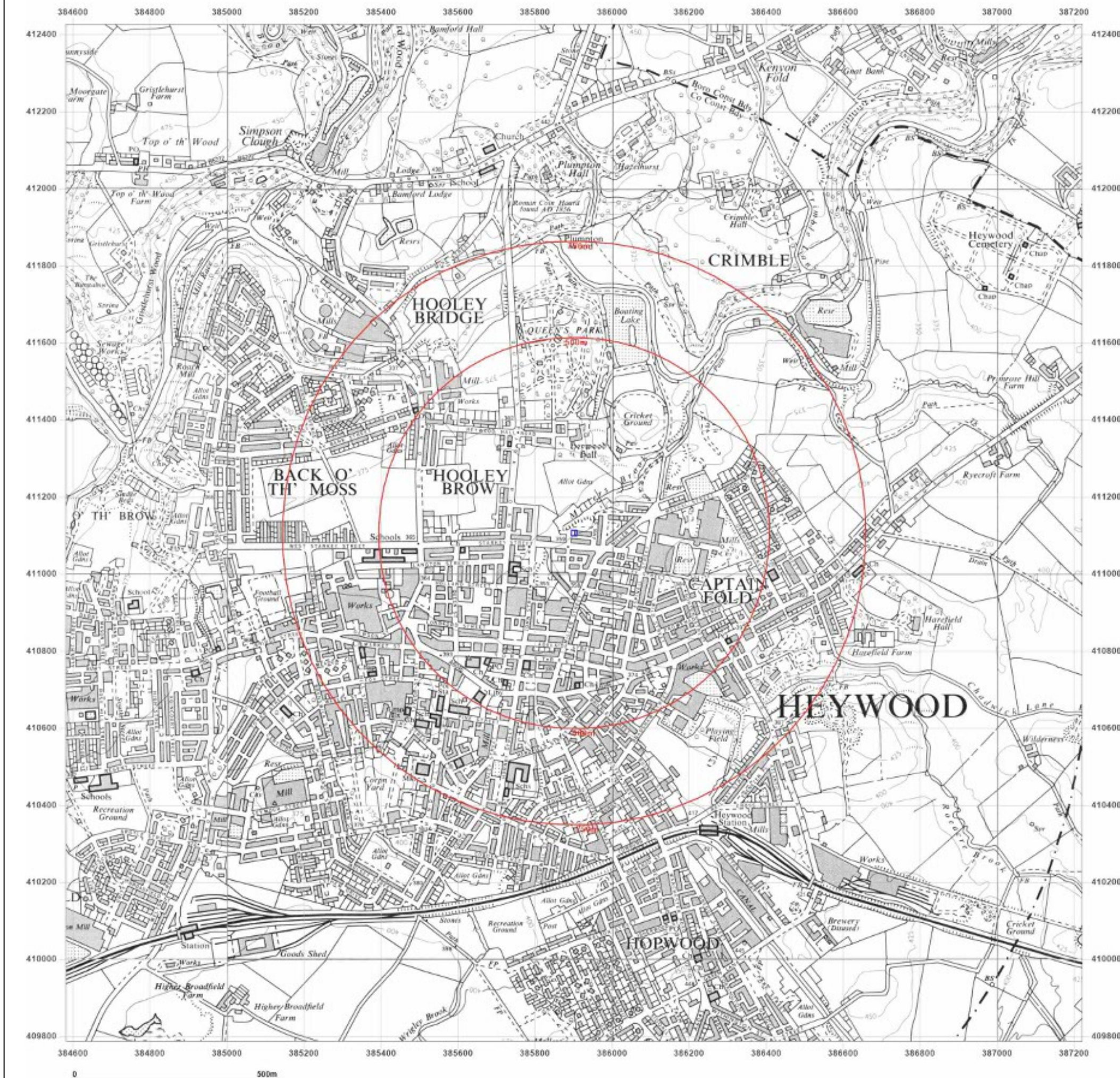


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**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1974-1975

**Scale:** 1:10,000

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



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Revised 1974  
Edition N/A  
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Levelled N/A

Surveyed 1974  
Revised 1975  
Edition N/A  
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Levelled N/A

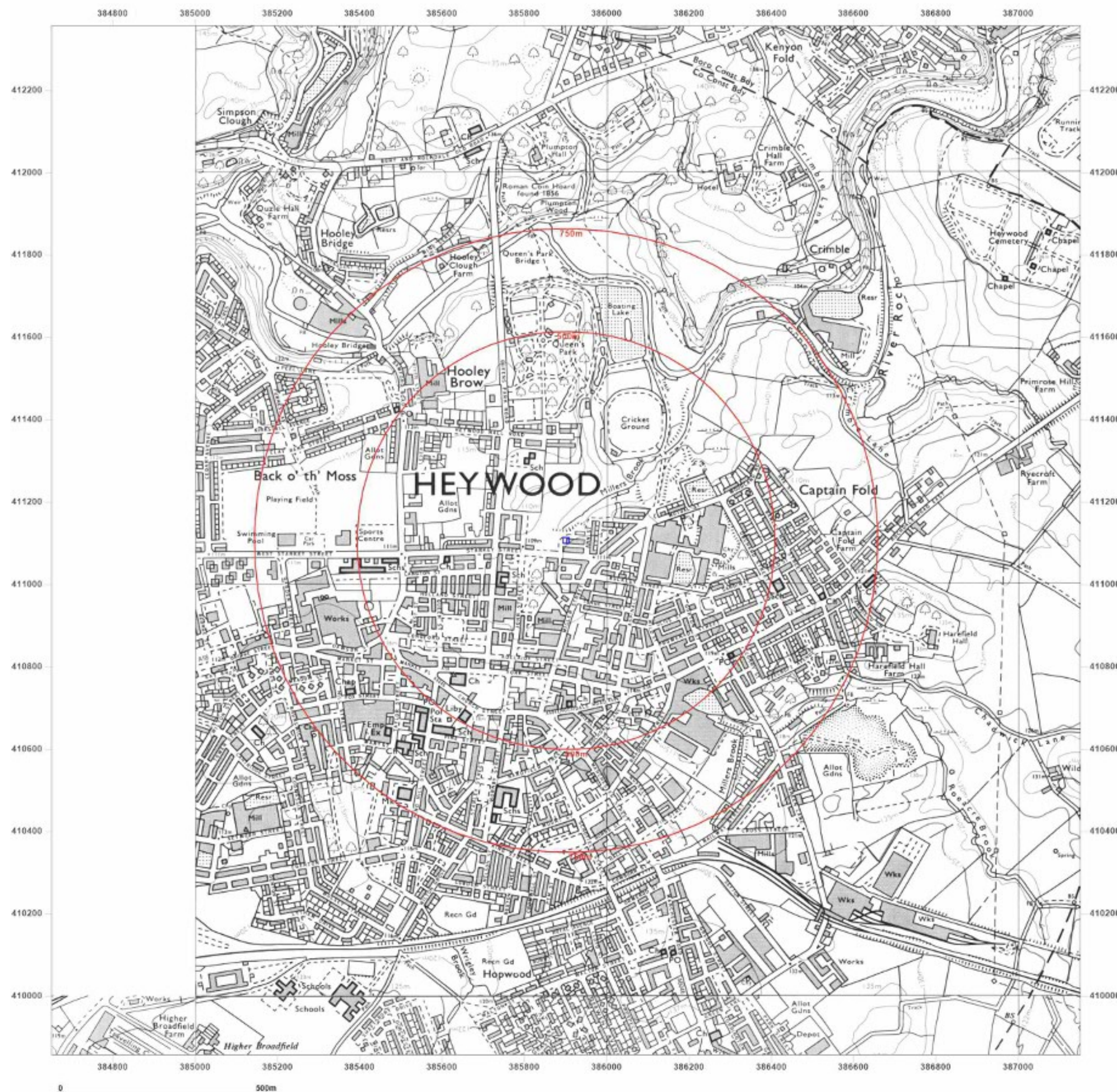


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#### Site Details:

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**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1987

**Scale:** 1:10,000

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



Surveyed 1984  
Revised 1987  
Edition N/A  
Copyright N/A  
Levelled N/A

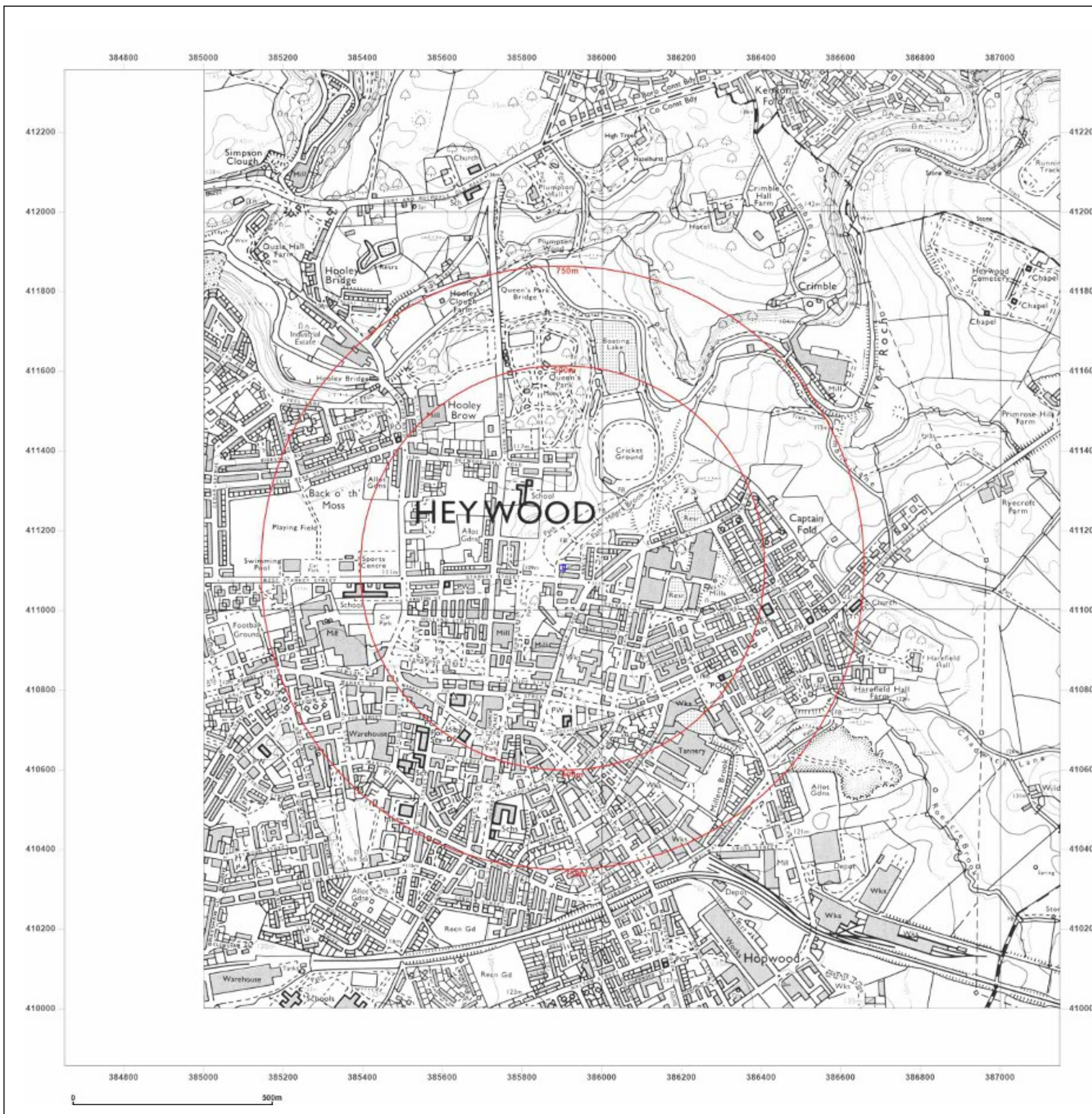


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HEYWOOD, OL10 4JQ

**Client Ref:** PH1-2023-000007  
**Report Ref:** GS-9365083  
**Grid Ref:** 385901, 411106

**Map Name:** National Grid

**Map date:** 1992

**Scale:** 1:10,000

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Surveyed 1984  
Revised 1992  
Edition N/A  
Copyright N/A  
Levelled N/A

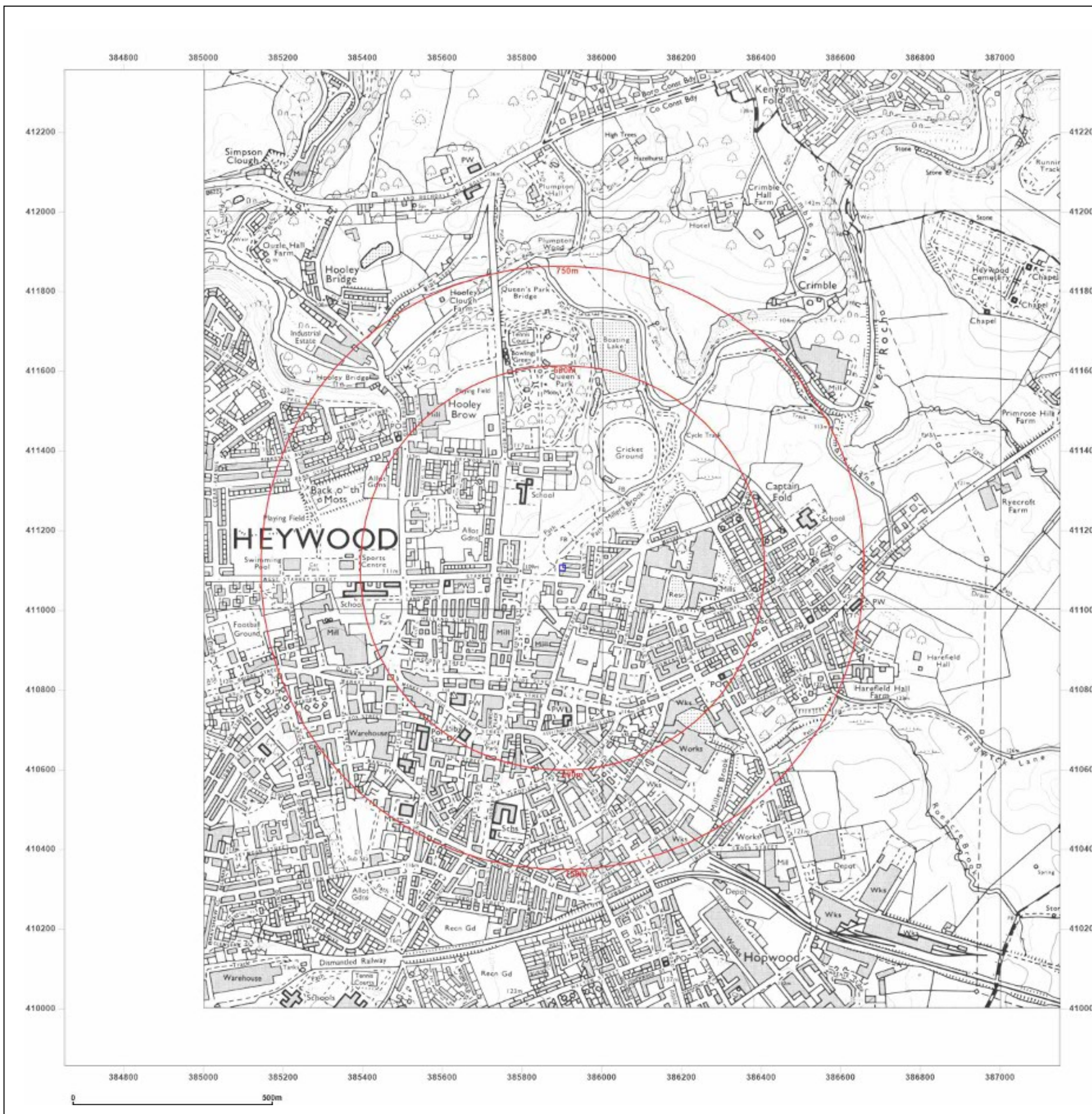


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#### Site Details:

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HEYWOOD, OL10 4JQ

Client Ref: PH1-2023-000007  
Report Ref: GS-9365083  
Grid Ref: 385901, 411106

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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## 19 APPENDIX 3 – ENVIRONMENTAL SCREENING REPORT

LA 17 PROSPECT PLACE, HEYWOOD, OL10 4JQ

**Order Details**

**Date:** 17/02/2023  
**Your ref:** PH1-2023-000007  
**Our Ref:** GS-9365084

**Site Details**

**Location:** 385901 411107  
**Area:** 0.02 ha  
**Authority:** [Rochdale Metropolitan Borough Council](#)

**Summary of findings**p. 2 **Aerial image**

p. 8

**OS MasterMap site plan**p.13 [groundsure.com/insightuserguide](https://groundsure.com/insightuserguide)

## Summary of findings

| Page               | Section             | Past land use                                            | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
|--------------------|---------------------|----------------------------------------------------------|---------|-------|---------|----------|-----------|
| <a href="#">14</a> | <a href="#">1.1</a> | <a href="#">Historical industrial land uses</a>          | 1       | 1     | 35      | 53       | -         |
| <a href="#">18</a> | <a href="#">1.2</a> | <a href="#">Historical tanks</a>                         | 0       | 0     | 5       | 31       | -         |
| <a href="#">20</a> | <a href="#">1.3</a> | <a href="#">Historical energy features</a>               | 0       | 0     | 4       | 11       | -         |
| 20                 | 1.4                 | Historical petrol stations                               | 0       | 0     | 0       | 0        | -         |
| <a href="#">21</a> | <a href="#">1.5</a> | <a href="#">Historical garages</a>                       | 0       | 0     | 6       | 13       | -         |
| 22                 | 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 |
| <a href="#">23</a> | <a href="#">2.1</a> | <a href="#">Historical industrial land uses</a>          | 1       | 1     | 44      | 70       | -         |
| <a href="#">28</a> | <a href="#">2.2</a> | <a href="#">Historical tanks</a>                         | 0       | 0     | 14      | 56       | -         |
| <a href="#">31</a> | <a href="#">2.3</a> | <a href="#">Historical energy features</a>               | 0       | 0     | 14      | 28       | -         |
| 32                 | 2.4                 | Historical petrol stations                               | 0       | 0     | 0       | 0        | -         |
| <a href="#">33</a> | <a href="#">2.5</a> | <a href="#">Historical garages</a>                       | 0       | 0     | 11      | 21       | -         |
| Page               | Section             | Waste and landfill                                       | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| 35                 | 3.1                 | Active or recent landfill                                | 0       | 0     | 0       | 0        | -         |
| <a href="#">35</a> | <a href="#">3.2</a> | <a href="#">Historical landfill (BGS records)</a>        | 0       | 0     | 0       | 1        | -         |
| <a href="#">36</a> | <a href="#">3.3</a> | <a href="#">Historical landfill (LA/mapping records)</a> | 0       | 0     | 2       | 1        | -         |
| <a href="#">36</a> | <a href="#">3.4</a> | <a href="#">Historical landfill (EA/NRW records)</a>     | 0       | 0     | 1       | 1        | -         |
| <a href="#">37</a> | <a href="#">3.5</a> | <a href="#">Historical waste sites</a>                   | 0       | 0     | 3       | 1        | -         |
| 38                 | 3.6                 | Licensed waste sites                                     | 0       | 0     | 0       | 0        | -         |
| 38                 | 3.7                 | Waste exemptions                                         | 0       | 0     | 0       | 0        | -         |
| Page               | Section             | Current industrial land use                              | On site | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#">39</a> | <a href="#">4.1</a> | <a href="#">Recent industrial land uses</a>              | 0       | 0     | 13      | -        | -         |
| <a href="#">40</a> | <a href="#">4.2</a> | <a href="#">Current or recent petrol stations</a>        | 0       | 0     | 0       | 2        | -         |
| 41                 | 4.3                 | Electricity cables                                       | 0       | 0     | 0       | 0        | -         |
| 41                 | 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        | -         |
| 42        | 4.8         | Hazardous substance storage/usage                      | 0                        | 0     | 0       | 0        | -         |
| 42        | 4.9         | Historical licensed industrial activities (IPC)        | 0                        | 0     | 0       | 0        | -         |
| 42        | 4.10        | Licensed industrial activities (Part A(1))             | 0                        | 0     | 0       | 0        | -         |
| <b>42</b> | <b>4.11</b> | <b><u>Licensed pollutant release (Part A(2)/B)</u></b> | 0                        | 0     | 0       | 3        | -         |
| 43        | 4.12        | Radioactive Substance Authorisations                   | 0                        | 0     | 0       | 0        | -         |
| <b>43</b> | <b>4.13</b> | <b><u>Licensed Discharges to controlled waters</u></b> | 0                        | 1     | 3       | 0        | -         |
| 44        | 4.14        | Pollutant release to surface waters (Red List)         | 0                        | 0     | 0       | 0        | -         |
| 44        | 4.15        | Pollutant release to public sewer                      | 0                        | 0     | 0       | 0        | -         |
| 44        | 4.16        | List 1 Dangerous Substances                            | 0                        | 0     | 0       | 0        | -         |
| 44        | 4.17        | List 2 Dangerous Substances                            | 0                        | 0     | 0       | 0        | -         |
| <b>45</b> | <b>4.18</b> | <b><u>Pollution Incidents (EA/NRW)</u></b>             | 0                        | 0     | 4       | 9        | -         |
| 46        | 4.19        | Pollution inventory substances                         | 0                        | 0     | 0       | 0        | -         |
| 46        | 4.20        | Pollution inventory waste transfers                    | 0                        | 0     | 0       | 0        | -         |
| 47        | 4.21        | Pollution inventory radioactive waste                  | 0                        | 0     | 0       | 0        | -         |
| Page      | Section     | Hydrogeology                                           | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <b>48</b> | <b>5.1</b>  | <b><u>Superficial aquifer</u></b>                      | Identified (within 500m) |       |         |          |           |
| <b>50</b> | <b>5.2</b>  | <b><u>Bedrock aquifer</u></b>                          | Identified (within 500m) |       |         |          |           |
| <b>51</b> | <b>5.3</b>  | <b><u>Groundwater vulnerability</u></b>                | Identified (within 50m)  |       |         |          |           |
| 52        | 5.4         | Groundwater vulnerability- soluble rock risk           | None (within 0m)         |       |         |          |           |
| 52        | 5.5         | Groundwater vulnerability- local information           | None (within 0m)         |       |         |          |           |
| <b>53</b> | <b>5.6</b>  | <b><u>Groundwater abstractions</u></b>                 | 0                        | 0     | 0       | 1        | 16        |
| <b>58</b> | <b>5.7</b>  | <b><u>Surface water abstractions</u></b>               | 0                        | 0     | 0       | 0        | 12        |
| 61        | 5.8         | Potable abstractions                                   | 0                        | 0     | 0       | 0        | 0         |
| 61        | 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 |
| <b>63</b> | <b>6.1</b>  | <b><u>Water Network (OS MasterMap)</u></b>             | 0                        | 2     | 0       | -        | -         |



| <b>64</b> | <b>6.2</b>   | <b><u>Surface water features</u></b>            | 0                                              | 1     | 0       | -        | -         |
|-----------|--------------|-------------------------------------------------|------------------------------------------------|-------|---------|----------|-----------|
| <b>64</b> | <b>6.3</b>   | <b><u>WFD Surface water body catchments</u></b> | 1                                              | -     | -       | -        | -         |
| <b>64</b> | <b>6.4</b>   | <b><u>WFD Surface water bodies</u></b>          | 0                                              | 1     | 0       | -        | -         |
| <b>65</b> | <b>6.5</b>   | <b><u>WFD Groundwater bodies</u></b>            | 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       | -        | -         |
| <b>68</b> | <b>7.6</b>   | <b><u>Flood Zone 2</u></b>                      | Identified (within 50m)                        |       |         |          |           |
| <b>69</b> | <b>7.7</b>   | <b><u>Flood Zone 3</u></b>                      | Identified (within 50m)                        |       |         |          |           |
| Page      | Section      | Surface water flooding                          |                                                |       |         |          |           |
| <b>70</b> | <b>8.1</b>   | <b><u>Surface water flooding</u></b>            | 1 in 1000 year, Greater than 1.0m (within 50m) |       |         |          |           |
| Page      | Section      | Groundwater flooding                            |                                                |       |         |          |           |
| <b>72</b> | <b>9.1</b>   | <b><u>Groundwater flooding</u></b>              | Moderate (within 50m)                          |       |         |          |           |
| Page      | Section      | Environmental designations                      | On site                                        | 0-50m | 50-250m | 250-500m | 500-2000m |
| 73        | 10.1         | Sites of Special Scientific Interest (SSSI)     | 0                                              | 0     | 0       | 0        | 0         |
| 74        | 10.2         | Conserved wetland sites (Ramsar sites)          | 0                                              | 0     | 0       | 0        | 0         |
| 74        | 10.3         | Special Areas of Conservation (SAC)             | 0                                              | 0     | 0       | 0        | 0         |
| 74        | 10.4         | Special Protection Areas (SPA)                  | 0                                              | 0     | 0       | 0        | 0         |
| 74        | 10.5         | National Nature Reserves (NNR)                  | 0                                              | 0     | 0       | 0        | 0         |
| 75        | 10.6         | Local Nature Reserves (LNR)                     | 0                                              | 0     | 0       | 0        | 0         |
| <b>75</b> | <b>10.7</b>  | <b><u>Designated Ancient Woodland</u></b>       | 0                                              | 0     | 0       | 0        | 11        |
| 76        | 10.8         | Biosphere Reserves                              | 0                                              | 0     | 0       | 0        | 0         |
| 76        | 10.9         | Forest Parks                                    | 0                                              | 0     | 0       | 0        | 0         |
| 76        | 10.10        | Marine Conservation Zones                       | 0                                              | 0     | 0       | 0        | 0         |
| <b>76</b> | <b>10.11</b> | <b><u>Green Belt</u></b>                        | 0                                              | 0     | 1       | 0        | 0         |
| 77        | 10.12        | Proposed Ramsar sites                           | 0                                              | 0     | 0       | 0        | 0         |



| 77        | 10.13        | Possible Special Areas of Conservation (pSAC)  | 0                        | 0     | 0        | 0        | 0         |
|-----------|--------------|------------------------------------------------|--------------------------|-------|----------|----------|-----------|
| 77        | 10.14        | Potential Special Protection Areas (pSPA)      | 0                        | 0     | 0        | 0        | 0         |
| 77        | 10.15        | Nitrate Sensitive Areas                        | 0                        | 0     | 0        | 0        | 0         |
| <b>78</b> | <b>10.16</b> | <b><u>Nitrate Vulnerable Zones</u></b>         | 0                        | 0     | 0        | 0        | <b>1</b>  |
| <b>79</b> | <b>10.17</b> | <b><u>SSSI Impact Risk Zones</u></b>           | <b>1</b>                 | -     | -        | -        | -         |
| 80        | 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 |
| 81        | 11.1         | World Heritage Sites                           | 0                        | 0     | 0        | -        | -         |
| 82        | 11.2         | Area of Outstanding Natural Beauty             | 0                        | 0     | 0        | -        | -         |
| 82        | 11.3         | National Parks                                 | 0                        | 0     | 0        | -        | -         |
| <b>82</b> | <b>11.4</b>  | <b><u>Listed Buildings</u></b>                 | 0                        | 0     | <b>1</b> | -        | -         |
| 83        | 11.5         | Conservation Areas                             | 0                        | 0     | 0        | -        | -         |
| 83        | 11.6         | Scheduled Ancient Monuments                    | 0                        | 0     | 0        | -        | -         |
| 83        | 11.7         | Registered Parks and Gardens                   | 0                        | 0     | 0        | -        | -         |
| Page      | Section      | Agricultural designations                      | On site                  | 0-50m | 50-250m  | 250-500m | 500-2000m |
| <b>84</b> | <b>12.1</b>  | <b><u>Agricultural Land Classification</u></b> | Urban (within 250m)      |       |          |          |           |
| 85        | 12.2         | Open Access Land                               | 0                        | 0     | 0        | -        | -         |
| 85        | 12.3         | Tree Felling Licences                          | 0                        | 0     | 0        | -        | -         |
| 85        | 12.4         | Environmental Stewardship Schemes              | 0                        | 0     | 0        | -        | -         |
| 85        | 12.5         | Countryside Stewardship Schemes                | 0                        | 0     | 0        | -        | -         |
| Page      | Section      | Habitat designations                           | On site                  | 0-50m | 50-250m  | 250-500m | 500-2000m |
| <b>86</b> | <b>13.1</b>  | <b><u>Priority Habitat Inventory</u></b>       | 0                        | 0     | 4        | -        | -         |
| 87        | 13.2         | Habitat Networks                               | 0                        | 0     | 0        | -        | -         |
| 87        | 13.3         | Open Mosaic Habitat                            | 0                        | 0     | 0        | -        | -         |
| 87        | 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 |
| <b>88</b> | <b>14.1</b>  | <b><u>10k Availability</u></b>                 | Identified (within 500m) |       |          |          |           |
| <b>89</b> | <b>14.2</b>  | <b><u>Artificial and made ground (10k)</u></b> | 0                        | 0     | 1        | 3        | -         |
| <b>91</b> | <b>14.3</b>  | <b><u>Superficial geology (10k)</u></b>        | 1                        | 0     | 1        | 2        | -         |



| <a href="#"><u>92</u></a>  | <a href="#"><u>14.4</u></a>  | <a href="#"><u>Landslip (10k)</u></a>                                 | 0                        | 0     | 1       | 1        | -         |
|----------------------------|------------------------------|-----------------------------------------------------------------------|--------------------------|-------|---------|----------|-----------|
| <a href="#"><u>93</u></a>  | <a href="#"><u>14.5</u></a>  | <a href="#"><u>Bedrock geology (10k)</u></a>                          | 1                        | 0     | 5       | 0        | -         |
| <a href="#"><u>94</u></a>  | <a href="#"><u>14.6</u></a>  | <a href="#"><u>Bedrock faults and other linear features (10k)</u></a> | 0                        | 0     | 1       | 2        | -         |
| Page                       | Section                      | Geology 1:50,000 scale                                                | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#"><u>95</u></a>  | <a href="#"><u>15.1</u></a>  | <a href="#"><u>50k Availability</u></a>                               | Identified (within 500m) |       |         |          |           |
| 96                         | 15.2                         | Artificial and made ground (50k)                                      | 0                        | 0     | 0       | 0        | -         |
| 96                         | 15.3                         | Artificial ground permeability (50k)                                  | 0                        | 0     | -       | -        | -         |
| <a href="#"><u>97</u></a>  | <a href="#"><u>15.4</u></a>  | <a href="#"><u>Superficial geology (50k)</u></a>                      | 1                        | 0     | 1       | 2        | -         |
| <a href="#"><u>98</u></a>  | <a href="#"><u>15.5</u></a>  | <a href="#"><u>Superficial permeability (50k)</u></a>                 | Identified (within 50m)  |       |         |          |           |
| <a href="#"><u>98</u></a>  | <a href="#"><u>15.6</u></a>  | <a href="#"><u>Landslip (50k)</u></a>                                 | 0                        | 0     | 1       | 1        | -         |
| 98                         | 15.7                         | Landslip permeability (50k)                                           | None (within 50m)        |       |         |          |           |
| <a href="#"><u>99</u></a>  | <a href="#"><u>15.8</u></a>  | <a href="#"><u>Bedrock geology (50k)</u></a>                          | 1                        | 0     | 3       | 0        | -         |
| <a href="#"><u>100</u></a> | <a href="#"><u>15.9</u></a>  | <a href="#"><u>Bedrock permeability (50k)</u></a>                     | Identified (within 50m)  |       |         |          |           |
| <a href="#"><u>100</u></a> | <a href="#"><u>15.10</u></a> | <a href="#"><u>Bedrock faults and other linear features (50k)</u></a> | 0                        | 0     | 1       | 1        | -         |
| Page                       | Section                      | Boreholes                                                             | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| <a href="#"><u>101</u></a> | <a href="#"><u>16.1</u></a>  | <a href="#"><u>BGS Boreholes</u></a>                                  | 0                        | 0     | 2       | -        | -         |
| Page                       | Section                      | Natural ground subsidence                                             |                          |       |         |          |           |
| <a href="#"><u>102</u></a> | <a href="#"><u>17.1</u></a>  | <a href="#"><u>Shrink swell clays</u></a>                             | Negligible (within 50m)  |       |         |          |           |
| <a href="#"><u>103</u></a> | <a href="#"><u>17.2</u></a>  | <a href="#"><u>Running sands</u></a>                                  | Very low (within 50m)    |       |         |          |           |
| <a href="#"><u>104</u></a> | <a href="#"><u>17.3</u></a>  | <a href="#"><u>Compressible deposits</u></a>                          | Negligible (within 50m)  |       |         |          |           |
| <a href="#"><u>105</u></a> | <a href="#"><u>17.4</u></a>  | <a href="#"><u>Collapsible deposits</u></a>                           | Very low (within 50m)    |       |         |          |           |
| <a href="#"><u>106</u></a> | <a href="#"><u>17.5</u></a>  | <a href="#"><u>Landslides</u></a>                                     | Very low (within 50m)    |       |         |          |           |
| <a href="#"><u>107</u></a> | <a href="#"><u>17.6</u></a>  | <a href="#"><u>Ground dissolution of soluble rocks</u></a>            | Negligible (within 50m)  |       |         |          |           |
| Page                       | Section                      | Mining, ground workings and natural cavities                          | On site                  | 0-50m | 50-250m | 250-500m | 500-2000m |
| 109                        | 18.1                         | Natural cavities                                                      | 0                        | 0     | 0       | 0        | -         |
| <a href="#"><u>110</u></a> | <a href="#"><u>18.2</u></a>  | <a href="#"><u>BritPits</u></a>                                       | 0                        | 0     | 1       | 2        | -         |
| <a href="#"><u>110</u></a> | <a href="#"><u>18.3</u></a>  | <a href="#"><u>Surface ground workings</u></a>                        | 1                        | 1     | 21      | -        | -         |
| 111                        | 18.4                         | Underground workings                                                  | 0                        | 0     | 0       | 0        | 0         |
| 112                        | 18.5                         | Historical Mineral Planning Areas                                     | 0                        | 0     | 0       | 0        | -         |



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



## Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 0.02ha



## Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.02ha



## Recent site history - 2011 aerial photograph



Capture Date: 02/05/2011

Site Area: 0.02ha



## Recent site history - 2000 aerial photograph



Capture Date: 19/06/2000

Site Area: 0.02ha



## Recent site history - 1999 aerial photograph



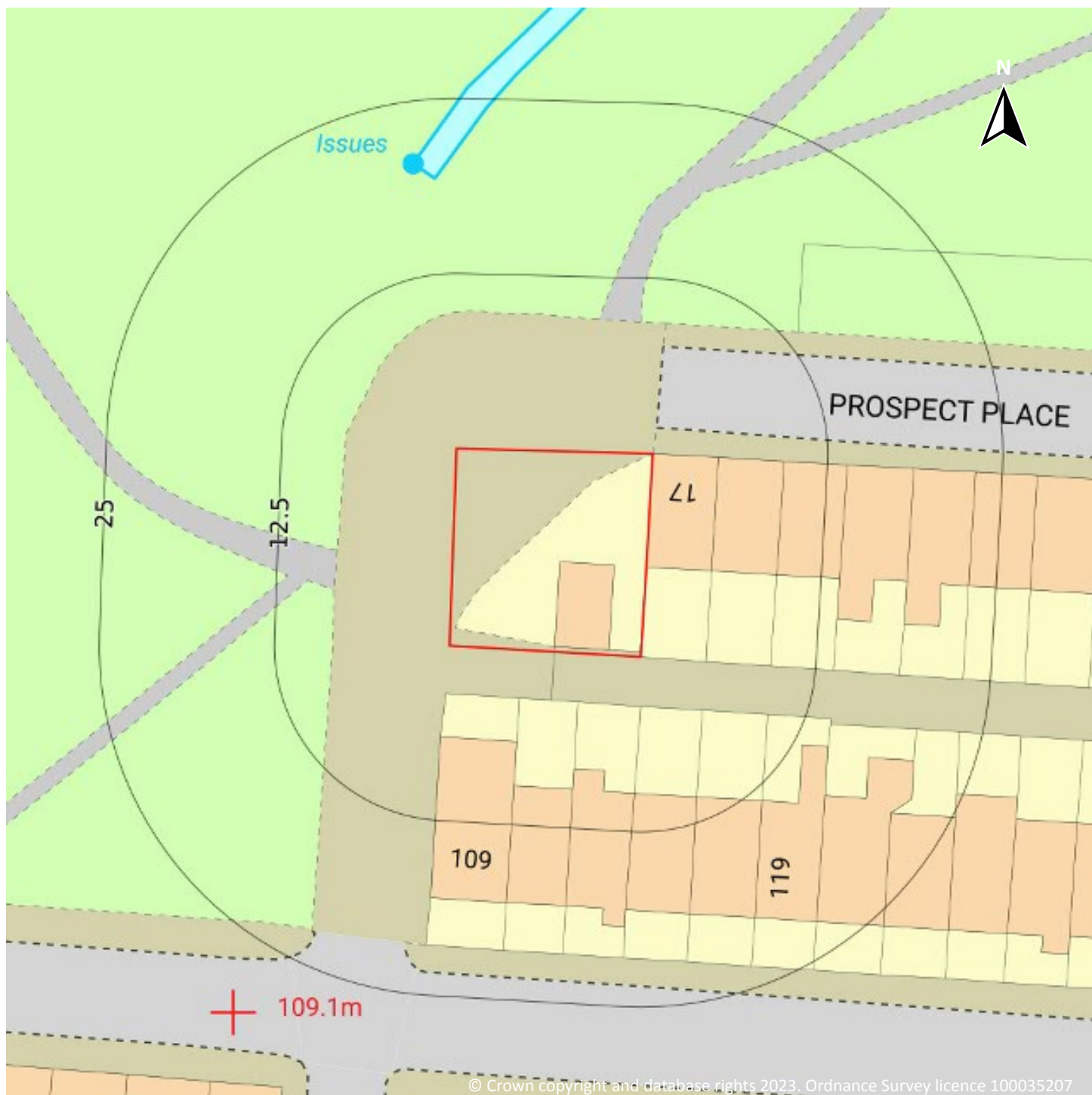
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Capture Date: 10/09/1999

Site Area: 0.02ha



## OS MasterMap site plan



Site Area: 0.02ha



## 1 Past land use



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

### 1.1 Historical industrial land uses

Records within 500m

90

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 14**

| ID | Location | Land use    | Dates present | Group ID |
|----|----------|-------------|---------------|----------|
| A  | On site  | Refuse Heap | 1909          | 677990   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| A  | 0m NW    | Unspecified Ground Workings       | 1938          | 648062   |
| B  | 68m SW   | Unspecified Mill                  | 1928          | 768377   |
| B  | 69m SW   | Unspecified Disused Mill          | 1890          | 675746   |
| B  | 70m SW   | Unspecified Mill                  | 1909          | 718051   |
| B  | 76m SW   | Unspecified Ground Workings       | 1968          | 648067   |
| C  | 98m SE   | Brick Yard                        | 1851          | 681784   |
| D  | 106m SE  | Unspecified Mill                  | 1890          | 657011   |
| D  | 122m SE  | Ground Workings                   | 1851          | 681864   |
| E  | 125m S   | Unspecified Mill                  | 1975 - 1987   | 715409   |
| E  | 128m S   | Unspecified Commercial/Industrial | 1968          | 643272   |
| E  | 128m S   | Unspecified Mill                  | 1949          | 695567   |
| E  | 130m S   | Unspecified Mill                  | 1928          | 768378   |
| E  | 134m S   | Unspecified Mill                  | 1992          | 787885   |
| E  | 134m S   | Cotton Mill                       | 1851          | 644456   |
| B  | 138m SW  | Cotton Mills                      | 1890          | 659319   |
| F  | 139m E   | Unspecified Mills                 | 1928          | 765674   |
| G  | 145m S   | Unspecified Works                 | 1987          | 679035   |
| E  | 167m S   | Unspecified Mill                  | 1938          | 767123   |
| E  | 170m S   | Unspecified Mill                  | 1909          | 771419   |
| B  | 181m SW  | Unspecified Mill                  | 1975 - 1992   | 744725   |
| B  | 181m SW  | Unspecified Commercial/Industrial | 1968          | 643271   |
| B  | 181m SW  | Unspecified Mill                  | 1949          | 744152   |
| F  | 184m E   | Unspecified Mill                  | 1890          | 701813   |
| B  | 185m SW  | Unspecified Mill                  | 1938          | 787576   |
| G  | 186m S   | Refuse Heap                       | 1909          | 677989   |
| B  | 187m SW  | Unspecified Mill                  | 1909 - 1928   | 752340   |
| 1  | 188m NE  | Unspecified Ground Workings       | 1992          | 648063   |
| F  | 190m E   | Unspecified Mills                 | 1909          | 768510   |



| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| F  | 190m E   | Unspecified Mills                 | 1968 - 1992   | 704476   |
| F  | 190m E   | Unspecified Mill                  | 1949          | 730399   |
| F  | 191m E   | Unspecified Mill                  | 1938          | 708740   |
| G  | 193m S   | Unspecified Ground Workings       | 1928          | 648068   |
| E  | 195m SW  | Unspecified Mill                  | 1928          | 790270   |
| F  | 232m E   | Unspecified Ground Workings       | 1890          | 648069   |
| J  | 239m NE  | Unspecified Ground Workings       | 1968 - 1987   | 704425   |
| J  | 239m NE  | Unspecified Ground Workings       | 1992          | 737153   |
| J  | 304m NE  | Unspecified Heap                  | 1928 - 1938   | 707764   |
| J  | 306m NE  | Unspecified Heap                  | 1949          | 758657   |
| L  | 312m E   | Unspecified Ground Workings       | 1928          | 733555   |
| J  | 352m NE  | Refuse Heap                       | 1975 - 1987   | 772997   |
| 4  | 359m SE  | Unspecified Pit                   | 1890          | 690988   |
| M  | 361m W   | Cotton Mills                      | 1890          | 659320   |
| N  | 362m NW  | Unspecified Works                 | 1968          | 679036   |
| 6  | 366m SE  | Sand Pits                         | 1851          | 664409   |
| L  | 374m E   | Chimney                           | 1968 - 1992   | 717336   |
| O  | 376m SE  | Leather Works                     | 1928 - 1938   | 756615   |
| L  | 377m E   | Unspecified Ground Workings       | 1987 - 1992   | 703815   |
| 8  | 387m SW  | Grave Yard                        | 1851          | 668134   |
| L  | 389m E   | Unspecified Pit                   | 1968 - 1992   | 695481   |
| P  | 395m SE  | Rope Walk                         | 1851          | 641249   |
| M  | 406m W   | Unspecified Mill                  | 1949          | 737659   |
| 9  | 415m S   | Unspecified Commercial/Industrial | 1851          | 643273   |
| O  | 418m SE  | Unspecified Works                 | 1992          | 726411   |
| O  | 418m SE  | Unspecified Works                 | 1987          | 784167   |
| O  | 419m SE  | Cotton Mill                       | 1851          | 644474   |
| O  | 421m SE  | Leather Works                     | 1909          | 751143   |

| ID | Location | Land use                          | Dates present | Group ID |
|----|----------|-----------------------------------|---------------|----------|
| O  | 423m SE  | Leather Works                     | 1949          | 780460   |
| O  | 424m SE  | Unspecified Works                 | 1968          | 718291   |
| O  | 424m SE  | Unspecified Works                 | 1975          | 774525   |
| M  | 427m SW  | Constabulary Station              | 1851          | 644971   |
| M  | 427m W   | Cotton Mill                       | 1851          | 739309   |
| 10 | 431m S   | Cotton Mill                       | 1851          | 644471   |
| P  | 432m SE  | Refuse Heap                       | 1851          | 677954   |
| Q  | 438m E   | Sand Pit                          | 1928          | 721471   |
| 11 | 438m S   | Cotton Mill                       | 1851          | 644472   |
| N  | 440m NW  | Unspecified Disused Mill          | 1949          | 675745   |
| Q  | 440m E   | Sand Pit                          | 1938 - 1949   | 730921   |
| R  | 446m SE  | Sand Pits                         | 1851          | 664408   |
| R  | 446m SE  | Unspecified Mills                 | 1890          | 757084   |
| M  | 453m W   | Unspecified Mill                  | 1938          | 726316   |
| N  | 454m NW  | Unspecified Mill                  | 1975          | 732392   |
| 12 | 458m SE  | Unspecified Mills                 | 1938          | 753816   |
| N  | 458m NW  | Unspecified Mill                  | 1987 - 1992   | 718190   |
| O  | 461m SE  | Tannery                           | 1987 - 1992   | 726106   |
| N  | 461m NW  | Unspecified Mill                  | 1928 - 1938   | 770257   |
| 13 | 465m NE  | Colliery                          | 1851          | 645259   |
| N  | 468m NW  | Unspecified Mill                  | 1968          | 718789   |
| O  | 469m SE  | Leather Works                     | 1890          | 752449   |
| M  | 471m W   | Unspecified Mill                  | 1928          | 735564   |
| U  | 471m E   | Unspecified Heap                  | 1851          | 650921   |
| O  | 472m SE  | Vale Mill                         | 1851          | 653298   |
| M  | 476m W   | Unspecified Commercial/Industrial | 1851          | 643122   |
| N  | 480m NW  | Cotton Mill                       | 1890 - 1908   | 709901   |
| M  | 481m W   | Unspecified Mill                  | 1987 - 1992   | 784892   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| R  | 482m SE  | Chimney          | 1851          | 684516   |
| U  | 487m E   | Coal Pit         | 1851          | 654364   |
| M  | 488m W   | Cotton Mill      | 1851          | 773813   |
| M  | 490m W   | Unspecified Tank | 1949          | 752596   |
| M  | 490m W   | Unspecified Tank | 1968 - 1975   | 757093   |

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

## 1.2 Historical tanks

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>36</b> |
|----------------------------|-----------|

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

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| B  | 113m SW  | Unspecified Tank | 1929 - 1937   | 94398    |
| D  | 132m SE  | Unspecified Tank | 1937          | 84255    |
| D  | 162m SE  | Tanks            | 1956 - 1985   | 97823    |
| I  | 219m NE  | Unspecified Tank | 1937          | 84254    |
| I  | 224m NE  | Unspecified Tank | 1956 - 1985   | 94671    |
| C  | 257m SE  | Unspecified Tank | 1890 - 1937   | 98153    |
| G  | 268m S   | Tanks            | 1930          | 87689    |
| C  | 302m SE  | Unspecified Tank | 1956          | 102506   |
| C  | 303m SE  | Unspecified Tank | 1956          | 97974    |
| L  | 354m E   | Unspecified Tank | 1956 - 1968   | 102797   |
| L  | 354m E   | Unspecified Tank | 1956          | 88867    |
| 7  | 369m S   | Tanks            | 1910 - 1930   | 96425    |
| L  | 377m E   | Tanks            | 1990          | 102605   |



| ID | Location | Land use         | Dates present | Group ID |
|----|----------|------------------|---------------|----------|
| L  | 378m E   | Tanks            | 1968 - 1992   | 102877   |
| O  | 431m SE  | Unspecified Tank | 1890          | 84265    |
| O  | 445m SE  | Tanks            | 1991          | 100808   |
| O  | 446m SE  | Tanks            | 1956 - 1974   | 100380   |
| O  | 447m SE  | Tanks            | 1985          | 93097    |
| O  | 453m SE  | Unspecified Tank | 1956 - 1991   | 93744    |
| R  | 471m SE  | Unspecified Tank | 1956          | 89615    |
| R  | 473m SE  | Unspecified Tank | 1929 - 1937   | 91906    |
| V  | 476m S   | Tanks            | 1974 - 1991   | 102272   |
| V  | 480m S   | Unspecified Tank | 1956          | 89756    |
| V  | 480m S   | Unspecified Tank | 1956          | 89856    |
| O  | 481m SE  | Tanks            | 1910          | 87691    |
| O  | 491m SE  | Unspecified Tank | 1967 - 1985   | 94372    |
| R  | 491m SE  | Unspecified Tank | 1890          | 84268    |
| V  | 492m SE  | Tanks            | 1974          | 87722    |
| V  | 493m SE  | Unspecified Tank | 1991          | 84264    |
| O  | 494m SE  | Unspecified Tank | 1890 - 1910   | 99566    |
| O  | 496m SE  | Unspecified Tank | 1985 - 1991   | 93180    |
| O  | 496m SE  | Unspecified Tank | 1956          | 101238   |
| O  | 496m SE  | Unspecified Tank | 1967          | 102754   |
| O  | 496m SE  | Unspecified Tank | 1974          | 103735   |
| O  | 496m SE  | Unspecified Tank | 1956          | 89753    |
| O  | 496m SE  | Unspecified Tank | 1968          | 103236   |

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



### 1.3 Historical energy features

Records within 500m

15

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

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use               | Dates present | Group ID |
|----|----------|------------------------|---------------|----------|
| B  | 176m SW  | Electricity Substation | 1956 - 1999   | 50473    |
| C  | 224m SE  | Electricity Substation | 1985          | 46698    |
| C  | 227m SE  | Electricity Substation | 1974 - 1991   | 51680    |
| 2  | 228m NW  | Electricity Substation | 1973 - 1990   | 47299    |
| K  | 278m E   | Electricity Substation | 1956 - 1968   | 54745    |
| K  | 278m E   | Electricity Substation | 1956          | 55358    |
| 3  | 308m SE  | Electricity Substation | 1985 - 1991   | 49342    |
| 5  | 365m S   | Electricity Substation | 1989 - 1999   | 48507    |
| L  | 394m E   | Electricity Substation | 1968 - 1992   | 50460    |
| M  | 450m W   | Electricity Substation | 1956 - 1973   | 50672    |
| M  | 470m W   | Electricity Substation | 1996 - 1999   | 56542    |
| M  | 471m W   | Electricity Substation | 1990 - 1995   | 55940    |
| S  | 491m S   | Electricity Substation | 1981 - 1999   | 46796    |
| R  | 495m SE  | Electricity Substation | 1956 - 1991   | 49472    |
| R  | 495m SE  | Electricity Substation | 1968          | 53172    |

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

### 1.4 Historical petrol stations

Records within 500m

0

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



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

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

## 1.5 Historical garages

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>19</b> |
|----------------------------|-----------|

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

Features are displayed on the Past land use map on **page 14**

| ID | Location | Land use                | Dates present | Group ID |
|----|----------|-------------------------|---------------|----------|
| G  | 196m SE  | Garage                  | 1991          | 16022    |
| H  | 208m W   | Garage                  | 1956 - 1985   | 19683    |
| H  | 208m W   | Garage                  | 1956 - 1990   | 18666    |
| G  | 227m S   | Garage                  | 1989          | 15169    |
| G  | 232m S   | Garage                  | 1968 - 1981   | 17540    |
| G  | 236m SE  | Garage                  | 1967 - 1974   | 19033    |
| G  | 250m S   | Garage                  | 1968 - 1999   | 19066    |
| G  | 250m S   | Garage                  | 1967          | 15390    |
| N  | 433m NW  | Garage                  | 1973          | 16503    |
| N  | 441m NW  | Garage                  | 1985          | 16470    |
| N  | 444m NW  | Motor Body Repair Works | 1973          | 14724    |
| N  | 458m NW  | Garage                  | 1990          | 16150    |
| S  | 460m S   | Garage                  | 1967          | 18818    |
| T  | 465m S   | Garage                  | 1967          | 17750    |
| T  | 466m S   | Garage                  | 1999          | 16673    |
| T  | 476m S   | Garage                  | 1981 - 1989   | 18900    |
| T  | 476m S   | Garage                  | 1956          | 18597    |
| T  | 477m S   | Garage                  | 1968          | 15821    |



| ID | Location | Land use | Dates present | Group ID |
|----|----------|----------|---------------|----------|
| S  | 481m S   | Garage   | 1956 - 1968   | 19661    |

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

## 1.6 Historical military land

**Records within 500m**

**0**

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

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



## 2 Past land use - un-grouped



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

### 2.1 Historical industrial land uses

Records within 500m

116

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 23**

| ID | Location | Land Use                    | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| A  | On site  | Refuse Heap                 | 1909 | 677990   |
| A  | 0m NW    | Unspecified Ground Workings | 1938 | 648062   |
| B  | 68m SW   | Unspecified Mill            | 1928 | 768377   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| B  | 69m SW   | Unspecified Disused Mill          | 1890 | 675746   |
| B  | 70m SW   | Unspecified Mill                  | 1909 | 718051   |
| B  | 76m SW   | Unspecified Ground Workings       | 1968 | 648067   |
| C  | 98m SE   | Brick Yard                        | 1851 | 681784   |
| C  | 106m SE  | Unspecified Mill                  | 1890 | 657011   |
| C  | 122m SE  | Ground Workings                   | 1851 | 681864   |
| D  | 125m S   | Unspecified Mill                  | 1987 | 715409   |
| D  | 125m S   | Unspecified Mill                  | 1975 | 715409   |
| D  | 128m S   | Unspecified Mill                  | 1949 | 695567   |
| D  | 128m S   | Unspecified Commercial/Industrial | 1968 | 643272   |
| D  | 130m S   | Unspecified Mill                  | 1928 | 768378   |
| D  | 134m S   | Unspecified Mill                  | 1992 | 787885   |
| D  | 134m S   | Cotton Mill                       | 1851 | 644456   |
| B  | 138m SW  | Cotton Mills                      | 1890 | 659319   |
| E  | 139m E   | Unspecified Mills                 | 1928 | 765674   |
| F  | 145m S   | Unspecified Works                 | 1987 | 679035   |
| D  | 167m S   | Unspecified Mill                  | 1938 | 767123   |
| D  | 170m S   | Unspecified Mill                  | 1909 | 771419   |
| B  | 181m SW  | Unspecified Mill                  | 1992 | 744725   |
| B  | 181m SW  | Unspecified Mill                  | 1987 | 744725   |
| B  | 181m SW  | Unspecified Mill                  | 1975 | 744725   |
| B  | 181m SW  | Unspecified Mill                  | 1949 | 744152   |
| B  | 181m SW  | Unspecified Commercial/Industrial | 1968 | 643271   |
| E  | 184m E   | Unspecified Mill                  | 1890 | 701813   |
| B  | 185m SW  | Unspecified Mill                  | 1938 | 787576   |
| F  | 186m S   | Refuse Heap                       | 1909 | 677989   |
| B  | 187m SW  | Unspecified Mill                  | 1928 | 752340   |
| B  | 187m SW  | Unspecified Mill                  | 1909 | 752340   |



| ID | Location | Land Use                    | Date | Group ID |
|----|----------|-----------------------------|------|----------|
| 1  | 188m NE  | Unspecified Ground Workings | 1992 | 648063   |
| E  | 190m E   | Unspecified Mills           | 1909 | 768510   |
| E  | 190m E   | Unspecified Mills           | 1992 | 704476   |
| E  | 190m E   | Unspecified Mills           | 1987 | 704476   |
| E  | 190m E   | Unspecified Mills           | 1975 | 704476   |
| E  | 190m E   | Unspecified Mill            | 1949 | 730399   |
| E  | 190m E   | Unspecified Mills           | 1968 | 704476   |
| E  | 191m E   | Unspecified Mill            | 1938 | 708740   |
| F  | 193m S   | Unspecified Ground Workings | 1928 | 648068   |
| D  | 195m SW  | Unspecified Mill            | 1928 | 790270   |
| E  | 232m E   | Unspecified Ground Workings | 1890 | 648069   |
| J  | 239m NE  | Unspecified Ground Workings | 1992 | 737153   |
| J  | 239m NE  | Unspecified Ground Workings | 1987 | 704425   |
| J  | 239m NE  | Unspecified Ground Workings | 1975 | 704425   |
| J  | 239m NE  | Unspecified Ground Workings | 1968 | 704425   |
| J  | 304m NE  | Unspecified Heap            | 1938 | 707764   |
| J  | 304m NE  | Unspecified Heap            | 1928 | 707764   |
| J  | 306m NE  | Unspecified Heap            | 1949 | 758657   |
| M  | 312m E   | Unspecified Ground Workings | 1928 | 733555   |
| J  | 352m NE  | Refuse Heap                 | 1987 | 772997   |
| J  | 352m NE  | Refuse Heap                 | 1975 | 772997   |
| 2  | 359m SE  | Unspecified Pit             | 1890 | 690988   |
| N  | 361m W   | Cotton Mills                | 1890 | 659320   |
| O  | 362m NW  | Unspecified Works           | 1968 | 679036   |
| 3  | 366m SE  | Sand Pits                   | 1851 | 664409   |
| M  | 374m E   | Chimney                     | 1992 | 717336   |
| M  | 374m E   | Chimney                     | 1987 | 717336   |
| M  | 374m E   | Chimney                     | 1975 | 717336   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| M  | 374m E   | Chimney                           | 1968 | 717336   |
| R  | 376m SE  | Leather Works                     | 1928 | 756615   |
| R  | 377m SE  | Leather Works                     | 1938 | 756615   |
| M  | 377m E   | Unspecified Ground Workings       | 1992 | 703815   |
| M  | 377m E   | Unspecified Ground Workings       | 1987 | 703815   |
| 4  | 387m SW  | Grave Yard                        | 1851 | 668134   |
| M  | 389m E   | Unspecified Pit                   | 1992 | 695481   |
| M  | 389m E   | Unspecified Pit                   | 1987 | 695481   |
| M  | 389m E   | Unspecified Pit                   | 1975 | 695481   |
| M  | 389m E   | Unspecified Pit                   | 1968 | 695481   |
| S  | 395m SE  | Rope Walk                         | 1851 | 641249   |
| N  | 406m W   | Unspecified Mill                  | 1949 | 737659   |
| 5  | 415m S   | Unspecified Commercial/Industrial | 1851 | 643273   |
| R  | 418m SE  | Unspecified Works                 | 1992 | 726411   |
| R  | 418m SE  | Unspecified Works                 | 1987 | 784167   |
| R  | 419m SE  | Cotton Mill                       | 1851 | 644474   |
| R  | 421m SE  | Leather Works                     | 1909 | 751143   |
| R  | 423m SE  | Leather Works                     | 1949 | 780460   |
| R  | 424m SE  | Unspecified Works                 | 1975 | 774525   |
| R  | 424m SE  | Unspecified Works                 | 1968 | 718291   |
| N  | 427m SW  | Constabulary Station              | 1851 | 644971   |
| N  | 427m W   | Cotton Mill                       | 1851 | 739309   |
| 6  | 431m S   | Cotton Mill                       | 1851 | 644471   |
| S  | 432m SE  | Refuse Heap                       | 1851 | 677954   |
| T  | 438m E   | Sand Pit                          | 1928 | 721471   |
| 7  | 438m S   | Cotton Mill                       | 1851 | 644472   |
| O  | 440m NW  | Unspecified Disused Mill          | 1949 | 675745   |
| T  | 440m E   | Sand Pit                          | 1938 | 730921   |



| ID | Location | Land Use                          | Date | Group ID |
|----|----------|-----------------------------------|------|----------|
| T  | 441m E   | Sand Pit                          | 1949 | 730921   |
| U  | 446m SE  | Sand Pits                         | 1851 | 664408   |
| U  | 446m SE  | Unspecified Mills                 | 1890 | 757084   |
| N  | 453m W   | Unspecified Mill                  | 1938 | 726316   |
| O  | 454m NW  | Unspecified Mill                  | 1975 | 732392   |
| 8  | 458m SE  | Unspecified Mills                 | 1938 | 753816   |
| O  | 458m NW  | Unspecified Mill                  | 1992 | 718190   |
| O  | 458m NW  | Unspecified Mill                  | 1987 | 718190   |
| R  | 461m SE  | Tannery                           | 1992 | 726106   |
| R  | 461m SE  | Tannery                           | 1987 | 726106   |
| O  | 461m NW  | Unspecified Mill                  | 1938 | 770257   |
| O  | 461m NW  | Unspecified Mill                  | 1928 | 770257   |
| 9  | 465m NE  | Colliery                          | 1851 | 645259   |
| O  | 468m NW  | Unspecified Mill                  | 1968 | 718789   |
| R  | 469m SE  | Leather Works                     | 1890 | 752449   |
| N  | 471m W   | Unspecified Mill                  | 1928 | 735564   |
| X  | 471m E   | Unspecified Heap                  | 1851 | 650921   |
| R  | 472m SE  | Vale Mill                         | 1851 | 653298   |
| N  | 476m W   | Unspecified Commercial/Industrial | 1851 | 643122   |
| O  | 480m NW  | Cotton Mill                       | 1890 | 709901   |
| N  | 481m W   | Unspecified Mill                  | 1992 | 784892   |
| N  | 481m W   | Unspecified Mill                  | 1987 | 784892   |
| U  | 482m SE  | Chimney                           | 1851 | 684516   |
| O  | 485m NW  | Cotton Mill                       | 1908 | 709901   |
| X  | 487m E   | Coal Pit                          | 1851 | 654364   |
| N  | 488m W   | Cotton Mill                       | 1851 | 773813   |
| N  | 490m W   | Unspecified Tank                  | 1975 | 757093   |
| N  | 490m W   | Unspecified Tank                  | 1949 | 752596   |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| N  | 490m W   | Unspecified Tank | 1968 | 757093   |

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

## 2.2 Historical tanks

|                            |           |
|----------------------------|-----------|
| <b>Records within 500m</b> | <b>70</b> |
|----------------------------|-----------|

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

Features are displayed on the Past land use - un-grouped map on **page 23**

| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| B  | 113m SW  | Unspecified Tank | 1929 | 94398    |
| B  | 113m SW  | Unspecified Tank | 1937 | 94398    |
| C  | 132m SE  | Unspecified Tank | 1937 | 84255    |
| C  | 162m SE  | Tanks            | 1985 | 97823    |
| C  | 162m SE  | Tanks            | 1967 | 97823    |
| C  | 162m SE  | Tanks            | 1956 | 97823    |
| C  | 162m SE  | Tanks            | 1974 | 97823    |
| C  | 162m SE  | Tanks            | 1956 | 97823    |
| C  | 162m SE  | Tanks            | 1968 | 97823    |
| H  | 219m NE  | Unspecified Tank | 1937 | 84254    |
| H  | 224m NE  | Unspecified Tank | 1956 | 94671    |
| H  | 224m NE  | Unspecified Tank | 1973 | 94671    |
| H  | 224m NE  | Unspecified Tank | 1985 | 94671    |
| H  | 225m NE  | Unspecified Tank | 1956 | 94671    |
| C  | 257m SE  | Unspecified Tank | 1890 | 98153    |
| C  | 257m SE  | Unspecified Tank | 1910 | 98153    |
| C  | 257m SE  | Unspecified Tank | 1929 | 98153    |
| C  | 257m SE  | Unspecified Tank | 1937 | 98153    |
| F  | 268m S   | Tanks            | 1930 | 87689    |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| C  | 302m SE  | Unspecified Tank | 1956 | 102506   |
| C  | 303m SE  | Unspecified Tank | 1956 | 97974    |
| M  | 354m E   | Unspecified Tank | 1968 | 102797   |
| M  | 354m E   | Unspecified Tank | 1956 | 102797   |
| M  | 354m E   | Unspecified Tank | 1956 | 88867    |
| Q  | 369m S   | Tanks            | 1910 | 96425    |
| Q  | 369m S   | Tanks            | 1930 | 96425    |
| M  | 377m E   | Tanks            | 1990 | 102605   |
| M  | 378m E   | Tanks            | 1968 | 102877   |
| M  | 379m E   | Tanks            | 1992 | 102877   |
| R  | 431m SE  | Unspecified Tank | 1890 | 84265    |
| R  | 445m SE  | Tanks            | 1991 | 100808   |
| R  | 446m SE  | Tanks            | 1956 | 100380   |
| R  | 446m SE  | Tanks            | 1968 | 100380   |
| R  | 446m SE  | Tanks            | 1967 | 100380   |
| R  | 446m SE  | Tanks            | 1956 | 100380   |
| R  | 446m SE  | Tanks            | 1974 | 100380   |
| R  | 447m SE  | Tanks            | 1985 | 93097    |
| R  | 453m SE  | Unspecified Tank | 1956 | 93744    |
| R  | 453m SE  | Unspecified Tank | 1968 | 93744    |
| R  | 453m SE  | Unspecified Tank | 1967 | 93744    |
| R  | 453m SE  | Unspecified Tank | 1956 | 93744    |
| R  | 453m SE  | Unspecified Tank | 1974 | 93744    |
| R  | 453m SE  | Unspecified Tank | 1985 | 93744    |
| R  | 453m SE  | Unspecified Tank | 1991 | 93744    |
| U  | 471m SE  | Unspecified Tank | 1956 | 89615    |
| U  | 472m SE  | Unspecified Tank | 1956 | 89615    |
| U  | 473m SE  | Unspecified Tank | 1929 | 91906    |



| ID | Location | Land Use         | Date | Group ID |
|----|----------|------------------|------|----------|
| U  | 473m SE  | Unspecified Tank | 1937 | 91906    |
| Y  | 476m S   | Tanks            | 1974 | 102272   |
| Y  | 476m S   | Tanks            | 1985 | 102272   |
| Y  | 476m S   | Tanks            | 1991 | 102272   |
| Y  | 480m S   | Unspecified Tank | 1956 | 89756    |
| Y  | 480m S   | Unspecified Tank | 1956 | 89856    |
| R  | 481m SE  | Tanks            | 1910 | 87691    |
| R  | 491m SE  | Unspecified Tank | 1968 | 94372    |
| U  | 491m SE  | Unspecified Tank | 1890 | 84268    |
| R  | 492m SE  | Unspecified Tank | 1985 | 94372    |
| R  | 492m SE  | Unspecified Tank | 1967 | 94372    |
| R  | 492m SE  | Unspecified Tank | 1974 | 94372    |
| Y  | 492m SE  | Tanks            | 1974 | 87722    |
| Y  | 493m SE  | Unspecified Tank | 1991 | 84264    |
| R  | 494m SE  | Unspecified Tank | 1890 | 99566    |
| R  | 494m SE  | Unspecified Tank | 1910 | 99566    |
| R  | 496m SE  | Unspecified Tank | 1985 | 93180    |
| R  | 496m SE  | Unspecified Tank | 1991 | 93180    |
| R  | 496m SE  | Unspecified Tank | 1967 | 102754   |
| R  | 496m SE  | Unspecified Tank | 1956 | 101238   |
| R  | 496m SE  | Unspecified Tank | 1974 | 103735   |
| R  | 496m SE  | Unspecified Tank | 1956 | 89753    |
| R  | 496m SE  | Unspecified Tank | 1968 | 103236   |

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



## 2.3 Historical energy features

### Records within 500m

**42**

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

Features are displayed on the Past land use - un-grouped map on **page 23**

| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| B  | 176m SW  | Electricity Substation | 1999 | 50473    |
| B  | 177m SW  | Electricity Substation | 1956 | 50473    |
| B  | 177m SW  | Electricity Substation | 1967 | 50473    |
| B  | 177m SW  | Electricity Substation | 1956 | 50473    |
| B  | 177m SW  | Electricity Substation | 1956 | 50473    |
| B  | 177m SW  | Electricity Substation | 1989 | 50473    |
| B  | 177m SW  | Electricity Substation | 1968 | 50473    |
| B  | 177m SW  | Electricity Substation | 1981 | 50473    |
| C  | 224m SE  | Electricity Substation | 1985 | 46698    |
| C  | 227m SE  | Electricity Substation | 1991 | 51680    |
| I  | 228m NW  | Electricity Substation | 1985 | 47299    |
| C  | 228m SE  | Electricity Substation | 1974 | 51680    |
| I  | 229m NW  | Electricity Substation | 1973 | 47299    |
| I  | 229m NW  | Electricity Substation | 1990 | 47299    |
| K  | 278m E   | Electricity Substation | 1968 | 54745    |
| K  | 278m E   | Electricity Substation | 1956 | 54745    |
| K  | 278m E   | Electricity Substation | 1956 | 55358    |
| L  | 308m SE  | Electricity Substation | 1985 | 49342    |
| L  | 308m SE  | Electricity Substation | 1991 | 49342    |
| P  | 365m S   | Electricity Substation | 1999 | 48507    |
| P  | 365m S   | Electricity Substation | 1989 | 48507    |
| M  | 394m E   | Electricity Substation | 1990 | 50460    |
| M  | 395m E   | Electricity Substation | 1968 | 50460    |



| ID | Location | Land Use               | Date | Group ID |
|----|----------|------------------------|------|----------|
| M  | 396m E   | Electricity Substation | 1992 | 50460    |
| N  | 450m W   | Electricity Substation | 1956 | 50672    |
| N  | 450m W   | Electricity Substation | 1956 | 50672    |
| N  | 450m W   | Electricity Substation | 1973 | 50672    |
| N  | 470m W   | Electricity Substation | 1996 | 56542    |
| N  | 470m W   | Electricity Substation | 1998 | 56542    |
| N  | 470m W   | Electricity Substation | 1999 | 56542    |
| N  | 471m W   | Electricity Substation | 1995 | 55940    |
| N  | 471m W   | Electricity Substation | 1990 | 55940    |
| V  | 491m S   | Electricity Substation | 1989 | 46796    |
| V  | 492m S   | Electricity Substation | 1999 | 46796    |
| V  | 492m S   | Electricity Substation | 1981 | 46796    |
| U  | 495m SE  | Electricity Substation | 1956 | 49472    |
| U  | 495m SE  | Electricity Substation | 1974 | 49472    |
| U  | 495m SE  | Electricity Substation | 1967 | 49472    |
| U  | 495m SE  | Electricity Substation | 1968 | 53172    |
| U  | 495m SE  | Electricity Substation | 1985 | 49472    |
| U  | 495m SE  | Electricity Substation | 1991 | 49472    |
| U  | 496m SE  | Electricity Substation | 1956 | 49472    |

*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

**32**

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 23**

| ID | Location | Land Use                | Date | Group ID |
|----|----------|-------------------------|------|----------|
| F  | 196m SE  | Garage                  | 1991 | 16022    |
| G  | 208m W   | Garage                  | 1985 | 19683    |
| G  | 208m W   | Garage                  | 1956 | 19683    |
| G  | 208m W   | Garage                  | 1973 | 18666    |
| G  | 208m W   | Garage                  | 1990 | 18666    |
| G  | 209m W   | Garage                  | 1956 | 18666    |
| F  | 227m S   | Garage                  | 1989 | 15169    |
| F  | 232m S   | Garage                  | 1981 | 17540    |
| F  | 235m SE  | Garage                  | 1968 | 17540    |
| F  | 236m SE  | Garage                  | 1967 | 19033    |
| F  | 236m SE  | Garage                  | 1974 | 19033    |
| F  | 250m S   | Garage                  | 1968 | 19066    |
| F  | 250m S   | Garage                  | 1967 | 15390    |
| F  | 254m S   | Garage                  | 1999 | 19066    |
| O  | 433m NW  | Garage                  | 1973 | 16503    |
| O  | 441m NW  | Garage                  | 1985 | 16470    |
| O  | 444m NW  | Motor Body Repair Works | 1973 | 14724    |
| O  | 458m NW  | Garage                  | 1990 | 16150    |
| V  | 460m S   | Garage                  | 1967 | 18818    |
| V  | 460m S   | Garage                  | 1967 | 18818    |
| W  | 465m S   | Garage                  | 1967 | 17750    |
| W  | 465m S   | Garage                  | 1967 | 17750    |
| W  | 466m S   | Garage                  | 1999 | 16673    |

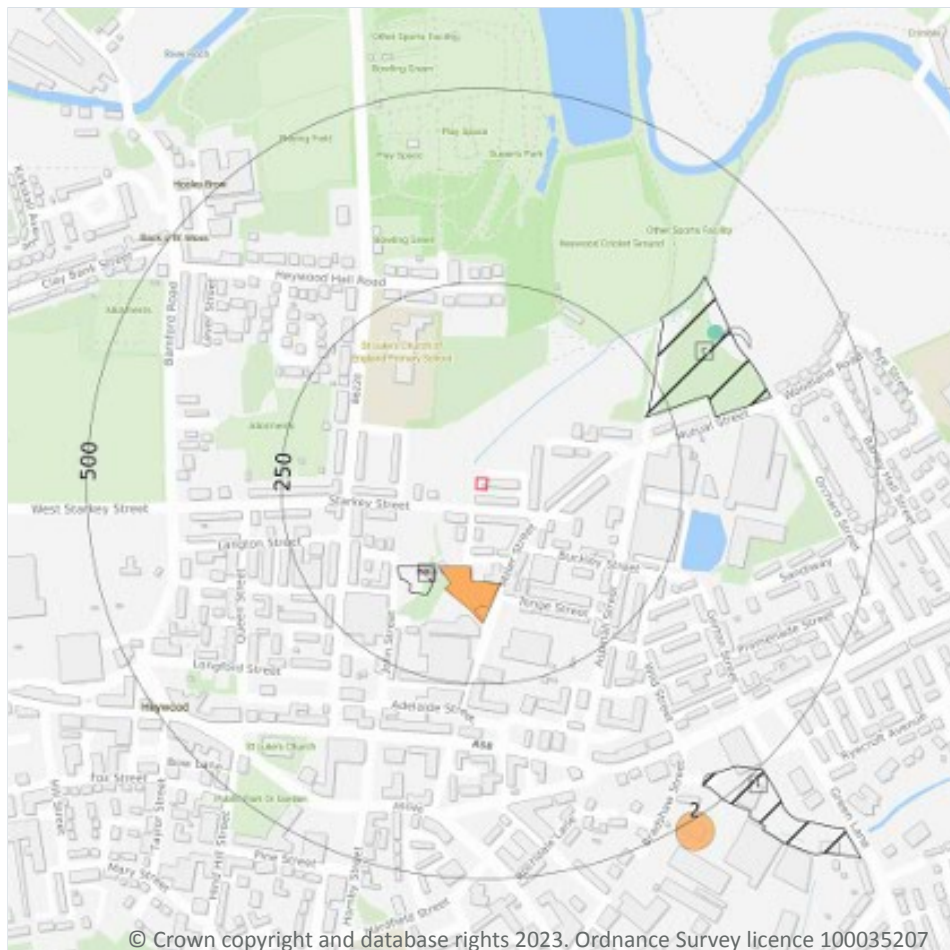


| ID | Location | Land Use | Date | Group ID |
|----|----------|----------|------|----------|
| W  | 476m S   | Garage   | 1981 | 18900    |
| W  | 476m S   | Garage   | 1956 | 18597    |
| W  | 476m S   | Garage   | 1956 | 18597    |
| W  | 477m S   | Garage   | 1989 | 18900    |
| W  | 477m S   | Garage   | 1968 | 15821    |
| V  | 481m S   | Garage   | 1956 | 19661    |
| V  | 481m S   | Garage   | 1956 | 19661    |
| V  | 481m S   | Garage   | 1956 | 19661    |
| V  | 481m S   | Garage   | 1968 | 19661    |

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



## 3 Waste and landfill



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

### 3.1 Active or recent landfill

Records within 500m

0

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

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

### 3.2 Historical landfill (BGS records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on **page 35**

| ID | Location | Address                           | BGS Number | Risk               | Waste Type |
|----|----------|-----------------------------------|------------|--------------------|------------|
| C  | 346m NE  | Rear of Mutual St, Heywood, Lancs | 135        | No risk to aquifer | N/A        |

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

### 3.3 Historical landfill (LA/mapping records)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>3</b> |
|----------------------------|----------|

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

Features are displayed on the Waste and landfill map on **page 35**

| ID | Location | Site address | Source       | Data type |
|----|----------|--------------|--------------|-----------|
| B  | 115m SW  | Refuse Tip   | 1967 mapping | Polygon   |
| B  | 115m SW  | Refuse Tip   | 1967 mapping | Polygon   |
| C  | 352m NE  | Refuse Tip   | 1967 mapping | Polygon   |

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

### 3.4 Historical landfill (EA/NRW records)

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>2</b> |
|----------------------------|----------|

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 35**

| ID | Location | Details                                                              |                                                                                                                                                                                                        |                                                                                                                                     |
|----|----------|----------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| C  | 217m E   | Site Address: Mutual Street,<br>Heywood<br>Licence Holder Address: - | Waste Licence: Yes<br>Site Reference: D053,<br>RD/LIC/323/83<br>Waste Type: Inert<br>Environmental Permitting<br>Regulations (Waste) Reference: -<br>Licence Issue: 03/05/1984<br>Licence Surrender: - | Operator: Mutual Mills Limited<br>Licence Holder: Mutual Mills<br>Limited<br>First Recorded 31/12/1882<br>Last Recorded: 31/12/1986 |



| ID | Location | Details                                                                                                         |                                                                                                                                                                                             |                                                                                                                                                             |
|----|----------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 463m SE  | Site Address: Roe Acre Mill,<br>Rochdale Road East, Heywood,<br>Greater Manchester<br>Licence Holder Address: - | Waste Licence: -<br>Site Reference: D121, 0786<br>Waste Type: Inert, Commercial<br>Environmental Permitting<br>Regulations (Waste) Reference: -<br>Licence Issue: -<br>Licence Surrender: - | Operator: Rochdale Canal Company<br>Licence Holder: Roe Acre Dye and<br>Finishing Company Limited<br>First Recorded 01/05/1972<br>Last Recorded: 31/08/1992 |

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

### 3.5 Historical waste sites

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>4</b> |
|----------------------------|----------|

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 35**

| ID | Location | Address                                                                                                       | Further Details                                                                                                                                                                                                                                                                                                                                                                                        | Date       |
|----|----------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| A  | 100m S   | Site Address: N/A                                                                                             | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                             | 1999       |
| A  | 100m S   | Site Address: N/A                                                                                             | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                             | 1999       |
| A  | 100m S   | Site Address: N/A                                                                                             | Type of Site: Scrap Yard<br>Planning application reference: N/A<br>Description: N/A<br>Data source: Historic Mapping<br>Data Type: Polygon                                                                                                                                                                                                                                                             | 1989       |
| 2  | 488m SE  | Site Address: Silvester House, Bradshaw Street,<br>Roe Acre Tannery, HEYWOOD, Greater<br>Manchester, OL10 1PN | Type of Site: Recycling Centre (Conversion)<br>Planning application reference: 08/D50670<br>Description: Scheme comprises change of use<br>from industrial yard/tannery to waste recycling<br>centre. An application (ref: 08/D50670) for<br>detailed planning permission was granted by<br>Rochdale B.C. Planning decision obtained<br>Data source: Historic Planning Application<br>Data Type: Point | 21/02/2009 |

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



### 3.6 Licensed waste sites

Records within 500m

0

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

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

### 3.7 Waste exemptions

Records within 500m

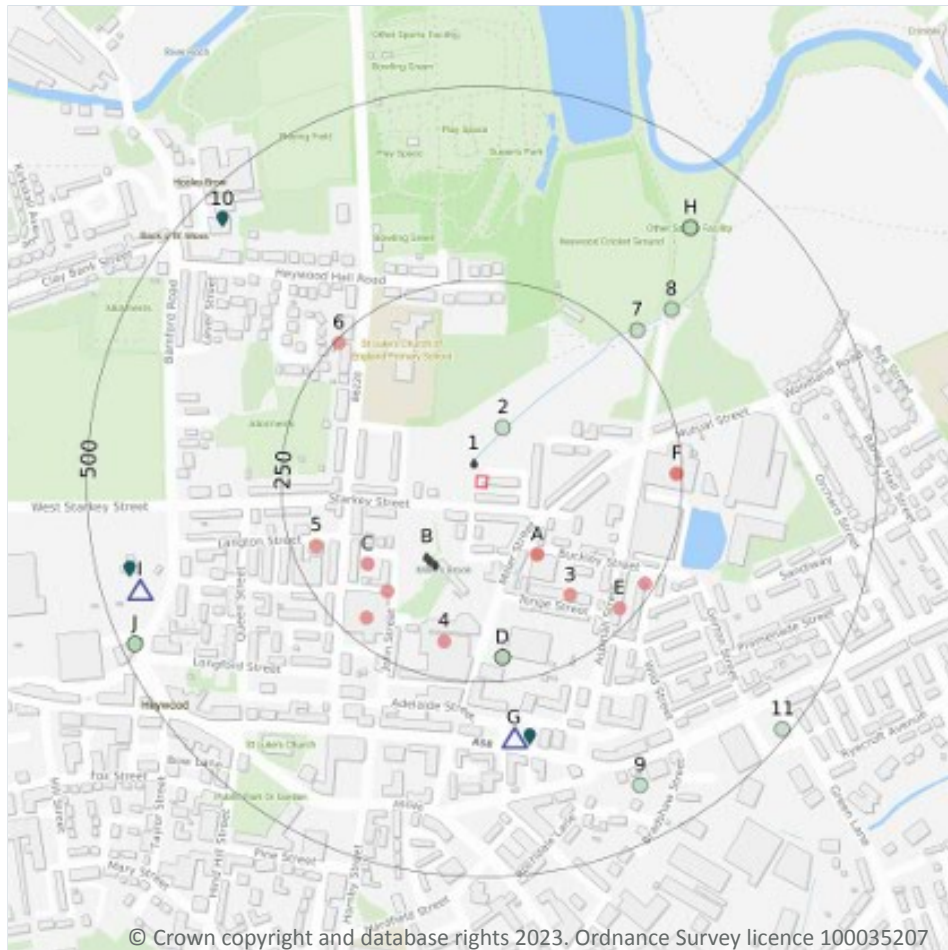
0

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.

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



## 4 Current industrial land use



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

### 4.1 Recent industrial land uses

Records within 250m

13

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  | 108m SE  | Frank Blakeley & Son Ltd | Poor Peg Mill, Buckley Street, Heywood, Greater Manchester, OL10 4HZ | General Construction Supplies         | Industrial Products |
| A  | 108m SE  | Blakeley Design & Press  | Poor Peg Mill, Buckley Street, Heywood, Greater Manchester, OL10 4HZ | Textiles, Fabrics, Silk and Machinery | Industrial Products |

| ID | Location | Company                 | Address                                                                  | Activity                              | Category                        |
|----|----------|-------------------------|--------------------------------------------------------------------------|---------------------------------------|---------------------------------|
| C  | 171m SW  | 1st Floor Flooring      | 5, Millers Brook Close, Heywood, Greater Manchester, OL10 4HS            | Construction Completion Services      | Construction Services           |
| 3  | 175m SE  | Iseeu CCTV Security     | 23, Tonge Street, Heywood, Greater Manchester, OL10 4HU                  | Electronic Equipment                  | Industrial Products             |
| C  | 176m SW  | Electricity Sub Station | Greater Manchester, OL10                                                 | Electrical Features                   | Infrastructure and Facilities   |
| 4  | 202m S   | Robert Scott            | Millers Brook Mill, Miller Street, Heywood, Greater Manchester, OL10 4HJ | Cleaning Equipment and Supplies       | Industrial Products             |
| 5  | 219m W   | Park Garage             | Langton Street, Heywood, Greater Manchester, OL10 4LH                    | Vehicle Repair, Testing and Servicing | Repair and Servicing            |
| C  | 219m SW  | Quarry Manufacturing    | Willow Street Mill, Willow Street, Heywood, Greater Manchester, OL10 4LJ | Textiles, Fabrics, Silk and Machinery | Industrial Products             |
| E  | 230m SE  | F M S                   | 64, Aspinall Street, Heywood, Greater Manchester, OL10 4HN               | Vehicle Repair, Testing and Servicing | Repair and Servicing            |
| E  | 238m SE  | Electricity Sub Station | Greater Manchester, OL10                                                 | Electrical Features                   | Infrastructure and Facilities   |
| F  | 243m E   | Mutual Mills Ltd        | Aspinall Street, Heywood, Greater Manchester, OL10 4HP                   | Container and Storage                 | Transport, Storage and Delivery |
| F  | 243m E   | Adelaide Engineering    | Aspinall Street, Heywood, Greater Manchester, OL10 4HP                   | Industrial Engineers                  | Engineering Services            |
| 6  | 246m NW  | Electricity Sub Station | Greater Manchester, OL10                                                 | 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 |
|----|----------|-----------|---------------------------------------------------------------------|-----|--------|
| G  | 323m S   | ESSO      | York Street, Adelaide Street, Heywood, Greater Manchester, OL10 4HQ | No  | Open   |
| I  | 452m W   | MORRISONS | Bamford Road, Heywood, Greater Manchester, OL10 4PU                 | No  | Open   |



*This data is sourced from Experian.*

### 4.3 Electricity cables

**Records within 500m**

**0**

High voltage underground electricity transmission cables.

*This data is sourced from National Grid.*

### 4.4 Gas pipelines

**Records within 500m**

**0**

High pressure underground gas transmission pipelines.

*This data is sourced from National Grid.*

### 4.5 Sites determined as Contaminated Land

**Records within 500m**

**0**

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

*This data is sourced from Local Authority records.*

### 4.6 Control of Major Accident Hazards (COMAH)

**Records within 500m**

**0**

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

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

### 4.7 Regulated explosive sites

**Records within 500m**

**0**

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

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



## 4.8 Hazardous substance storage/usage

Records within 500m

0

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

*This data is sourced from Local Authority records.*

## 4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

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

Records within 500m

0

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

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

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

Records within 500m

3

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

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

| ID | Location | Address                                                                                    | Details                                                                                                        |                                                                                                                             |
|----|----------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| G  | 324m S   | Tesco Petrol Station, Roe Acre Service Station, York Street, Heywood, Lancashire, OL10 4HQ | Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |
| I  | 457m W   | Morrisons Petrol Station, 2 Dawson Street, Heywood, Lancashire, OL10 4ND                   | Process: Unloading of Petrol into Storage at Service Stations<br>Status: Current Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |



| ID | Location | Address                                                            | Details                                                                        |                                                                                                                             |
|----|----------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| 10 | 464m NW  | S. Carlick & Sons Ltd, River Street, Heywood, Lancashire, OL10 4AB | Process: Coating Processes<br>Status: Historical Permit<br>Permit Type: Part B | Enforcement: No Enforcements Notified<br>Date of enforcement: No Enforcements Notified<br>Comment: No Enforcements Notified |

*This data is sourced from Local Authority records.*

## 4.12 Radioactive Substance Authorisations

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

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

|                            |          |
|----------------------------|----------|
| <b>Records within 500m</b> | <b>4</b> |
|----------------------------|----------|

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

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

| ID | Location | Address                                                                      | Details                                                                                                                                                            |                                                                                                                                                                |
|----|----------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 16m NW   | JOHN STREET CSO 35020, 31 JOHN STREET, HEYWOOD, GREATER MANCHESTER, OL10 4LL | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 016993768<br>Permit Version: 1<br>Receiving Water: MILLERS BROOK         | Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995)<br>Issue date: 20/01/2006<br>Effective Date: 20/01/2006<br>Revocation Date: 03/06/2018 |
| B  | 110m SW  | JOHN STREET CSO 35020, 31 JOHN STREET, HEYWOOD, GREATER MANCHESTER, OL10 4LL | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 01ROC0034<br>Permit Version: 1<br>Receiving Water: MILLERS BROOK         | Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1))<br>Issue date: 01/01/1995<br>Effective Date: 01/01/1995<br>Revocation Date: 19/01/2006         |
| B  | 111m SW  | JOHN STREET CSO 35020, 31 JOHN STREET, HEYWOOD, GREATER MANCHESTER, OL10 4LL | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 016993768<br>Permit Version: 2<br>Receiving Water: MILLERS BROOK VIA SWS | Status: VARIED UNDER EPR 2010<br>Issue date: 04/06/2018<br>Effective Date: 04/06/2018<br>Revocation Date: -                                                    |



| ID | Location | Address                                                             | Details                                                                                                                                                    |                                                                                                                                             |
|----|----------|---------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| B  | 113m SW  | HEYWOOD SSO, JOHN STREET/WILLOW STREET, HEYWOOD, GREATER MANCHESTER | Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY<br>Permit Number: 016950219<br>Permit Version: 1<br>Receiving Water: MILLERS BROOK | Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY)<br>Issue date: -<br>Effective Date: 31/07/1981<br>Revocation Date: - |

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

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

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

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

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

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

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

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

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

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

**13**

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                                                                                                                                                                                                           |                                                                                                               |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 2  | 65m N    | Incident Date: 16/07/2002<br>Incident Identification: 91999<br>Pollutant: Oils and Fuel<br>Pollutant Description: Mixed/Waste Oils                                                                                | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| D  | 219m S   | Incident Date: 18/01/2002<br>Incident Identification: 53309<br>Pollutant: Inert Materials and Wastes:Specific Waste Materials<br>Pollutant Description: Construction and Demolition Materials and Wastes:Asbestos | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| D  | 219m S   | Incident Date: 18/01/2002<br>Incident Identification: 53309<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes                                   | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| D  | 219m S   | Incident Date: 18/01/2002<br>Incident Identification: 53309<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Asbestos                                                                             | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 7  | 268m NE  | Incident Date: 08/03/2001<br>Incident Identification: 97<br>Pollutant: Oils and Fuel<br>Pollutant Description: Diesel                                                                                             | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor)     |
| 8  | 318m NE  | Incident Date: 22/07/2002<br>Incident Identification: 93458<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Tyres                                                                                | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| H  | 412m NE  | Incident Date: 15/05/2001<br>Incident Identification: 5583<br>Pollutant: Specific Waste Materials<br>Pollutant Description: Household Waste                                                                       | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| H  | 412m NE  | Incident Date: 15/05/2001<br>Incident Identification: 5583<br>Pollutant: General Biodegradable Materials and Wastes<br>Pollutant Description: Vegetable Cuttings and Deposits                                     | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |



| ID | Location | Details                                                                                                                                                                                                                  |                                                                                                               |
|----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| H  | 412m NE  | Incident Date: 15/05/2001<br>Incident Identification: 5583<br>Pollutant: General Biodegradable Materials and Wastes: Specific Waste Materials<br>Pollutant Description: Vegetable Cuttings and Deposits: Household Waste | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |
| 9  | 430m SE  | Incident Date: 29/01/2003<br>Incident Identification: 133895<br>Pollutant: Oils and Fuel<br>Pollutant Description: Cutting Oils                                                                                          | Water Impact: Category 3 (Minor)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 4 (No Impact) |
| J  | 482m SW  | Incident Date: 19/03/2002<br>Incident Identification: 64960<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                                                             | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| J  | 482m SW  | Incident Date: 08/03/2002<br>Incident Identification: 62617<br>Pollutant: Atmospheric Pollutants and Effects<br>Pollutant Description: Smoke                                                                             | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 4 (No Impact)<br>Air Impact: Category 3 (Minor) |
| 11 | 490m SE  | Incident Date: 09/01/2002<br>Incident Identification: 51428<br>Pollutant: Inert Materials and Wastes<br>Pollutant Description: Construction and Demolition Materials and Wastes                                          | Water Impact: Category 4 (No Impact)<br>Land Impact: Category 3 (Minor)<br>Air Impact: Category 4 (No Impact) |

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

## 4.19 Pollution inventory substances

### 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

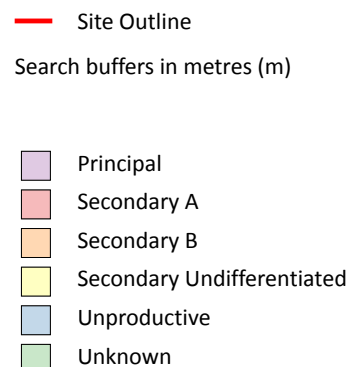
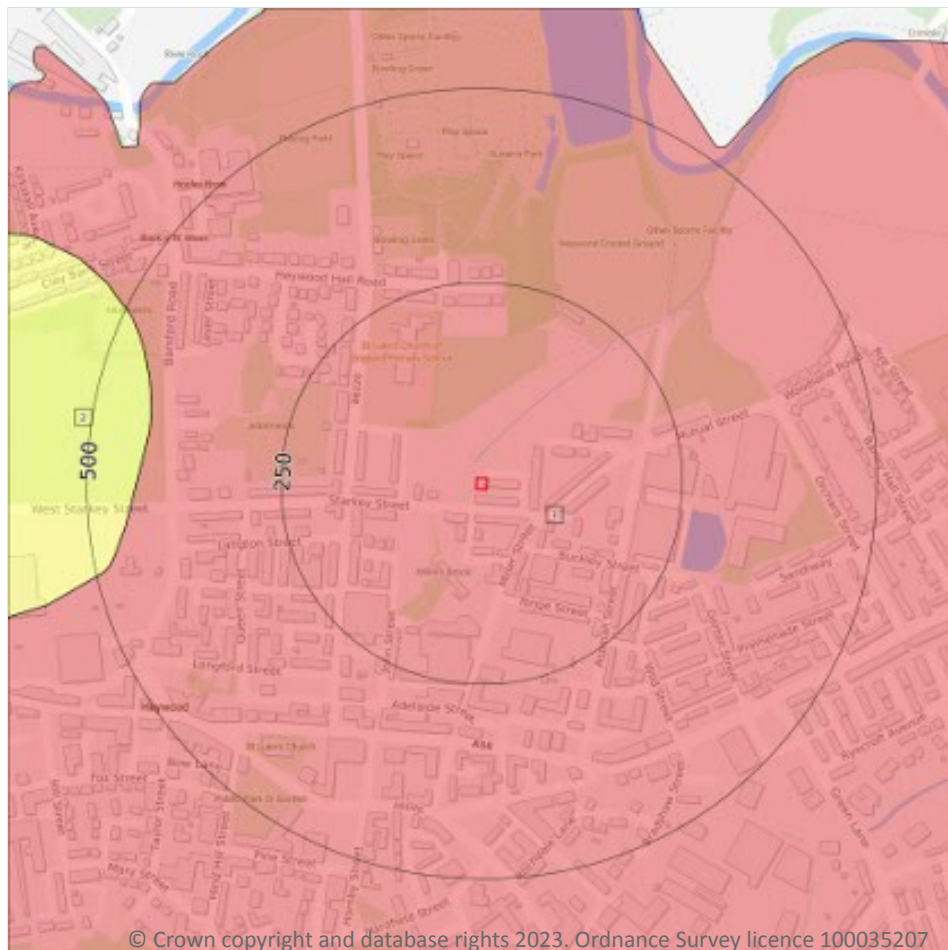
0

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



### 5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

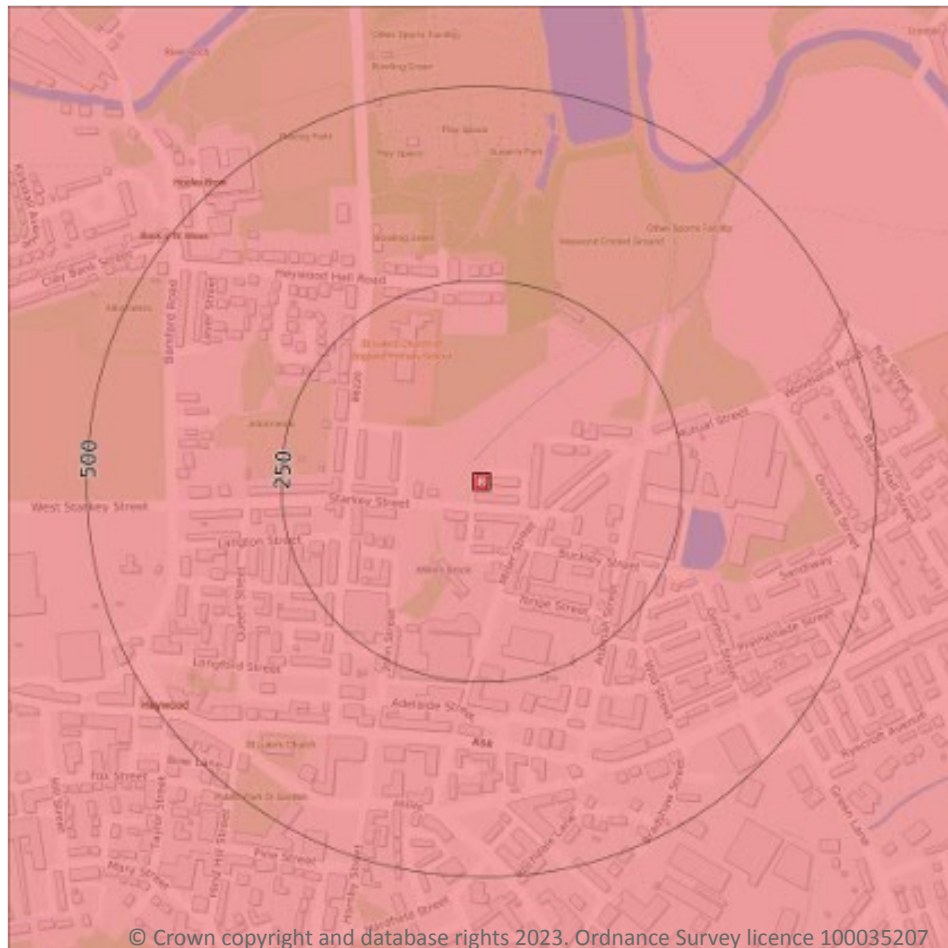
Features are displayed on the Hydrogeology map on **page 48**

| ID | Location | Designation                | Description                                                                                                                                                                                                                                             |
|----|----------|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary A                | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers                  |
| 2  | 424m W   | Secondary Undifferentiated | Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type |

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



## Bedrock aquifer



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

### 5.2 Bedrock aquifer

#### Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

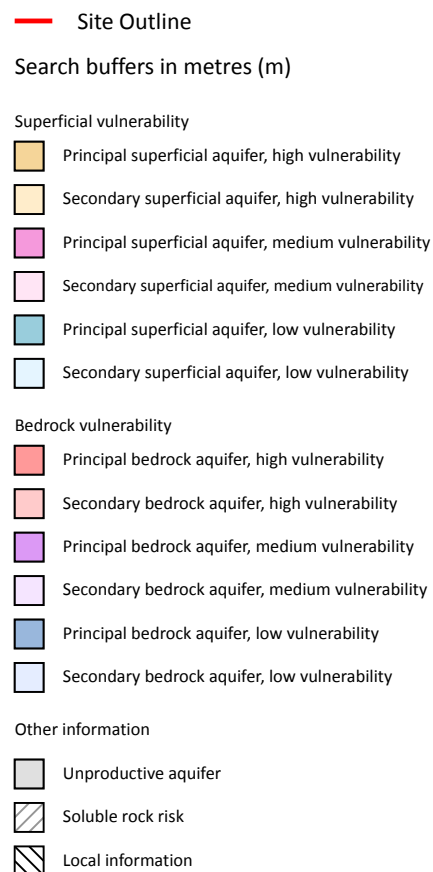
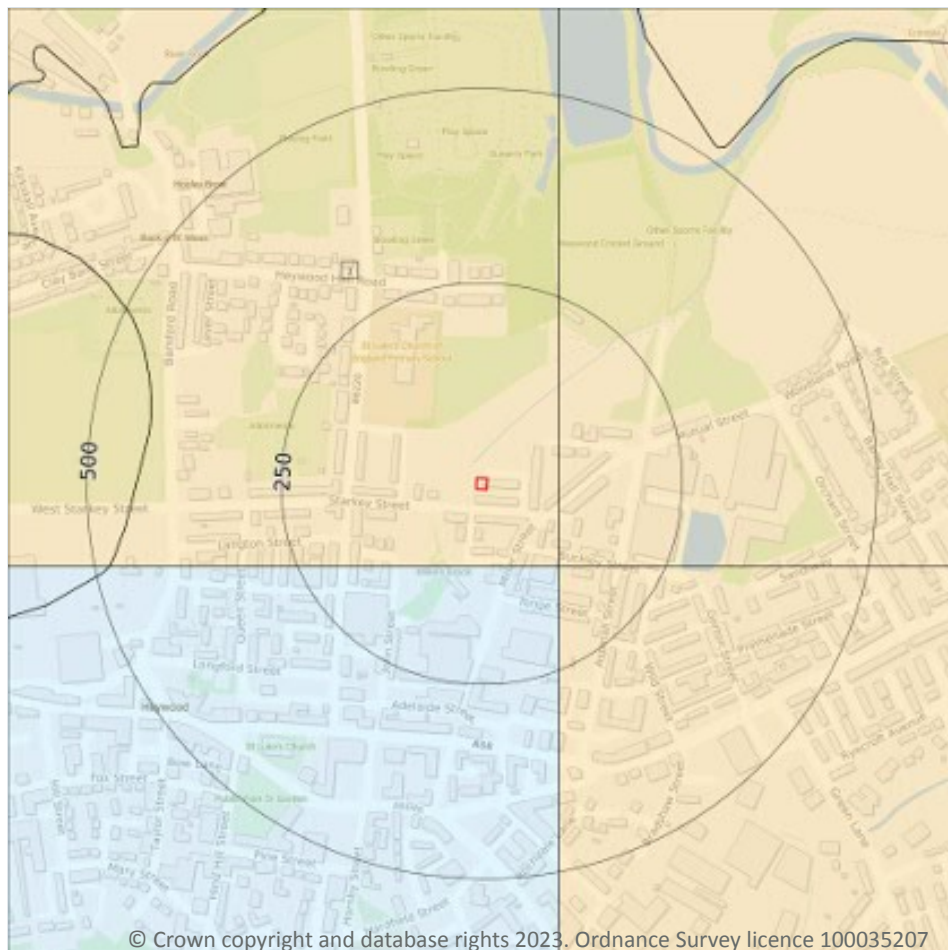
Features are displayed on the Bedrock aquifer map on **page 50**

| ID | Location | Designation | Description                                                                                                                                                                                                                            |
|----|----------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | Secondary A | Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers |

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



## Groundwater vulnerability



### 5.3 Groundwater vulnerability

#### Records within 50m

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  | <b>Summary Classification:</b><br>Secondary superficial aquifer<br>- High Vulnerability<br><b>Combined classification:</b><br>Productive Bedrock Aquifer,<br>Productive Superficial<br>Aquifer | <b>Leaching class:</b> High<br><b>Infiltration value:</b><br>>70%<br><b>Dilution value:</b><br>>550mm/year | <b>Vulnerability:</b> High<br><b>Aquifer type:</b> Secondary<br><b>Thickness:</b> 3-10m<br><b>Patchiness value:</b> <90%<br><b>Recharge potential:</b> Low | <b>Vulnerability:</b> High<br><b>Aquifer type:</b><br>Secondary<br><b>Flow mechanism:</b> Well<br>connected fractures |

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

## 5.4 Groundwater vulnerability- soluble rock risk

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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.*

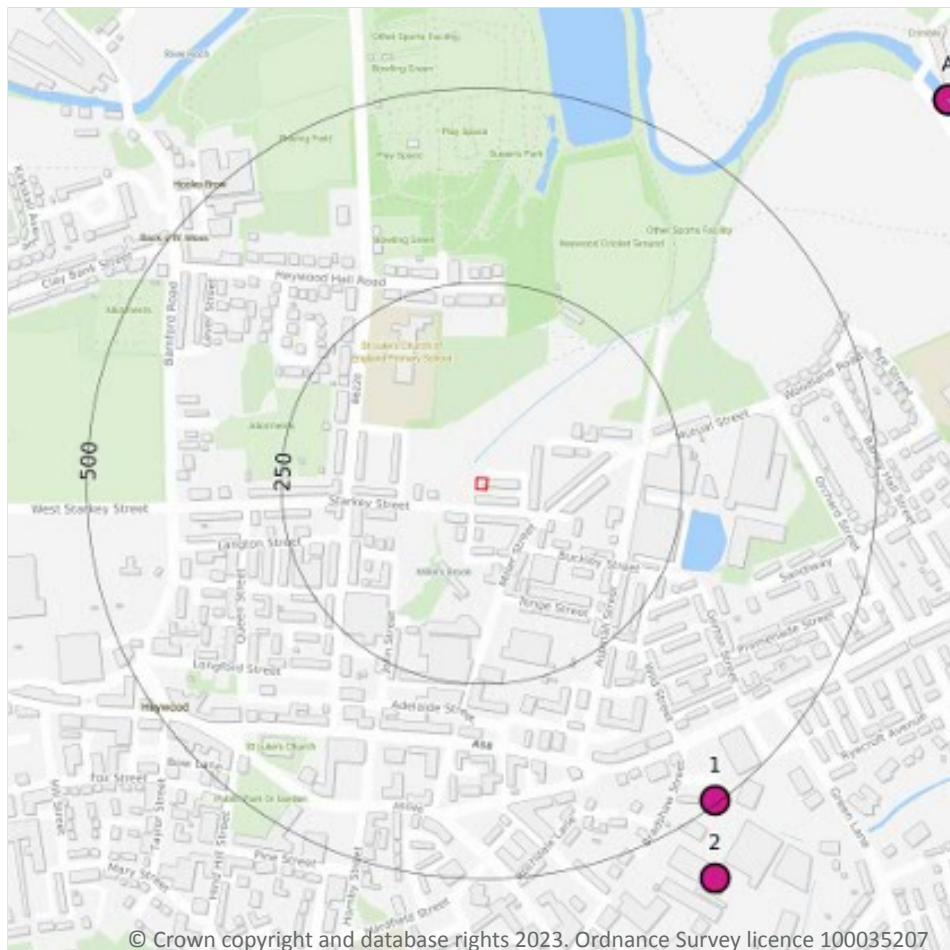
## 5.5 Groundwater vulnerability- local information

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>0</b> |
|------------------------|----------|

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

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

## Abstractions and Source Protection Zones



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

### 5.6 Groundwater abstractions

Records within 2000m

17

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                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                          |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | 495m SE  | Status: Historical<br>Licence No: 2569002082<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLES (2) AT PREMISES, ROEACRE TANNERY, HEYWOOD<br>Data Type: Point<br>Name: G. S. COLD STORAGE AND WAREHOUSING LTD.<br>Easting: 386200<br>Northing: 410700      | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/01/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 22/12/2000<br>Version End Date: - |
| 2  | 578m SE  | Status: Historical<br>Licence No: 2569002082<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLES (2) AT PREMISES, ROEACRE TANNERY, HEYWOOD, L97<br>Data Type: Point<br>Name: G. S. COLD STORAGE AND WAREHOUSING LTD.<br>Easting: 386200<br>Northing: 410600 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 18/01/1966<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 22/12/2000<br>Version End Date: - |
| A  | 766m NE  | Status: Historical<br>Licence No: 2569002037<br>Details: Boiler Feed<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD"<br>Data Type: Point<br>Name: ROE ACRE DYEING & FELTING CO LTD<br>Easting: 386500<br>Northing: 411600                     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 20/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/1993<br>Version End Date: - |
| A  | 766m NE  | Status: Historical<br>Licence No: 2569002037<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD"<br>Data Type: Point<br>Name: ROE ACRE DYEING & FELTING CO LTD<br>Easting: 386500<br>Northing: 411600                   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 20/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/1993<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                          |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A  | 766m NE  | Status: Historical<br>Licence No: 2569002037<br>Details: Process water<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD<br>Data Type: Point<br>Name: K.SHAW & COMPANY LTD.<br>Easting: 386500<br>Northing: 411600                                         | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 20/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/10/2002<br>Version End Date: - |
| A  | 766m NE  | Status: Historical<br>Licence No: 2569002037<br>Details: Boiler Feed<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, CRIMBLE MILLS,HEYWOOD<br>Data Type: Point<br>Name: K.SHAW & COMPANY LTD.<br>Easting: 386500<br>Northing: 411600                                           | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 20/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/10/2002<br>Version End Date: - |
| -  | 1161m SE | Status: Historical<br>Licence No: 2569002029<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD"<br>Data Type: Point<br>Name: OAK BREWING COMPANY LTD<br>Easting: 386500<br>Northing: 410100 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 16/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 15/11/1990<br>Version End Date: - |
| -  | 1161m SE | Status: Historical<br>Licence No: 2569002029<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD<br>Data Type: Point<br>Name: OAK BREWING COMPANY LTD<br>Easting: 386500<br>Northing: 410100   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 16/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 15/11/1990<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                          |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1161m SE | Status: Active<br>Licence No: 2569002029<br>Details: General Cooling (Existing Licences Only) (Low Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD<br>Data Type: Point<br>Name: OAK BREWING COMPANY LTD<br>Easting: 386500<br>Northing: 410100                 | Annual Volume (m <sup>3</sup> ): 79,645.92<br>Max Daily Volume (m <sup>3</sup> ): 218.21<br>Original Application No: 0203<br>Original Start Date: 16/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 15/11/1990<br>Version End Date: - |
| -  | 1198m SE | Status: Historical<br>Licence No: 2569002257<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT GREEN LANE, HEYWOOD<br>Data Type: Point<br>Name: TARMAC TOPMIX LTD<br>Easting: 386700<br>Northing: 410200                        | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 28/06/1993<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 28/06/1993<br>Version End Date: -                 |
| -  | 1289m N  | Status: Historical<br>Licence No: 2569002217<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "BOREHOLE AT BUTTERWORTH FOLD FARM, BAMFORD, ROCHDALE"<br>Data Type: Point<br>Name: JAMES SWALLOW LTD<br>Easting: 385800<br>Northing: 412400 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/09/1980<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/09/1980<br>Version End Date: -                 |
| -  | 1289m N  | Status: Historical<br>Licence No: 2569002217<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT BUTTERWORTH FOLD FARM, BAMFORD, ROCHDALE<br>Data Type: Point<br>Name: JAMES SWALLOW LTD<br>Easting: 385800<br>Northing: 412400   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 22/09/1980<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 22/09/1980<br>Version End Date: -                 |

| ID | Location | Details                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                         |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1289m N  | Status: Active<br>Licence No: 2569002217<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: BOREHOLE AT BUTTERWORTH FOLD FARM BAMFORD ROCHDALE<br>Data Type: Point<br>Name: JAMES SWALLOW LTD<br>Easting: 385800<br>Northing: 412400 | Annual Volume (m <sup>3</sup> ): 33,185.80<br>Max Daily Volume (m <sup>3</sup> ): 90.92<br>Original Application No: 2563<br>Original Start Date: 22/09/1980<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 01/04/2007<br>Version End Date: - |
| -  | 1908m N  | Status: Historical<br>Licence No: 2569002180<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE"<br>Data Type: Point<br>Name: BLACKBOROUGH<br>Easting: 385600<br>Northing: 413000         | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 21/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/02/1966<br>Version End Date: -                |
| -  | 1908m N  | Status: Historical<br>Licence No: 2569002183<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: "WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE"<br>Data Type: Point<br>Name: MILLS<br>Easting: 385600<br>Northing: 413000                | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 21/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/02/1966<br>Version End Date: -                |
| -  | 1908m N  | Status: Historical<br>Licence No: 2569002180<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE<br>Data Type: Point<br>Name: BLACKBOROUGH<br>Easting: 385600<br>Northing: 413000           | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 21/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/02/1966<br>Version End Date: -                |

| ID | Location | Details                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                          |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1908m N  | Status: Historical<br>Licence No: 2569002183<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Ground Water - North West Region<br>Point: WELL AT MOOR EDGE FARM, BAMFORD, ROCHDALE<br>Data Type: Point<br>Name: MILLS<br>Easting: 385600<br>Northing: 413000 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 21/02/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/02/1966<br>Version End Date: - |

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

## 5.7 Surface water abstractions

|                             |           |
|-----------------------------|-----------|
| <b>Records within 2000m</b> | <b>12</b> |
|-----------------------------|-----------|

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                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                 |
|----|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| B  | 766m NE  | Status: Historical<br>Licence No: 2569002270<br>Details: Boiler Feed<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: RIVER ROCH AT HEYWOOD<br>Data Type: Line<br>Name: ROE ACRE DYEING & FELTING CO LTD<br>Easting: 386620<br>Northing: 411500   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: -<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 17/06/1999<br>Version End Date: - |
| B  | 766m NE  | Status: Historical<br>Licence No: 2569002270<br>Details: Process water<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: RIVER ROCH AT HEYWOOD<br>Data Type: Line<br>Name: ROE ACRE DYEING & FELTING CO LTD<br>Easting: 386620<br>Northing: 411500 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: -<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 17/06/1999<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                        |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1237m NW | Status: Historical<br>Licence No: 2569002255<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD 112<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385360<br>Northing: 412230       | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 12/02/1993<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 10/10/2000<br>Version End Date: -               |
| -  | 1237m NW | Status: Historical<br>Licence No: 2569002255<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD \$112"<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385360<br>Northing: 412230 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 12/02/1993<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 10/10/2000<br>Version End Date: -               |
| -  | 1237m NW | Status: Historical<br>Licence No: 2569002255<br>Details: General use relating to Secondary Category (Medium Loss)<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD \$112<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385360<br>Northing: 412230     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 12/02/1993<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 10/10/2000<br>Version End Date: -               |
| -  | 1237m NW | Status: Active<br>Licence No: 2569002255<br>Details: General Use Relating To Secondary Category (Medium Loss)<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: NADEN BROOK AT SIMPSON CLOUGH, HEYWOOD<br>Data Type: Point<br>Name: UNION PAPERTECH LIMITED<br>Easting: 385360<br>Northing: 412230        | Annual Volume (m <sup>3</sup> ): 2,136,620<br>Max Daily Volume (m <sup>3</sup> ): 6,219<br>Original Application No: 949<br>Original Start Date: 12/02/1993<br>Expiry Date: -<br>Issue No: 102<br>Version Start Date: 13/08/2007<br>Version End Date: - |

| ID | Location | Details                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                          |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1416m NW | Status: Historical<br>Licence No: 2569002166<br>Details: Process water<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD"<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385300<br>Northing: 412400 | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 24/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/2001<br>Version End Date: - |
| -  | 1416m NW | Status: Historical<br>Licence No: 2569002166<br>Details: Boiler Feed<br>Direct Source: "Surface, Non-Tidal - North West Region"<br>Point: "CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD"<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385300<br>Northing: 412400   | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 24/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/2001<br>Version End Date: - |
| -  | 1416m NW | Status: Historical<br>Licence No: 2569002166<br>Details: Boiler Feed<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385300<br>Northing: 412400       | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 24/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/2001<br>Version End Date: - |
| -  | 1416m NW | Status: Historical<br>Licence No: 2569002166<br>Details: Process water<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: CHEESDEN BRK AT SIMPSON CLOUGH, HEYWOOD<br>Data Type: Point<br>Name: J R CROMPTON LTD<br>Easting: 385300<br>Northing: 412400     | Annual Volume (m <sup>3</sup> ): -<br>Max Daily Volume (m <sup>3</sup> ): -<br>Original Application No: -<br>Original Start Date: 24/01/1966<br>Expiry Date: -<br>Issue No: 100<br>Version Start Date: 21/05/2001<br>Version End Date: - |



| ID | Location | Details                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                            |
|----|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -  | 1416m NW | Status: Active<br>Licence No: 2569002166<br>Details: Process Water<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: CHEESDEN BROOK AT SIMPSON CLOUGH<br>HEYWOOD<br>Data Type: Point<br>Name: UNION PAPERTECH LIMITED<br>Easting: 385300<br>Northing: 412400 | Annual Volume (m <sup>3</sup> ): 2,136,620<br>Max Daily Volume (m <sup>3</sup> ): 12,437.86<br>Original Application No: 949<br>Original Start Date: 24/01/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 13/08/2007<br>Version End Date: - |
| -  | 1416m NW | Status: Active<br>Licence No: 2569002166<br>Details: Boiler Feed<br>Direct Source: Surface, Non-Tidal - North West Region<br>Point: CHEESDEN BROOK AT SIMPSON CLOUGH<br>HEYWOOD<br>Data Type: Point<br>Name: UNION PAPERTECH LIMITED<br>Easting: 385300<br>Northing: 412400   | Annual Volume (m <sup>3</sup> ): 2,136,620<br>Max Daily Volume (m <sup>3</sup> ): 12,437.86<br>Original Application No: 949<br>Original Start Date: 24/01/1966<br>Expiry Date: -<br>Issue No: 101<br>Version Start Date: 13/08/2007<br>Version End Date: - |

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

## 5.8 Potable abstractions

|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

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

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

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

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



## 5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



## 6 Hydrology



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

### 6.1 Water Network (OS MasterMap)

#### Records within 250m

2

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          |
|----|----------|-----------------------------------------------------|--------------|-----------------------------------------------------------------|---------------|
| 1  | 13m NW   | Inland river not influenced by normal tidal action. | Underground  | Watercourse contains water year round (in normal circumstances) | Millers Brook |



| ID | Location | Type of water feature                               | Ground level      | Permanence                                                      | Name          |
|----|----------|-----------------------------------------------------|-------------------|-----------------------------------------------------------------|---------------|
| 3  | 19m N    | Inland river not influenced by normal tidal action. | On ground surface | Watercourse contains water year round (in normal circumstances) | Millers Brook |

*This data is sourced from the Ordnance Survey.*

## 6.2 Surface water features

|                            |          |
|----------------------------|----------|
| <b>Records within 250m</b> | <b>1</b> |
|----------------------------|----------|

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.

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

*This data is sourced from the Ordnance Survey.*

## 6.3 WFD Surface water body catchments

|                        |          |
|------------------------|----------|
| <b>Records on site</b> | <b>1</b> |
|------------------------|----------|

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 |
|----|----------|-------|--------------------------|----------------|-----------------------|----------------------|
| A  | On site  | River | Roch (Spodden to Irwell) | GB112069064600 | Roch Irk Medlock      | Irwell               |

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

## 6.4 WFD Surface water bodies

|                           |          |
|---------------------------|----------|
| <b>Records identified</b> | <b>1</b> |
|---------------------------|----------|

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



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

| ID | Location | Type  | Name                     | Water body ID         | Overall rating | Chemical rating | Ecological rating | Year |
|----|----------|-------|--------------------------|-----------------------|----------------|-----------------|-------------------|------|
| 4  | 20m N    | River | Roch (Spodden to Irwell) | <u>GB112069064600</u> | 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 |
|----|----------|--------------------------------------------|-----------------------|----------------|-----------------|--------------|------|
| A  | On site  | Northern Manchester Carboniferous Aquifers | <u>GB41202G101800</u> | Poor           | Poor            | Good         | 2019 |

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



## 7 River and coastal flooding

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

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

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

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

### 7.2 Historical Flood Events

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

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

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

### 7.3 Flood Defences

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

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

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



## 7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

## 7.5 Flood Storage Areas

Records within 250m

0

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

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



## River and coastal flooding - Flood Zones



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

### 7.6 Flood Zone 2

#### Records within 50m

1

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.

Features are displayed on the River and coastal flooding map on **page 66**

| Location | Type                             |
|----------|----------------------------------|
| 20m N    | Zone 2 - (Fluvial /Tidal Models) |

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

## 7.7 Flood Zone 3

### Records within 50m

**1**

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.

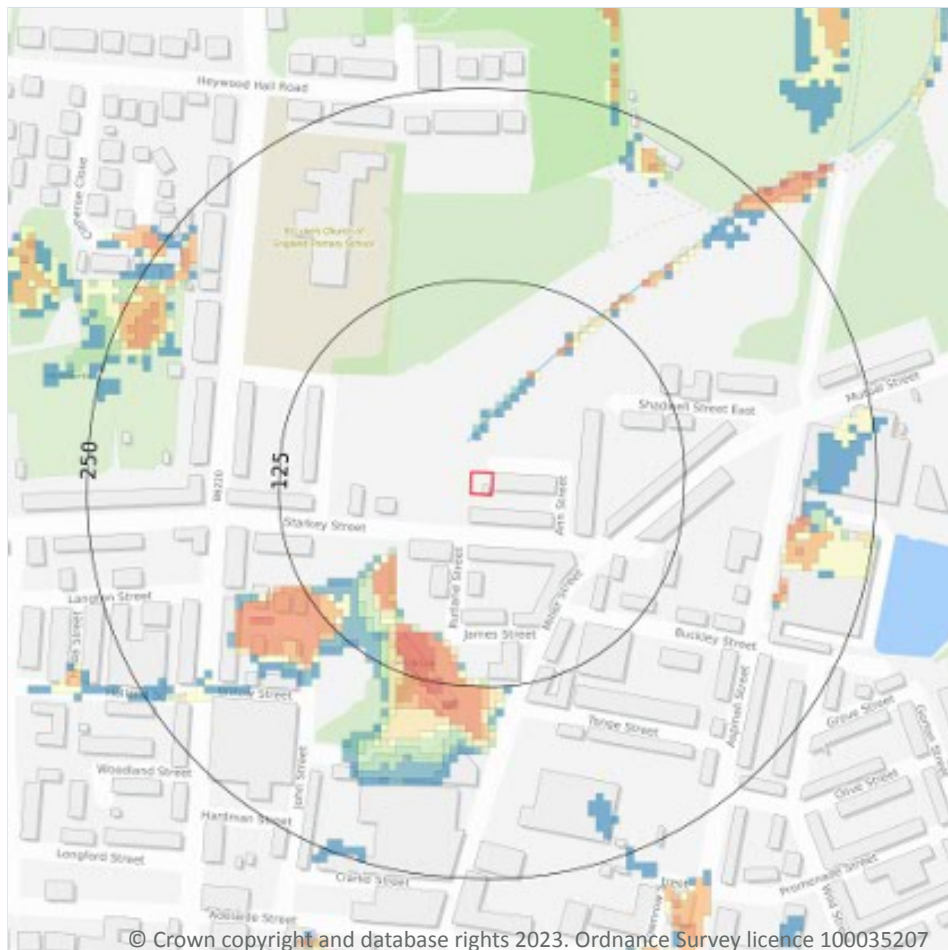
Features are displayed on the River and coastal flooding map on **page 66**

| Location | Type                             |
|----------|----------------------------------|
| 20m N    | Zone 3 - (Fluvial /Tidal Models) |

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



## 8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

### 8.1 Surface water flooding

**Highest risk on site**

**Negligible**

**Highest risk within 50m**

**1 in 1000 year, Greater than 1.0m**

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

Features are displayed on the Surface water flooding map on **page 70**

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.

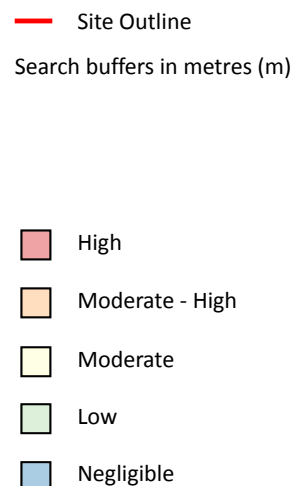
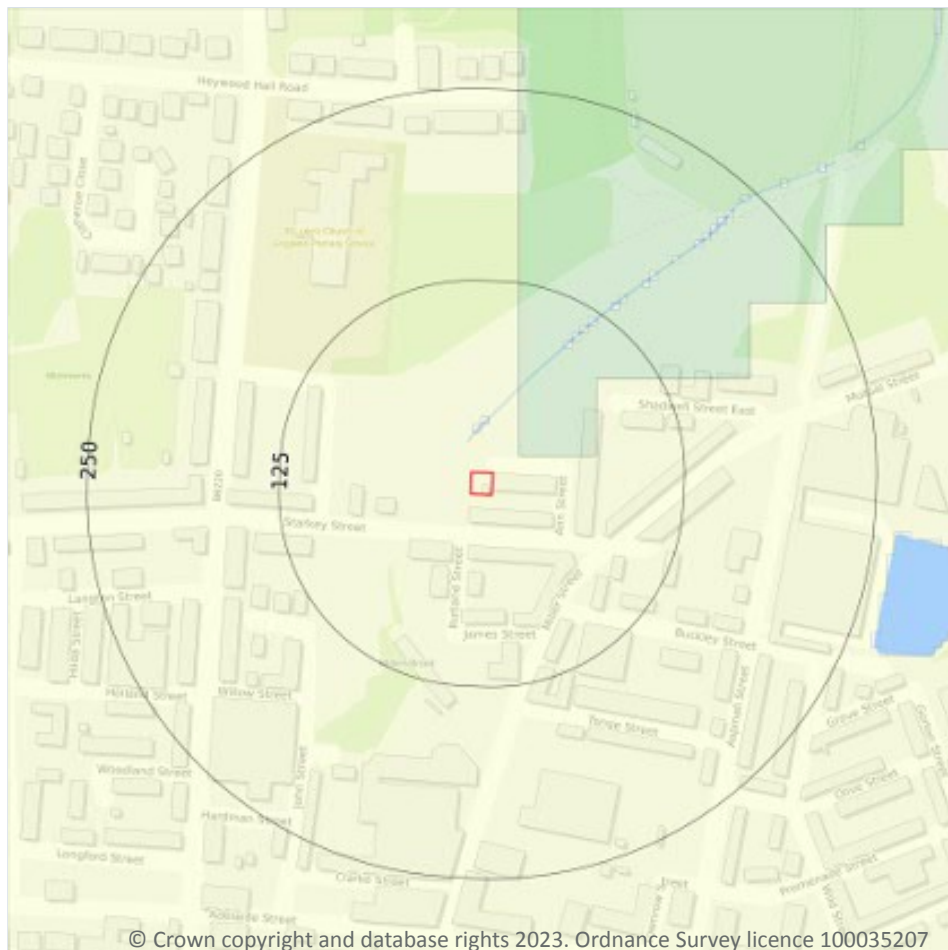
The table below shows the maximum flood depths for a range of return periods for the site.

| 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 Ambiantal Risk Analytics.*



## 9 Groundwater flooding



### 9.1 Groundwater flooding

**Highest risk on site**

**Moderate**

**Highest risk within 50m**

**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 72**

*This data is sourced from Ambiantal Risk Analytics.*

## 10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland
- Green Belt

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### 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****11**

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

Features are displayed on the Environmental designations map on **page 73**

| ID | Location | Name                | Woodland Type                   |
|----|----------|---------------------|---------------------------------|
| 2  | 1015m NE | Unknown             | Ancient & Semi-Natural Woodland |
| 3  | 1161m NW | Simpson Clough Wood | Ancient & Semi-Natural Woodland |
| 4  | 1212m NW | Jowkin Wood         | Ancient & Semi-Natural Woodland |
| 5  | 1245m W  | Unknown             | Ancient & Semi-Natural Woodland |
| 6  | 1260m N  | Jowkin Wood         | Ancient & Semi-Natural Woodland |
| 7  | 1508m NE | Springfield Wood    | Ancient & Semi-Natural Woodland |
| -  | 1528m W  | Unknown             | Ancient & Semi-Natural Woodland |
| -  | 1575m NW | Jowkin Wood         | Ancient & Semi-Natural Woodland |
| -  | 1702m NE | River Rock Wood (2) | Ancient & Semi-Natural Woodland |
| -  | 1847m NW | Jowkin Wood         | Ancient & Semi-Natural Woodland |
| -  | 1853m N  | Jowkin Wood         | Ancient & Semi-Natural Woodland |

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

## 10.8 Biosphere Reserves

Records within 2000m

0

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

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

## 10.9 Forest Parks

Records within 2000m

0

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

*This data is sourced from the Forestry Commission.*

## 10.10 Marine Conservation Zones

Records within 2000m

0

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

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

## 10.11 Green Belt

Records within 2000m

1

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

Features are displayed on the Environmental designations map on **page 73**

| ID | Location | Name                              | Local Authority name |
|----|----------|-----------------------------------|----------------------|
| 1  | 219m E   | Merseyside and Greater Manchester | Rochdale             |

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



## 10.12 Proposed Ramsar sites

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

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

*This data is sourced from Natural England.*

## 10.13 Possible Special Areas of Conservation (pSAC)

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

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

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

## 10.14 Potential Special Protection Areas (pSPA)

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

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

*This data is sourced from Natural England.*

## 10.15 Nitrate Sensitive Areas

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

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

*This data is sourced from Natural England.*



## 10.16 Nitrate Vulnerable Zones

### Records within 2000m

**1**

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

| Location | Name                                         | Type          | NVZ ID | Status   |
|----------|----------------------------------------------|---------------|--------|----------|
| 1780m SE | River Irk (Moston Brook to River Irwell) NVZ | Surface Water | 638    | Existing |

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



## SSSI Impact Zones and Units



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

### 10.17 SSSI Impact Risk Zones

#### Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 79**

| ID | Location | Type of developments requiring consultation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1  | On site  | <p><b>Infrastructure - Airports, helipads and other aviation proposals.</b></p> <p><b>Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, review of minerals permissions (romp), extensions, variations to conditions etc. oil &amp; gas exploration/extraction.</b></p> <p><b>Air pollution - Any industrial/agricultural development that could cause air pollution (incl: industrial processes, livestock &amp; poultry units with floorspace &gt; 500m<sup>2</sup>, slurry lagoons &amp; digestate stores &gt; 750m<sup>2</sup>, manure stores &gt; 3500t).</b></p> <p><b>Combustion - General combustion processes &gt;50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.</b></p> |

*This data is sourced from Natural England.*

## 10.18 SSSI Units

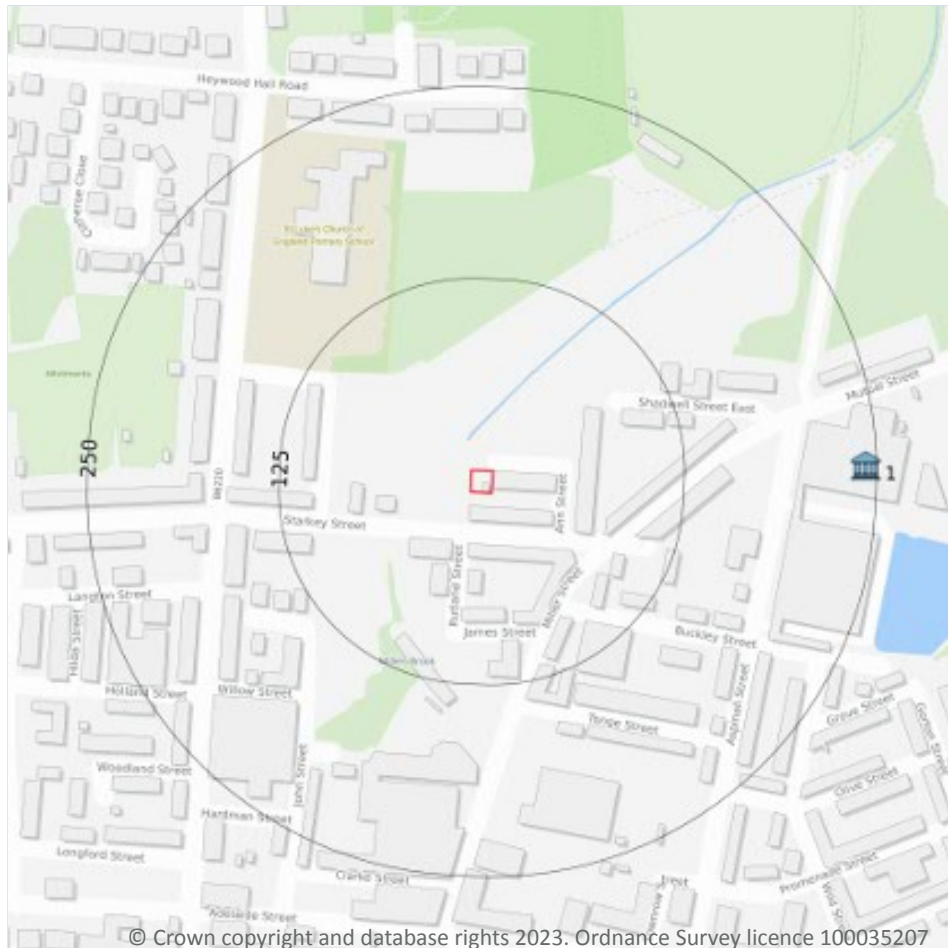
|                             |          |
|-----------------------------|----------|
| <b>Records within 2000m</b> | <b>0</b> |
|-----------------------------|----------|

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

1

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 81**

| ID | Location | Name                                        | Grade | Reference Number | Listed date |
|----|----------|---------------------------------------------|-------|------------------|-------------|
| 1  | 243m E   | Mutual Mills, North Heywood, Rochdale, OL10 | II    | 1268044          | 04/11/1996  |

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



## 11.5 Conservation Areas

Records within 250m

0

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

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

## 11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

## 11.7 Registered Parks and Gardens

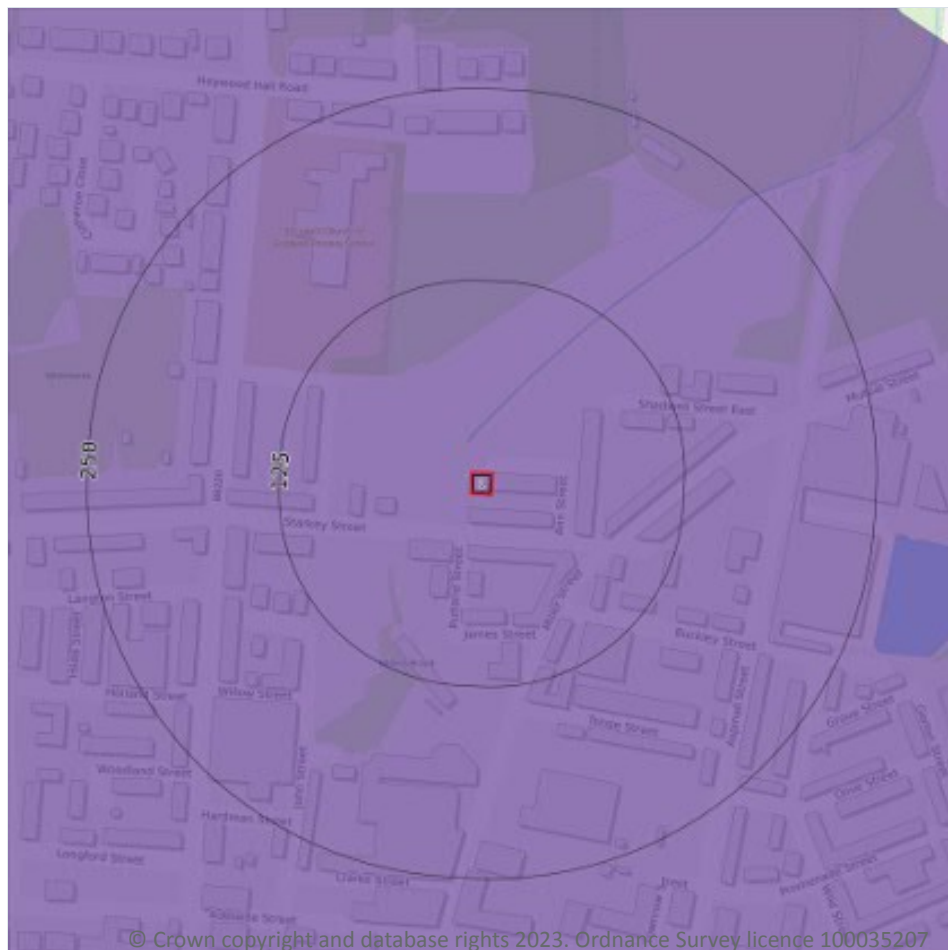
Records within 250m

0

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

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

## 12 Agricultural designations



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

### 12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 84**

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

*This data is sourced from Natural England.*

## 12.2 Open Access Land

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

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

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

## 12.3 Tree Felling Licences

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

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

*This data is sourced from the Forestry Commission.*

## 12.4 Environmental Stewardship Schemes

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

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

*This data is sourced from Natural England.*

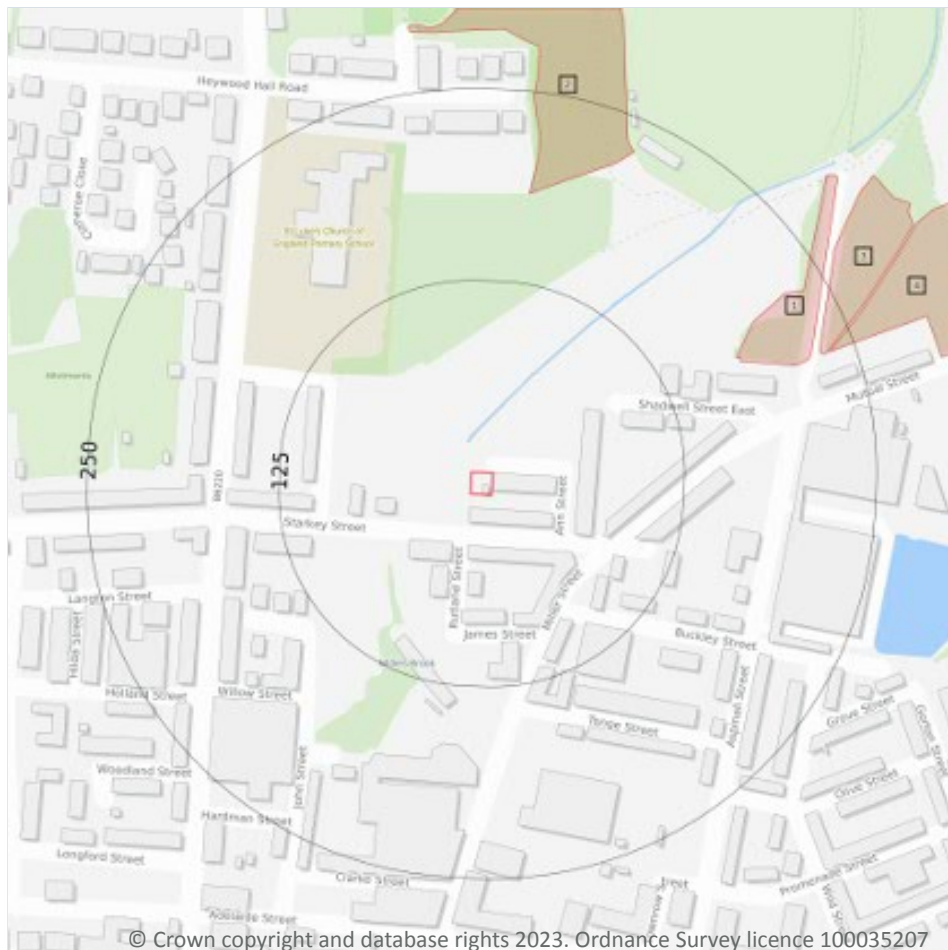
## 12.5 Countryside Stewardship Schemes

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

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

*This data is sourced from Natural England.*

## 13 Habitat designations



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

### 13.1 Priority Habitat Inventory

#### Records within 250m

4

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

Features are displayed on the Habitat designations map on **page 86**

| ID | Location | Main Habitat                                    | Other habitats                  |
|----|----------|-------------------------------------------------|---------------------------------|
| 1  | 176m NE  | Deciduous woodland                              | Main habitat: DWOOD (INV > 50%) |
| 2  | 184m N   | Deciduous woodland                              | Main habitat: DWOOD (INV > 50%) |
| 3  | 227m E   | Deciduous woodland                              | Main habitat: DWOOD (INV > 50%) |
| 4  | 233m E   | No main habitat but additional habitats present | Additional: DWOOD (INV 50%)     |



*This data is sourced from Natural England.*

## 13.2 Habitat Networks

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.3 Open Mosaic Habitat

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*

## 13.4 Limestone Pavement Orders

**Records within 250m**

**0**

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

*This data is sourced from Natural England.*



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



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

### 14.1 10k Availability

#### Records within 500m

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 88**

| ID | Location | Artificial | Superficial | Bedrock | Mass movement | Sheet No. |
|----|----------|------------|-------------|---------|---------------|-----------|
| 1  | On site  | Full       | Full        | Full    | Full          | SD81SE    |

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



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



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

### 14.2 Artificial and made ground (10k)

Records within 500m

4

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 89**

| ID | Location | LEX Code  | Description             | Rock description   |
|----|----------|-----------|-------------------------|--------------------|
| 1  | 246m NE  | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 2  | 411m W   | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 3  | 423m SE  | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |
| 4  | 455m N   | MGR-ARTDP | Made Ground (Undivided) | Artificial Deposit |



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



## Geology 1:10,000 scale - Superficial



— Site Outline  
Search buffers in metres (m)  
 Landslip (10k)  
Superficial geology (10k)  
Please see table for more details.

### 14.3 Superficial geology (10k)

#### Records within 500m

4

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 91**

| ID | Location | LEX Code   | Description                                                 | Rock description            |
|----|----------|------------|-------------------------------------------------------------|-----------------------------|
| 1  | On site  | GFDUD-XSV  | Glaciofluvial Deposits, Devensian - Sand And Gravel         | Sand And Gravel             |
| 3  | 179m NE  | ALV-XCZSV  | Alluvium - Clay, Silt, Sand And Gravel                      | Clay, Silt, Sand And Gravel |
| 4  | 374m NE  | RTDU-XSV   | River Terrace Deposits (undifferentiated) - Sand And Gravel | Sand And Gravel             |
| 5  | 403m W   | TILLD-DMTN | Till, Devensian - Diamicton                                 | Diamicton                   |

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

## 14.4 Landslip (10k)

### Records within 500m

**2**

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.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 91**

| ID | Location | LEX Code     | Description        | Rock description           |
|----|----------|--------------|--------------------|----------------------------|
| 2  | 89m NE   | SLIP-UNKNOWN | Landslide Deposits | Unknown/unclassified Entry |
| 6  | 462m NE  | SLIP-UNKNOWN | Landslide Deposits | Unknown/unclassified Entry |

*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

6

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 93**

| ID | Location | LEX Code  | Description                                                               | Rock age            |
|----|----------|-----------|---------------------------------------------------------------------------|---------------------|
| 1  | On site  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 2  | 128m SW  | OL-SDST   | Old Lawrence Rock - Sandstone                                             | Langsettian Sub-age |
| 3  | 157m SW  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |



| ID | Location | LEX Code  | Description                                                               | Rock age            |
|----|----------|-----------|---------------------------------------------------------------------------|---------------------|
| 4  | 197m NE  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |
| 6  | 223m SW  | RSC-SDST  | Riddle Scout Rock - Sandstone                                             | Langsettian Sub-age |
| 7  | 249m SW  | PLCM-MDSS | Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone | Langsettian Sub-age |

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

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

### Records within 500m

**3**

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 93**

| ID | Location | Category | Description                                          |
|----|----------|----------|------------------------------------------------------|
| 5  | 197m NE  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |
| 8  | 332m SW  | ROCK     | Coal seam, inferred                                  |
| 9  | 378m NE  | FAULT    | Normal fault, inferred; crossmarks on downthrow side |

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



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



— Site Outline

Search buffers in metres (m)

□ Geological map tile

### 15.1 50k Availability

#### Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 95**

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

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



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

### 15.2 Artificial and made ground (50k)

Records within 500m

0

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

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

### 15.3 Artificial ground permeability (50k)

Records within 50m

0

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

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



## Geology 1:50,000 scale - Superficial



— Site Outline  
Search buffers in metres (m)

 Landslip (50k)

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

### 15.4 Superficial geology (50k)

#### Records within 500m

4

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 97**

| ID | Location | LEX Code   | Description                               | Rock description            |
|----|----------|------------|-------------------------------------------|-----------------------------|
| 1  | On site  | GFDUD-XSV  | GLACIOFLUVIAL DEPOSITS, DEVENSIAN         | SAND AND GRAVEL             |
| 3  | 171m NE  | ALV-XCZSV  | ALLUVIUM                                  | CLAY, SILT, SAND AND GRAVEL |
| 4  | 374m NE  | RTDU-XSV   | RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) | SAND AND GRAVEL             |
| 5  | 402m W   | 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  | Intergranular | Very High            | High                 |

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

## 15.6 Landslip (50k)

**Records within 500m**

**2**

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.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 97**

| ID | Location | LEX Code     | Description        | Rock description           |
|----|----------|--------------|--------------------|----------------------------|
| 2  | 83m NE   | SLIP-UNKNOWN | LANDSLIDE DEPOSITS | UNKNOWN/UNCLASSIFIED ENTRY |
| 6  | 462m NE  | SLIP-UNKNOWN | LANDSLIDE DEPOSITS | UNKNOWN/UNCLASSIFIED ENTRY |

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

## 15.7 Landslip permeability (50k)

**Records within 50m**

**0**

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

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



## Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

### 15.8 Bedrock geology (50k)

Records within 500m

4

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 99**

| ID | Location | LEX Code  | Description                                                               | Rock age    |
|----|----------|-----------|---------------------------------------------------------------------------|-------------|
| 1  | On site  | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |
| 2  | 128m SW  | OL-SDST   | OLD LAWRENCE ROCK - SANDSTONE                                             | WESTPHALIAN |
| 3  | 157m SW  | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |



| ID | Location | LEX Code  | Description                                                               | Rock age    |
|----|----------|-----------|---------------------------------------------------------------------------|-------------|
| 4  | 197m NE  | PLCM-MDSS | PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE | WESTPHALIAN |

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

## 15.9 Bedrock permeability (50k)

|                    |   |
|--------------------|---|
| Records within 50m | 1 |
|--------------------|---|

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

| Location | Flow type | Maximum permeability | Minimum permeability |
|----------|-----------|----------------------|----------------------|
| On site  | Fracture  | Moderate             | Low                  |

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

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

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

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

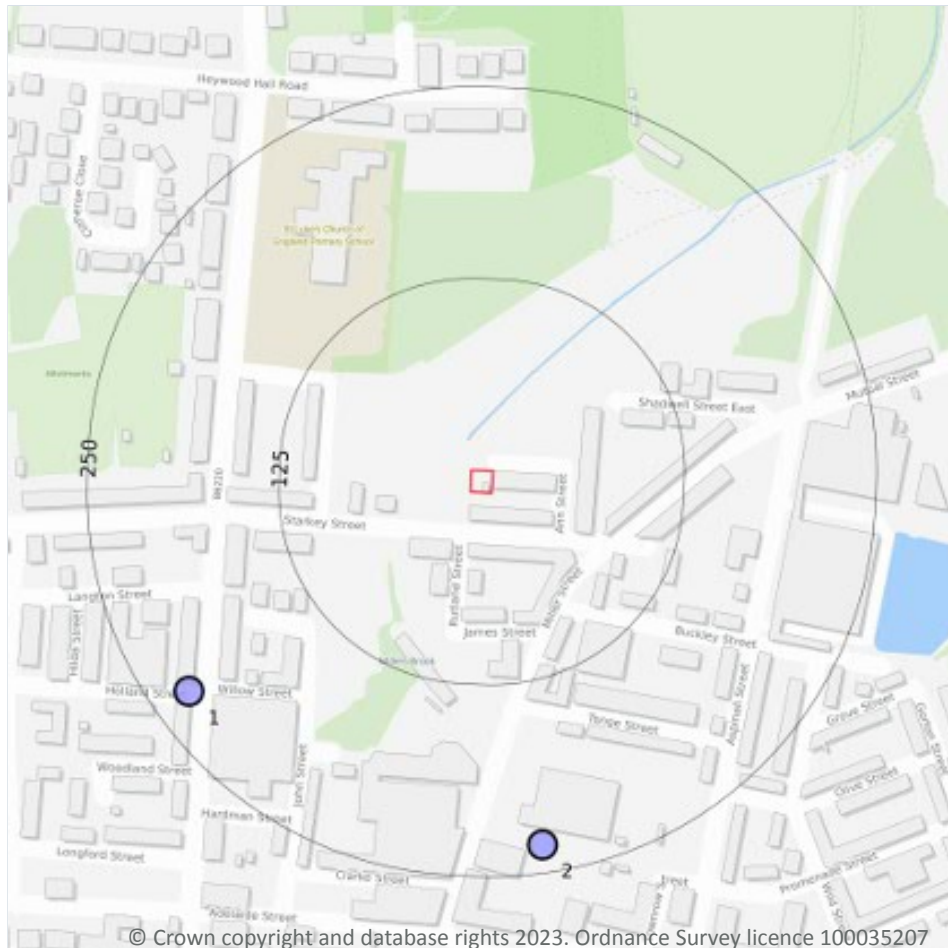
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 99**

| ID | Location | Category | Description         |
|----|----------|----------|---------------------|
| 5  | 197m NE  | FAULT    | Fault, inferred     |
| 6  | 332m SW  | ROCK     | Coal seam, inferred |

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



## 16 Boreholes



— Site Outline  
Search buffers in metres (m)

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

### 16.1 BGS Boreholes

#### Records within 250m

2

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.

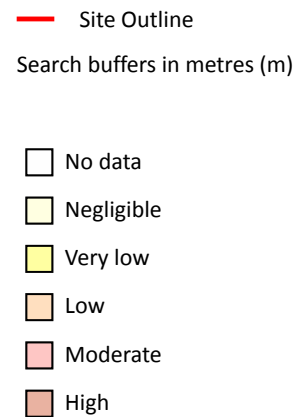
Features are displayed on the Boreholes map on **page 101**

| ID | Location | Grid reference | Name                 | Length | Confidential | Web link              |
|----|----------|----------------|----------------------|--------|--------------|-----------------------|
| 1  | 225m SW  | 385710 410970  | HEYWOOD EAST SEWER 4 | 7.0    | N            | <a href="#">30014</a> |
| 2  | 232m S   | 385940 410870  | HEYWOOD EAST SEWER 6 | 7.0    | N            | <a href="#">30015</a> |

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



## 17 Natural ground subsidence - Shrink swell clays



### 17.1 Shrink swell clays

#### Records within 50m

1

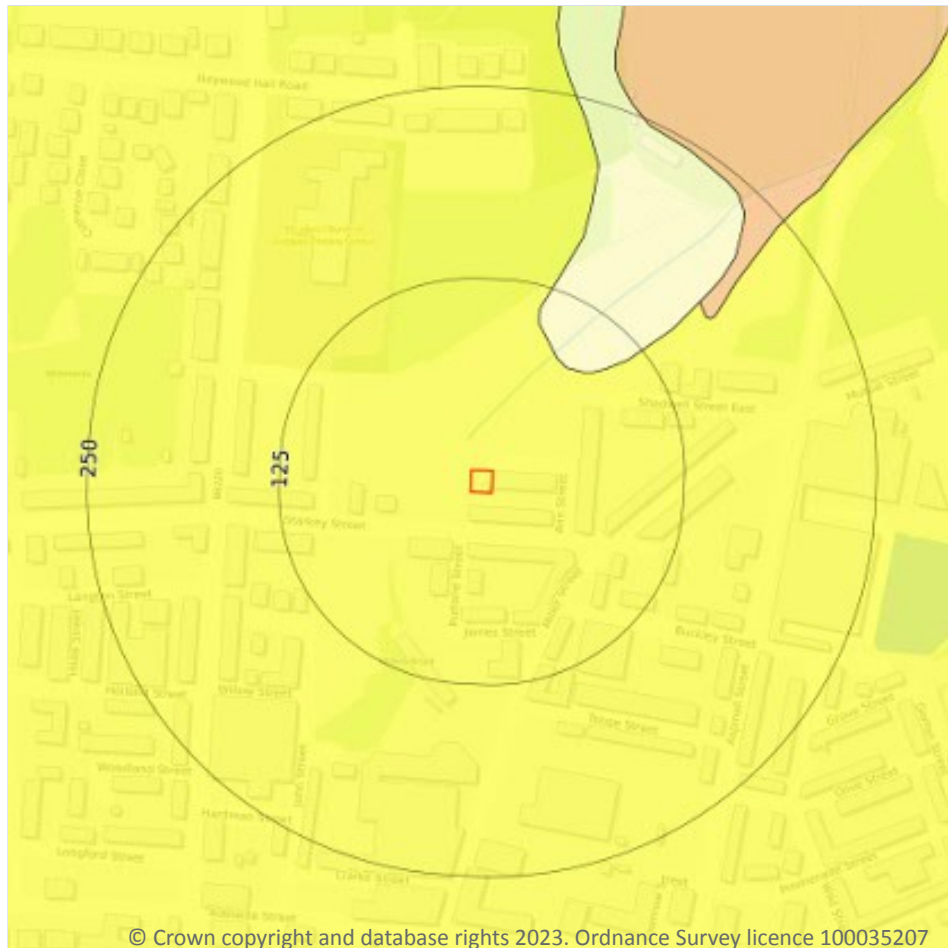
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 102**

| Location | Hazard rating | Details                                      |
|----------|---------------|----------------------------------------------|
| On site  | Negligible    | Ground conditions predominantly non-plastic. |

*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.

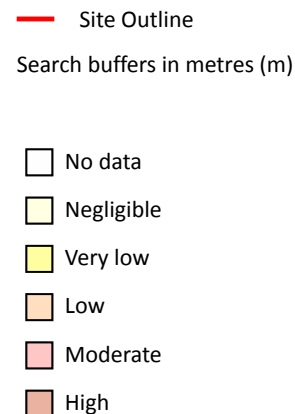
Features are displayed on the Natural ground subsidence - Running sands map on **page 103**

| 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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### 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 104**

| 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

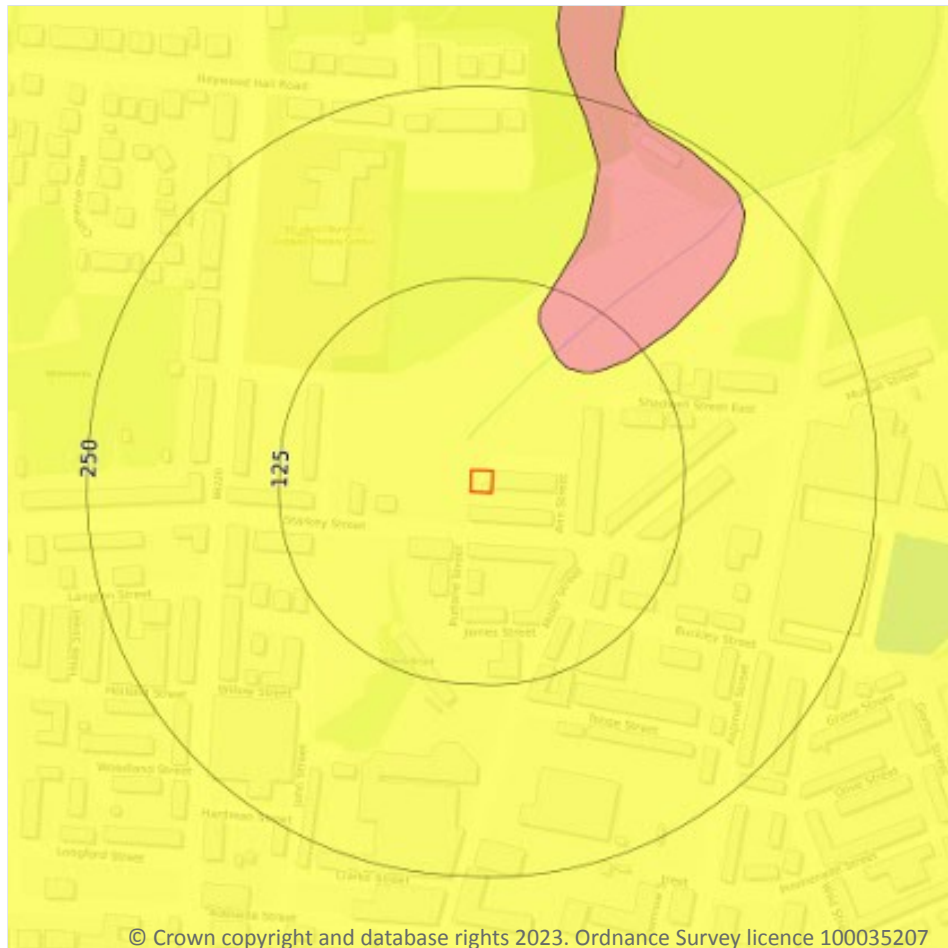
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 105**

| 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 106**

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

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



## Natural ground subsidence - Ground dissolution of soluble rocks



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

### 17.6 Ground dissolution of soluble rocks

#### Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 107**

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

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



## 18 Mining, ground workings and natural cavities



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

### 18.1 Natural cavities

Records within 500m

0

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

*This data is sourced from Stantec UK Ltd.*

## 18.2 BritPits

### Records within 500m

**3**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

| ID | Location | Details                                                                                                | Description                                                                                                                                                                                                                                                                                                                              |
|----|----------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C  | 206m SE  | Name: Heywood Brick Field<br>Address: HEYWOOD, Lancashire<br>Commodity: Clay & Shale<br>Status: Ceased | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |
| K  | 389m SE  | Name: Captain Fold Sand Pit<br>Address: HEYWOOD, Lancashire<br>Commodity: Sand<br>Status: Ceased       | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>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 |
| O  | 478m SE  | Name: Captain Fold Sand Pit<br>Address: HEYWOOD, Lancashire<br>Commodity: Sand<br>Status: Ceased       | Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site<br>Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority |

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

## 18.3 Surface ground workings

### Records within 250m

**23**

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 109**

| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| A  | On site  | Refuse Heap                 | 1909            | 1:10560       |
| A  | 0m NW    | Unspecified Ground Workings | 1938            | 1:10560       |



| ID | Location | Land Use                    | Year of mapping | Mapping scale |
|----|----------|-----------------------------|-----------------|---------------|
| B  | 72m SW   | Ponds                       | 1928            | 1:10560       |
| B  | 76m SW   | Unspecified Ground Workings | 1968            | 1:10560       |
| C  | 98m SE   | Brick Yard                  | 1851            | 1:10560       |
| D  | 134m S   | Pond                        | 1949            | 1:10560       |
| D  | 134m S   | Ponds                       | 1890            | 1:10560       |
| D  | 138m S   | Pond                        | 1938            | 1:10560       |
| D  | 140m S   | Pond                        | 1928            | 1:10560       |
| D  | 140m S   | Pond                        | 1909            | 1:10560       |
| D  | 142m S   | Pond                        | 1851            | 1:10560       |
| 1  | 143m SE  | Ponds                       | 1890            | 1:10560       |
| E  | 184m S   | Pond                        | 1928            | 1:10560       |
| E  | 186m S   | Refuse Heap                 | 1909            | 1:10560       |
| E  | 186m S   | Pond                        | 1938            | 1:10560       |
| E  | 186m S   | Pond                        | 1890            | 1:10560       |
| 2  | 188m NE  | Unspecified Ground Workings | 1992            | 1:10000       |
| E  | 193m S   | Unspecified Ground Workings | 1928            | 1:10560       |
| F  | 232m E   | Unspecified Ground Workings | 1890            | 1:10560       |
| G  | 239m NE  | Unspecified Ground Workings | 1992            | 1:10000       |
| G  | 239m NE  | Unspecified Ground Workings | 1987            | 1:10000       |
| G  | 239m NE  | Unspecified Ground Workings | 1975            | 1:10000       |
| G  | 239m NE  | Unspecified Ground Workings | 1968            | 1:10560       |

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

## 18.4 Underground workings

**Records within 1000m**

**0**

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

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



## 18.5 Historical Mineral Planning Areas

Records within 500m

0

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

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

## 18.6 Non-coal mining

Records within 1000m

0

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

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

## 18.7 Mining cavities

Records within 1000m

0

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

*This data is sourced from Stantec UK Ltd.*

## 18.8 JPB mining areas

Records on site

0

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

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

## 18.9 Coal mining

Records on site

1

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



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

*This data is sourced from the Coal Authority.*

## 18.10 Brine areas

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

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

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

## 18.11 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

*This data is sourced from British Gypsum.*

## 18.12 Tin mining

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

Generalised areas that may be affected by historical tin mining.

*This data is sourced from Groundsure.*

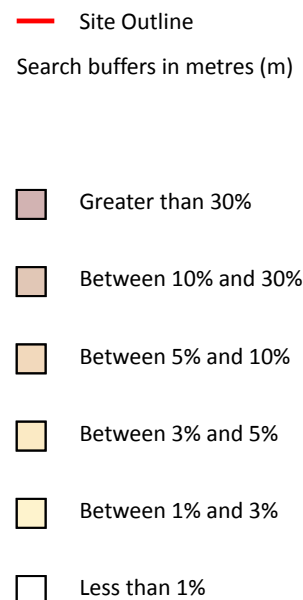
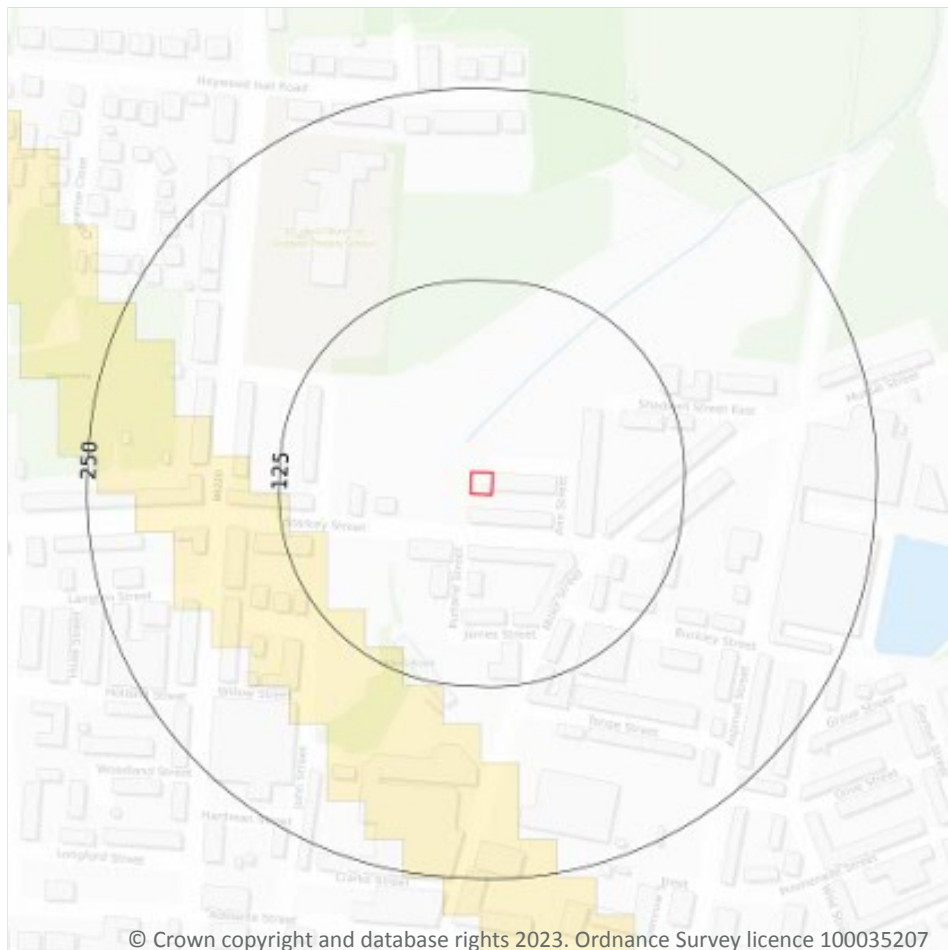
## 18.13 Clay mining

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

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

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

## 19 Radon



### 19.1 Radon

#### Records on site

1

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

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

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



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



## 20 Soil chemistry

### 20.1 BGS Estimated Background Soil Chemistry

Records within 50m

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<sup>2</sup>. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km<sup>2</sup>; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

| Location | Arsenic       | Bioaccessible Arsenic | Lead      | Bioaccessible Lead | Cadmium         | Chromium      | Nickel        |
|----------|---------------|-----------------------|-----------|--------------------|-----------------|---------------|---------------|
| On site  | 15 - 25 mg/kg | No data               | 100 mg/kg | 60 mg/kg           | 2.2 - 3.0 mg/kg | 60 - 90 mg/kg | 15 - 30 mg/kg |

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

### 20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

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

### 20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

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



## 21 Railway infrastructure and projects

### 21.1 Underground railways (London)

|                     |   |
|---------------------|---|
| Records within 250m | 0 |
|---------------------|---|

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

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

### 21.2 Underground railways (Non-London)

|                     |   |
|---------------------|---|
| Records within 250m | 0 |
|---------------------|---|

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

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

### 21.3 Railway tunnels

|                     |   |
|---------------------|---|
| Records within 250m | 0 |
|---------------------|---|

Railway tunnels taken from contemporary Ordnance Survey mapping.

*This data is sourced from the Ordnance Survey.*

### 21.4 Historical railway and tunnel features

|                     |   |
|---------------------|---|
| Records within 250m | 0 |
|---------------------|---|

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.

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

### 21.5 Royal Mail tunnels

|                     |   |
|---------------------|---|
| Records within 250m | 0 |
|---------------------|---|

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



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

## 21.6 Historical railways

**Records within 250m**

**0**

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

*This data is sourced from OpenStreetMap.*

## 21.7 Railways

**Records within 250m**

**0**

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

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

## 21.8 Crossrail 1

**Records within 500m**

**0**

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

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

## 21.9 Crossrail 2

**Records within 500m**

**0**

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

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

## 21.10 HS2

**Records within 500m**

**0**

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

*This data is sourced from HS2 Ltd.*



## Data providers

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

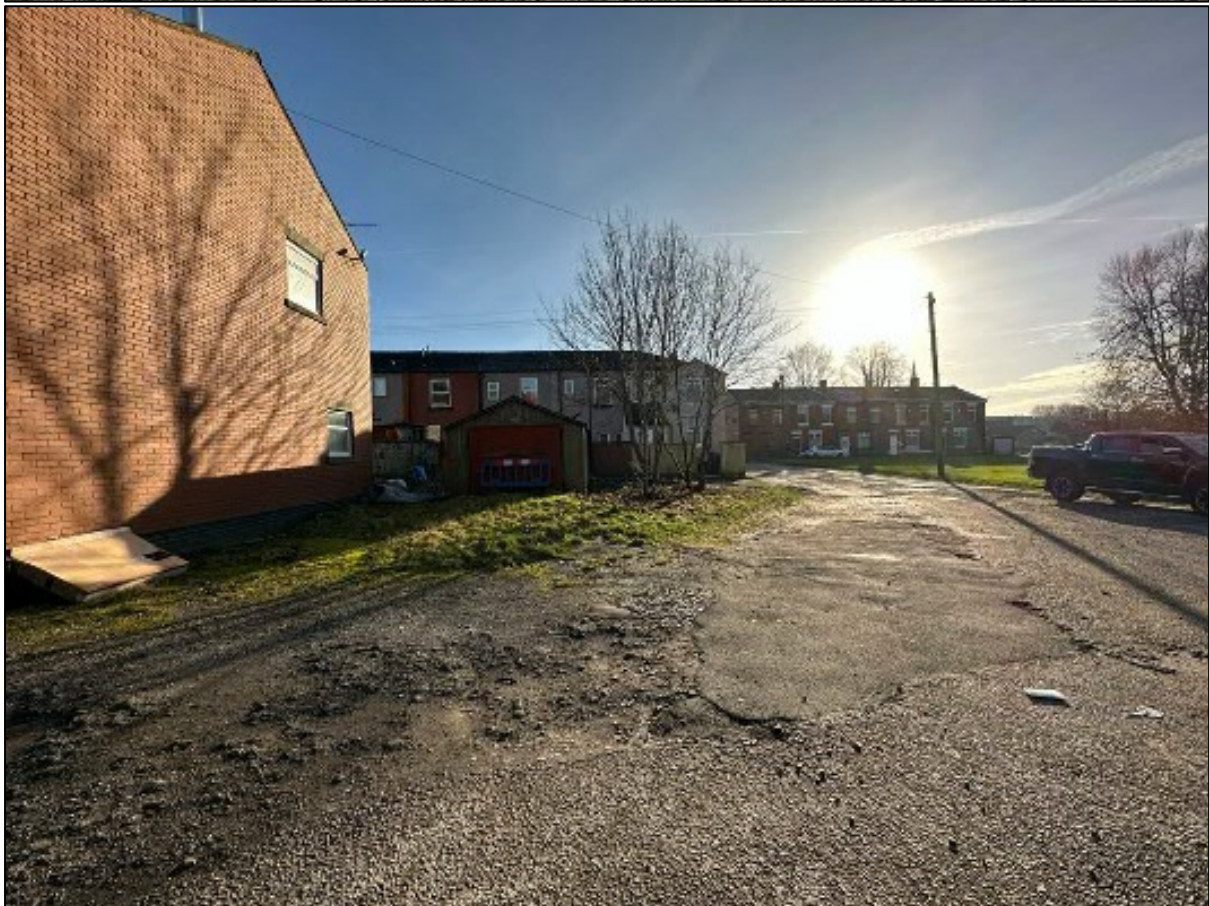
## Terms and conditions

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



## 20 APPENDIX 4 – SITE PHOTOGRAPHY







## 21 APPENDIX 5 - RISK ASSESSMENT METHODOLOGY

- Severity considers the potential impact of the linkage on the receptors, if the linkage was active. Categories range from slight/superficial to fatal.
- Likelihood considers the chances of the linkage occurring and is classified into categories from improbable to frequent.

By assigning scores with each of the above categories, the risk assessment can be undertaken using the formula:

$$\text{RISK} = \text{LIKELIHOOD} \times \text{SEVERITY}$$

The matrix given in Table 11 provides a means of calculating the overall risk; while Table 12 provides the qualitative assessment based on the risk score.

Table 11: Contamination Risk Matrix

|                        |                 | Potential Severity |                |                |                |             |
|------------------------|-----------------|--------------------|----------------|----------------|----------------|-------------|
|                        |                 | Fatal<br>5         | Major<br>4     | Moderate<br>3  | Minor<br>2     | Slight<br>1 |
| Probable<br>Likelihood | Frequent<br>5   | Very High          | High           | Moderate       | Low - Moderate | Low         |
|                        | Probable<br>4   | High               | High           | Moderate       | Low - Moderate | Low         |
|                        | Possible<br>3   | Moderate           | Moderate       | Low - Moderate | Low - Moderate | Very Low    |
|                        | Remote<br>2     | Low - Moderate     | Low - Moderate | Low - Moderate | Low            | Very Low    |
|                        | Improbable<br>1 | Low                | Low            | Very Low       | Very Low       | Very Low    |

Table 12: Assessment description for risk scores

| Risk Score | Risk Assessment |
|------------|-----------------|
| 1-3        | Very Low        |
| 4-5        | Low             |
| 6-10       | Low to Moderate |
| 11-15      | Moderate        |
| 16-20      | High            |
| 21-25      | Very High       |

Table 13: Risk Classification System

| Risk Term              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Very Low</b>        | The presence of an identified hazard does not give rise to the potential to cause significant harm to groundwater, surface water, ecological and/or property receptors. In the event of such harm being realized, it is not likely to be Severe.                                                                                                                                                                                               |
| <b>Low</b>             | The presence of an identified hazard does not give rise to the potential to cause significant harm to human health receptors. In the event of such harm being realized, it is not likely to be Severe.                                                                                                                                                                                                                                         |
| <b>Low to Moderate</b> | It is possible that harm could arise to a designated receptor from an identified hazard, but it is likely that this harm, if realized, would at worst normally be mild.                                                                                                                                                                                                                                                                        |
| <b>Moderate</b>        | It is possible that harm could arise to a designated receptor from an identified hazard. However, it is either relatively unlikely that such harm would be severe, or if any harm were to occur it is more likely that the harm would be relatively mild. Investigation (if not already undertaken) is normally required to clarify the risk and to determine the potential liability. Some remedial works may be required in the longer term. |
| <b>High</b>            | Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate remedial action. Investigation is required and remedial works may be necessary in the short term and are likely over the longer term.                                                                                                                                                                                               |
| <b>Very High</b>       | There is a high probability that severe harm could arise to a designated receptor from an identified hazard, or, there is an evidence that severe harm to a designated receptor is currently happening. Urgent investigation and remediation are likely to be required.                                                                                                                                                                        |

## 22 ABBREVIATIONS

| Abbreviation | Description                                                 |
|--------------|-------------------------------------------------------------|
| AOD          | Above Ordnance Datum                                        |
| AONB         | Areas of Outstanding Natural Beauty                         |
| BGS          | British Geological Survey                                   |
| c.           | circa                                                       |
| CLRA         | Contaminated Land Risk Assessment                           |
| COMAH        | Control of Major Accident Hazards                           |
| CSM          | Conceptual Site Risk Model                                  |
| EA           | Environment Agency                                          |
| IPC          | Integrated Pollution Control                                |
| IPPC         | Integrated Pollution Prevention Control                     |
| LAPC         | Local Authority Pollution Control                           |
| LNR          | Local Nature Reserves                                       |
| NIHHS        | Notification of Installations Handling Hazardous Substances |
| NNR          | National Nature Reserves                                    |
| NP           | National Parks                                              |
| NPPF         | National Planning Policy Framework                          |
| OS           | Ordnance Survey                                             |
| PAHs         | Polycyclic Aromatic Hydrocarbons                            |
| Part IIA     | Part IIA of the Environmental Protection. Act 1990          |
| PCBs         | Polychlorinated Biphenyls                                   |
| PCLU         | Potentially Contaminative Land Use                          |
| PPL          | Potential Pollutant Linkage                                 |
| PSPPL        | Potentially Significant Potential Pollutant Linkage         |
| SAC          | Special Areas of Conservation                               |
| SI           | Site Investigation                                          |
| SPA          | Special Protection Area                                     |
| SPOSH        | Significant Possibility of Significant Harm                 |
| SSSIs        | Sites of Special Scientific Interest                        |
| TPHs         | Total Petroleum Hydrocarbons                                |
| UXO          | Unexploded Ordnance                                         |
| VOC          | Volatile Organic Compounds                                  |