BEK Geo-Environmental Consulting
No.2 Landwick Court, Metcalf Drive, Altham Business Park,
Lancashire BB5 5TU

mbuckley@bekenviro.co.uk
bekenviro.co.uk
01254 377622

LAND AT SHARSTON INDUSTRIAL ESTATE, MANCHESTER

Phase 1 - Preliminary Risk Assessment



Prepared for:

Report Ref: BEK-24035-1

April 2024

BEK Geo-Environmental Consulting
No.2 Landwick Court, Metcalf Drive, Altham Business Park, Lancashire BB5 5TU

mbuckley@bekenviro.co.uk
bekenviro.co.uk
01254 377622

Project Quality Assurance Information Sheet

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Prepared For	**PP O'CONNOR** The Exchange 5 Bank Street Bury BL9 0DN
Prepared By	**BEK ENVIRO** No 2 Landwick Court Metcalf Drive Altham Business Park Lancashire BB5 5TU
Author	**Mitchell Leigh Monk** BSc (Hons)
Checked	**David Emmott** BSc (Hons) MSc MIEnvSci CEnv
Authorised	**Michael Buckley** BSc (Hons) MSc MIEnvSci CEnv
Contact	mbuckley@bekenviro.co.uk www.bekenviro.co.uk Office: 01254 377622 Mobile: 07906753583

BEK Geo-Environmental Consulting
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REVISION STATUS / HISTORY

Rev	Date	Issue / Comment	Prepared	Checked

GENERAL REPORT LIMITATIONS

BEK Enviro Limited (BEK) has prepared this report for the sole use of the client, showing reasonable skill and care, for the intended purposes as stated in the agreement under which this work was completed. The report may not be relied upon by any other party without the express agreement of the client and BEK. No other warranty, expressed or implied, is made as to the professional advice included in this report.

Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by BEK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

No part of this report may be copied or duplicated without the express permission of BEK and the party for whom it was prepared. Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

Unless explicitly agreed otherwise, in writing, this report has been prepared under BEK's limited standard Terms and Conditions as included within our proposal to the Client.

The report needs to be considered in the light of the BEK proposal and associated limitations of scope. The report needs to be read in full and isolated sections cannot be used without full reference to other elements of the report and any previous works referenced within the report.

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1. INTRODUCTION

1.1 Appointment

1.1.1 BEK Enviro (BEK) has been commissioned by P.P. O'Connor Ltd to prepare a Phase 1 Preliminary Risk Assessment (PRA) for a parcel of land at Sharston Industrial Estate, Wythenshawe, Manchester (hereafter referred to as 'the site'). The PRA will assess the potential risks associated with contamination considering a commercial end use.

1.1.2 The site location and layout are presented on BEK Drawing No 24035-1 and BEK Drawing No 24035-2, respectively. Copies of these drawings are presented in Appendix F.

1.2 Proposed Development

1.2.1 This report has been prepared to support a planning application for the improvements to the existing waste processing facility at the site. This will include construction of a new imported waste sorting building, erection of new perimeter fencing and car parking/access improvements.

1.2.2 The proposed development layout for the site is presented on the Oakbay Design 'Waste Processing Facility' Drawing (Ref: Z310.101, dated October 2023), a copy of which is presented in Appendix F.

1.3 Objective & Scope of Work

1.3.1 The objective of this report is to provide a qualitative assessment of the potential risks from contamination and ground gas with consideration to the construction of the new imported waste sorting building and associated infrastructure (commercial end use).

1.3.2 To achieve the objective BEK will undertake the following:

- Carry out a site inspection and collect photographs
- Review the available relevant background information for the site, including:
  - Recent Ordnance Survey Maps
  - Site Specific GroundSure Reports
  - Site Specific Historical Maps
  - Coal Authority Website
  - Drawings provided by Oakbay Design
  - Zetica UXO Information
- Develop a preliminary conceptual site model in accordance with guidance to identify potentially significant pollutant linkages specific to the proposed development
- Establish areas of potential concern based on identified/potential risks
- Identify any actions required to assess or reduce the risks identified

1.4 Limitations

1.4.1 The conclusions and recommendations presented in this report are the result of our professional interpretation of the information currently available. BEK reserves the right to amend the conclusions and recommendations if further information becomes available.

1.4.2 However, it should be noted that much of the information has been derived from reports written by others and BEK takes no responsibility for the accuracy of that information. Notwithstanding the above, the reports reviewed have all been written by professional environmental consultants with a duty of care to provide relevant and accurate information.

1.4.3 This report does not include an invasive plant species assessment.

2. SITE DESCRIPTION

2.1 Site Location

2.1.1 The site occupies a parcel of land located to the east off Sharston Road (B5168). The site is approximately 2.4 km north-west of Cheadle and some 9 km south of Manchester City Centre.

2.1.2 The National Grid Reference for the centre of the site is 383244, 389134. The site location is shown on BEK Drawing No 24035-1, a copy of which is presented in Appendix F.

2.2 Site Layout & Description

2.2.1 A walkover/inspection was conducted by an engineer from BEK on 20th March 2024. The site occupies an irregular shaped plot of land of approximately 0.6 hectares which is currently being utilised by PP O'Connor Ltd as a Waste Processing Facility. The site is overlain by hardstanding concrete and is generally flat with a slight fall from west to east.

2.2.2 Briefly, the waste processing operations comprise the transport of unprocessed waste using grab wagons onto the site via the western site entrance boundary off Sharston Road (B5168). The unprocessed waste is placed on a stockpile in the centre of the site. Utilising JCB plant machinery and a picking belt complex the waste is segregated into both landfill and recyclable stockpiles. The processing automatically sorts the waste by size, type and weight. Weigh bridges are present at both entrance/exit of the site to support the operations.

2.2.3 A number of semi-permanent and permanent structures utilised to support the current waste processing operations are situated across the site. These include weigh bridges (in west and east), a picking belt complex (including a hopper, trammel, sorting belts, picking station and fans), a series of concrete segregated waste storage bays, shipping container, office structures and a series of shipping containers/skips. At the time of the site walkover, a number of JCB Wastemasters were present on site to supporting the processing operations. At this time, unprocessed waste was situated in the centre of the site and stockpiles of segregated waste destined for landfill (including fridge/ freezers) were located along the northern boundary to the east of the site.

2.2.4 A number of segregated waste stockpiles destined for recycling were located along the western section of the northern boundary which included: Hardcore materials i.e. 6F2, metal and wood

2.2.5 A key features plan is presented on Figure 1.

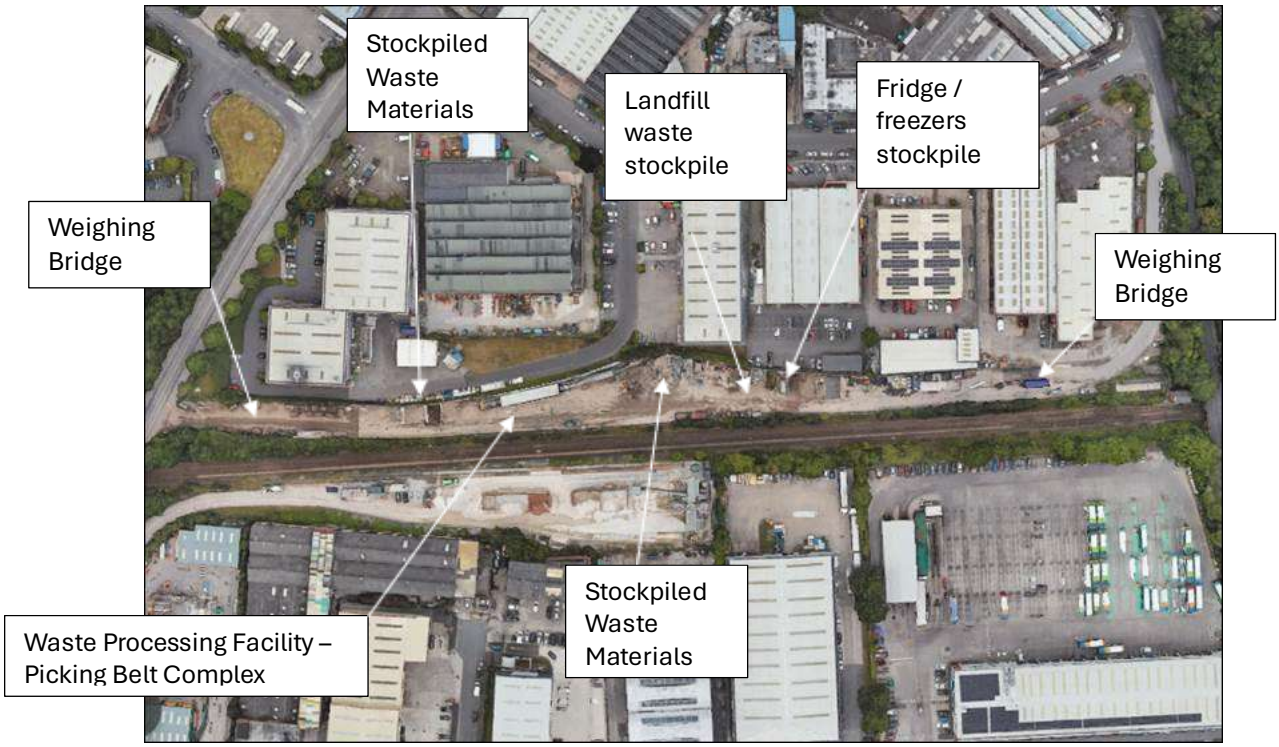


Figure 1: *Key Features Plan*

2.2.6 The site boundaries consist of concrete fencing panels along the northern site boundary and metal fencing along the southern site boundary.

2.2.7 The general site layout is shown on BEK Drawing No 24035-2, a copy of which is presented in Appendix F and a selection of photographs taken during the walkover are presented in Appendix E.

2.3 Surrounding Land Use

2.3.1 A railway line is located immediately south of the site. Sharston Industrial Area is located in the areas immediately north and within the areas to the south, beyond the railway line.

3. SITE HISTORY

3.1 The history of the site has been established using historical OS maps supplied by Groundsure. A selection of historical OS maps reviewed is presented in Appendix A.

1872 - 1876

3.2 The earliest available maps show the site to form part of Northenden Station (Railway). The main station building lies in the centre of the site on the southern boundary with raised worked ground occupying the remainder of the site (likely the raised railway platform). Railway lines (running from east to west) lie immediately south of the site. Open fields lie to the north and to the south beyond the railway lines. Bridges are located some 10 m west and 20 m east of the site. Longley Lane is located some 20 m east of the site. Northenden Junction is located some 115 m east of the site. A lodge lies some 150 north-east and a further unmarked residential property is located approximately 220 m north-east of the site (see Figure 2).

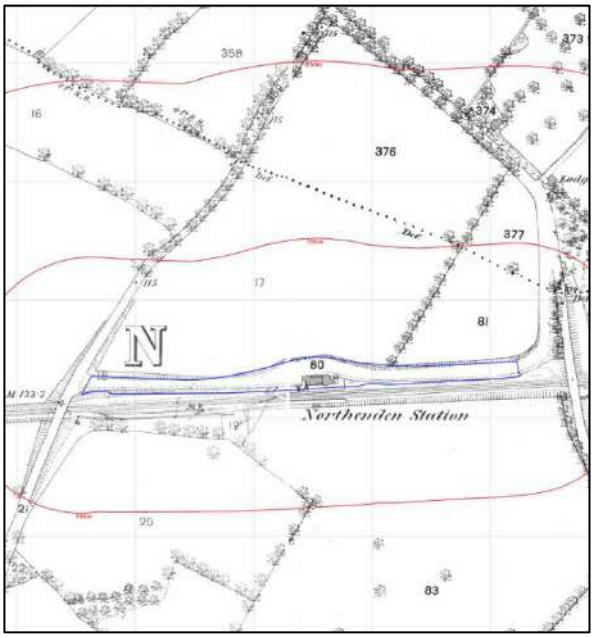


Figure 2: *Extract From 1872 - 1876 Map*

1898 - 1907

3.3 The 1898 maps show no significant changes to site. A goods yard and cattle pen are located some 15 m south of the site. There are no significant changes to the areas surrounding the site.

1910-1922

3.4 The 1910 and 1922 maps show a small extension of the west of the station. There are no significant changes to the areas surrounding the site (see Figure 3).

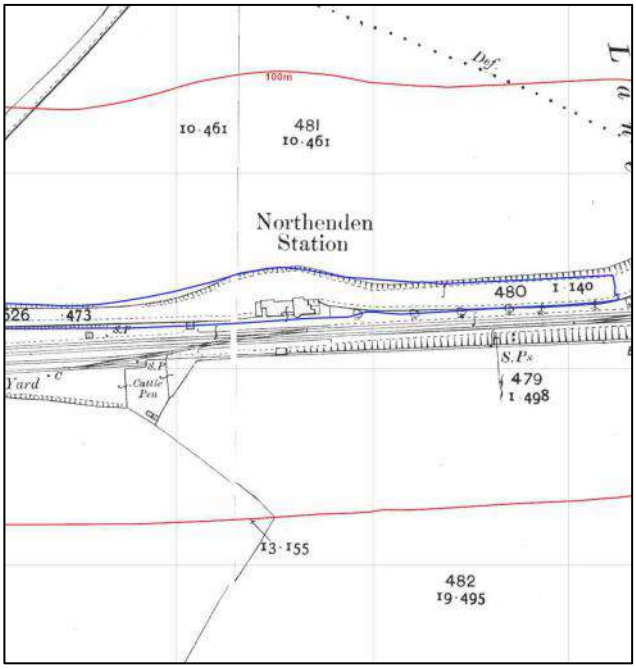


Figure 3: Extract From 1910 Map.

1934

3.5 The 1934 maps show no significant changes to the site. The goods yard located some 20 m south of the site appears to have been extending (approximately doubling in size). A biscuit factory lies some 60 m west. A series of factories (Underwear Factory, Confectionary Works, Wylex Works and Embroidery Factory) are located approximately 65 m north (see Figure 4).

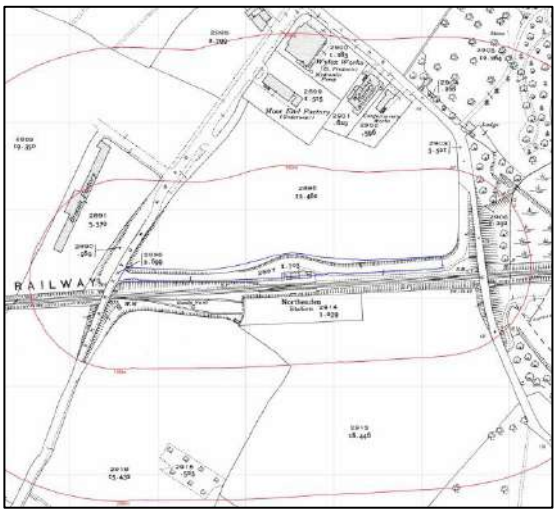


Figure 4: Extract From 1934 Map

1956 - 1959 - 1967

3.6 The 1956 to 1967 maps show no significant changes to the site. However the areas surrounding the site have now become heavily industrialised. These industrial buildings include; engineering works, printing carton works, manufacturing chemists, surveying and drawing equipment works, timber yard, dairy works, mills and a refuse treatment plant. An area of marsh and forested ground are located some 110 m east of the site. A land drain is located some 200 m north-west of the site (see Figure 4).

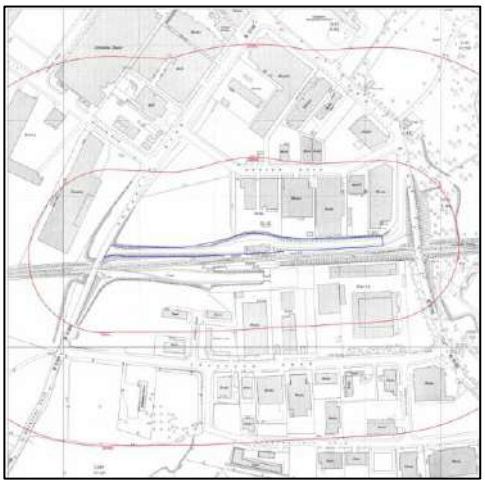


Figure 4: *Extract From 1959 Map*

1977 – 1981 - 1995

3.7 The 1977 maps show the Northenden Station to be no longer present on the maps. Further widespread industrial development has taken place in the areas surrounding the site. This now forms part of Sharston Industrial Area. A number of unmarked industrial buildings are now located immediately north-west of the site. A group of silos are located some 20 m south of the site. A number of electric substations are now located within Sharston Industrial Area, the closest is located some 40 m south of the site. The marsh area some 110 m east of the site is now marked as a 'Didsbury Golf Course' (see Figure 5).



Figure 5: *Extract From 1977 – 1981 Map*

2003

3.8 The site remains unchanged. A there have been a number of changes in the building configurations to the industrial area to the north and south of the site (see Figure 6).

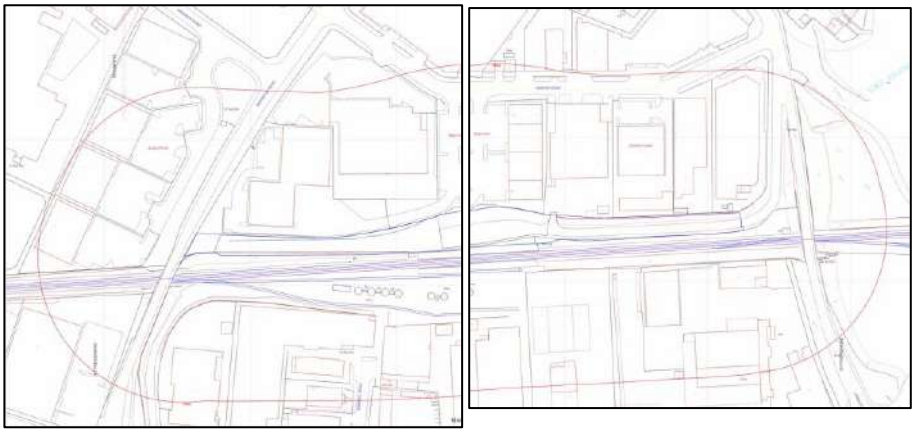


Figure 6: *Extract From 2003 Map.*

2010-2023

3.9 The more recent maps shows the site to remain vacant. An aerial image taken from Google Earth of the site from 2022 shows the site to be used as a waste processing facility with a structure in the west and east of the site as well as numerous stockpiles located across the site (see Figure 7).

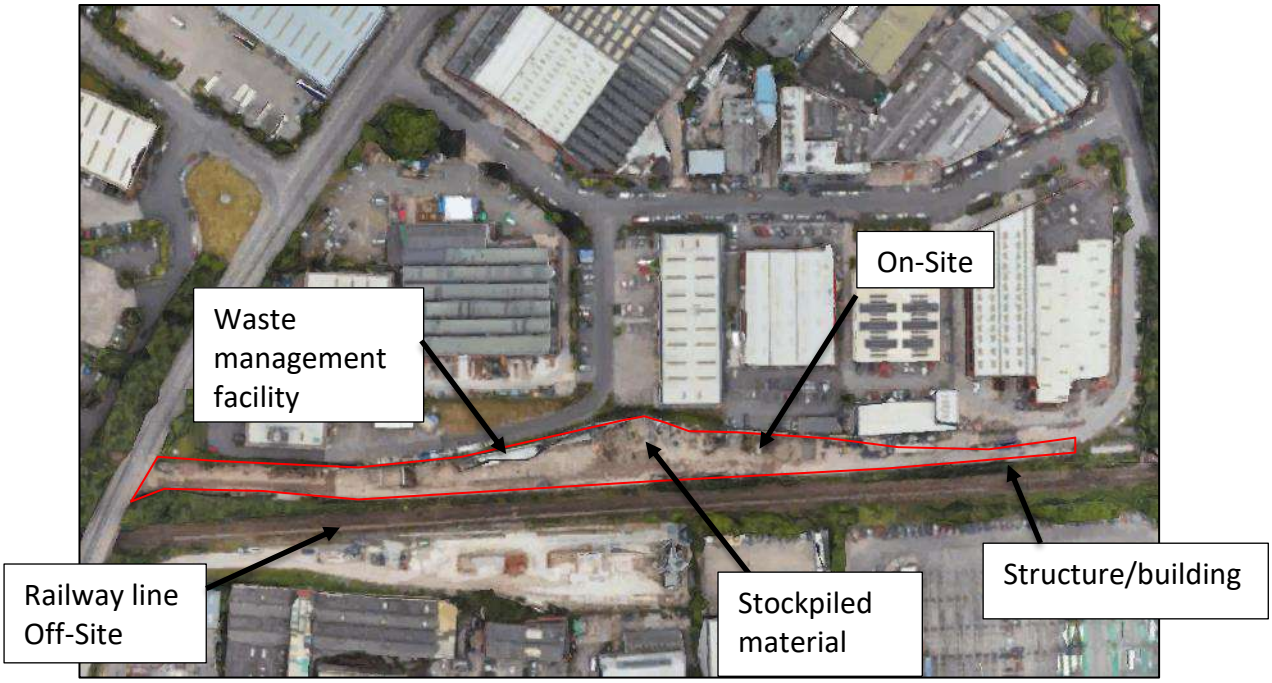


Figure 7*: Aerial Image Taken from Google Images 2022*

4. ENVIRONMENTAL SETTING

4.0.1 An Enviro+GeoInsight Report has been obtained from Groundsure and information provided in these reports has been used within this section. A copy of the report is presented in Appendix B.

4.1 Geology

4.1.1 The site geology is illustrated in the Enviro+GeoInsight Report which has sourced data from several sources including British Geological Society (BGS), BRITPITS database and the Coal Authority.

4.1.2 In addition, BEK has sought site investigation information from the BGS website and there are 29 boreholes within 250 m of the site (see Figure 8):



Figure 8: BGS Borehole Locations

4.1.3 The strata encountered within the closest three boreholes is summarised in Table 1 below:

Distance/direction from site	Depth (m)	Strata
30 m West	0 – 0.79	Topsoil
	0.79 – 1.52	Brown sandy silty CLAY
	1.52 – 2.31	Medium dense light brown fine to medium SAND with Gravel
	2.31 – 4.14	Medium dense to dense brown medium to coarse SAND and GRAVEL with occasional cobbles.
	4.14 – 5.36	Very dense brown fine to coarse SAND
	5.36 – 6.88	Hard red-brown silty CLAY with fragments of red and green mudstone
	6.88 – 8.22	Grey MUDSTONE with occasional bands of hard grey silty clay
	8.22 – 9.23	Grey SANDSTONE
39 m North-west	0 – 0.1	Fill (topsoil and brick fragments)
	0.1 – 1.21	Brown sandy CLAY with mudstone fragments (possible fill)
	1.21 – 1.52	Brown sandy silty CLAY
	1.52 – 3.96	Medium dense to dense brown fine to coarse GRAVEL with some fine to coarse sand and cobbles
	3.96 – 5.48	Brown silty sandy CLAY with occasional fine gravel
	5.48 – 8.1	Medium dense brown fine to medium SAND with occasional traces of coal
	8.1 – 8.71	Firm to stiff laminated brown silty CLAY with occasional fine gravel
74 m South-east	0 – 0.91	Soil
	0.91 – 2.44	Sandy clay & stone sump yellow sand
	2.44 – 3.35	Sand and gravel
	3.35 – 3.51	Clay
	3.51 – 6.25	Sandy clay & gravel
	6.25 – 9.75	Yellow sand
	9.75 – 14.33	Yellow sand & gravel
	14.33 – 92.05	Red sandstone

Table 1: Summary of Closest Three Boreholes Within 250 m Vicinity of the Site.

4.1.4 Copies of the three BGS boreholes records are provided within Appendix C.

Made Ground

4.1.5 According to the Enviro+GeoInsight Report there is no record of made ground (artificial deposit) on the site or within 250 m.

4.1.6 Given that areas of the site have been subject to historic and current development, BEK considers the presence of made ground to be highly likely.

Superficial Geology

4.1.7 The Enviro+GeoInsight Report indicates that the site is underlain by Glaciofluvial Sheet Deposits. This strata is dominated by sands and gravels. This strata has a high to very high permeability.).

4.1.8 Within the off-site boreholes superficial 'sands and gravels' were encountered to depths varying from 3.91 m (Borehole 39 m north-west), 5.36 m (Borehole 30 m west) and to a maximum depth of 14.33 m (Borehole 74 m south-east).

Bedrock

4.1.9 The Enviro+GeoInsight Report indicates that majority the underlying solid geology comprises of the Tarporley Siltstone Formation is dominated by siltstone and sandstone. The remaining bedrock geology underlying the very eastern part of the site is Wilmslow Sandstone Formation which is dominated by sandstone. These strata's have a low to high permeability (see Figure 9).

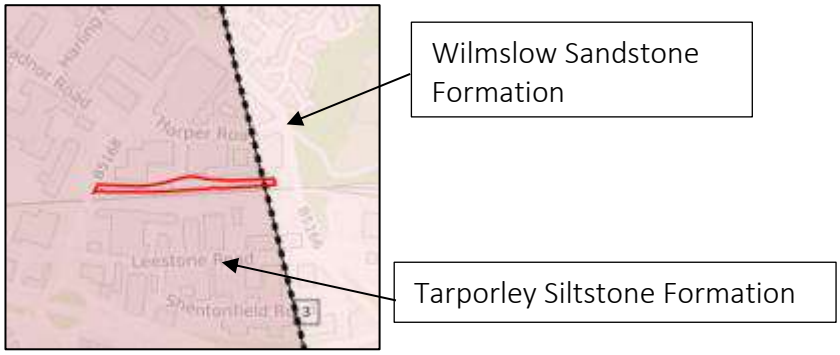


Figure 9: *Bedrock Geology Underlying the Site.*

4.1.10 Within the off-site borehole bedrock geology of 'grey and red sandstone' was encountered in Borehole 30 m west of the site at a depth of 8.22 m bgl. Sand stone was also encountered in the borehole located 74 m south-east of the site at a depth of 14.33 m bgl.

Faults/Linear Features

4.1.11 There is one linear fault located on site (east) and is described as a normal fault inferred with crossmarks on the downthrow side.

4.2 Mining & Ground Stability

4.2.1 The information provided by Enviro+GeoInsight Report indicates that the site is located within an area which is unlikely to have been affected by Coal Mining.

4.2.2 The Enviro+GeoInsight Report indicates there are six recorded of surface ground workings located on site and numerous locations off-site (see Figure 11).



Figure 11: *Surface Ground Workings on Site*

4.2.3 A summary of the features located on site is presented in Table 2 below.

Location	Land Use	Year of Mapping	On-site Location
On-site	Cuttings	1967 - 1975 – 1989 - 1995	South-West
On-site	Unspecified Pit	1938	North-west

Table 2: *Summary of Surface Ground Workings*

4.2.4 There are 31 surface ground workings located off-site and within 250 m of the site. The closest refers to an 'Unspecified Ground Workings' located some 13 m west of the site.

4.2.5 The Enviro+GeoInsight Report provides hazard ratings associated with ground subsidence at the site, as summarised below:

Shrink-Swell Clay:	Negligible
Landslides:	Very Low
Dissolution of Soluble Rocks:	Negligible
Compressible Deposits:	Negligible
Collapsible Deposits:	Very Low
Running Sands:	Very Low

4.2.6 It can be seen from the above that the site is unlikely to be affected by natural ground instability issues.

4.3 Hydrogeology

4.3.1 The superficial deposits beneath the site are classified by the EA as 'Secondary A Aquifers' which are described as '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.'

4.3.2 The bedrock underlying the majority of the site is classified as 'Secondary B Aquifer' which is described as 'predominately lower permeability layers which may store/yield limited amounts of ground water due to localised features such as fissures, thin permeable horizons and weathering'. These are generally the water-bearing parts of the former non aquifer.

4.3.3 However, the Wilmslow Sandstone Formation bedrock underlying the very eastern section of the site is classified as a 'Principal Aquifer' which is described as 'geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale'

4.3.4 The Enviro+GeoInsight Report indicates the site is not located within a groundwater source protection zone.

4.3.5 There are no groundwater abstractions located within 250 m of the site.

4.3.6 There is a moderate risk from groundwater flooding at the site.

4.4 Hydrology

4.4.1 There are no surface water features located on site. The closest surface water feature is located some 125 m east and is described as an 'inland river' that contains water all year round.

4.4.2 There are no registered licensed discharge consents to controlled waters within 250 m of the site.

4.4.3 There are no surface water abstractions located within 250 m of the site.

4.5 Contaminated Land & Landfill Activities

4.5.1 The information presented in the Enviro+GeoInsight Report indicates that there are no historic landfill located on site. However, there is one historic landfill located some 52 m east of the site, that originates within EA/NRW records under the name 'Longley Lane, Northenden, Greater Manchester'. The licensed waste type of this landfill is not known. The landfill operational dates, licenses issue and surrender are not known (site reference of F053), see Figure 12 below.

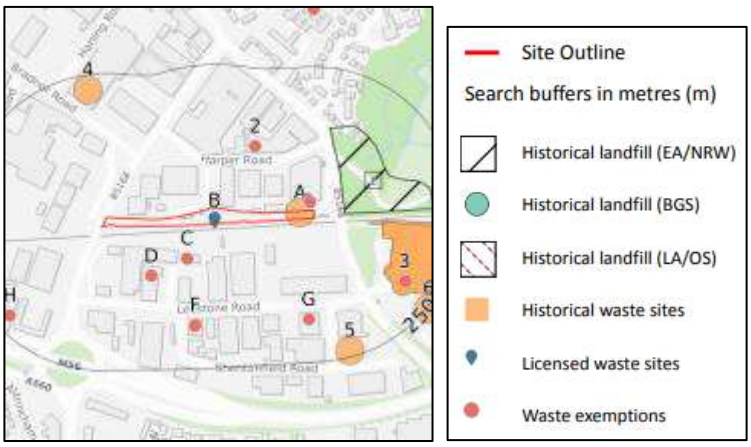


Figure 12: *Historic Landfill (EA/NRW) Located within 250 m of the Site.*

4.5.2 According to the Enviro+GeoInsight Report there is a historic waste site located on site. The historic waste site originates under the name 'Waste Transfer Station, Off Longley Road, Worsley, Manchester, Greater Manchester' and the type of site is classified as 'Waste Transfer Station (Extension)'. The description of site operations state 'Scheme comprises part retrospective application for the creation of a new access point off Sharston Road to existing waste transfer station together with installation of waste processing equipment, site cabins, weigh bridges and storage bins'. The waste site was dated 23/10/2018 and is a historic planning application (site reference of 120297/FO/2018).

4.5.3 There are a further seven historical waste sites located within 250 m of the site. The closest refers to a 'Refuse Treatment Plant' with origins from historical mapping. No further details are provided.

4.5.4 The information presented in the Enviro+GeoInsight Report indicates that there is three licensed waste sites located on site. All three originate under the name 'The Old Railway Station' with the same site address 'The Old Railway Station, Longley Lane, Sharston Ind Est, Manchester and the type of site is classified as 'Household, Commercial & Industrial Waste Transfer station'. Theses licensed waste sites were operational from 1998, and no surrender date is provide.

4.5.5 There are a further three licensed waste sites located off-site some 15 m east of the site. The details of these sites are summarised within Table 3 below.

Location	Site Name & Address	Reference	Category/ Sub-Category/ Description
15 m east	Davidsons Skip Hire Ltd - The Old Railway Station, Longley Lane, Sharston Industrial Area Manchester	---	Household, Commercial & Industrial Waste Transfer Station
15 m east	The Recycling Hutch - The Old Railway Station, Longley Lane, Sharston Industrial Area Manchester	GP3093SD/T001	Household, Commercial & Industrial Waste Transfer Station.
15 m east	- The Old Railweay Station, Longley Lane, Sharston Industrial Area Manchester	EA/EPR/UP3390VZ/T001	Household, Commercial & Industrial Waste Transfer Station

Table 3: List of the Licensed Waste Sites within 250 m of the Site

4.5.6 There are 27 recorded waste exceptions located within 250 m of the site. The closest one to the site refers to both the storage and treating of waste exemptions not on a farm located some 15 m east of the site.

4.5.7 There has been one EA recorded pollution incident on site and a further three recorded within 250 m of the site, as summarised in Table 4.

Location	Details/ Date/ Pollutant / Description	Water/ Land/ Air Impact Category
On site	01/07/2010 Inert Materials and Wastes Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant Impact) Air Impact: Category 3 (Minor Impact)
158 m South	26/101/2001 Inert Materials and Wastes Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor Impact) Air Impact: Category 4 (No Impact)
231 m East	17/07/23 Specific Waste Materials Inorganic Chemical Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
233 m West	22/05/2001 Other Pollutant Other:Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor Impact) Air Impact: Category 4 (No Impact)

237 m South	28/06/2001 Specific Waste Materials Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor Impact) Air Impact: Category 3 (Minor Impact)

Table 4: EA recorded pollution incidents within 250 m of the Site.

4.5.8 There are no NIHHS or COMAH sites, or IPPC Authorised Activities within 250 m of the site.

4.5.9 There is one registered Part A(1) processes situated within 250 m. This refers to a licensed industrial activities record under the name 'Ampil 2 Assest Limited – Ampil Electrium Sharston Road Biomass Boiler' and it was licensed to process MCP located some 173 m north of the site. The license issue date is not stated and last date noted as effective on 23/11/2023. The status of the license is effective with a permit number: WE6081AB.

4.5.10 There are seven registered Part B processes situated within 250 m of the site as summarised in Table 5.

Location	Address	Process	Status	Enforcement Date
19 m west	Blue Circle Industries, Shentonfield Rd, M22 4RT	Use of Bulk Cement	Historical Permit	No
29 m South-east	Breedon Southern LTD, The Railway Sidings, off Leestone Road (Shentonfield Road), Sharston Industrial Estate, M22 4RT	Use of Bulk Cement	Current Permit	No
82 m south	Lafarge Aggregates Limited, The Railway Sidings, Sharston Industrial Estate, M22 4RT	Use of Bulk Cement	Historical Permit	No
120 m south-east	Bellcharm Motor Company Ltd, Accident Repair Centre, Leestone Road, M22 4RB	Respraying Road Vehicles	Historical Permit	No
125 m north-west	Wylex Ltd, Sharston Road, Wythenshawe, M22 4RA	Combustion & Incineration	Historical Permit	No
172 m North	Electrium Sales Ltd, Harper Road, Sharton, Wythenshawe, M22 4RA	Coating Processes	Current Permit	No
184 m West	Aggregate Industries UK Limited, Paston Road, Wythenshawe, Manchester, M22 4TF	Use of Bulk Cement	Current Permit	No

Table 5: Licensed Pollutant Release Part B within 250 m of the site.

4.5.11 The Enviro+GeoInsight Report states that there is 21 potentially contaminative historical industrial sites located on site and a further 113 located within 250 m of the site. BEK has chosen it prudent to review those on site and those closest, within 50 m of the site (See Table 6 below).

Location	Company	Date
On Site	Railway Station	1897 - 1905 – 1908 – 1911 - 1916 – 1923 - 1938 – 1954 – 1967
On Site	Unspecified Factory	1967
On Site	Unspecified Pit	1938
On Site	Unspecified Works	1967
On Site	Cutting	1967 – 1975 – 1985 - 1995
On Site	Goods Yard	1907 - 1938
On Site	Unspecified Ground Workings	1934 - 1938
On Site	Railway Sidings	1938
1 m West	Railway Sidings	1905 – 1916 -1923
1 m West	Goods Yard	1905 - 1923
6 m West	Unspecified Works	1975 -1989 – 1995
6 m South-west	Railway Sidings	1897 -1907
11 m South-west	Railway Sidings	1954 – 1967 - 1975 – 1989 - 1995
12 m South-west	Railway Sidings	1938
13 m West	Unspecified Ground Workings	1954 - 1975
15 m South-west	Cattle Pen	1907
15 m South-west	Goods Yard	1907
15 m South	Railway Building	1897
16 m East	Dairy	1967 – 1975
17 m West	Railway Sidings	1907
21 m South-west	Railway Sidings	1967
26 m West	Cuttings	1916
28 m West	Unspecified Commercial/Industrial	1975
29 m West	Biscuit Factory	1938
30 m West	Industrial Area	1989 – 1995
31 m West	Unspecified Depot	1967
47 m North	Unspecified Works	1975
47 m North-east	Unspecified Works	1975

Table 6: Potentially Recent Contaminative Industries on Site or Within 250 m.

4.5.12 The information presented in the Enviro+GeoInsight Report indicates that there are 38 historical tanks within 250 m of the site. The closest refers to an 'Unspecified Tank' located some 60 m north-east of the site and is dated 1958.

4.5.13 There are five historical railway features located on site. These all refer to railways and railway sidings located in the south of the site, dating from 1898 to 1959.

4.5.14 According to the Enviro+GeoInsight Report there are 53 potentially contaminative industrial sites located within 250 m of the site, the closest of which is a vehicle repair and servicing, located some 14 m north-east of the site.

4.6 Sensitive Land Uses

4.6.1 The site is not affected by any of the ecological systems identified as a statutory receptor in the DETR Circular 01/2006.

4.6.2 The site is not located within a designated nitrate vulnerable zone.

4.7 Radon

4.7.1 The Enviro+GeoInsight Report states that 'the property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level'. Therefore, 'no radon protective measures are necessary'.

4.8 Unexploded Ordnance

4.8.1 The regional unexploded bomb risk map from Zetica (2014) indicates that the site is in an area at Moderate risk from possible Unexploded Ordnance (UXO) resulting from the Second World War.

4.8.2 Further assessment from a suitable UXO expert is required to quantify if the is any risk to site and if any hazard is likely present.

5. POTENTIAL POLLUTANT LINKAGES

5.1 General

5.1.1 This section identifies the potential sources of contamination along with specific contaminants of concern, pathways and receptors that may be associated with the site based on its known history and the current condition and with respect to the re-development of the site for commercial use.

5.1.2 This information is used to develop a preliminary conceptual model which is a qualitative description of potential sources of environmental pollutants, the pathways by which they are transported and the receptors:

i) Potential sources of contamination: these include any actual or potentially contaminating materials and activities, located either on or in the vicinity of the site

ii) Potential pathways for contamination migration: these comprise the routes or mechanisms by which contaminants may migrate from the source to the receptor including environmental migration pathways and human health exposure pathways

iii) Potential receptors of contamination: these include future land users, ecological systems, water resources and property.

5.2 Potential Sources of Contamination

5.2.1 Based on the earliest available maps dating from 1872 the site was shown to form part of Northenden Train Station. A large building located south of the center of the site is marked as Northenden Station. Areas of worked ground are present along the northern and southern site boundaries. By 1910 there has been a small extension to the west of the Northenden Station building. Circa 1977 all building and structures on site have been cleared and are no longer present on the maps. The site remains in this configuration until circa 2022 where an aerial image of the site shows a structure located in the east and west of the site as well as numerous stockpiles of material located across the site.

5.2.2 The Enviro+GeoInsight Report indicates that the site was occupied by a number of licensed waste sites. These sites were licensed to accept 'household, commercial & industrial waste' and were operational from 1998. A more recent historical waste site classified as 'Waste Transfer Station (Extension)' was noted to occupy the site, dated from 23/10/2018. The site also was noted to have various surface ground workings on site.

5.2.3 A EA recorded pollution incident has been reordered on site with a land impact cataegorised as 2 significant impact.

5.2.4 The historical use of the south of the site as a railway, railway siding and railway station is likely to have impacted on the site. Information on the various activities and contaminants of concern associated with the sites use as a railway are provided in the Department of Environment (DoE) Industry Profile for 'Railway' and are summarised below:

- Railway lines are constructed on a layer of crushed or broken rock (ballast) that provided a level formation to support the track. Ash ballast (possibly containing heavy metals, phenols, sulphates and polycyclic aromatic hydrocarbons (PAHs)) would be found in sidings complexes such as the site.

- Fuel oils, lubricating oils and greases may cause localised contamination of ballast and of areas where locomotives and multiple units have stood for significant periods of time.

- Tracks and the immediate trackside margins may be subject to the accumulation of contamination through spillages and leaks or materials stored or used at infrastructure engineering works eg fuel oil, lubricating oils and solvents.

5.2.5 The site walkover confirmed the presence of made ground across the site in the form of hardstanding concrete slabs.

5.2.6 Considering the historical use of the site, a significant depth of made ground is likely present. The nature, source and extent of any made ground is currently unknown and may contain potential contaminants of concern.

5.2.7 The potential contaminants of concern that may be present at the site are summarised below:

Potentially Significant Contaminants of Concern	
Arsenic	Cyanide
Cadmium	Phenols
Chromium	Polycyclic Aromatic Hydrocarbons (PAHs)
Copper	Total Petroleum Hydrocarbons (TPH-CWG)
Lead	Asbestos
Mercury	pH
Nickel	Semi-volatile organic compounds (SVOC)
Selenium	Volatile organic compounds (VOC)
Zinc	
Sulphate	

Table 7: Potential Contaminants of Concern

5.2.8 It should be noted that the above list represents a broad range of potential contaminants of concern. Additional contaminants of concern may be present if ground conditions differ from those anticipated.

5.2.9 Based on the available background information the potential risks from ground gas are considered to be present at the site. A historic landfill is located some 52 m east of site. The nature of the fill is unknown. Further assessment of the risks from ground gas will be required.

5.3 Potential Pathways

5.3.1 The pathways through which contaminants may reach receptors are in part dependent by the nature and behaviour of the contaminant and the intended end use of the site (commercial).

5.3.2 The following potential pathways have been identified with respect to the existing site condition, historical use of the site, the environmental setting and the re-development of the site to commercial use which are assessed in the conceptual model:

- Dermal contact of contaminated soil
- Ingestion of contaminated soil/home grown vegetables
- Inhalation of contamination dust
- Dissolution or suspension (leaching) of contaminants into pore waters affecting plant growth
- Indoor inhalation of ground gas/organic vapours
- Dissolution or suspension (leaching) of contaminants from site soils leading to contamination of groundwater
- Dissolution or suspension (leaching) of contaminants from site soils leading to lateral migration within perched waters to on-site and off-site receptors. Potential significant pathways include more permeable layers within the made ground/natural strata, underground services and piles/foundations.
- Contamination affecting the integrity of service pipelines by direct contact
- Buildings affected by direct contact with elevated concentrations of sulphate and/or extreme pH

5.4 Receptors

5.4.1 Potential site-specific receptors that may be affected by contamination at the site are listed below:

Future Site Users

5.4.2 Future residents of the site could be at risk from contamination present at the site.

5.4.3 Potential risks are associated with ingestion of soils and home grown vegetables as well as inhalation of contaminated dust/vapours (including asbestos fibres) and dermal contact with contaminants of concern. These risks are all associated with the garden areas, or any open spaces of the proposed development.

5.4.4 In addition, risks associated with indoor inhalation of ground gas/organic vapours need to be assessed.

Construction Workers

5.4.5 The primary risks to construction workers are associated with shallow excavations as asbestos could be present. Asbestos fibers (if present) can be released into the atmosphere during earthworks.

5.4.6 Standard personal protective equipment and site specific risk assessments and method statements should reduce risks associated with other contaminants of concern due to short exposure duration.

Off Site Receptors

5.4.7 Off site receptors include residents to the east and west of the site. Human health could be at risk if asbestos fibres are released during the development.

Flora

5.4.8 Heavy metals can be phytotoxic and if present can represent a potential risk to flora in the landscaped areas.

Buildings & Services

5.4.9 The integrity of service pipes can be affected by concentrations of organic contamination.

Controlled Waters

5.4.10 Ther are no surface water features on site. The closest surface water feature is located some 125 m east of the site. Given the significant distant from site is not considered to be a receptor.

5.4.11 The superficial strata is classified as a Secondary A Aquifers and is considered a sensitive receptor.

5.4.12 The bedrock aquifer is classified as 'Secondary B Aquifer' with a Principle Aquifer classification in the easternmost part, these both are considered as potential receptors.

5.5 Preliminary Conceptual Model

5.5.1 The identified potential sources of contaminants, pathways and receptors have been assessed to establish plausible pollutant linkages. All potentially significant pollutant linkages are detailed in Table B, in Appendix D.

5.6 Potentially Significant Pollutant Linkages

5.6.1 A number of possible 'significant pollutant linkages' have been identified associated with the site.

5.6.2 Potential risks have been identified to the harm of the health of humans both on and off site due to the potential for direct contact with contaminants in the made ground and the ingestion of contaminated soil/dust **(Link 1).** This pollutant linkage is only applicable in the landscaped areas of the site.

5.6.3 There is also the possibility of windblown particulates being inhaled by people/animals both on site and off site **(Link 2).**

5.6.4 Human health could be at risk by the inhalation of ground gases migrating into properties on site **(Link 3)** and/or volatile contamination migrating into properties on site **(Link 4).**

5.6.5 Property could be affected by direct contact to high concentrations of contaminants **(Link 5).**

5.6.6 Dissolution or suspension (leaching) of contaminants from site soils leading to lateral migration within perched permeable layers within the made ground/natural strata, underground services and foundations impacting on quality of perched water (shallow aquifer) **(Link 6).**

5.6.7 Dissolution or suspension (leaching) of contaminants from site soils leading to impact on the underlying Secondary B and Principle Aquifer within the bedrock. Potential significant pathways include areas where Boulder Clay is absent, locations of deep piles/foundations and springs/wells **(Link 7).**

5.6.8 Site investigation is required to identify site specific conditions and assess the risks associated with each identified plausible pollutant linkage.

6. RECOMMENDATIONS

6.1 Based on the findings of the Preliminary Risk Assessment herein, the potential risks associated with contamination have been identified to human health, controlled waters, flora and property (including services). The risks are associated with the presence of made ground and contamination associated with former activities.

6.3 BEK recommends that the following site investigation works are carried out to characterise the shallow ground conditions and quantify the potential risks identified. The site investigation will also provide sufficient information to support a geotechnical assessment to inform foundation design options.

Site Investigation

6.4 The investigation should comprise the drilling of a series of boreholes to confirm ground conditions across the site, in particular the characterise the nature and extent of the made ground. This will identify any possibly significant risks associated with contamination and ground gas.

6.5 In-situ strength testing will be carried out and samples recovered for chemical and geotechnical testing. All samples for chemical testing will be collected in appropriate sampling vessels, stored in a precooled cool box and dispatched to the laboratory within 24 hours.

6.6 The site investigation should be supervised by an experienced engineer who will be responsible for recording ground conditions encountered.

6.7 Gas/groundwater monitoring probes should be installed within selected boreholes to support further controlled waters risk assessment and a ground gas risk assessment.

Environmental Monitoring

6.8 The borehole installation will be monitored to establish the ground gas regime. To comply with current guidance this will comprise of a minimum of 6 visits over a 3 month period.

6.9 Each monitoring visit will record weather conditions, water levels, gas flow rates and concentrations of carbon dioxide, methane and oxygen (monitoring should be carried out during periods of falling or low barometric conditions).

6.10 Groundwater samples will be recovered from the boreholes during the first monitoring visit for chemical testing (if present).

Laboratory Testing

6.11 Following a review of ground conditions encountered, a selection of samples will be tested for the contaminants of concern listed in Table 7 of this report. If visual or olfactory evidence of contamination is encountered (including any made ground) during the site investigation then it may be necessary to undertake additional testing.

6.12 Depending on ground conditions encountered, samples will be submitted for geotechnical testing to inform foundation design options.

6.13 All testing will be carried out by a UKAS accredited laboratory to MCERTS standard (where applicable).

Data Assessment

6.14 The investigation findings will be assessed as part of a quantitative risk assessment to amend the conceptual site model and identify any potential significant pollutant linkages.

6.15 Analysis of laboratory test results determine a geotechnical assessment to inform foundation design.

6.16 The assessments will be undertaken in accordance with current UK guidance and policy.

Reporting

6.17 The works undertaken will be detailed in a Site Investigation & Ground Assessment report along with full justifications for the assessment and the conclusions and any recommendations.

Other Considerations

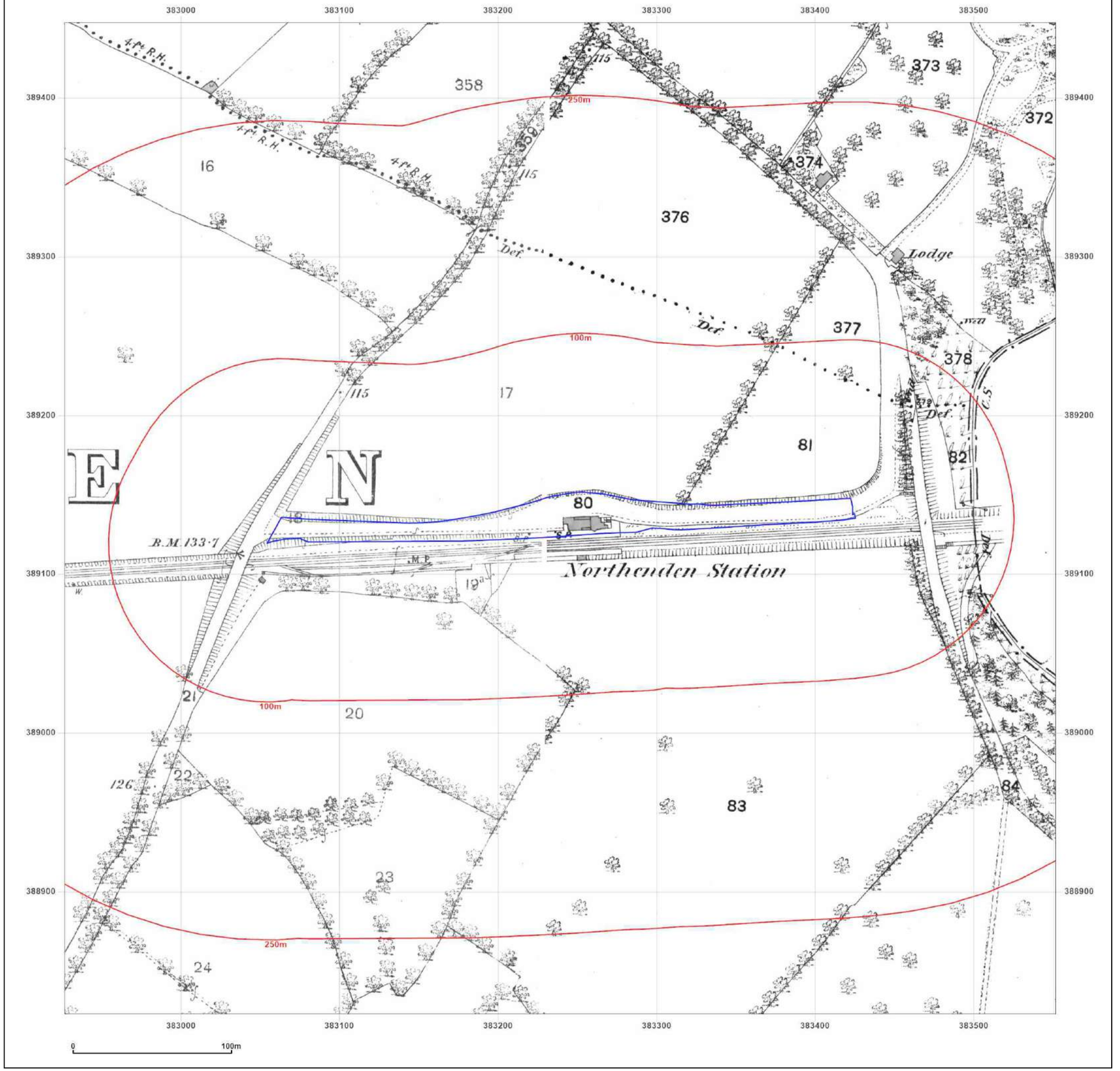
6.18 It may be necessary to carry out soakaway testing to BRE365 to inform surface water drainage options.

6.19 The Coal Authority Interactive Map indicates that there is a mine entry in close proximity to the eastern site boundary. Further assessment will be required to determine shaft location and if the zone of influence impacts on the site.

6.20 We would also recommend that consideration is given to the requirements of the water supply service provider and the completion of the UKWIR risk assessment for water pipe selection.

APPENDIX A

Historical OS Maps



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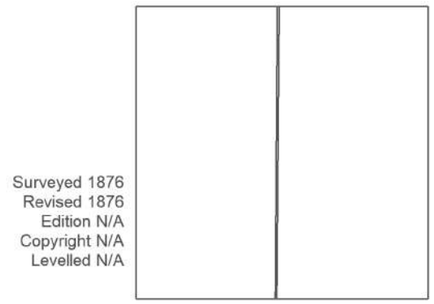
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Map Name: County Series
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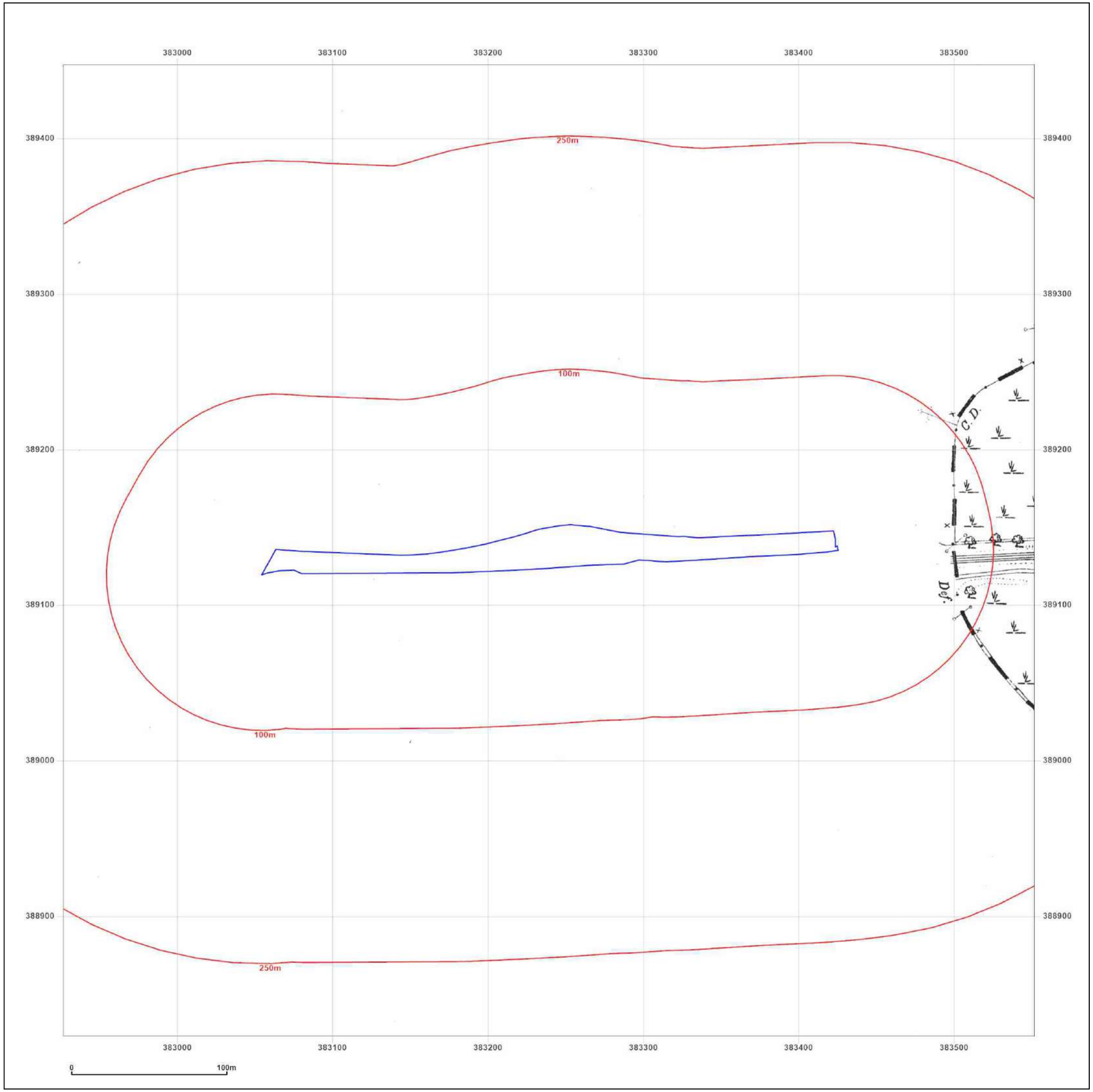
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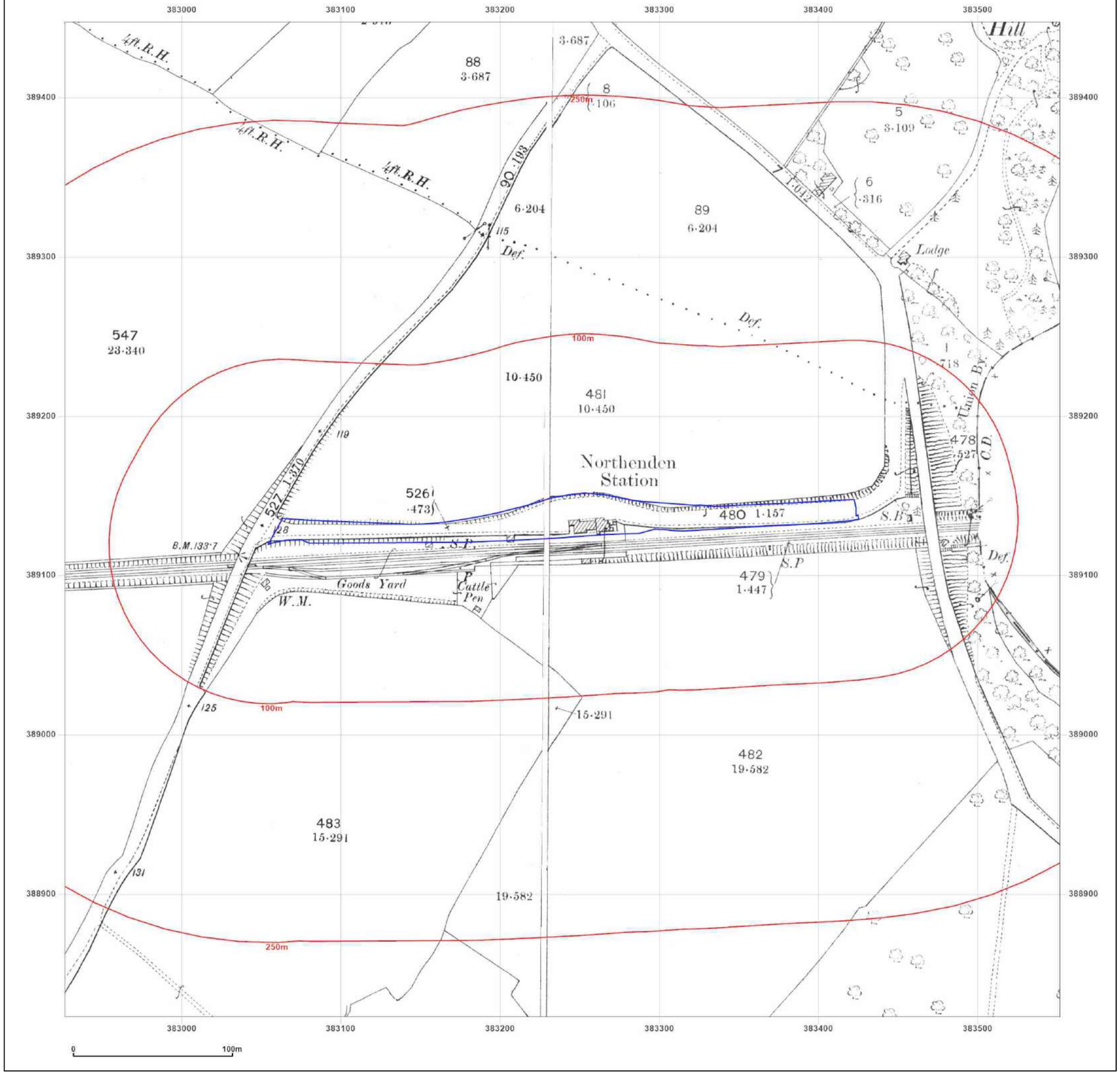
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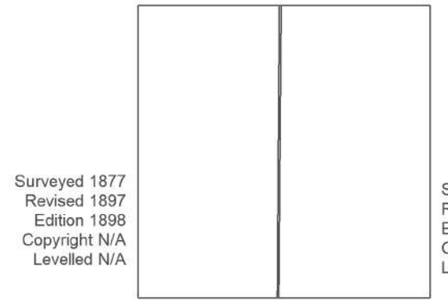
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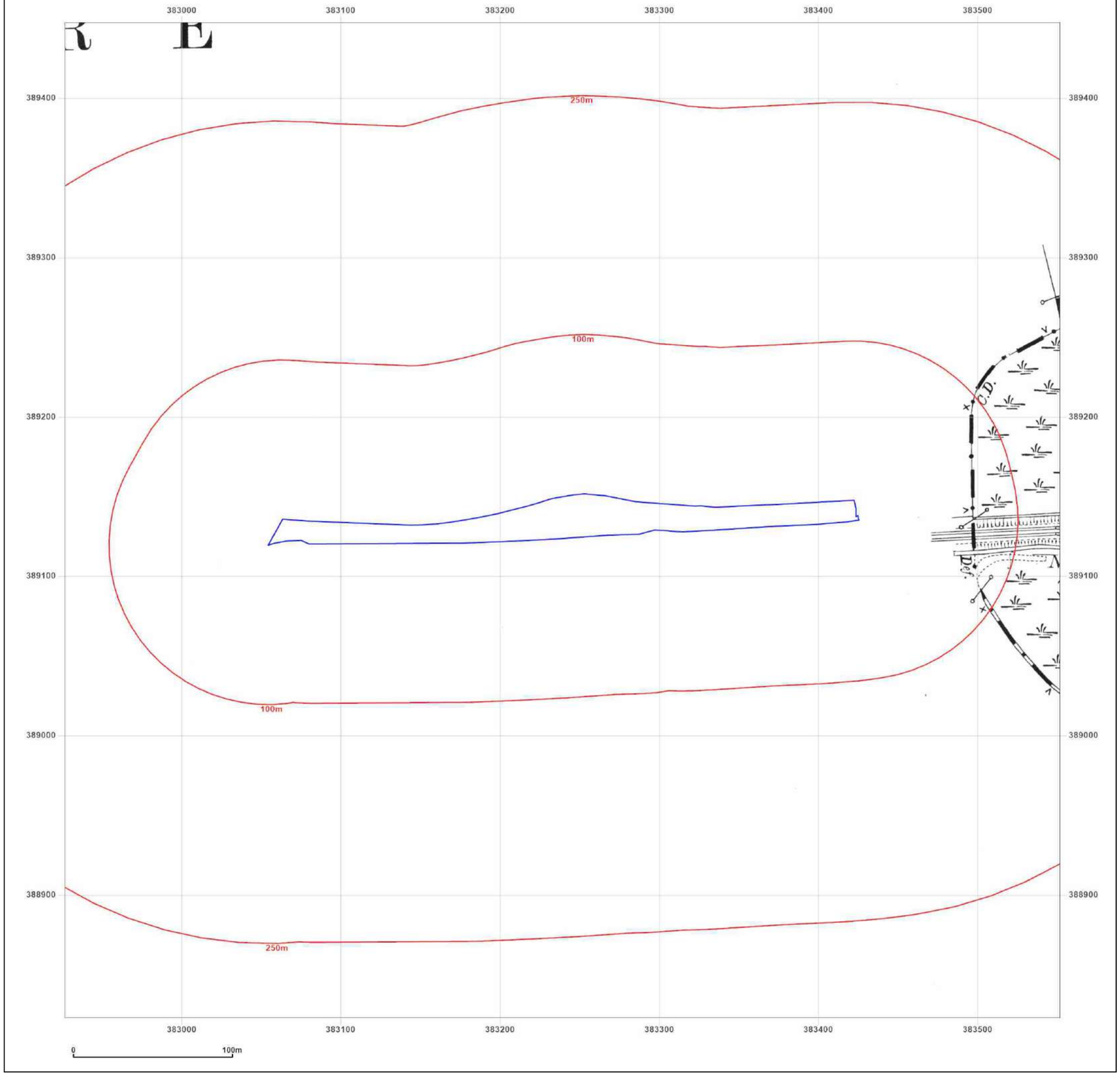
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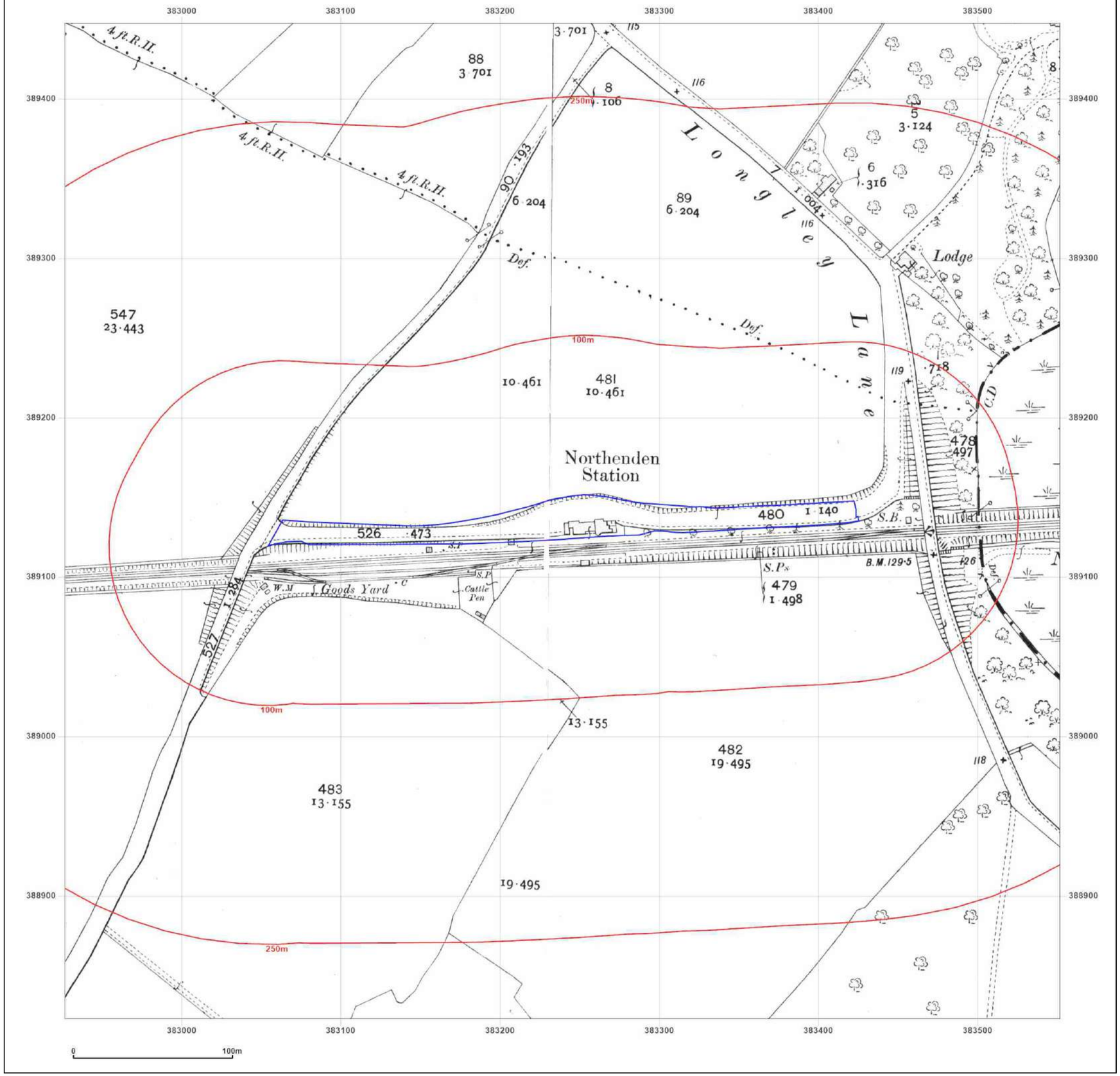
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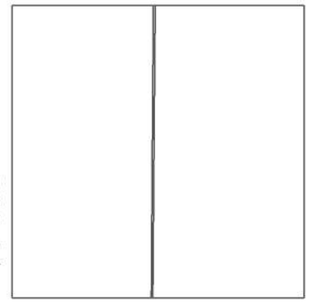
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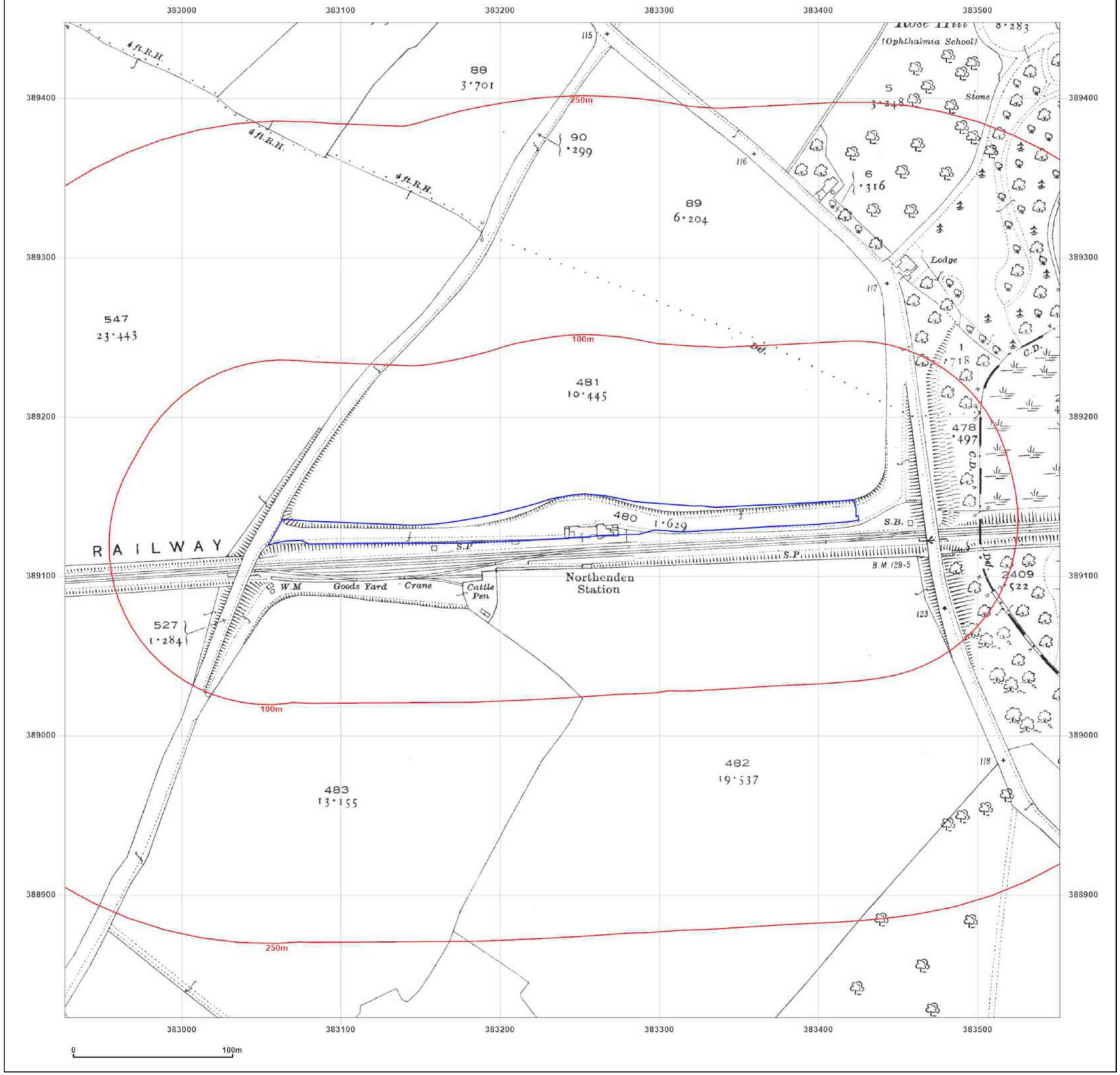
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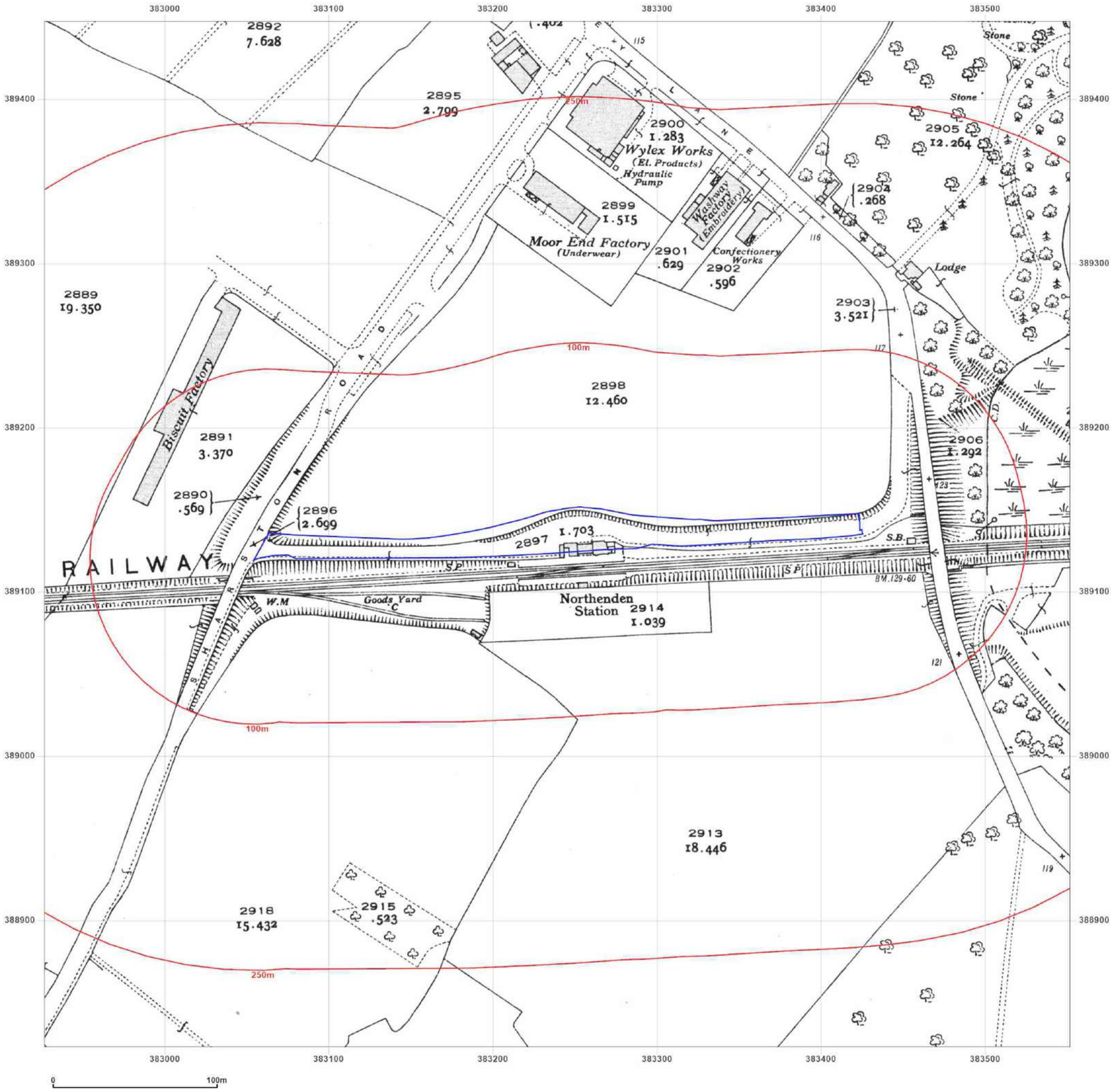
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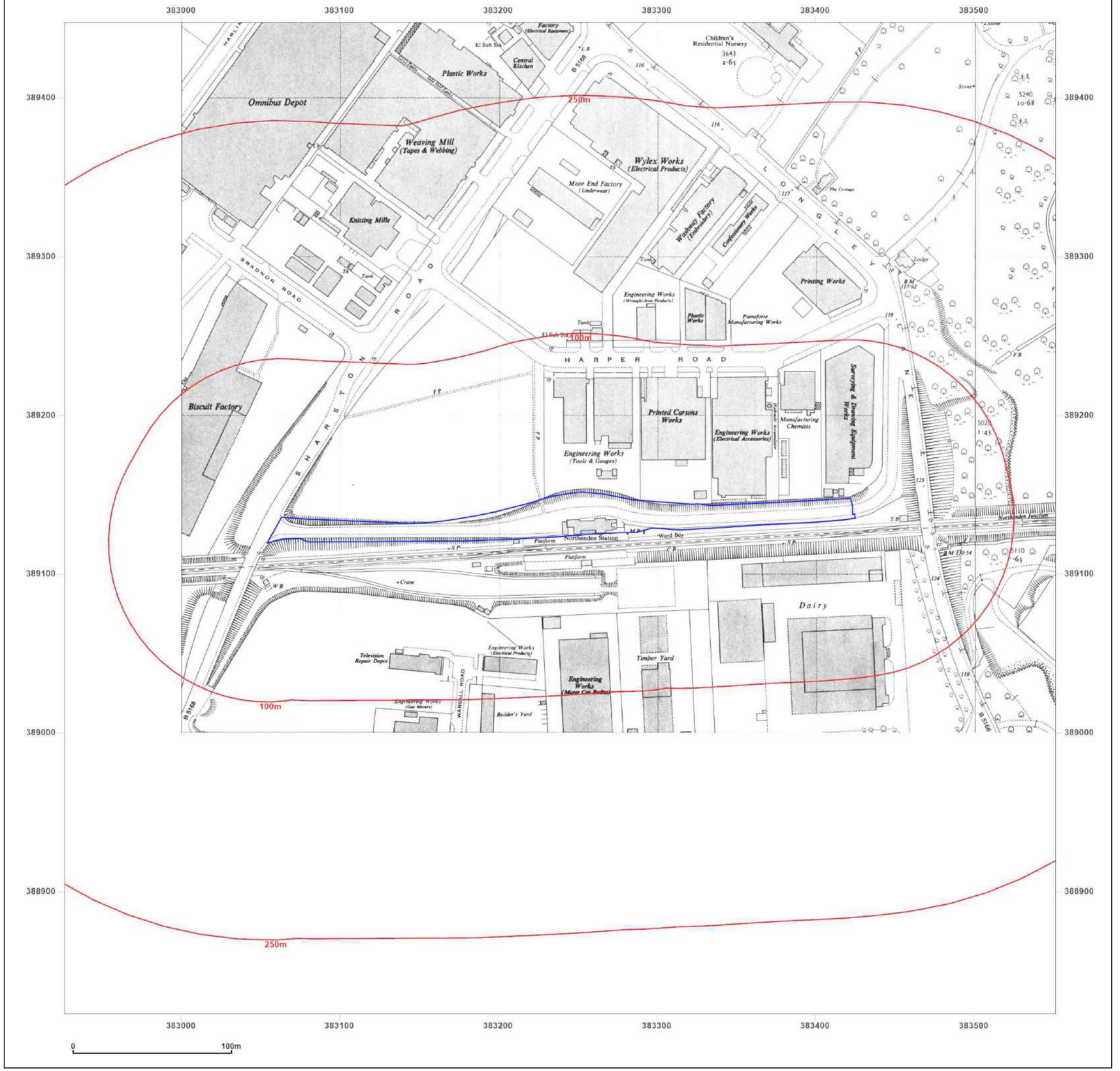
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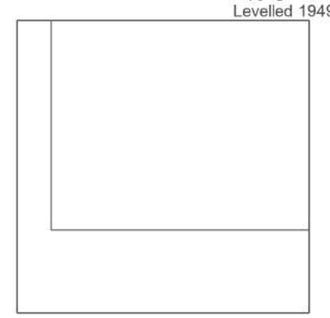
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APPENDIX B

Enviro+GeoInsight Report

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LOCATION INTELLIGENCE

Enviro+Geo Insight

SHARSTON INDUSTRIAL ESTATE, MANCHESTER, M22 4SS

Order Details

Date: 08/03/2024

Your ref: 8130-24035-MLM

Our Ref: GS-JF5-5IU-OVI-G78

Site Details

Location: 383244 389134

Area: 0.6 ha

Authority: Manchester City Council ↗



Summary of findings p. 2 >

OS MasterMap site plan p.13 >

Aerial image p. 9 >

groundsure.com/insightuserguide ↗

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
14 >	1.1 >	Historical industrial land uses >	18	24	48	43	-
19 >	1.2 >	Historical tanks >	0	0	21	19	-
21 >	1.3 >	Historical energy features >	0	0	7	10	-
22	1.4	Historical petrol stations	0	0	0	0	-
22 >	1.5 >	Historical garages >	0	0	0	10	-
23	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped >	On site	0-50m	50-250m	250-500m	500-2000m
24 >	2.1 >	Historical industrial land uses >	21	37	76	61	-
32 >	2.2 >	Historical tanks >	0	0	38	34	-
34 >	2.3 >	Historical energy features >	0	0	22	21	-
36	2.4	Historical petrol stations	0	0	0	0	-
36 >	2.5 >	Historical garages >	0	0	0	14	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
38	3.1	Active or recent landfill	0	0	0	0	-
38	3.2	Historical landfill (BGS records)	0	0	0	0	-
39	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
39 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	0	-
39 >	3.5 >	Historical waste sites >	1	0	9	3	-
43 >	3.6 >	Licensed waste sites >	3	3	0	7	-
48 >	3.7 >	Waste exemptions >	0	9	16	2	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
51 >	4.1 >	Recent industrial land uses >	0	4	49	-	-
55 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
55	4.3	Electricity cables	0	0	0	0	-
55	4.4	Gas pipelines	0	0	0	0	-
56	4.5	Sites determined as Contaminated Land	0	0	0	0	-

56	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
56	4.7	Regulated explosive sites	0	0	0	0	-
56	4.8	Hazardous substance storage/usage	0	0	0	0	-
56	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
57 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	1	34	-
63 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	2	6	6	-
65	4.12	Radioactive Substance Authorisations	0	0	0	0	-
65	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
65	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
65	4.15	Pollutant release to public sewer	0	0	0	0	-
65	4.16	List 1 Dangerous Substances	0	0	0	0	-
66	4.17	List 2 Dangerous Substances	0	0	0	0	-
66 >	4.18 >	Pollution Incidents (EA/NRW) >	1	0	6	0	-
67	4.19	Pollution inventory substances	0	0	0	0	-
67	4.20	Pollution inventory waste transfers	0	0	0	0	-
67	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	**Hydrogeology** >	On site	0-50m	50-250m	250-500m	500-2000m
68 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
70 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
72 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
73	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
73	5.5	Groundwater vulnerability- local information	None (within 0m)				
74 >	5.6 >	Groundwater abstractions >	0	0	0	2	5
76 >	5.7 >	Surface water abstractions >	0	0	0	0	2
77	5.8	Potable abstractions	0	0	0	0	0
77	5.9	Source Protection Zones	0	0	0	0	-
77	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	**Hydrology** >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	6.1 >	Water Network (OS MasterMap) >	0	0	8	-	-

79 >	6.2 >	Surface water features >	0	0	2	-	-
79 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
80 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
80 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
82	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
83 >	7.2 >	Historical Flood Events >	0	0	1	-	-
83	7.3	Flood Defences	0	0	0	-	-
83	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
83	7.5	Flood Storage Areas	0	0	0	-	-
84	7.6	Flood Zone 2	None (within 50m)				
84	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
85 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
87 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
88	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
89	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
89	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
89	10.4	Special Protection Areas (SPA)	0	0	0	0	0
89	10.5	National Nature Reserves (NNR)	0	0	0	0	0
90 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	3
90 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	3
90	10.8	Biosphere Reserves	0	0	0	0	0
91	10.9	Forest Parks	0	0	0	0	0
91	10.10	Marine Conservation Zones	0	0	0	0	0
91 >	10.11 >	Green Belt >	0	0	1	0	3
91	10.12	Proposed Ramsar sites	0	0	0	0	0

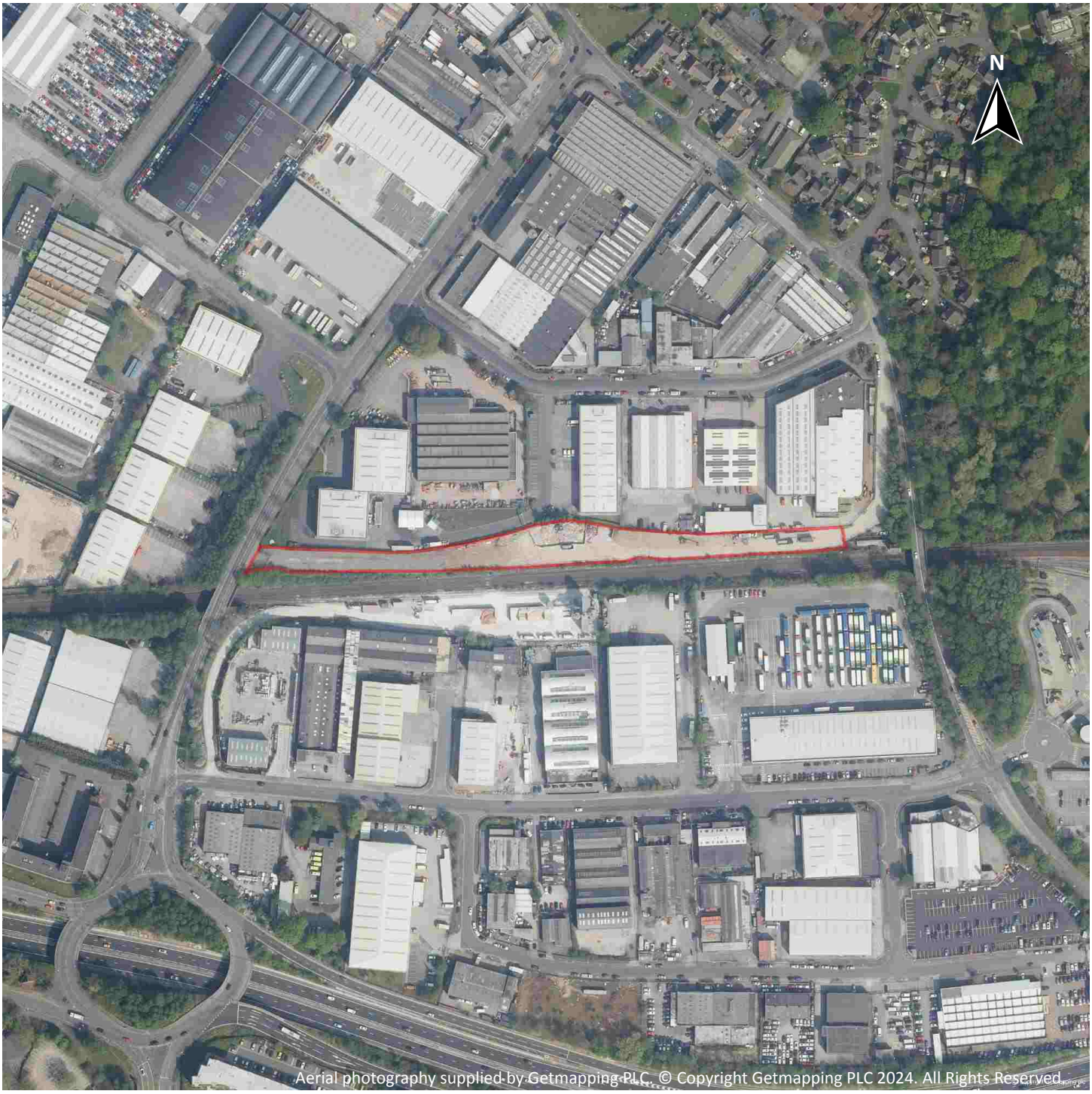
92	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
92	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
92	10.15	Nitrate Sensitive Areas	0	0	0	0	0
92	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
93 >	**10.17 >**	**SSSI Impact Risk Zones >**	1	-	-	-	-
94	10.18	SSSI Units	0	0	0	0	0
Page	Section	**Visual and cultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
95	11.1	World Heritage Sites	0	0	0	-	-
96	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
96	11.3	National Parks	0	0	0	-	-
96 >	**11.4 >**	**Listed Buildings >**	0	0	1	-	-
97	11.5	Conservation Areas	0	0	0	-	-
97	11.6	Scheduled Ancient Monuments	0	0	0	-	-
97	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	**Agricultural designations >**	On site	0-50m	50-250m	250-500m	500-2000m
98 >	**12.1 >**	**Agricultural Land Classification >**	Urban (within 250m)				
99	12.2	Open Access Land	0	0	0	-	-
99 >	**12.3 >**	**Tree Felling Licences >**	0	0	3	-	-
99	12.4	Environmental Stewardship Schemes	0	0	0	-	-
99	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
101 >	**13.1 >**	**Priority Habitat Inventory >**	0	1	12	-	-
102	13.2	Habitat Networks	0	0	0	-	-
102	13.3	Open Mosaic Habitat	0	0	0	-	-
102	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
104 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
105	14.2	Artificial and made ground (10k)	0	0	0	0	-
106 >	**14.3 >**	**Superficial geology (10k) >**	1	1	3	1	-

107	14.4	Landslip (10k)	0	0	0	0	-
108 >	14.5 >	Bedrock geology (10k) >	2	0	0	0	-
109 >	14.6 >	Bedrock faults and other linear features (10k) >	1	0	0	0	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
110 >	15.1 >	50k Availability >	Identified (within 500m)				
111	15.2	Artificial and made ground (50k)	0	0	0	0	-
111	15.3	Artificial ground permeability (50k)	0	0	-	-	-
112 >	15.4 >	Superficial geology (50k) >	1	0	4	1	-
113 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
113	15.6	Landslip (50k)	0	0	0	0	-
113	15.7	Landslip permeability (50k)	None (within 50m)				
114 >	15.8 >	Bedrock geology (50k) >	2	0	0	0	-
115 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
115 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	0	0	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
116 >	16.1 >	BGS Boreholes >	0	4	25	-	-
Page	Section	Natural ground subsidence >					
118 >	17.1 >	Shrink swell clays >	Negligible (within 50m)				
119 >	17.2 >	Running sands >	Very low (within 50m)				
120 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
121 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
122 >	17.5 >	Landslides >	Very low (within 50m)				
123 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
125 >	18.1 >	BritPits >	0	0	0	1	-
126 >	18.2 >	Surface ground workings >	6	3	28	-	-
127	18.3	Underground workings	0	0	0	0	0
128	18.4	Underground mining extents	0	0	0	0	-
128	18.5	Historical Mineral Planning Areas	0	0	0	0	-

128	18.6	Non-coal mining	0	0	0	0	0
128	18.7	JPB mining areas	None (within 0m)				
128	18.8	The Coal Authority non-coal mining	0	0	0	0	-
129	18.9	Researched mining	0	0	0	0	-
129	18.10	Mining record office plans	0	0	0	0	-
129	18.11	BGS mine plans	0	0	0	0	-
129	18.12	Coal mining	None (within 0m)				
130	18.13	Brine areas	None (within 0m)				
130	18.14	Gypsum areas	None (within 0m)				
130	18.15	Tin mining	None (within 0m)				
130	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
131	19.1	Natural cavities	0	0	0	0	-
131	19.2	Mining cavities	0	0	0	0	0
131	19.3	Reported recent incidents	0	0	0	0	-
131	19.4	Historical incidents	0	0	0	0	-
132	19.5	National karst database	0	0	0	0	-
Page	Section	**Radon >**					
133 >	**20.1 >**	**Radon >**	Less than 1% (within 0m)				
Page	Section	**Soil chemistry >**	On site	0-50m	50-250m	250-500m	500-2000m
135 >	**21.1 >**	**BGS Estimated Background Soil Chemistry >**	2	0	-	-	-
135	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
135	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	**Railway infrastructure and projects >**	On site	0-50m	50-250m	250-500m	500-2000m
136	22.1	Underground railways (London)	0	0	0	-	-
136	22.2	Underground railways (Non-London)	0	0	0	-	-
137	22.3	Railway tunnels	0	0	0	-	-
137 >	**22.4 >**	**Historical railway and tunnel features >**	5	23	2	-	-
138	22.5	Royal Mail tunnels	0	0	0	-	-

138	22.6	Historical railways	0	0	0	-	-
139 >	**22.7 >**	**Railways >**	0	9	19	-	-
140	22.8	Crossrail 1	0	0	0	0	-
140	22.9	Crossrail 2	0	0	0	0	-
140	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 0.6ha

Recent site history - 2016 aerial photograph



Capture Date: 21/04/2016

Site Area: 0.6ha

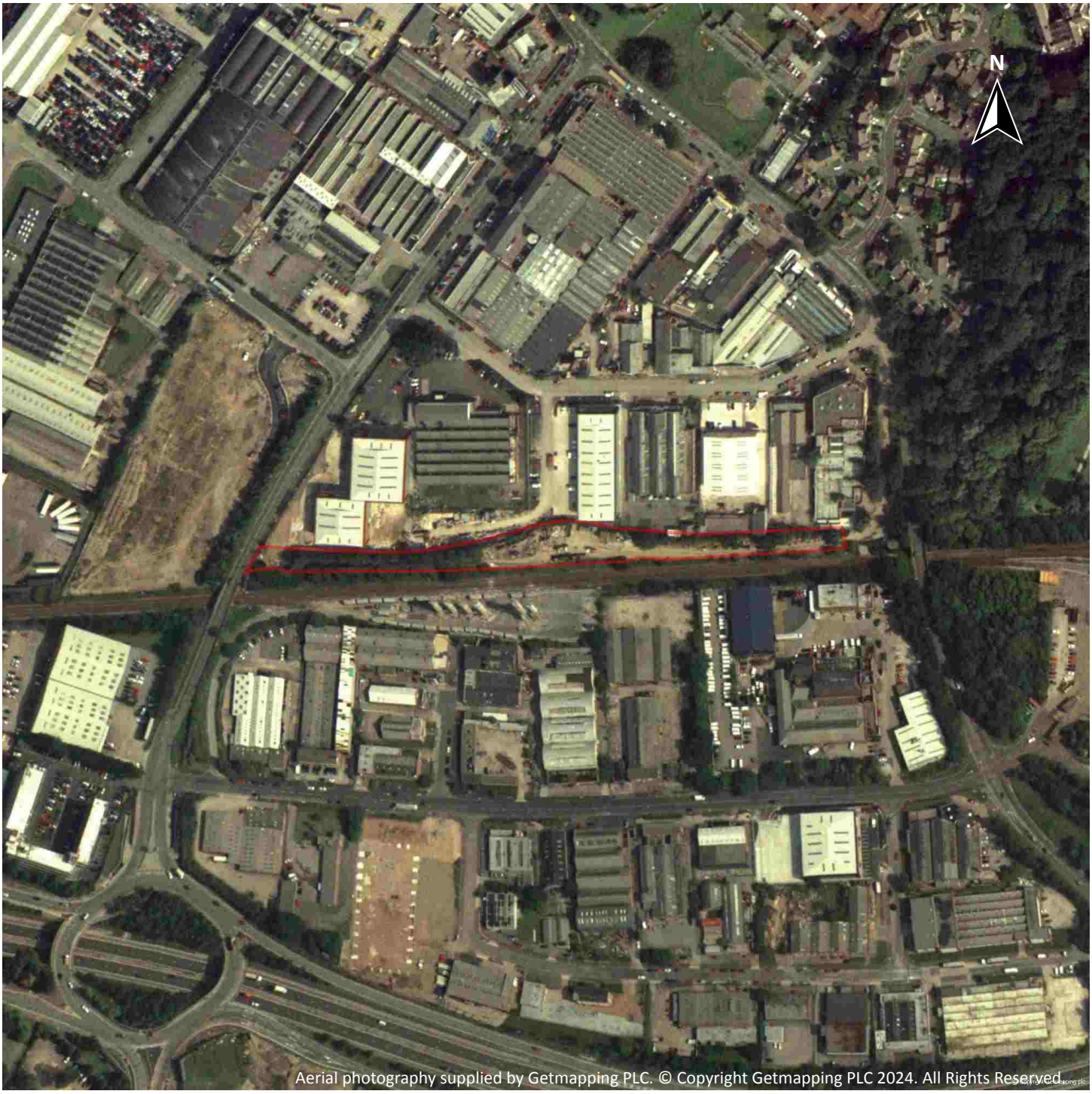
Recent site history - 2009 aerial photograph



Capture Date: 02/06/2009

Site Area: 0.6ha

Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

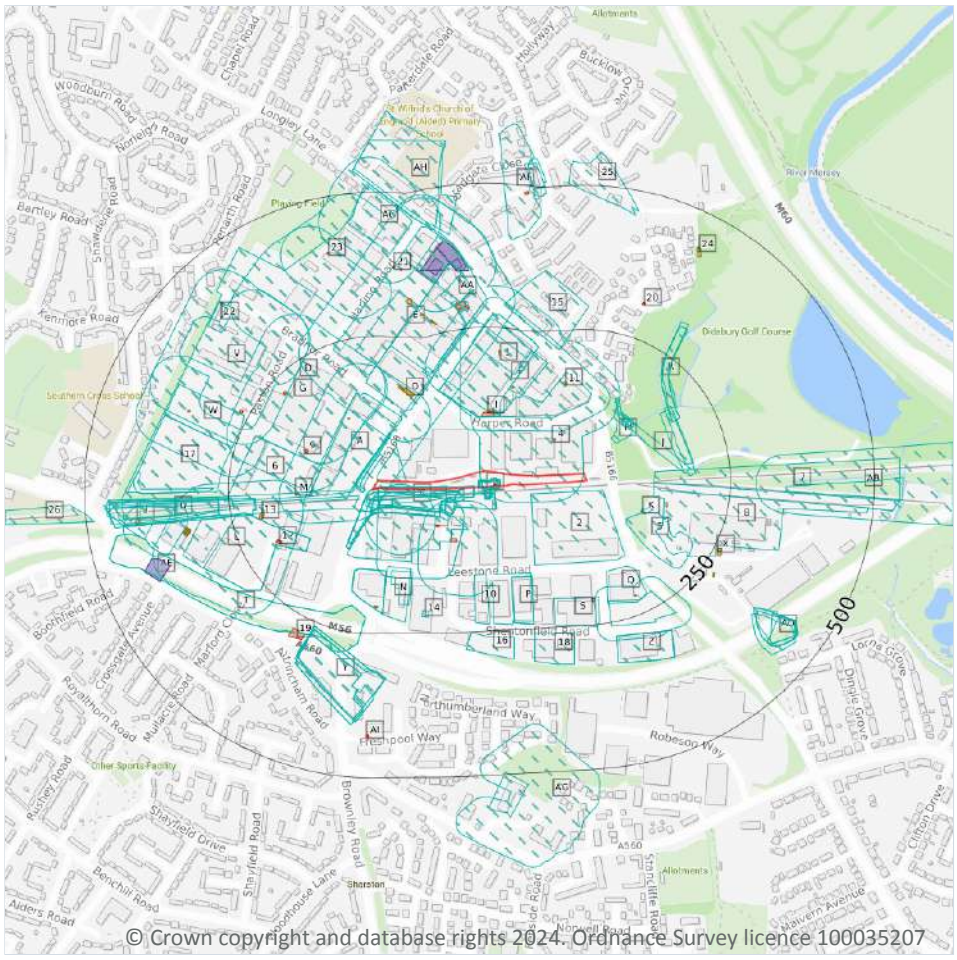
Site Area: 0.6ha

OS MasterMap site plan



Site Area: 0.6ha

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	133

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
1	**On site**	**Unspecified Works**	**1967 - 1975**	**947070**

ID	Location	Land use	Dates present	Group ID
A	**On site**	**Unspecified Factory**	**1967**	**821361**
A	**On site**	**Unspecified Pit**	**1938**	**878163**
B	**On site**	**Railway Station**	**1911**	**853270**
B	**On site**	**Railway Station**	**1938 - 1954**	**864828**
B	**On site**	**Railway Station**	**1897**	**914784**
B	**On site**	**Railway Station**	**1905**	**934022**
B	**On site**	**Railway Station**	**1908**	**952137**
B	**On site**	**Railway Station**	**1916 - 1923**	**974279**
B	**On site**	**Railway Station**	**1967**	**975957**
B	**On site**	**Railway Station**	**1938**	**981464**
C	**On site**	**Railway Sidings**	**1938**	**870748**
C	**On site**	**Goods Yard**	**1907**	**942162**
C	**On site**	**Cuttings**	**1975**	**954249**
C	**On site**	**Goods Yard**	**1938**	**961373**
C	**On site**	**Cuttings**	**1995**	**969786**
C	**On site**	**Cuttings**	**1967**	**972711**
C	**On site**	**Cuttings**	**1989**	**987116**
C	1m W	Goods Yard	1916 - 1923	899879
C	1m W	Railway Sidings	1905	856893
C	1m W	Railway Sidings	1916	901280
C	1m W	Goods Yard	1905	964693
C	1m W	Railway Sidings	1923	975632
C	6m W	Unspecified Works	1975	899031
C	6m W	Unspecified Works	1989 - 1995	918753
C	6m SW	Railway Sidings	1897	871549
C	6m SW	Railway Sidings	1907	910591
C	11m SW	Railway Sidings	1938 - 1975	983359
C	11m SW	Railway Sidings	1989 - 1995	962412

ID	Location	Land use	Dates present	Group ID
A	13m W	Unspecified Ground Workings	1975	902540
A	13m W	Unspecified Ground Workings	1954	881931
C	15m SW	Cattle Pen	1907	847094
C	15m SW	Goods Yard	1907	902910
B	15m S	Railway Building	1897	820217
2	16m E	Dairy	1967 - 1975	884632
C	17m W	Railway Sidings	1907	862162
C	21m SW	Unspecified Works	1967	969348
3	26m W	Cuttings	1916	858541
A	28m W	Unspecified Commercial/Industrial	1975	796918
A	29m W	Biscuit Factory	1938	822573
D	30m W	Industrial Area	1989 - 1995	886534
C	31m W	Unspecified Depot	1967	818397
D	65m W	Unspecified Works	1967 - 1975	848219
E	69m NW	Unspecified Works	1954	923521
F	71m N	Unspecified Factories	1938	821679
G	74m W	Unspecified Works	1967	947069
H	76m E	Unspecified Ground Workings	1954 - 1967	898389
F	95m N	Unspecified Commercial/Industrial	1989 - 1995	869701
F	95m N	Unspecified Works	1975	910097
5	96m E	Unspecified Heap	1938 - 1954	948738
6	97m W	Unspecified Depot	1975	818398
F	100m N	Unspecified Factory	1938 - 1954	920671
J	109m E	Unspecified Heap	1954	895378
K	109m E	Unspecified Ground Workings	1954	800679
H	113m NE	Unspecified Ground Workings	1975	933416
7	118m E	Railway Building	1989	820218
8	118m E	Refuse Treatment Plant	1989	818932

ID	Location	Land use	Dates present	Group ID
H	119m NE	Unspecified Ground Workings	1989 - 1995	868668
E	123m NW	Unspecified Mills	1975	808159
L	124m W	Unspecified Works	1967 - 1975	980770
N	134m SW	Ambulance Station	1989 - 1995	853482
L	137m W	Unspecified Factory	1975	821362
L	137m W	Unspecified Commercial/Industrial	1989	905468
N	138m SW	Unspecified Works	1975	897830
N	138m SW	Unspecified Commercial/Industrial	1989 - 1995	973744
N	141m SW	Ambulance Depot	1967	842357
10	152m S	Unspecified Works	1967	925611
J	159m E	Unspecified Heap	1916 - 1923	866124
P	159m SE	Unspecified Works	1975	853469
P	159m SE	Unspecified Commercial/Industrial	1989 - 1995	962600
Q	161m SE	Unspecified Works	1967	851550
J	167m E	Unspecified Heap	1954	962529
F	172m N	Unspecified Works	1938	947695
R	178m E	Unspecified Heap	1989	844942
R	178m E	Unspecified Heap	1967 - 1975	946325
E	183m NW	Unspecified Depot	1967 - 1975	858743
E	186m NW	Unspecified Mill	1967	810329
R	186m E	Unspecified Heap	1995	912592
Q	188m SE	Unspecified Works	1975	952126
S	200m SE	Unspecified Works	1967 - 1975	988692
T	204m SW	Cuttings	1989 - 1995	938073
T	204m SW	Cuttings	1975	958973
U	204m W	Cuttings	1923 - 1938	884642
V	206m W	Unspecified Works	1975	879932
U	206m W	Cuttings	1905 - 1907	872421

ID	Location	Land use	Dates present	Group ID
14	211m SW	Ambulance Station	1995	827875
Q	213m SE	Unspecified Commercial/Industrial	1989 - 1995	899748
15	216m NE	Nursery	1967	831895
V	231m NW	Unspecified Works	1967	950657
U	242m W	Cuttings	1897	918576
16	250m S	Unspecified Depot	1967	818396
W	253m W	Unspecified Commercial/Industrial	1975	796919
17	254m W	Unspecified Depot	1967 - 1975	978440
Y	257m SW	Nurseries	1907	845421
Y	257m SW	Nurseries	1907	865573
18	258m S	Unspecified Depot	1967	818395
Y	262m SW	Nurseries	1938	892234
Y	263m SW	Nurseries	1907	912798
U	268m W	Cuttings	1989 - 1995	975478
U	268m W	Cuttings	1975	939179
U	269m W	Cuttings	1967	891134
Y	271m SW	Nurseries	1905	955483
Y	271m SW	Nurseries	1916 - 1923	964045
Z	275m SE	Unspecified Commercial/Industrial	1989 - 1995	929991
Z	275m SE	Unspecified Works	1967 - 1975	986319
U	275m W	Unspecified Ground Workings	1967	800678
AA	289m N	Unspecified Works	1938	875640
AB	294m E	Rifle Range	1938	984128
U	324m W	Ambulance Station	1967	827874
AA	337m N	Unspecified Commercial/Industrial	1975	796917
U	341m W	Cuttings	1954	877928
AC	343m NW	Unspecified Factory	1967	821374
AB	345m E	Rifle Range	1892	856933

ID	Location	Land use	Dates present	Group ID
U	345m W	Cuttings	1938	905113
AD	364m SE	Old Gravel Pit	1954	927508
AD	369m SE	Old Gravel Pit	1916 - 1938	865924
AD	369m SE	Unspecified Pit	1938	874565
22	373m NW	Unspecified Depot	1967	818400
AD	373m SE	Old Gravel Pit	1905	904338
U	385m W	Fire and Police Station	1938	818075
AC	394m N	Unspecified Commercial/Industrial	1975	796920
AD	397m SE	Unspecified Pit	1897	984412
AF	404m N	Nursery	1938 - 1954	957043
AD	408m SE	Old Gravel Pit	1908 - 1911	975785
AG	415m S	Nursery	1967 - 1975	852505
AH	416m N	Nursery	1907	949658
AH	428m N	Nursery	1905	860460
25	457m NE	Nursery	1938 - 1954	985340
AF	483m N	Smithy	1897	890428
26	487m W	Cuttings	1938	919257
AF	495m N	Smithy	1911 - 1923	950680
AF	495m N	Smithy	1905	985371
AG	496m S	Council Depot	1989 - 1995	895259

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	40

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

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

ID	Location	Land use	Dates present	Group ID
4	60m NE	Unspecified Tank	1959	114988
I	103m N	Unspecified Tank	1956 - 1995	122551
A	117m NW	Unspecified Tank	1992 - 1995	124570
M	130m W	Unspecified Tank	1992 - 1996	124970
M	131m W	Unspecified Tank	1987	141874
M	131m W	Unspecified Tank	1980	132126
M	131m W	Unspecified Tank	1980	142711
K	143m E	Unspecified Tank	1983 - 1996	126252
O	147m NW	Unspecified Tank	1956	131475
O	147m NW	Unspecified Tank	1956	139760
F	148m N	Unspecified Tank	1956	142654
F	148m N	Unspecified Tank	1956	133893
11	154m NE	Unspecified Tank	1992 - 1995	128326
O	157m NW	Unspecified Tank	1956 - 1967	132204
O	159m NW	Unspecified Tank	1956	114987
13	192m W	Tanks	1987 - 1996	147973
N	202m SW	Tanks	1978	107217
N	202m SW	Tanks	1978	107220
F	207m N	Unspecified Tank	1956 - 1967	138673
F	207m N	Unspecified Tank	1992 - 1995	147609
Q	215m SE	Unspecified Tank	1978	116986
X	256m E	Unspecified Tank	1983 - 1996	122663
X	260m E	Unspecified Tank	1983 - 1996	129219
E	266m N	Tanks	1956	129316
E	266m N	Tanks	1956	139865
E	271m N	Tanks	1956	135107
X	272m E	Unspecified Tank	1978 - 1997	123124
E	286m N	Tanks	1956 - 1995	133688

ID	Location	Land use	Dates present	Group ID
E	309m N	Unspecified Tank	1992 - 1995	142448
U	324m W	Tanks	1959 - 1980	130803
U	324m W	Tanks	1959 - 1967	128212
U	325m W	Unspecified Tank	1987	114984
U	328m W	Tanks	1959 - 1967	137055
U	330m W	Unspecified Tank	1987	114986
W	345m W	Unspecified Tank	1967	130829
W	346m W	Unspecified Tank	1980	136062
W	346m W	Unspecified Tank	1980	141164
21	368m NW	Unspecified Tank	1956	137392
23	402m NW	Unspecified Tank	1992	140916
24	425m NE	Tanks	1898	107203

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**17**

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

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

ID	Location	Land use	Dates present	Group ID
C	63m SW	Electricity Substation	1992 - 1995	76405
C	86m SW	Electricity Substation	1992 - 1995	70212
I	95m N	Electricity Substation	1956	77649
9	130m W	Electricity Substation	1980 - 1996	74073
12	181m W	Electricity Substation	1980	84996
S	204m SE	Electricity Substation	1978 - 1995	74406

ID	Location	Land use	Dates present	Group ID
G	219m NW	Electricity Substation	1987 - 1996	77529
G	262m W	Electricity Substation	1980	72041
19	276m SW	Electricity Substation	1978 - 1992	80919
AA	281m N	Electricity Substation	1956	66476
AA	284m N	Electricity Substation	1956 - 1995	69493
20	309m NE	Electricity Substation	1996	62390
U	407m W	Electricity Substation	1980 - 1996	71352
AI	425m SW	Electricity Substation	1978	71178
AI	425m SW	Electricity Substation	1987	83352
AI	427m SW	Electricity Substation	1992 - 1995	67030
AF	484m N	Electricity Substation	1984 - 1992	66709

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	10

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

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

ID	Location	Land use	Dates present	Group ID
AA	336m N	Garage	1956	24007
AA	349m N	Garage	1956 - 1959	25721
AA	350m N	Garage	1984	24105
AA	351m N	Garage	1956 - 1959	27603
AA	351m N	Garage	1967	22097
AA	353m N	Garage	1956 - 1959	25318
AA	356m N	Garage	1967	23279
AA	357m N	Garage	1956 - 1959	24600
AE	376m W	Garage	1959	24008
AE	376m W	Garage	1960	21168

This data is sourced from Ordnance Survey / Groundsure.

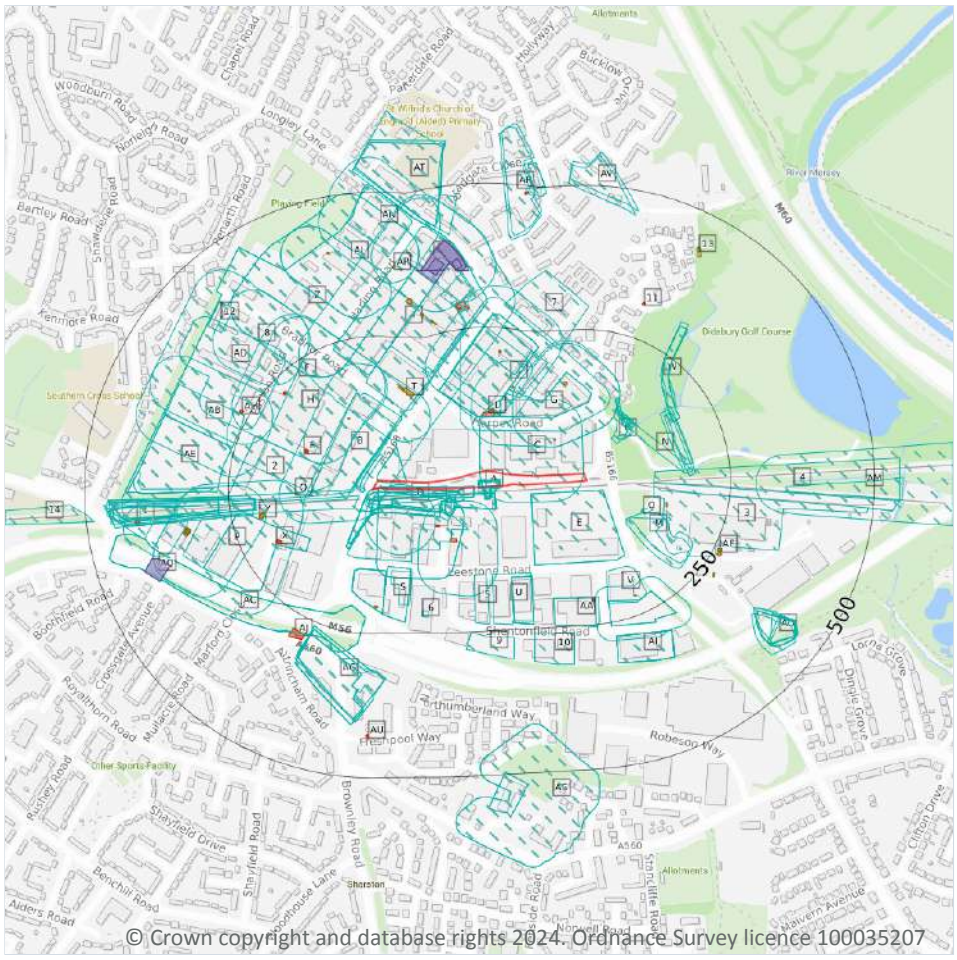
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



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2.1 Historical industrial land uses

Records within 500m	195

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

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

ID	Location	Land Use	Date	Group ID
A	**On site**	**Railway Station**	**1938**	**981464**
A	**On site**	**Railway Station**	**1938**	**864828**
A	**On site**	**Railway Station**	**1916**	**974279**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Railway Station**	**1905**	**934022**
A	**On site**	**Railway Station**	**1908**	**952137**
A	**On site**	**Railway Station**	**1923**	**974279**
A	**On site**	**Railway Station**	**1954**	**864828**
A	**On site**	**Railway Station**	**1967**	**975957**
A	**On site**	**Railway Station**	**1897**	**914784**
A	**On site**	**Railway Station**	**1911**	**853270**
B	**On site**	**Unspecified Factory**	**1967**	**821361**
B	**On site**	**Unspecified Pit**	**1938**	**878163**
B	**On site**	**Unspecified Pit**	**1938**	**878163**
C	**On site**	**Unspecified Works**	**1967**	**947070**
D	**On site**	**Cuttings**	**1995**	**969786**
D	**On site**	**Cuttings**	**1967**	**972711**
D	**On site**	**Goods Yard**	**1907**	**942162**
D	**On site**	**Cuttings**	**1975**	**954249**
D	**On site**	**Cuttings**	**1989**	**987116**
D	**On site**	**Goods Yard**	**1938**	**961373**
D	**On site**	**Railway Sidings**	**1938**	**870748**
D	1m W	Railway Sidings	1916	901280
D	1m W	Goods Yard	1916	899879
D	1m W	Railway Sidings	1905	856893
D	1m W	Goods Yard	1905	964693
D	1m W	Goods Yard	1923	899879
D	1m W	Railway Sidings	1923	975632
D	6m W	Unspecified Works	1995	918753
D	6m W	Unspecified Works	1975	899031
D	6m W	Unspecified Works	1989	918753
D	6m SW	Railway Sidings	1897	871549

ID	Location	Land Use	Date	Group ID
D	6m SW	Railway Sidings	1907	910591
D	11m SW	Railway Sidings	1975	983359
D	11m SW	Railway Sidings	1989	962412
D	11m SW	Railway Sidings	1954	983359
D	11m S	Railway Sidings	1967	983359
D	11m S	Railway Sidings	1995	962412
D	12m SW	Railway Sidings	1938	983359
B	13m W	Unspecified Ground Workings	1975	902540
B	13m W	Unspecified Ground Workings	1954	881931
D	15m SW	Cattle Pen	1907	847094
D	15m SW	Goods Yard	1907	902910
D	15m SW	Goods Yard	1907	902910
D	15m SW	Cattle Pen	1907	847094
A	15m S	Railway Building	1897	820217
E	16m E	Dairy	1967	884632
E	16m E	Dairy	1975	884632
D	17m W	Railway Sidings	1907	862162
D	17m W	Railway Sidings	1907	862162
D	21m SW	Unspecified Works	1967	969348
1	26m W	Cuttings	1916	858541
B	28m W	Unspecified Commercial/Industrial	1975	796918
B	29m W	Biscuit Factory	1938	822573
F	30m W	Industrial Area	1995	886534
F	30m W	Industrial Area	1989	886534
D	31m W	Unspecified Depot	1967	818397
G	47m N	Unspecified Works	1975	947070
G	49m NE	Unspecified Works	1967	947070
H	65m W	Unspecified Works	1975	848219

ID	Location	Land Use	Date	Group ID
I	69m NW	Unspecified Works	1954	923521
J	71m N	Unspecified Factories	1938	821679
H	74m W	Unspecified Works	1967	947069
K	76m E	Unspecified Ground Workings	1954	898389
J	79m N	Unspecified Works	1967	947070
K	85m E	Unspecified Ground Workings	1967	898389
J	95m N	Unspecified Commercial/Industrial	1995	869701
J	95m N	Unspecified Works	1975	910097
J	95m N	Unspecified Commercial/Industrial	1989	869701
M	96m E	Unspecified Heap	1938	948738
2	97m W	Unspecified Depot	1975	818398
G	97m N	Unspecified Commercial/Industrial	1995	869701
G	97m N	Unspecified Commercial/Industrial	1989	869701
M	100m E	Unspecified Heap	1954	948738
J	100m N	Unspecified Factory	1954	920671
N	109m E	Unspecified Heap	1954	895378
O	109m E	Unspecified Ground Workings	1954	800679
K	113m NE	Unspecified Ground Workings	1975	933416
J	116m N	Unspecified Factory	1938	920671
3	118m E	Refuse Treatment Plant	1989	818932
4	118m E	Railway Building	1989	820218
K	119m NE	Unspecified Ground Workings	1995	868668
K	119m NE	Unspecified Ground Workings	1989	868668
I	123m NW	Unspecified Mills	1975	808159
P	124m W	Unspecified Works	1967	980770
S	134m SW	Ambulance Station	1995	853482
S	134m SW	Ambulance Station	1989	853482
P	137m W	Unspecified Factory	1975	821362

ID	Location	Land Use	Date	Group ID
P	137m W	Unspecified Commercial/Industrial	1989	905468
S	138m SW	Unspecified Commercial/Industrial	1995	973744
S	138m SW	Unspecified Works	1975	897830
S	138m SW	Unspecified Commercial/Industrial	1989	973744
S	141m SW	Ambulance Depot	1967	842357
5	152m S	Unspecified Works	1967	925611
U	152m S	Unspecified Works	1967	969348
N	159m E	Unspecified Heap	1916	866124
U	159m SE	Unspecified Commercial/Industrial	1995	962600
U	159m SE	Unspecified Works	1975	853469
U	159m SE	Unspecified Commercial/Industrial	1989	962600
V	161m SE	Unspecified Works	1967	851550
N	165m E	Unspecified Heap	1923	866124
N	167m E	Unspecified Heap	1954	962529
J	172m N	Unspecified Works	1938	947695
W	178m E	Unspecified Heap	1967	946325
W	178m E	Unspecified Heap	1975	946325
W	178m E	Unspecified Heap	1989	844942
I	183m NW	Unspecified Depot	1967	858743
I	183m NW	Unspecified Depot	1975	858743
I	186m NW	Unspecified Mill	1967	810329
W	186m E	Unspecified Heap	1995	912592
V	188m SE	Unspecified Works	1975	952126
P	189m W	Unspecified Works	1975	980770
Z	199m NW	Unspecified Works	1967	848219
Z	199m NW	Unspecified Works	1975	848219
AA	200m SE	Unspecified Works	1967	988692
AA	200m SE	Unspecified Works	1975	988692

ID	Location	Land Use	Date	Group ID
AB	203m W	Unspecified Works	1967	947069
AC	204m SW	Cuttings	1995	938073
AC	204m SW	Cuttings	1975	958973
AC	204m SW	Cuttings	1989	938073
P	204m W	Cuttings	1938	884642
AD	206m W	Unspecified Works	1975	879932
P	206m W	Cuttings	1907	872421
P	207m W	Cuttings	1907	872421
P	207m W	Cuttings	1907	872421
6	211m SW	Ambulance Station	1995	827875
P	211m W	Cuttings	1923	884642
P	211m W	Cuttings	1905	872421
V	213m SE	Unspecified Commercial/Industrial	1995	899748
V	213m SE	Unspecified Commercial/Industrial	1989	899748
7	216m NE	Nursery	1967	831895
8	231m NW	Unspecified Works	1967	950657
AD	233m W	Unspecified Works	1967	950657
P	239m W	Unspecified Commercial/Industrial	1989	905468
P	242m W	Cuttings	1897	918576
9	250m S	Unspecified Depot	1967	818396
AB	253m W	Unspecified Commercial/Industrial	1975	796919
AE	254m W	Unspecified Depot	1967	978440
AE	254m W	Unspecified Depot	1975	978440
AG	257m SW	Nurseries	1907	845421
AG	257m SW	Nurseries	1907	865573
10	258m S	Unspecified Depot	1967	818395
AG	262m SW	Nurseries	1938	892234
AG	263m SW	Nurseries	1907	912798

ID	Location	Land Use	Date	Group ID
P	268m W	Cuttings	1995	975478
P	268m W	Cuttings	1989	975478
P	268m W	Cuttings	1975	939179
P	269m W	Cuttings	1967	891134
AG	271m SW	Nurseries	1916	964045
AG	271m SW	Nurseries	1905	955483
AG	271m SW	Nurseries	1923	964045
AI	275m SE	Unspecified Commercial/Industrial	1995	929991
AI	275m SE	Unspecified Works	1967	986319
AI	275m SE	Unspecified Works	1975	986319
AI	275m SE	Unspecified Commercial/Industrial	1989	929991
P	275m W	Unspecified Ground Workings	1967	800678
AL	283m NW	Unspecified Works	1967	947070
AL	283m NW	Unspecified Works	1975	947070
AK	287m N	Unspecified Works	1967	947070
AK	289m N	Unspecified Works	1938	875640
AM	294m E	Rifle Range	1938	984128
P	324m W	Ambulance Station	1967	827874
AK	337m N	Unspecified Commercial/Industrial	1975	796917
P	341m W	Cuttings	1954	877928
AN	343m NW	Unspecified Factory	1967	821374
AM	345m E	Rifle Range	1892	856933
P	345m W	Cuttings	1938	905113
AO	364m SE	Old Gravel Pit	1954	927508
AO	369m SE	Old Gravel Pit	1938	865924
AO	369m SE	Unspecified Pit	1938	874565
12	373m NW	Unspecified Depot	1967	818400
AO	373m SE	Old Gravel Pit	1923	865924

ID	Location	Land Use	Date	Group ID
AO	373m SE	Old Gravel Pit	1916	865924
AO	373m SE	Old Gravel Pit	1905	904338
P	385m W	Fire and Police Station	1938	818075
AN	394m N	Unspecified Commercial/Industrial	1975	796920
AO	397m SE	Unspecified Pit	1897	984412
AR	404m N	Nursery	1938	957043
AO	408m SE	Old Gravel Pit	1908	975785
AR	411m N	Nursery	1954	957043
AO	413m SE	Old Gravel Pit	1911	975785
AS	415m S	Nursery	1967	852505
AS	415m S	Nursery	1975	852505
AT	416m N	Nursery	1907	949658
AT	428m N	Nursery	1905	860460
AT	433m N	Nursery	1907	949658
AT	433m N	Nursery	1907	949658
AV	457m NE	Nursery	1938	985340
AV	464m NE	Nursery	1954	985340
AR	483m N	Smithy	1897	890428
14	487m W	Cuttings	1938	919257
AR	495m N	Smithy	1916	950680
AR	495m N	Smithy	1905	985371
AR	495m N	Smithy	1923	950680
AS	496m S	Council Depot	1995	895259
AS	496m S	Council Depot	1989	895259

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**72**

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

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

ID	Location	Land Use	Date	Group ID
C	60m NE	Unspecified Tank	1959	114988
L	103m N	Unspecified Tank	1995	122551
L	103m N	Unspecified Tank	1992	122551
L	105m N	Unspecified Tank	1956	122551
L	105m N	Unspecified Tank	1967	122551
L	105m N	Unspecified Tank	1956	122551
B	117m NW	Unspecified Tank	1995	124570
B	117m NW	Unspecified Tank	1992	124570
Q	130m W	Unspecified Tank	1996	124970
Q	130m W	Unspecified Tank	1992	124970
Q	130m W	Unspecified Tank	1992	124970
Q	131m W	Unspecified Tank	1980	142711
Q	131m W	Unspecified Tank	1980	132126
Q	131m W	Unspecified Tank	1987	141874
O	143m E	Unspecified Tank	1983	126252
O	144m E	Unspecified Tank	1996	126252
T	147m NW	Unspecified Tank	1956	131475
T	147m NW	Unspecified Tank	1956	139760
J	148m N	Unspecified Tank	1956	142654
J	148m N	Unspecified Tank	1956	133893
G	154m NE	Unspecified Tank	1995	128326
G	154m NE	Unspecified Tank	1992	128326
T	157m NW	Unspecified Tank	1956	132204

ID	Location	Land Use	Date	Group ID
T	157m NW	Unspecified Tank	1967	132204
T	159m NW	Unspecified Tank	1956	114987
Y	192m W	Tanks	1996	147973
Y	192m W	Tanks	1992	147973
Y	192m W	Tanks	1992	147973
Y	193m W	Tanks	1987	147973
S	202m SW	Tanks	1978	107217
S	202m SW	Tanks	1978	107220
J	207m N	Unspecified Tank	1956	138673
J	207m N	Unspecified Tank	1959	138673
J	207m N	Unspecified Tank	1956	138673
J	207m N	Unspecified Tank	1967	138673
J	207m N	Unspecified Tank	1995	147609
J	207m N	Unspecified Tank	1992	147609
V	215m SE	Unspecified Tank	1978	116986
AF	256m E	Unspecified Tank	1983	122663
AF	257m E	Unspecified Tank	1996	122663
AF	260m E	Unspecified Tank	1983	129219
AF	260m E	Unspecified Tank	1996	129219
I	266m N	Tanks	1956	129316
I	266m N	Tanks	1956	139865
I	271m N	Tanks	1956	135107
AF	272m E	Unspecified Tank	1978	123124
AF	272m E	Unspecified Tank	1992	123124
AF	272m E	Unspecified Tank	1997	123124
I	286m N	Tanks	1995	133688
I	286m N	Tanks	1992	133688
I	287m N	Tanks	1956	133688

ID	Location	Land Use	Date	Group ID
I	288m N	Tanks	1956	133688
I	288m N	Tanks	1967	133688
I	309m N	Unspecified Tank	1995	142448
I	309m N	Unspecified Tank	1992	142448
P	324m W	Tanks	1959	130803
P	324m W	Tanks	1959	128212
P	324m W	Tanks	1967	128212
P	325m W	Tanks	1980	130803
P	325m W	Tanks	1980	130803
P	325m W	Unspecified Tank	1987	114984
P	328m W	Tanks	1959	137055
P	328m W	Tanks	1967	137055
P	330m W	Unspecified Tank	1987	114986
AB	345m W	Unspecified Tank	1967	130829
AB	346m W	Unspecified Tank	1980	141164
AB	346m W	Unspecified Tank	1980	136062
AP	368m NW	Unspecified Tank	1956	137392
AP	368m NW	Unspecified Tank	1956	137392
AL	402m NW	Unspecified Tank	1992	140916
AL	402m NW	Unspecified Tank	1992	140916
13	425m NE	Tanks	1898	107203

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	43

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

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

ID	Location	Land Use	Date	Group ID
D	63m SW	Electricity Substation	1995	76405
D	63m SW	Electricity Substation	1992	76405
D	86m SW	Electricity Substation	1995	70212
D	86m SW	Electricity Substation	1992	70212
L	95m N	Electricity Substation	1956	77649
L	95m N	Electricity Substation	1956	77649
R	130m W	Electricity Substation	1996	74073
R	130m W	Electricity Substation	1992	74073
R	130m W	Electricity Substation	1992	74073
R	131m W	Electricity Substation	1980	74073
R	131m W	Electricity Substation	1980	74073
R	131m W	Electricity Substation	1987	74073
X	181m W	Electricity Substation	1980	84996
X	181m W	Electricity Substation	1980	84996
AA	204m SE	Electricity Substation	1978	74406
AA	204m SE	Electricity Substation	1987	74406
AA	206m SE	Electricity Substation	1992	74406
AA	206m SE	Electricity Substation	1995	74406
H	219m NW	Electricity Substation	1987	77529
H	219m NW	Electricity Substation	1996	77529
H	219m NW	Electricity Substation	1992	77529
H	219m NW	Electricity Substation	1992	77529
AH	262m W	Electricity Substation	1980	72041
AH	262m W	Electricity Substation	1980	72041
AJ	276m SW	Electricity Substation	1978	80919
AJ	277m SW	Electricity Substation	1992	80919
AK	281m N	Electricity Substation	1956	66476
AK	284m N	Electricity Substation	1995	69493

ID	Location	Land Use	Date	Group ID
AK	284m N	Electricity Substation	1992	69493
AK	286m N	Electricity Substation	1956	69493
11	309m NE	Electricity Substation	1996	62390
P	407m W	Electricity Substation	1996	71352
P	407m W	Electricity Substation	1992	71352
P	407m W	Electricity Substation	1992	71352
P	408m W	Electricity Substation	1980	71352
P	408m W	Electricity Substation	1980	71352
P	408m W	Electricity Substation	1987	71352
AU	425m SW	Electricity Substation	1978	71178
AU	425m SW	Electricity Substation	1987	83352
AU	427m SW	Electricity Substation	1992	67030
AU	427m SW	Electricity Substation	1995	67030
AR	484m N	Electricity Substation	1992	66709
AR	485m N	Electricity Substation	1984	66709

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	14

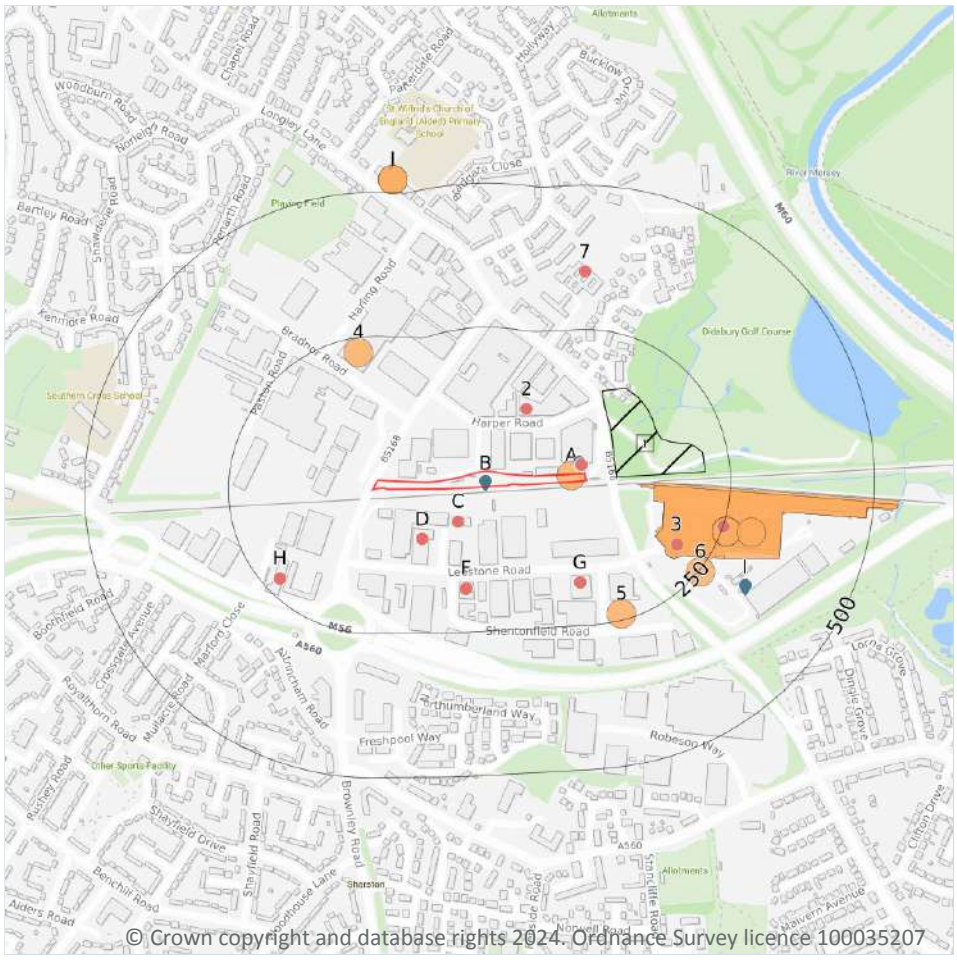
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
AK	336m N	Garage	1956	24007
AK	349m N	Garage	1956	25721
AK	349m N	Garage	1959	25721
AK	350m N	Garage	1984	24105
AK	351m N	Garage	1959	27603
AK	351m N	Garage	1956	27603
AK	351m N	Garage	1967	22097
AK	353m N	Garage	1956	25318
AK	353m N	Garage	1959	25318
AK	356m N	Garage	1967	23279
AK	357m N	Garage	1959	24600
AK	357m N	Garage	1956	24600
AQ	376m W	Garage	1959	24008
AQ	376m W	Garage	1960	21168

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 38 >**

ID	Location	Details		
1	52m E	Site Address: Longley Lane, Northenden, Greater Manchester Licence Holder Address: -	Waste Licence: - Site Reference: F053 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	13

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 38 >**

ID	Location	Address	Further Details	Date
A	**On site**	**Site Address: Waste Transfer Station To The, Off Longley Road, Worsley, Manchester, Greater Manchester, M28 3**	**Type of Site: Waste Transfer Station (Extension)** **Planning application reference: 120297/FO/2018** **Description: Scheme comprises part retrospective application for the creation of a new access point off Sharston Road to existing waste transfer station together with installation of waste processing equipment, site cabins, weigh bridges and storage bins.** **Data source: Historic Planning Application** **Data Type: Point**	**23/10/2018**
E	95m E	Site Address: N/A	Type of Site: Refuse Treatment Plant Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1982
E	117m E	Site Address: N/A	Type of Site: Refuse Treatment Plant Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
E	119m E	Site Address: N/A	Type of Site: Refuse Treatment Plant Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1996
4	199m NW	Site Address: The Astrodome, Bradnor Road, Sharston, MANCHESTER, Greater Manchester, M22 4TX	Type of Site: Waste Recycling Plant Planning application reference: 043960/93 Description: No Details Data source: Historic Planning Application Data Type: Point	-

ID	Location	Address	Further Details	Date
5	214m SE	Site Address: Former Green Bros Signs Ltd Si, Shentonfield Road, Sharston Industrial Area, Manchester, Greater Manchester, M22 4TJ	Type of Site: Metal Recycling Facility Planning application reference: 101154/FO/2012/S2 Description: Scheme comprises change of use of site to metal recycling facility, including construction of office/staff amenity building, construction of buying shed and canopy, construction of End of Life Vehicle facility and associated tank farm, siting of weighbri dge and associated cabin, construction of 6m high boundary treatment, landscaping and siting of external plant and machinery and associated works following demolition of industrial building. Data source: Historic Planning Application Data Type: Point	07/02/2013
6	228m E	Site Address: Greater Manchester Waste, Longley Lane, Sharston, Manchester, Greater Manchester, M22 4RQ	Type of Site: Materials Recycling Facility Planning application reference: 107205/WST/2014/S2 Description: Scheme comprises construction of materials recycling facility (MRF) welfare and office facility. The associated works include sewer systems, landscaping, infrastructure, enabling works, cable laying and access roads. Data source: Historic Planning Application Data Type: Point	30/12/2014
E	233m E	Site Address: Refuse Treatment Plant, Longley Lane, Sharston, MANCHESTER, Greater Manchester, M22 4	Type of Site: Recycling Area/Car Park Planning application reference: 49846 Description: 15 space car park. Re-cycling areas. An application (ref: 49846) for Detailed Planning permission was submitted to Manchester C.C. on 3rd May 1996. Data source: Historic Planning Application Data Type: Point	-
E	233m E	Site Address: South Manchester Resource Reco, Longley Lane,Sharston, MANCHESTER, Greater Manchester, M22 4RQ	Type of Site: Waste Storage Area Planning application reference: 087983/FO/2008/S2 Description: Scheme comprises creation of temporary waste storage area for a period of 18 months during the redevelopment of the waste management facility approved as part of planning permission 085916/JO/2008S2. An application (ref: 087983/FO/2008/S2) for detailed p lanning permission was granted by Manchester C.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	01/07/2009

ID	Location	Address	Further Details	Date
E	233m E	Site Address: Former Railway Sidings, Lomgley Lane, Sharston, MANCHESTER, Greater Manchester	Type of Site: Waste Transfer Station (C/U) Planning application reference: 48545 Description: Use of land as a waste transfer station with the construction of timber and metal storage bays. An application (ref: 48545) for Detailed Planning permission was submitted to Manchester C.C. on 26th September 1995. Data source: Historic Planning Application Data Type: Point	-
E	275m E	Site Address: Longley Lane, Sharston Industrial Area, MANCHESTER, Greater Manchester, M22 4WT	Type of Site: Recycling Centre Planning application reference: 083953/FO/2007/S2 Description: Scheme comprises construction of a mechanical biological treatment plant, improvements to the green waste shredding facility and the household waste recycling centre. Construction - black top surfacing site works. An application (ref: 083953/FO/2007/S2fo r detailed planning permission was granted by Manchester C.C. This is part of the PFI waste management scheme, lead 05087716 Works have commenced on site. Data source: Historic Planning Application Data Type: Point	22/02/2010

ID	Location	Address	Further Details	Date
J	497m N	Site Address: Longley Lane, Sharston, MANCHESTER, Greater Manchester, M22 4HZ	Type of Site: Waste Management Facility Planning application reference: 063199/VO/SOUTH2/01 Description: Scheme comprises re-organisations of waste management facility and vehicle depot to provide extended and enhanced materials re-cycling facilities, there will be a new research and development centre, cladding of existing store, re-location of tanksvehicl e barriers and a visitors centre. Associated works include 155 car paring spaces, access, sewer systems, enabling, landscaping works and service engineering. Construction - internal partitions walls; carpets, insitu concrete, linoleum/vinyl, raised acces s floor; pitched roof; aluminium framed, double glazed windows; fire, timber doors; pad foundations; portal, steel frame; black top surfacing, drain covers, kerbing, planting, road drainage, street lighting, turfing/grass, white lining site works;fire al arm system, suspended ceilings fittings. An application (ref: 063199/VO/SOUTH2/01) for Detailed Planning permission was granted by Manchester C.C. Contract details have not yet been confirmed. We have been advised that detailed planning has been approved . Data source: Historic Planning Application Data Type: Point	-
J	497m N	Site Address: Longley Lane, Sharston, MANCHESTER, Greater Manchester, M22 4HZ	Type of Site: Waste Disposal (Alterations) Planning application reference: 49638 Description: Modify doorways. An application (ref: 49638) for Detailed Planning permission was submitted to Manchester C.C. on 29th March 1996. Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m	**13**

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

Features are displayed on the Waste and landfill map on **page 38 >**

ID	Location	Details		
B	On site	Site Name: The Old Railway Station Site Address: The Old Railway Station, Longley Lane, Sharston Ind Est, Manchester, M22 4SS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PPO005 EPR reference: EA/EPR/AB3205FD/T001 Operator: P P O' Connor Limited Waste Management licence No: 53457 Annual Tonnage: 3250	Issue Date: 16/02/1998 Effective Date: 27/06/2013 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
B	On site	Site Name: The Old Railway Station Site Address: The Old Railway Station, Longley Lane, Sharston Ind Est, Manchester, M22 4SS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PPO005 EPR reference: EA/EPR/AB3205FD/V002 Operator: P P O' Connor Group Limited Waste Management licence No: 53457 Annual Tonnage: 3250	Issue Date: 16/02/1998 Effective Date: 27/06/2013 Modified: 13/12/2019 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
B	On site	Site Name: The Old Railway Station Site Address: The Old Railway Station, Longley Lane, Sharston Ind Est, Manchester, Manchester, M22 4SS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 634864 EPR reference: EA/EPR/AB3205FD Operator: Pp O?connor Group Limited Waste Management licence No: 53457 Annual Tonnage: 3250	Issue Date: 16/02/1998 Effective Date: 16/02/1998 Modified: 16/02/1998 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
A	15m E	Site Name: Davidson's Skip Hire Ltd Site Address: The Old Railway Station, Longley Lane, Sharston Ind Area, Manchester, M22 4SS Correspondence Address: The Old Railway Station, Longley Lane, Sharston Ind Area, Manchester, M22 4SS	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: DSH001 EPR reference: - Operator: Davidson's Skip Hire Ltd Waste Management licence No: 53457 Annual Tonnage: 3250	Issue Date: 16/02/1998 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	15m E	Site Name: The Recycling Hutch Site Address: The Old Railway Station, Longley Lane, Sharston Ind Area, Manchester, Lancs, M22 4SS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: REC249 EPR reference: GP3093SD/T001 Operator: The Recycling Hutch Ltd Waste Management licence No: 53457 Annual Tonnage: 3250	Issue Date: 16/02/1998 Effective Date: 16/04/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
A	15m E	Site Name: The Old Railway Station Site Address: The Old Railway Station, Longley Lane, Sharston Ind Est, Manchester, M22 4SS Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: MOH005 EPR reference: EA/EPR/UP3390VZ/T001 Operator: M O' Halloran & Son (Plant Hire) Ltd Waste Management licence No: 53457 Annual Tonnage: 3250	Issue Date: 16/02/1998 Effective Date: 21/03/2011 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred

ID	Location	Details		
I	331m E	Site Name: South Manchester H W R C, M R F And M B T Facility Site Address: Premises At, Longley Lane, Sharston, Manchester, Lancs, M22 4RQ Correspondence Address: -	Type of Site: Biological Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE092 EPR reference: EA/EPR/YP3195EX/V004 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 100189 Annual Tonnage: 200000	Issue Date: 27/03/2008 Effective Date: - Modified: 21/06/2011 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
I	331m E	Site Name: South Manchester Resource Recovery Centre Site Address: Longley Lane, Sharston, Manchester, M22 4RQ Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE092 EPR reference: YP3195EX/V003 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 100189 Annual Tonnage: 0	Issue Date: 27/03/2008 Effective Date: - Modified: 10/06/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
I	331m E	Site Name: South Manchester Resource Recovery Centre Site Address: Longley Lane, Sharston, Manchester, M22 4RQ Correspondence Address: -	Type of Site: Household Waste Amenity Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE092 EPR reference: YP3195EX/V003 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 100189 Annual Tonnage: 0	Issue Date: 27/03/2008 Effective Date: - Modified: 10/06/2009 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
I	331m E	Site Name: South Manchester Resource Recovery Centre & M B T Facility Site Address: South Manchester Resource Recovery Centre & M B T Facility, Longley Lane, Sharston, Manchester, Lancs, M22 4RQ Correspondence Address: -	Type of Site: Biological Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE092 EPR reference: EA/EPR/YP3195EX/V006 Operator: Viridor Waste (Greater Manchester) Limited Waste Management licence No: 100189 Annual Tonnage: 200000	Issue Date: 27/03/2008 Effective Date: - Modified: 28/05/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
I	331m E	Site Name: South Manchester Resource Recovery Centre Site Address: Longley Lane, Sharston, Manchester, M22 4RQ Correspondence Address: P O Box 151, Higher Swan Lane, Bolton, BL3 3WW	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE092 EPR reference: - Operator: Greater Manchester Waste Ltd Waste Management licence No: 100189 Annual Tonnage: 0	Issue Date: 27/03/2008 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
I	331m E	Site Name: South Manchester Resource Recovery Centre & M B T Facility Site Address: South Manchester Resource Recovery Centre & M B T Facility, Longley Lane, Sharston, Manchester, M22 4RQ Correspondence Address: -	Type of Site: Biological Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: GRE092 EPR reference: EA/EPR/YP3195EX/V007 Operator: Viridor Waste (Greater Manchester) Ltd Waste Management licence No: 100189 Annual Tonnage: 200000	Issue Date: 27/03/2008 Effective Date: - Modified: 21/10/2013 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
I	331m E	Site Name: South Manchester Resource Recovery Centre Site Address: South Manchester Resource Recovery Centre, Longley Lane, Wythenshawe, Lancashire, M22 4RQ Correspondence Address: -	Type of Site: Biological Treatment Facility Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 639382 EPR reference: EA/EPR/HB3001HW Operator: Suez Recycling And Recovery Uk Ltd Waste Management licence No: 100189 Annual Tonnage: 200000	Issue Date: 24/05/2019 Effective Date: 01/06/2019 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	**27**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 38 >**

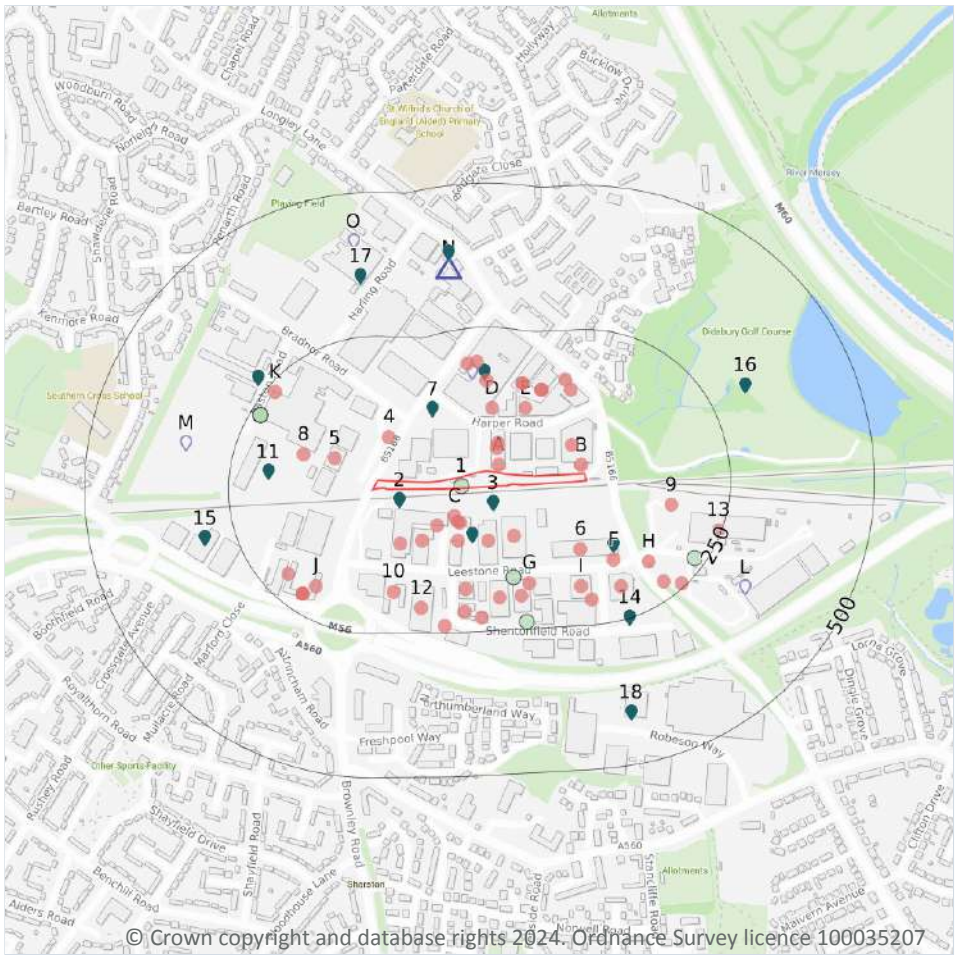
ID	Location	Site	Reference	Category	Sub-Category	Description
A	15m E	The Old Railway Station, Off Longley Lane, Sharston Industrial Estate, Manchester, M22 4SS	WEX279966	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
A	15m E	The Old Railway Station, Off Longley Lane, Sharston Industrial Estate, Manchester, M22 4SS	WEX279966	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	15m E	The Old Railway Station, Off Longley Lane, Sharston Industrial Estate, Manchester, M22 4SS	WEX279966	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	15m E	LONGLEY LANE, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4SS	WEX376832	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	15m E	LONGLEY LANE, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4SS	WEX376832	Storing waste exemption	Not on a farm	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
A	15m E	LONGLEY LANE, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4SS	WEX105195	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	15m E	LONGLEY LANE, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4SS	WEX105195	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	15m E	LONGLEY LANE, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4SS	WEX247677	Storing waste exemption	Not on a farm	Storage of waste in secure containers
A	15m E	LONGLEY LANE, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4SS	WEX247677	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	58m SW	Interpart (UK) Ltd - Extension New Build By Russells Ltd, Warsall Road, Sharston Industrial Area, Manchester, M22 4RH	WEX076121	Using waste exemption	Not on a farm	Use of waste in construction
C	58m SW	Interpart (UK) Ltd - Extension New Build By Russells Ltd, Warsall Road, Sharston Industrial Area, Manchester, M22 4RH	WEX076121	Treating waste exemption	Not on a farm	Screening and blending of waste
D	88m SW	Unit 41 (Russells Construction Site - New Build), Sharston Industrial Estate, Leestone Road, Sharston, M22 4RH	WEX155327	Using waste exemption	Not on a Farm	Use of waste in construction
D	88m SW	Unit 41 (Russells Construction Site - New Build), Sharston Industrial Estate, Leestone Road, Sharston, M22 4RH	WEX155327	Treating waste exemption	Not on a Farm	Screening and blending of waste
2	115m NE	South Manchester HWRC, MRF and MBT, Longley Lane, Sharston, Manchester, M22 4RG	WEX176468	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	174m S	IMPEX HOUSE, LEESTONE ROAD, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4RN	WEX386377	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans

ID	Location	Site	Reference	Category	Sub-Category	Description
F	174m S	IMPEX HOUSE, LEESTONE ROAD, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4RN	WEX116693	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
F	174m S	IMPEX HOUSE, LEESTONE ROAD, SHARSTON INDUSTRIAL AREA, MANCHESTER, M22 4RN	WEX257486	Treating waste exemption	Not on a farm	Treatment of waste aerosol cans
F	175m S	Impex House Leestone Road MANCHESTER M22 4RN	EPR/AF0406LZ/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste aerosol cans
G	175m SE	DELTA POINT LEESTONE ROAD WYTHENSHAWE M22 4SA	EPR/WH0011RM/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
G	175m SE	DELTA POINT LEESTONE ROAD WYTHENSHAWE M22 4SA	EPR/WH0011RM/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
3	192m E	South Manchester HWRC, MRF and MBT Facility Longley Lane MANCHESTER M22 4RQ	EPR/YF0102GA/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
H	223m SW	Seddon Construction Ltd, Altrincham Road, Sharston, M23 9PF	WEX017915	Using waste exemption	Not on a farm	Use of waste in construction
H	223m SW	MKM Sharston, Altrincham Road, Manchester, M23 9PF	WEX001514	Using waste exemption	Not on a farm	Use of waste in construction
H	223m SW	Seddon Construction Ltd, Altrincham Road, Sharston, M23 9PF	WEX017915	Treating waste exemption	Not on a farm	Screening and blending of waste
H	223m SW	MKM Sharston, Altrincham Road, Manchester, M23 9PF	WEX001514	Treating waste exemption	Not on a farm	Screening and blending of waste
E	250m E	SUEZ Recycling and Recovery UK Ltd, Longley Lane (South Manchester) RRC, Longley Lane, M22 4RQ, M22 4RQ	WEX313762	Storing waste exemption	Not on a farm	Storage of waste in a secure place
7	349m NE	-	WEX388214	Using waste exemption	Not on a farm	Use of waste in construction

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Part A(1) industrial activities

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

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	53

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 51 >**

ID	Location	Company	Address	Activity	Category
A	14m NE	Hawk Motors	Unit 4 Beta Court, Harper Road, Manchester, Greater Manchester, M22 4RG	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	15m E	Howells Railway Products Plc	-, Longley Lane, Manchester, Greater Manchester, M22 4SS	Special Purpose Machinery and Equipment	Industrial Products

ID	Location	Company	Address	Activity	Category
A	42m N	The Flava People	Unit 5-6 Flava House Beta Court, Harper Road, Sharston Industrial Area, Manchester, Greater Manchester, M22 4XR	Catering and Non Specific Food Products	Foodstuffs
C	48m SW	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
A	50m N	G S F Car Parts Manchester	Unit 2 Beta Court, Harper Road, Manchester, Greater Manchester, M22 4QE	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	51m E	Factory	Greater Manchester, M22	Unspecified Works Or Factories	Industrial Features
C	58m SW	Tommy Tyres	Castle House, Warsall Road, Manchester, Greater Manchester, M22 4RH	Vehicle Parts and Accessories	Motoring
C	59m SW	Atlas Motor Services Ltd	Unit 2, Castle House, Warsall Road, Manchester, Greater Manchester, M22 4RH	Vehicle Repair, Testing and Servicing	Repair and Servicing
C	63m SW	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
4	76m NW	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
5	84m W	Bollore Logistics	Unit 3 Alpha Point, Bradnor Road, Manchester, Greater Manchester, M22 4TE	Distribution and Haulage	Transport, Storage and Delivery
C	88m SE	Cardinal Maritime	Cardinal Maritime Southern Ltd, Leestone Road, Manchester, Greater Manchester, M22 4RB	Distribution and Haulage	Transport, Storage and Delivery
C	89m SW	Interpart UK Ltd	2, Warsall Road, Manchester, Greater Manchester, M22 4RH	Construction Plant	Construction Services
C	91m SW	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
C	94m SW	Wheel Hub	50, Leestone Road, Manchester, Greater Manchester, M22 4RF	Distribution and Haulage	Transport, Storage and Delivery
C	94m S	Kobo	Ketton House, Leestone Road, Manchester, Greater Manchester, M22 4RB	Special Purpose Machinery and Equipment	Industrial Products
D	110m N	Tank	Greater Manchester, M22	Tanks (Generic)	Industrial Features
E	116m NE	Oak Fields Autos	Unit 5 Harper House, Harper Road, Manchester, Greater Manchester, M22 4RG	Vehicle Repair, Testing and Servicing	Repair and Servicing
6	117m SE	Bus Depot	Greater Manchester, M22	Bus and Coach Stations, Depots and Companies	Public Transport, Stations and Infrastructure

ID	Location	Company	Address	Activity	Category
8	135m W	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
F	145m SE	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
E	145m NE	Branagan Flooring Ltd	Unit 1 Harper House 124a, Longley Lane, Manchester, Greater Manchester, M22 4SY	Construction Completion Services	Construction Services
E	149m NE	Miller Autos	124, Longley Lane, Manchester, Greater Manchester, M22 4SP	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	149m NE	Siltint Industries Ltd	124, Longley Lane, Manchester, Greater Manchester, M22 4SP	Photographic and Optical Equipment	Consumer Products
9	153m E	Tank	Greater Manchester, M22	Tanks (Generic)	Industrial Features
D	157m N	Industrial Area	Greater Manchester, M22	Business Parks and Industrial Estates	Industrial Features
E	159m N	Top Tyres Ltd	122, Longley Lane, Manchester, Greater Manchester, M22 4SY	Vehicle Parts and Accessories	Motoring
E	159m N	Top Gear Motors	122, Longley Lane, Manchester, Greater Manchester, M22 4SY	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	165m NE	Tank	Greater Manchester, M22	Tanks (Generic)	Industrial Features
G	170m SE	Diamond Car Wash	Diamond Hand Car Wash and Tyre Service, Leestone Road, Manchester, Greater Manchester, M22 4RB	Vehicle Cleaning Services	Personal, Consumer and Other Services
G	174m S	E C L Chemicals Ltd	-, Leestone Road, Manchester, Greater Manchester, M22 4RN	Colours, Chemicals and Water Softeners and Supplies	Industrial Products
H	177m SE	Electricity Sub Stations	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
10	177m SW	Sharston Ambulance Station	Greater Manchester, M22	Ambulance and Medical Transportation Services	Health Support Services
I	181m SE	Geodis UK Ltd	Delta Point, Leestone Road, Manchester, Greater Manchester, M22 4SA	Distribution and Haulage	Transport, Storage and Delivery
D	189m N	Sunbelt Rentals Ltd	Harper Road, -, Manchester, Greater Manchester, M22 4RA	Construction and Tool Hire	Hire Services
D	191m N	Electrium Sales Ltd	Wylex Works, Sharston Road, Manchester, Greater Manchester, M22 4RA	Electronic Equipment	Industrial Products

ID	Location	Company	Address	Activity	Category
G	192m S	Speciality Food Manufacturing	-, Leestone Road, Sharston Industrial Area, Manchester, Greater Manchester, M22 4RB	Catering and Non Specific Food Products	Foodstuffs
F	192m SE	I S T Power	-, Longley Lane, Manchester, Greater Manchester, M22 4RU	Electrical Production and Manipulation Equipment	Industrial Products
G	193m S	Easicut Precision Grinding Co Ltd	22, Leestone Road, Manchester, Greater Manchester, M22 4RN	Tool Repairs	Repair and Servicing
J	193m SW	B3 Supplements Ltd	South Court, Sharston Road, Manchester, Greater Manchester, M22 4SN	Catering and Non Specific Food Products	Foodstuffs
I	206m SE	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
J	206m SW	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
12	207m SW	Access Self Storage	Leestone Road, Sharston Industrial Estate, Sharston Industrial Area, Manchester, Greater Manchester, M22 4RW	Container and Storage	Transport, Storage and Delivery
G	215m S	S Garages	S Garages Limited, Shentonfield Road, Manchester, Greater Manchester, M22 4RW	Vehicle Repair, Testing and Servicing	Repair and Servicing
J	218m SW	Trafford Media & Communications	South Court, Sharston Road, Manchester, Greater Manchester, M22 4SN	Published Goods	Industrial Products
J	218m SW	Motor Trade Group Ltd	Block B Ground Floor South Court, Sharston Road, Manchester, Greater Manchester, M22 4SN	Secondhand Vehicles	Motoring
J	218m SW	webuyanycar.com	South Court, Business Centre Sharston Road, Manchester, Greater Manchester, M22 4SN	Secondhand Vehicles	Motoring
H	221m SE	Gas Governor	Greater Manchester, M22	Gas Features	Infrastructure and Facilities
G	225m S	Gibson Controls Ltd	-, Shentonfield Road, Manchester, Greater Manchester, M22 4RW	Electrical Components	Industrial Products
K	235m NW	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
G	238m S	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
H	243m SE	Electricity Sub Station	Greater Manchester, M22	Electrical Features	Infrastructure and Facilities
13	244m E	Refuse Treatment Plant	Greater Manchester, M22	Refuse Disposal Facilities	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 51 >**

ID	Location	Company	Address	LPG	Status
N	358m N	BP	106, Longley Lane, Northendon, Manchester, Greater Manchester, M22 4SY	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	35

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

Features are displayed on the Current industrial land use map on **page 51 >**

ID	Location	Details	
D	173m N	Operator: AMPIL 2 ASSET LIMITED Installation Name: Ampil Electrium Sharston Road Biomass Boiler Process: MCP Permit Number: WE6081AB Original Permit Number: WE6081AB	EPR Reference: EPR/WE6081AB Issue Date: - Effective Date: 28/06/2022 Last date noted as effective: 23/11/2023 Status: Effective
L	331m E	Operator: VIRIDOR WASTE (GREATER MANCHESTER) LIMITED Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: YP3195EX Original Permit Number: JP3932TH	EPR Reference: EPR/YP3195EX Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 23/11/2023 Status: Superseded
L	331m E	Operator: VIRIDOR WASTE (GREATER MANCHESTER) LIMITED Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: YP3195EX Original Permit Number: JP3932TH	EPR Reference: EPR/YP3195EX Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 23/11/2023 Status: Superseded
L	331m E	Operator: VIRIDOR WASTE (GREATER MANCHESTER) LIMITED Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: YP3195EX Original Permit Number: JP3932TH	EPR Reference: EPR/YP3195EX Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 23/11/2023 Status: Superseded
L	331m E	Operator: VIRIDOR WASTE (GREATER MANCHESTER) LIMITED Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: ASSOCIATED PROCESS Permit Number: YP3195EX Original Permit Number: JP3932TH	EPR Reference: EPR/YP3195EX Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 23/11/2023 Status: Superseded

ID	Location	Details	
L	331m E	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: South Manchester Resource Recovery Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: HB3001HW Original Permit Number: RP3636QW	EPR Reference: EPR/HB3001HW Issue Date: 01/06/2019 Effective Date: 01/06/2019 Last date noted as effective: 23/11/2023 Status: Effective
L	331m E	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: South Manchester Resource Recovery Centre Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: HB3001HW Original Permit Number: RP3636QW	EPR Reference: EPR/HB3001HW Issue Date: 01/06/2019 Effective Date: 01/06/2019 Last date noted as effective: 23/11/2023 Status: Effective
L	331m E	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: South Manchester Resource Recovery Centre Process: ASSOCIATED PROCESS Permit Number: HB3001HW Original Permit Number: RP3636QW	EPR Reference: EPR/HB3001HW Issue Date: 01/06/2019 Effective Date: 01/06/2019 Last date noted as effective: 23/11/2023 Status: Effective
L	331m E	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: SOUTH MANCHESTER RESOURCE RECOVERY CENTRE Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: RP3636QW Original Permit Number: RP3636QW	EPR Reference: - Issue Date: 24/05/2019 Effective Date: 01/06/2019 Last date noted as effective: 26/10/2020 Status: TRANSFER EFFECTIVE
L	331m E	Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD Installation Name: SOUTH MANCHESTER RESOURCE RECOVERY CENTRE Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: MP3538NF Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE
L	331m E	Operator: VIRIDOR WASTE (GREATER MANCHESTER) LTD Installation Name: SOUTH MANCHESTER RESOURCE RECOVERY CENTRE Process: CREATED BY IED - DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: MP3538NF Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 01/07/2013 Status: EFFECTIVE

ID	Location	Details	
L	331m E	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: SOUTH MANCHESTER RESOURCE RECOVERY CENTRE Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: RP3636QW Original Permit Number: RP3636QW	EPR Reference: - Issue Date: 24/05/2019 Effective Date: 01/06/2019 Last date noted as effective: 26/10/2020 Status: TRANSFER EFFECTIVE
L	331m E	Operator: SUEZ RECYCLING AND RECOVERY UK LTD Installation Name: SOUTH MANCHESTER RESOURCE RECOVERY CENTRE Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: RP3636QW Original Permit Number: RP3636QW	EPR Reference: - Issue Date: 24/05/2019 Effective Date: 01/06/2019 Last date noted as effective: 26/10/2020 Status: TRANSFER EFFECTIVE
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: JP3932TH Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 19/05/2010 Effective Date: 19/05/2010 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY BIOLOGICAL TREATMENT Permit Number: JP3932TH Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 19/05/2010 Effective Date: 19/05/2010 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: ASSOCIATED PROCESS Permit Number: MP3538NF Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: ASSOCIATED PROCESS Permit Number: NP3230EU Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 21/03/2023 Status: Superceded

ID	Location	Details	
L	331m E	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: South Manchester Resource Recovery Centre Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: RP3636QW Original Permit Number: RP3636QW	EPR Reference: - Issue Date: 24/05/2019 Effective Date: 01/06/2019 Last date noted as effective: 21/03/2023 Status: Transfer Effective
L	331m E	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: South Manchester Resource Recovery Centre Process: ASSOCIATED PROCESS Permit Number: SP3106LP Original Permit Number: RP3636QW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 21/03/2023 Status: Determination
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: MP3538NF Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: South Manchester Resource Recovery Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: RP3636QW Original Permit Number: RP3636QW	EPR Reference: - Issue Date: 24/05/2019 Effective Date: 01/06/2019 Last date noted as effective: 21/03/2023 Status: Transfer Effective
L	331m E	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: South Manchester Resource Recovery Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: SP3106LP Original Permit Number: RP3636QW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 21/03/2023 Status: Determination
L	331m E	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: South Manchester Resource Recovery Centre Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: SP3106LP Original Permit Number: RP3636QW	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 21/03/2023 Status: Determination

ID	Location	Details	
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: COMBUSTION; WASTE DERIVED FUEL =>3MW BUT 50MW Permit Number: JP3932TH Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 19/05/2010 Effective Date: 19/05/2010 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: OTHER WASTE DISPOSAL; NON-HAZARDOUS WASTE >50T/D BY PHYSICO-CHEMICAL TREATMENT Permit Number: JP3932TH Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 19/05/2010 Effective Date: 19/05/2010 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: MP3538NF Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: MP3538NF Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 28/05/2013 Effective Date: 28/05/2013 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: NP3230EU Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING PHYSICO-CHEMICAL TREATMENT Permit Number: NP3230EU Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 21/03/2023 Status: Superceded

ID	Location	Details	
L	331m E	Operator: Viridor Waste (Greater Manchester) Ltd Installation Name: South Manchester Resource Recovery Centre EPR/JP3932TH Process: FUEL FROM WASTE; MAKING SOLID FUEL FROM WASTE BY USING HEAT (EXCEPT CHARCOAL) Permit Number: NP3230EU Original Permit Number: JP3932TH	EPR Reference: - Issue Date: 21/10/2013 Effective Date: 21/10/2013 Last date noted as effective: 21/03/2023 Status: Superceded
L	331m E	Operator: SUEZ Recycling and Recovery UK Ltd Installation Name: South Manchester Resource Recovery Centre Process: ASSOCIATED PROCESS Permit Number: RP3636QW Original Permit Number: RP3636QW	EPR Reference: - Issue Date: 24/05/2019 Effective Date: 01/06/2019 Last date noted as effective: 21/03/2023 Status: Transfer Effective
M	334m W	Operator: ARLA FOODS UK SERVICES LIMITED Installation Name: Arla Foods Manchester Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC MILK >200T/DAY Permit Number: YP3830BB Original Permit Number: YP3830BB	EPR Reference: EPR/YP3830BB Issue Date: 10/02/2010 Effective Date: 10/02/2010 Last date noted as effective: 23/11/2023 Status: Surrendered
M	334m W	Operator: Arla Foods UK Services Ltd Installation Name: Arla Foods Manchester Process: ANIMAL VEGETABLE AND FOOD; TREATING ETC MILK >200T/DAY Permit Number: YP3830GX Original Permit Number: YP3830BB	EPR Reference: - Issue Date: - Effective Date: 10/02/2010 Last date noted as effective: 21/03/2023 Status: Surrender Effective
O	416m NW	Operator: VITA LIQUID POLYMERS LIMITED Installation Name: Vita Liquid Polymers - Wythenshawe - EPR/DP3532DM Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: DP3532DM Original Permit Number: DP3532DM	EPR Reference: EPR/DP3532DM Issue Date: 12/09/2018 Effective Date: 12/09/2018 Last date noted as effective: 23/11/2023 Status: Effective
O	416m NW	Operator: Vita Liquid Polymers Limited Installation Name: Vita Liquid Polymers - Wythenshawe - EPR/DP3532DM Process: ORGANIC CHEMICALS; NITROGEN CONTAINING COMPOUNDS EG AMINES Permit Number: HP3039QB Original Permit Number: DP3532DM	EPR Reference: - Issue Date: 12/09/2018 Effective Date: 12/09/2018 Last date noted as effective: 21/03/2023 Status: Effective

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

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

Records within 500m **14**

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 51 >**

ID	Location	Address	Details	
2	19m W	Blue Circle Industries, Shentonfield Rd, M22 4RT	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
3	29m SE	Breedon Southern LTD, The Railway Sidings, off Leestone Road (Shentonfield Road), Sharston Industrial Estate, M22 4RT	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
C	82m S	Lafarge Aggregates Limited, The Railway Sidings, Sharston Industrial Estate, M22 4RT	Process: Use of Bulk Cement Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
F	120m SE	Bellcharm Motor Company Ltd, Accident Repair Centre, Leestone Road, M22 4RB	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
7	125m NW	Wylex Ltd, Sharston Road, Wythenshawe, M22 4RA	Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	172m N	Electrium Sales Ltd, Harper Road, Sharton, Wythenshawe, M22 4RA	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
11	184m W	Aggregate Industries UK Limited, Paston Road, Wythenshawe, Manchester, M22 4TF	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

ID	Location	Address	Details	
14	248m SE	Green Brothers Ltd, Shentonfield Road, Sharton Industrial Estate, M22 4TJ	Process: Unloading of Petrol into Storage at Service Stations Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	274m NW	Walls Developments, Paston Road, Sharston Industrial Estate, M22 4TF	Process: Other Mineral Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
15	303m W	RegaLead Limited, Columbus House, Altrincham Road, Sharston, M22 9AF	Process: Non-ferrous Metal Foundry Processes Status: Current Permit Permit Type: Part A2	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
16	317m E	Wylex Sharston Rd, M22 4RS	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
17	355m NW	Vita Liquid Polymers Ltd, Harling Road, Sharston Industrial Estate, Wythenshawe, Manchester, M22 4SZ	Process: Coating Processes Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
N	384m N	Royle Green Service Station, Longley Lane, Northenden M22 4SY	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
18	409m SE	Airline Services Ltd, Canberra House, Robeson Way, Sharston Green Business Park, M22 4SX	Process: Dry Cleaning Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	0

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	7

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 51 >**

ID	Location	Details	
1	**On site**	**Incident Date: 01/07/2010** **Incident Identification: 796800** **Pollutant: Inert Materials and Wastes** **Pollutant Description: Construction and Demolition Materials and Wastes**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 2 (Significant)** **Air Impact: Category 3 (Minor)**
G	158m S	Incident Date: 26/10/2001 Incident Identification: 39221 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	231m E	Incident Date: 17/07/2003 Incident Identification: 174583 Pollutant: Specific Waste Materials Pollutant Description: Inorganic Chemical Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
K	233m W	Incident Date: 22/05/2001 Incident Identification: 6231 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	233m W	Incident Date: 22/05/2001 Incident Identification: 6231 Pollutant: Other Pollutant:Pollutant Not Identified Pollutant Description: Other:Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	233m W	Incident Date: 22/05/2001 Incident Identification: 6231 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
G	237m S	Incident Date: 28/06/2001 Incident Identification: 12100 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m	**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m	**0**

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

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

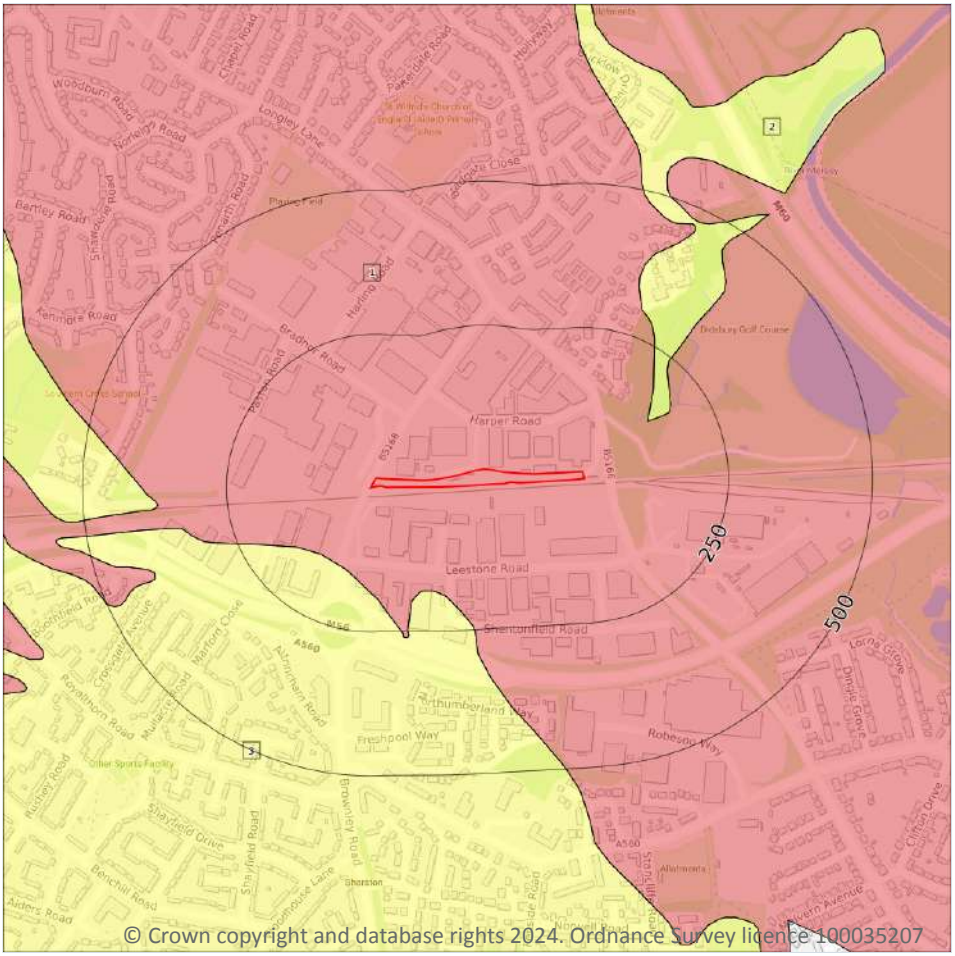
4.21 Pollution inventory radioactive waste

Records within 500m	**0**

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	3

Aquifer status of groundwater held within superficial geology.

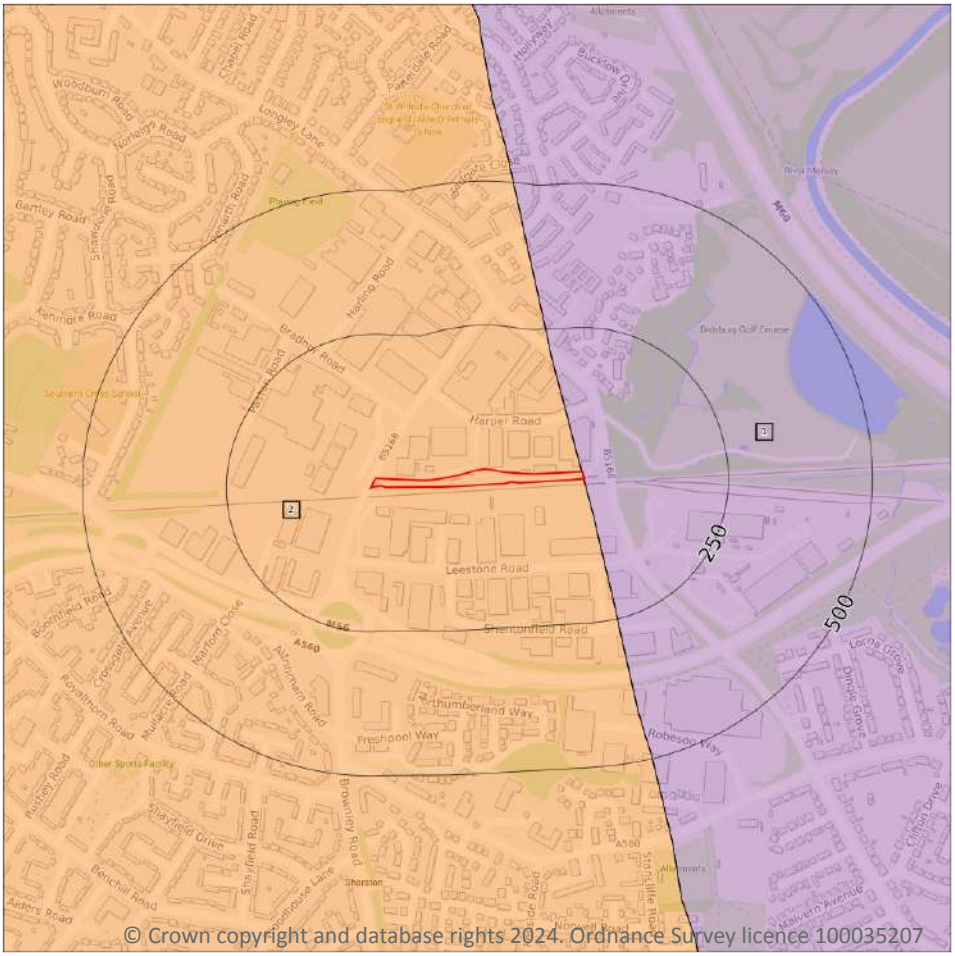
Features are displayed on the Hydrogeology map on **page 68 >**

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	143m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

ID	Location	Designation	Description
3	143m SW	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	2

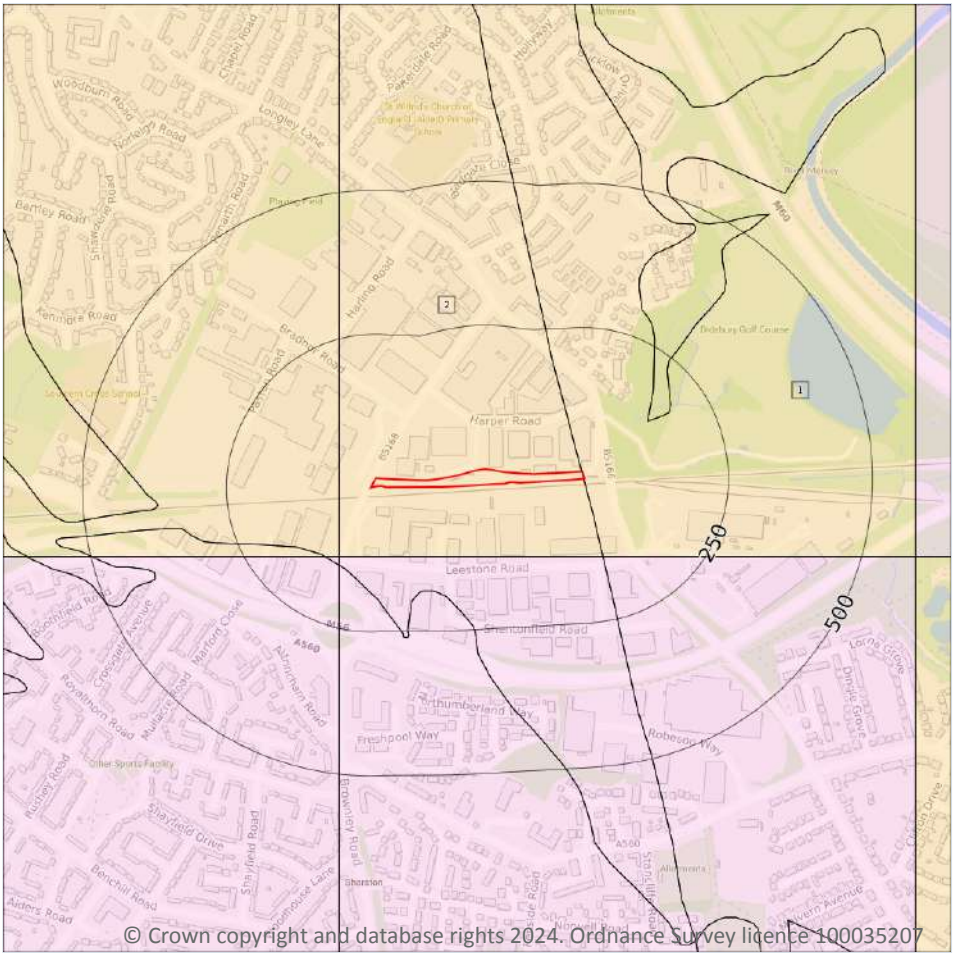
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 70 >**

ID	Location	Designation	Description
1	On site	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale. Generally principal aquifers were previously major aquifers
2	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	2

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

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

Features are displayed on the Groundwater vulnerability map on **page 72 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Principal Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300-550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: High	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

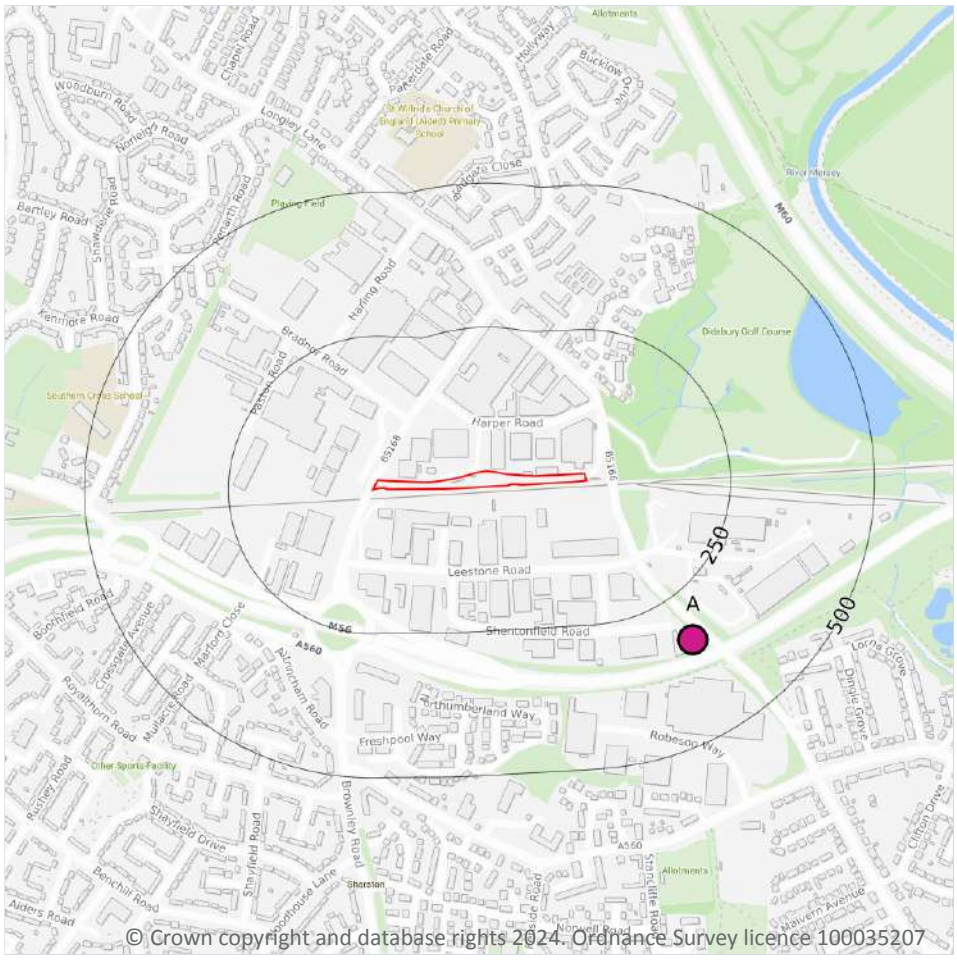
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- 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	7

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 74 >**

ID	Location	Details	
A	331m SE	Status: Historical Licence No: 2569014037 Details: Laundry Use Direct Source: Ground Water - North West Region Point: "UNDERGROUND STRATA: BOREHOLE AT SHARSTON, MANCHESTER" Data Type: Point Name: MR KHALID SALEEM Easting: 383610 Northing: 388860	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/11/2002 Expiry Date: 31-Mar-18 Issue No: 1 Version Start Date: 15/11/2002 Version End Date: -
A	331m SE	Status: Historical Licence No: 2569014037 Details: Laundry Use Direct Source: Ground Water - North West Region Point: UNDERGROUND STRATA: BOREHOLE AT SHARSTON, MANCHESTER Data Type: Point Name: MR KHALID SALEEM Easting: 383610 Northing: 388860	Annual Volume (m^3): 20975 Max Daily Volume (m^3): 80.67 Original Application No: - Original Start Date: 15/11/2002 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 15/11/2002 Version End Date: -
-	1067m E	Status: Historical Licence No: 2569014022 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "WELL AT PREMISES, GATLEY, CHESHIRE" Data Type: Point Name: JEFFERIES Easting: 384400 Northing: 388700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/09/1974 Expiry Date: - Issue No: 101 Version Start Date: 31/01/1997 Version End Date: -
-	1067m E	Status: Historical Licence No: 2569014022 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: WELL AT PREMISES, GATLEY, CHESHIRE Data Type: Point Name: JEFFERIES Easting: 384400 Northing: 388700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/09/1974 Expiry Date: - Issue No: 101 Version Start Date: 31/01/1997 Version End Date: -
-	1423m NE	Status: Active Licence No: 2569015006 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT DIDSBURY GOLF CLUB NORTHENDEN WYTHENSHAWE Data Type: Point Name: DIDSBURY GOLF CLUB LTD Easting: 383950 Northing: 390470	Annual Volume (m^3): 9092 Max Daily Volume (m^3): 68.19 Original Application No: 1053 Original Start Date: 22/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1423m NE	Status: Historical Licence No: 2569015006 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "BOREHOLE AT DIDSBURY GOLF CLUB, NORTHENDEN, WYTHENSHAWE," Data Type: Point Name: DIDSBURY GOLF CLUB LTD Easting: 383950 Northing: 390470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/12/1992 Version End Date: -
-	1423m NE	Status: Historical Licence No: 2569015006 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT DIDSBURY GOLF CLUB, NORTHENDEN, WYTHENSHAWE Data Type: Point Name: DIDSBURY GOLF CLUB LTD Easting: 383950 Northing: 390470	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 22/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 24/12/1992 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**2**

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 74 >**

ID	Location	Details	
-	1928m N	Status: Historical Licence No: 2569015016 Details: Dust suppression Direct Source: Surface, Non-Tidal - North West Region Point: RIVER MERSEY AT TRAFFORD, MANCHESTER Data Type: Point Name: AMEC / ALFRED MCALPINE JV Easting: 382650 Northing: 391020	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/11/2003 Expiry Date: 31/12/2006 Issue No: 1 Version Start Date: 28/11/2003 Version End Date: -

ID	Location	Details	
-	1928m N	Status: Historical Licence No: 2569015016 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: RIVER MERSEY AT TRAFFORD, MANCHESTER Data Type: Point Name: AMEC / ALFRED MCALPINE JV Easting: 382650 Northing: 391020	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/11/2003 Expiry Date: 31/12/2006 Issue No: 1 Version Start Date: 28/11/2003 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**0**

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

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

5.9 Source Protection Zones

Records within 500m	**0**

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

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

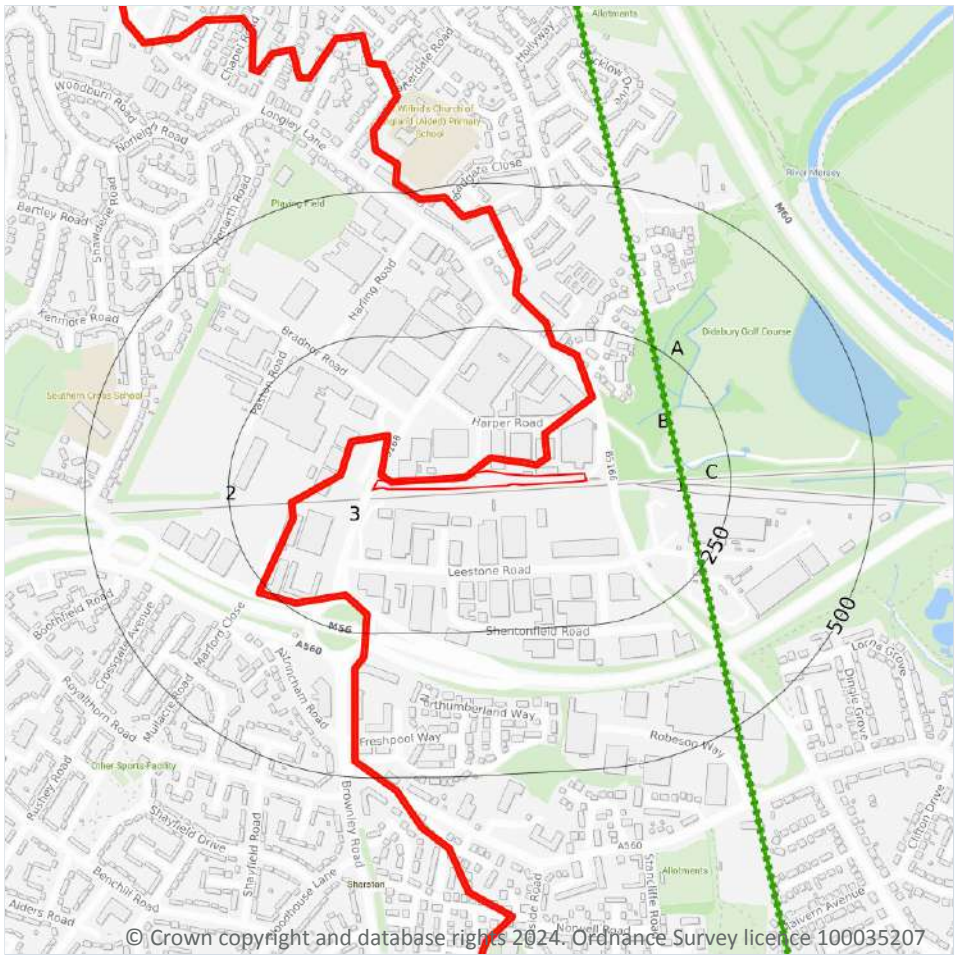
5.10 Source Protection Zones (confined aquifer)

Records within 500m	**0**

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

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

6 Hydrology



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	8

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 78 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	125m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
C	135m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	189m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	190m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	202m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	202m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	204m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	213m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**2**

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 78 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**2**

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 78 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	**On site**	**River**	**Mersey (upstream of Manchester Ship Canal)**	**GB112069061030**	**Bollin Dean Mersey Upper**	**Mersey Upper**
2	**On site**	**River**	**Sinderland Brook (Fairywell Bk and Baguley Bk)**	**GB112069061270**	**Bollin Dean Mersey Upper**	**Mersey Upper**

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

6.4 WFD Surface water bodies

Records identified	**2**

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 78 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	551m E	River	Mersey (upstream of Manchester Ship Canal)	GB112069061030 ↗	Moderate	Fail	Moderate	2019
-	899m W	River	Sinderland Brook (Fairywell Bk and Baguley Bk)	GB112069061270 ↗	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 78 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
3	**On site**	**Weaver and Dane Quaternary Sand and Gravel Aquifers**	**GB41202G991700** ↗	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

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	1

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.

Features are displayed on the River and coastal flooding map on **page 82 >**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	123m NE	Didsbury	2021-01-20 2021-01-20	Main river	Other	Fluvial

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

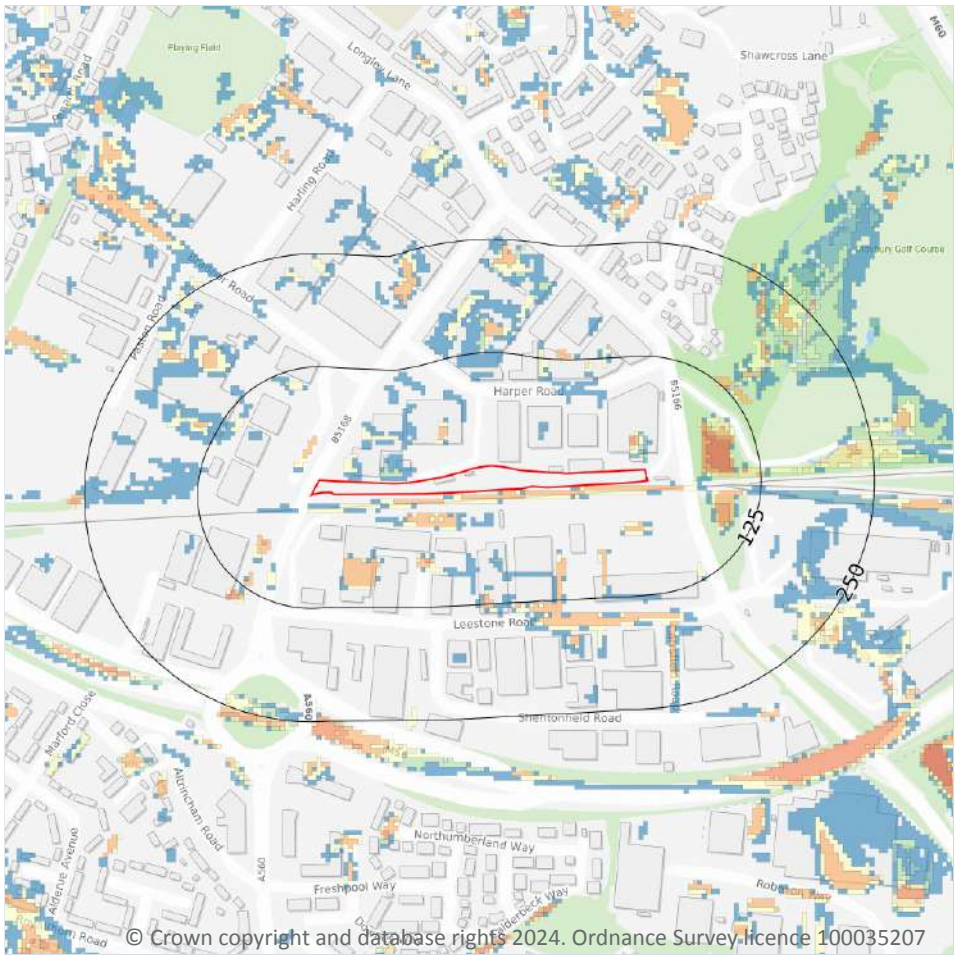
7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



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	**1 in 1000 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.3m - 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 85 >**

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

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

Return period	Maximum modelled depth
1 in 1000 year	Between 0.1m and 0.3m
1 in 250 year	Between 0.05m and 0.1m
1 in 100 year	Between 0.05m and 0.1m
1 in 30 year	Between 0.01m and 0.05m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

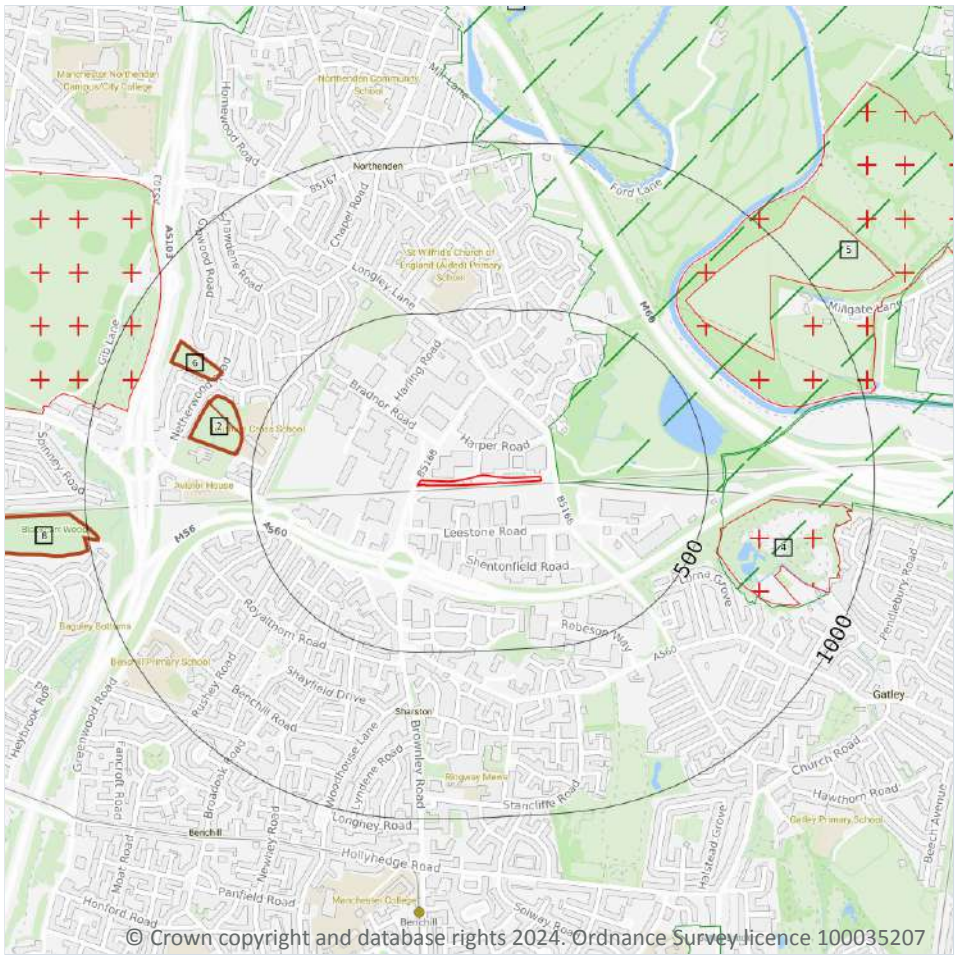
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 87 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	3

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

Features are displayed on the Environmental designations map on **page 88 >**

ID	Location	Name	Data source
4	557m E	Gatley Carrs	Natural England
5	621m NE	Stenner Woods and Milgate Fields, Didsbury	Natural England
7	895m W	Wythenshawe Park	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	3

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 88 >**

ID	Location	Name	Woodland Type
2	545m W	Round's Wood	Ancient & Semi-Natural Woodland
6	680m W	Black Field Wood	Ancient & Semi-Natural Woodland
8	970m W	Black Carr 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	4

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

Features are displayed on the Environmental designations map on **page 88 >**

ID	Location	Name	Local Authority name
1	52m E	Merseyside and Greater Manchester	Manchester
3	547m E	Merseyside and Greater Manchester	Stockport
9	1397m SE	Merseyside and Greater Manchester	Manchester
-	1567m SE	Merseyside and Greater Manchester	Stockport

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

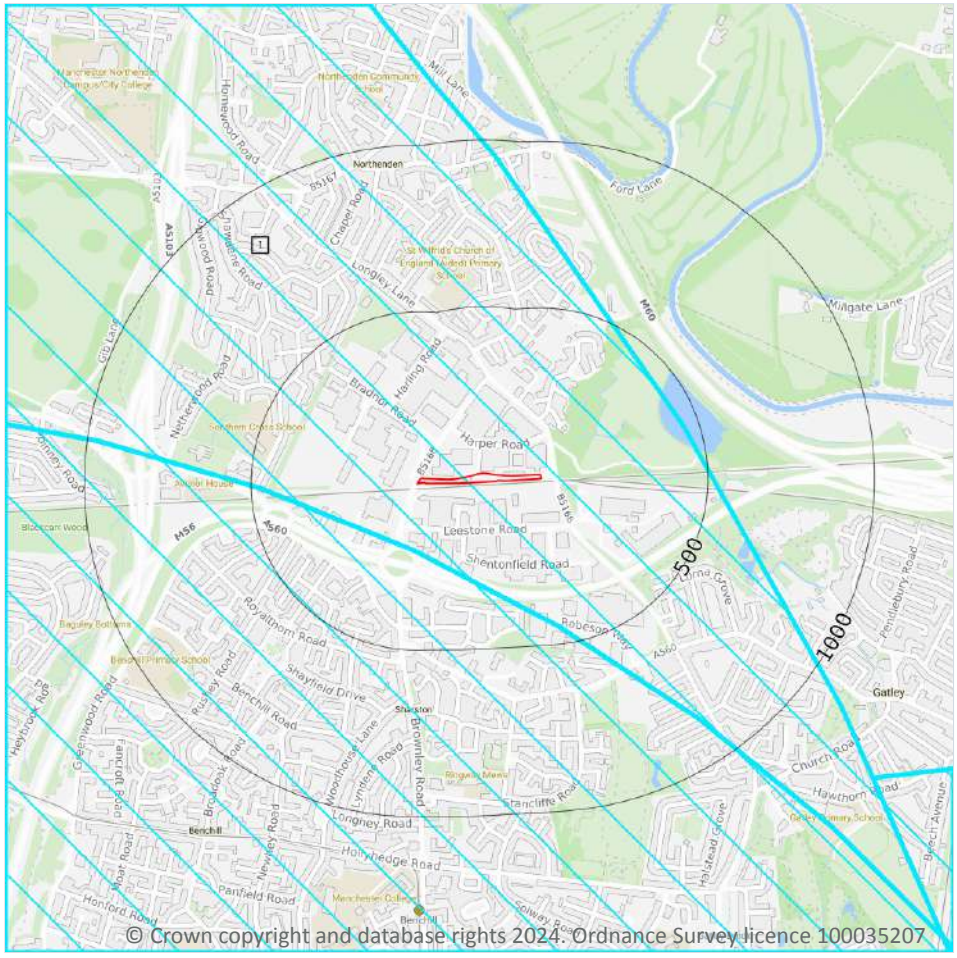
10.16 Nitrate Vulnerable Zones

Records within 2000m	0

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

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 93 >**

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	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 95 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	239m NW	Wythenshawe Bus Depot	II*	1389256	13/07/2001

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.

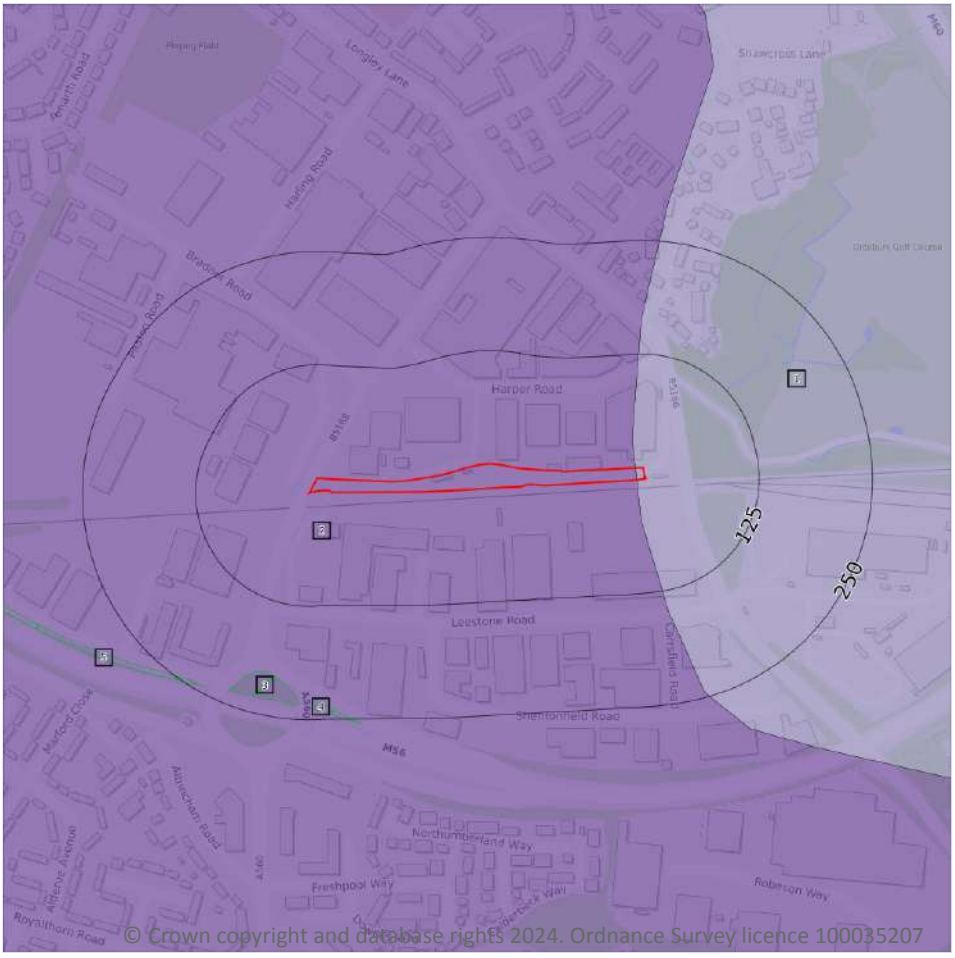
11.7 Registered Parks and Gardens

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	2

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

Features are displayed on the Agricultural designations map on **page 98 >**

ID	Location	Classification	Description
1	**On site**	**Non Agricultural**	-
2	**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	3

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.

Features are displayed on the Agricultural designations map on **page 98 >**

ID	Location	Description	Reference	Application date
3	203m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	228m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	243m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

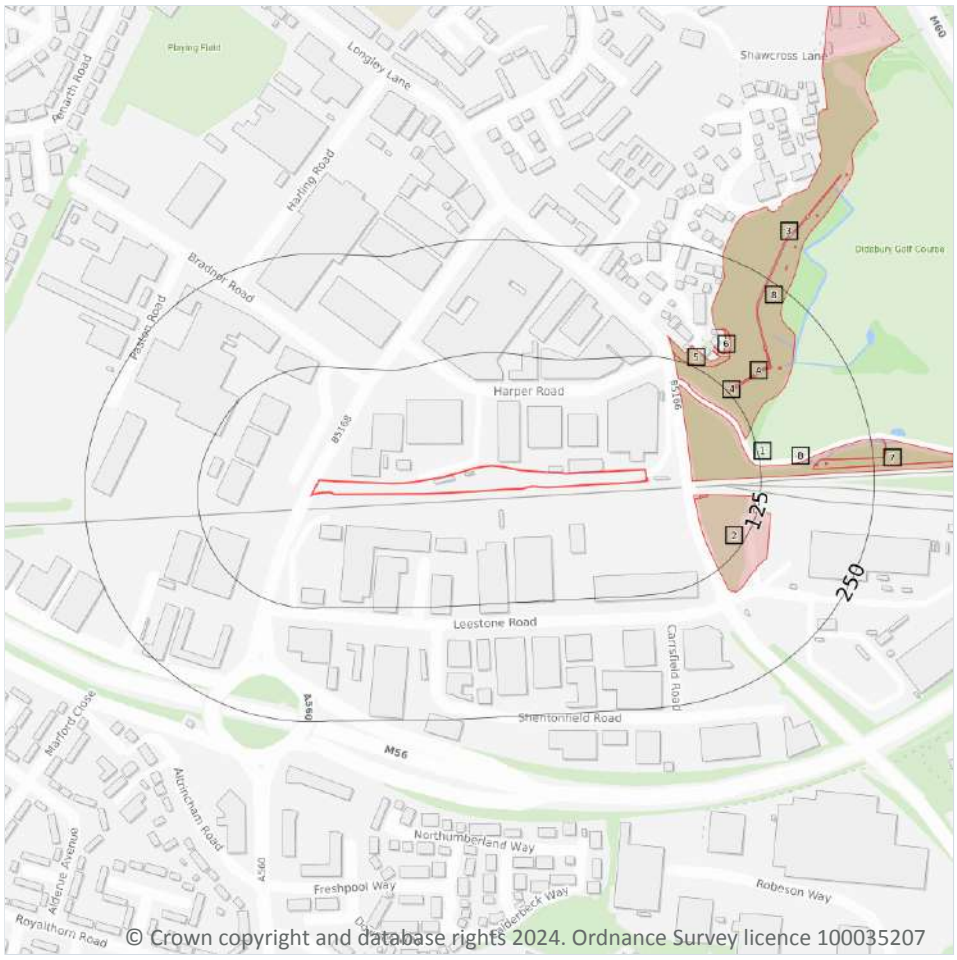
12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m	13

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 101 >**

ID	Location	Main Habitat	Other habitats
1	49m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	53m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	101m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	125m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	126m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	140m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	153m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	166m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	183m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	185m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	186m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	196m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	238m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

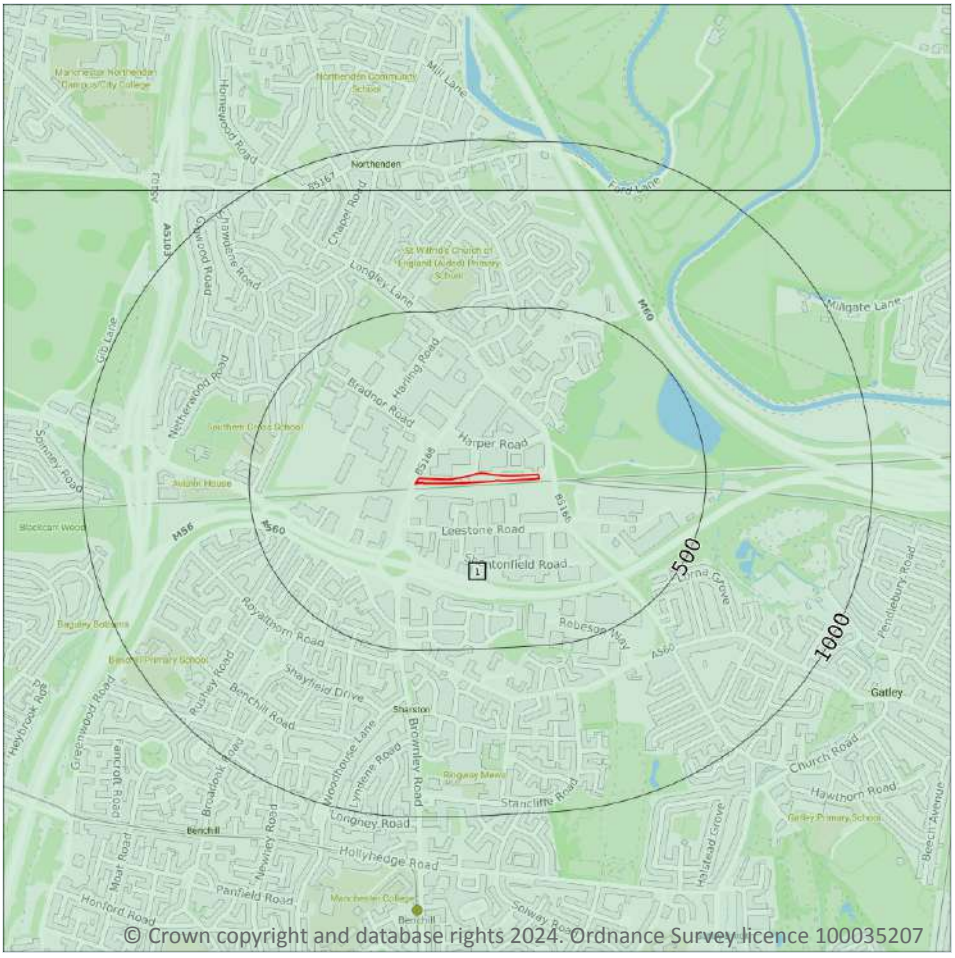
Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave

them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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 104 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**SJ88NW**

This data is sourced from the British Geological Survey.

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

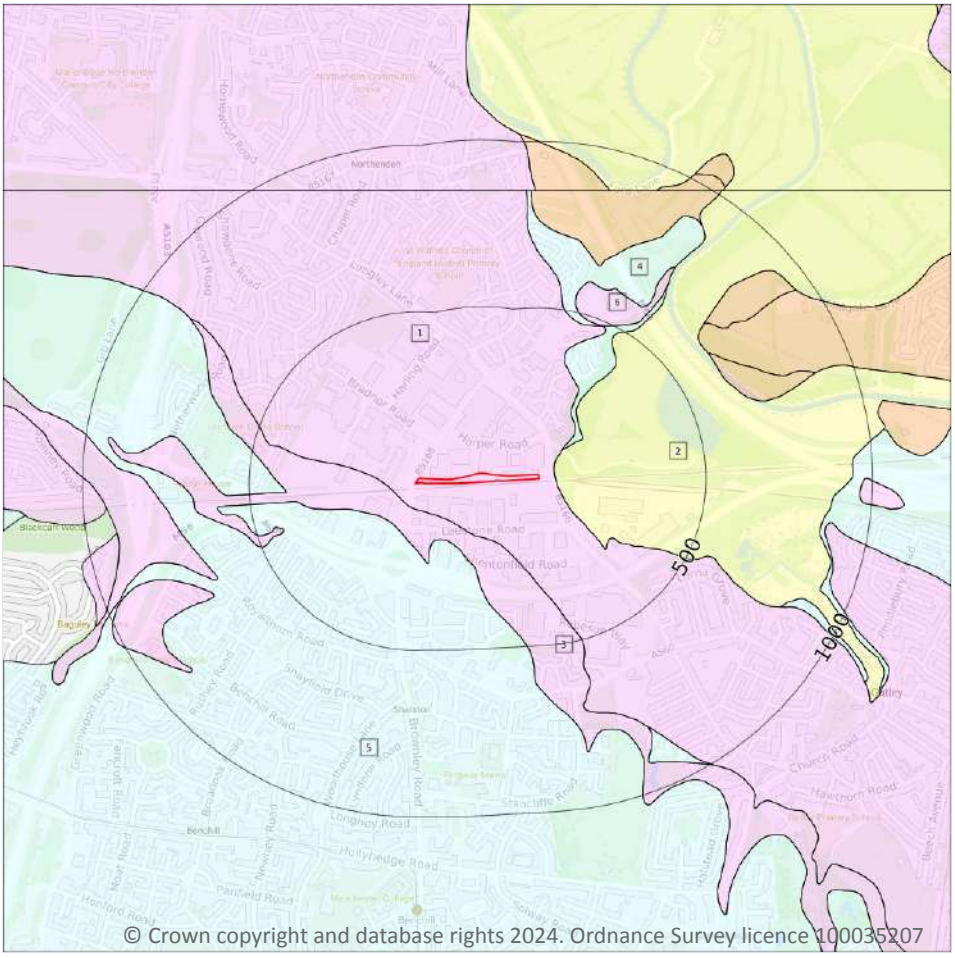
14.2 Artificial and made ground (10k)

Records within 500m	0

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.

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 **6**

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 106 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**GFSDD-XSV**	**Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
2	48m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	64m W	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
4	103m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
5	138m SW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	484m NE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

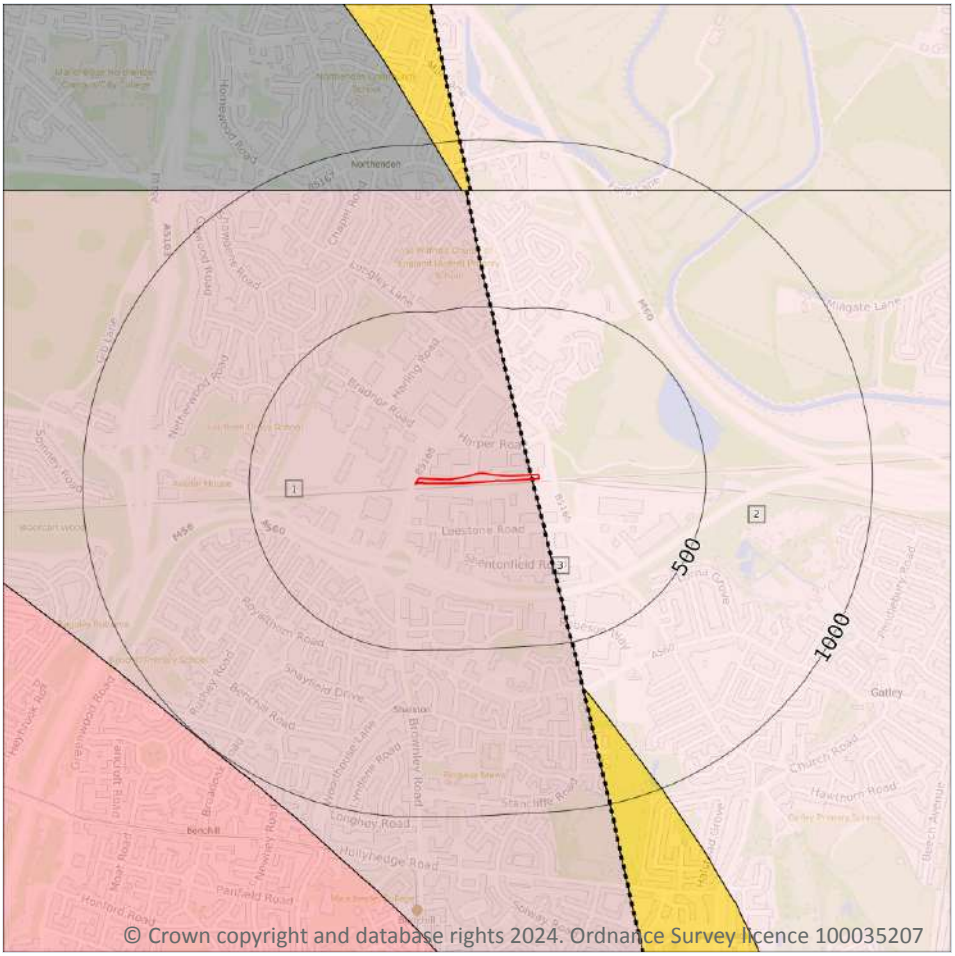
14.4 Landslip (10k)

Records within 500m	**0**

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	2

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

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 108 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**TPSF-SISD**	**Tarporley Siltstone Formation - Siltstone And Sandstone**	**Anisian Age - Olenekian Age**
2	**On site**	**WLSF-SDST**	**Wilmslow Sandstone Formation - Sandstone**	**Early Triassic Epoch**

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	1

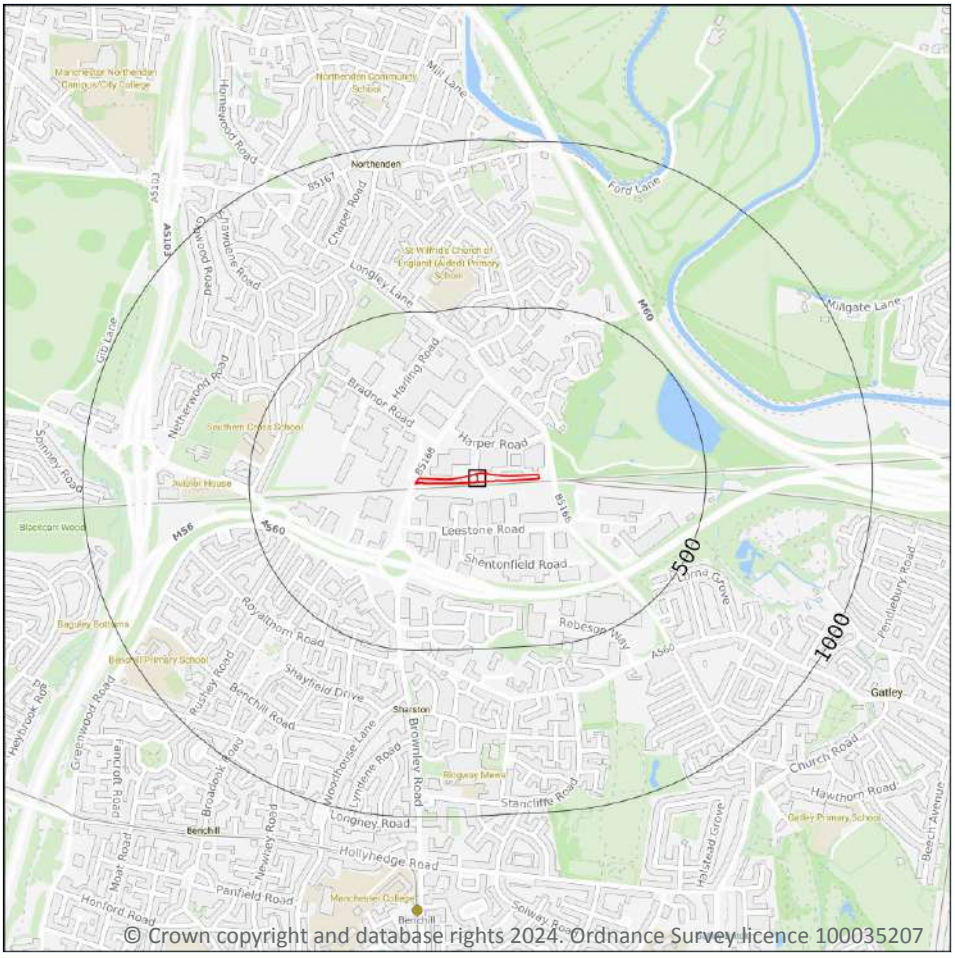
Linear features at the ground or bedrock surface at 1:10,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 108 >**

ID	Location	Category	Description
3	**On site**	**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 110 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**Full**	**EW098_stockport_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.

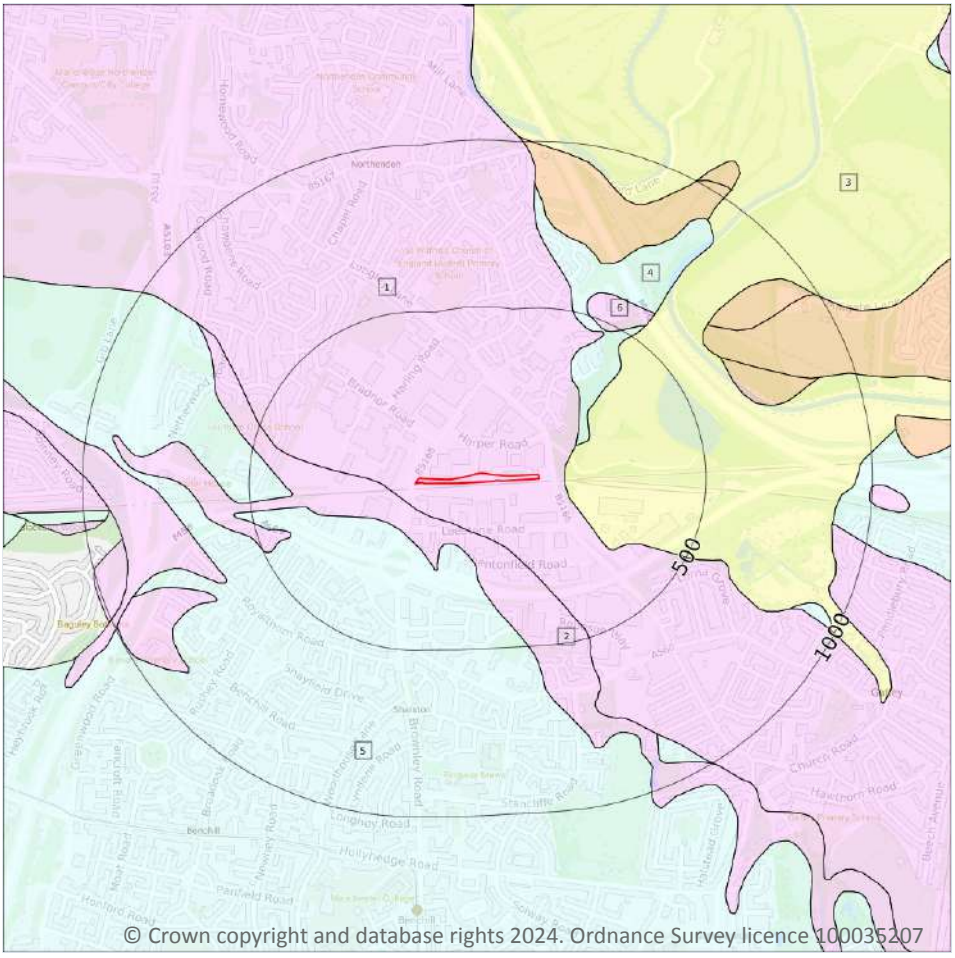
15.3 Artificial ground permeability (50k)

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 **6**

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 112 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**GFSDD-XSV**	**GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN**	**SAND AND GRAVEL**
2	61m W	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	77m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
4	143m E	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

ID	Location	LEX Code	Description	Rock description
5	143m SW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	477m NE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**1**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Intergranular**	**Very High**	**High**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

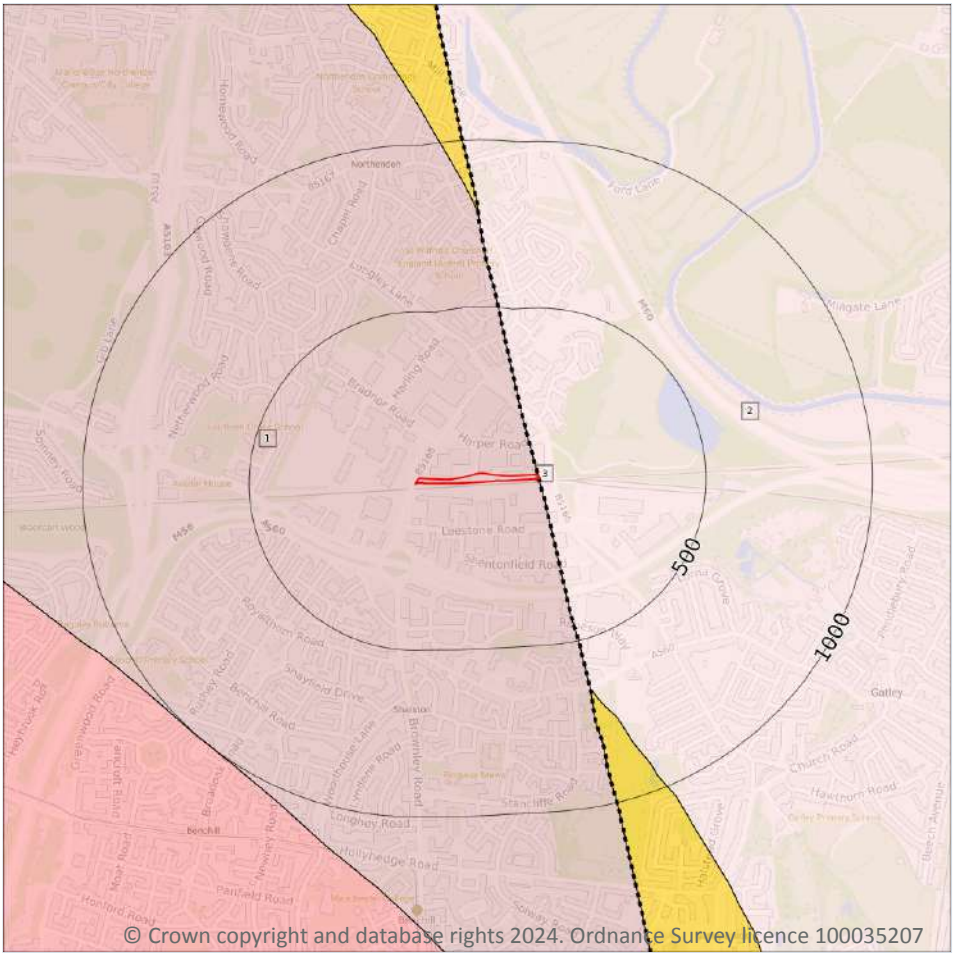
15.7 Landslip permeability (50k)

Records within 50m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 114 >**

ID	Location	LEX Code	Description	Rock age
1	On site	TPSF-SIMS	TARPORLEY SILTSTONE FORMATION - SILTSTONE, MUDSTONE AND SANDSTONE	OLENEKIAN
2	On site	WLSF-SDST	WILMSLOW SANDSTONE FORMATION - SANDSTONE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**
On site	**Intergranular**	**High**	**High**

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	1

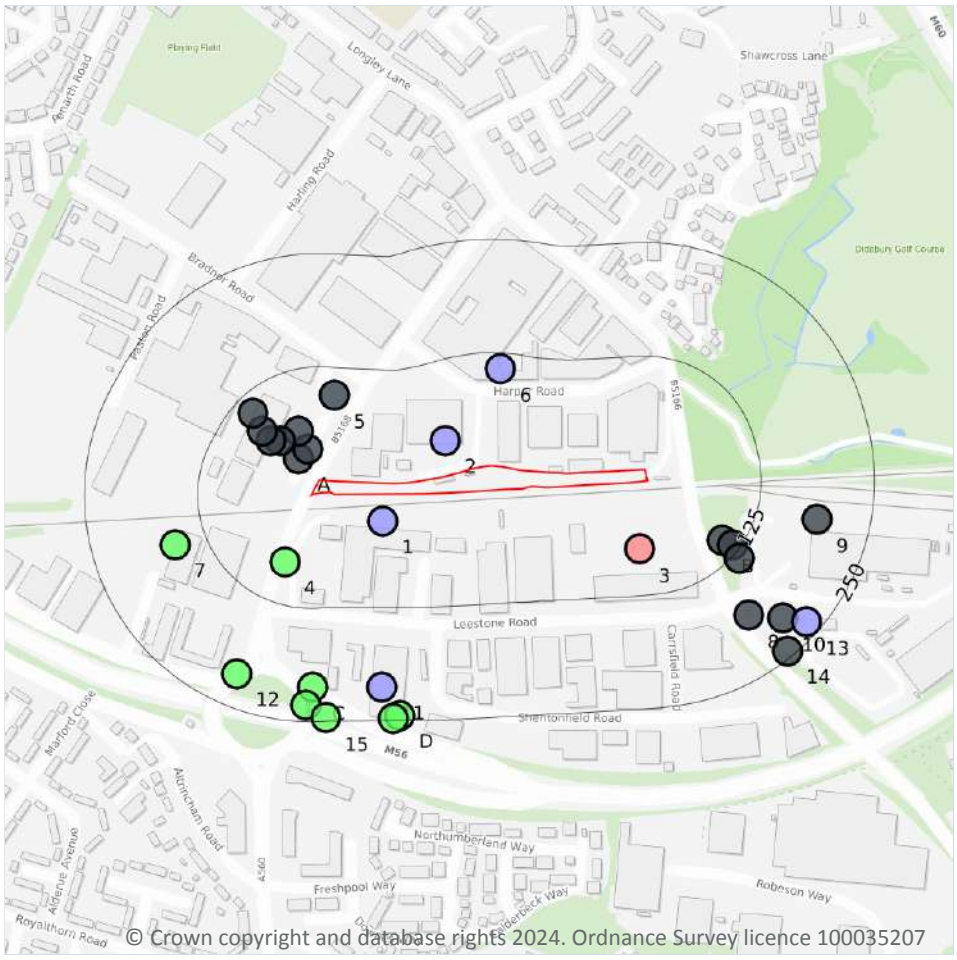
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 114 >**

ID	Location	Category	Description
3	**On site**	**FAULT**	**Fault, inferred**

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	29

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.

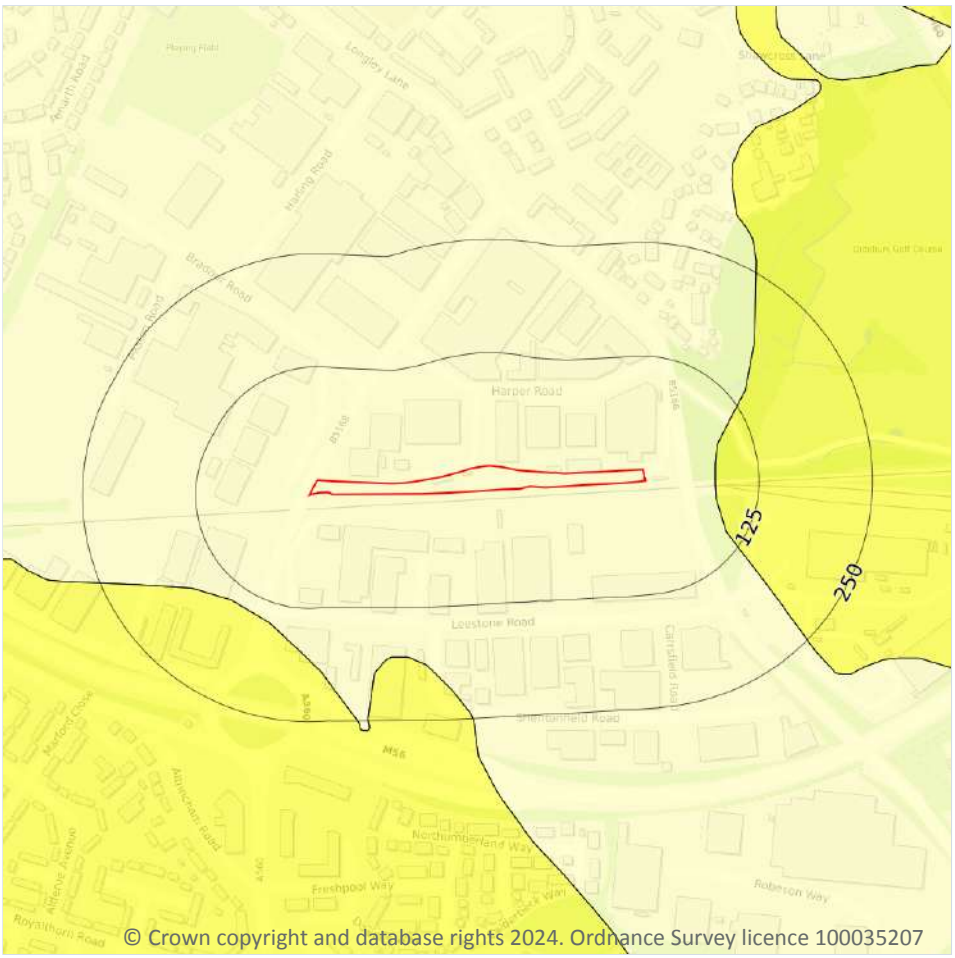
Features are displayed on the Boreholes map on **page 116 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	30m W	383133 389091	SHARSTON BYPASS. 130	9.14	N	914829 ↗
A	34m W	383040 389160	MANOR BAKERIES SITE SHARSTON TP 1	-	Y	N/A
A	37m W	383050 389170	MANOR BAKERIES SITE SHARSTON TP 2	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
2	39m NW	383202 389180	SHARSTON BYPASS. 131	8.53	N	914830 ↗
A	59m W	383040 389190	MANOR BAKERIES SITE SHARSTON TP 3	-	Y	N/A
A	62m W	383020 389180	MANOR BAKERIES SITE SHARSTON TP 5	-	Y	N/A
A	69m W	383010 389180	MANOR BAKERIES SITE SHARSTON TP 6	-	Y	N/A
3	74m SE	383416 389060	M/C CORPORATION LONGLEY LANE	92.05	N	914672 ↗
4	79m W	383025 389046	SHARSTON BYPASS. 129	10.36	N	914828 ↗
A	83m W	383000 389190	MANOR BAKERIES SITE SHARSTON TP 7	-	Y	N/A
5	95m NW	383080 389230	MANOR BAKERIES SITE SHARSTON TP 4	-	Y	N/A
A	104m W	382990 389210	MANOR BAKERIES SITE SHARSTON TP 8	-	Y	N/A
B	105m E	383507 389070	LONGLEY LANE GROUND INVESTIGATION TP1/07	-	Y	N/A
6	108m N	383263 389259	SHARSTON BYPASS. 132	8.84	N	914831 ↗
B	117m E	383519 389065	LONGLEY LANE GROUND INVESTIGATION TP2/07	-	Y	N/A
B	132m E	383526 389050	LONGLEY LANE GROUND INVESTIGATION TP3/07	-	Y	N/A
7	160m W	382904 389065	SHARSTON BYPASS. 128	11.89	N	914827 ↗
8	185m SE	383536 388987	LONGLEY LANE GROUND INVESTIGATION TP4/07	-	Y	N/A
9	192m E	383612 389093	LONGLEY LANE GROUND INVESTIGATION BH6/07	-	Y	N/A
C	212m SW	383056 388908	SHARSTON BYPASS. 29	10.67	N	914760 ↗
10	212m SE	383574 388984	LONGLEY LANE GROUND INVESTIGATION TP5/07	-	Y	N/A
11	213m SW	383132 388908	SHARSTON BYPASS. 27	7.62	N	914758 ↗
12	213m SW	382972 388923	SHARSTON BYPASS. 3	14.02	N	914740 ↗
C	232m SW	383048 388888	SHARSTON BYPASS. 4	12.37	N	914741 ↗
13	234m SE	383600 388980	LONGLEY LANE DEPOT 1	7.2	N	13468651 ↗
14	242m SE	383579 388948	LONGLEY LANE GROUND INVESTIGATION TP6/07	-	Y	N/A
D	244m S	383152 388877	SHARSTON BYPASS. 30	10.67	N	914761 ↗
15	246m SW	383070 388874	SHARSTON BYPASS. 28	10.67	N	914759 ↗
D	248m S	383145 388873	SHARSTON BYPASS. 30A	13.72	N	914762 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



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17.1 Shrink swell clays

Records within 50m	1

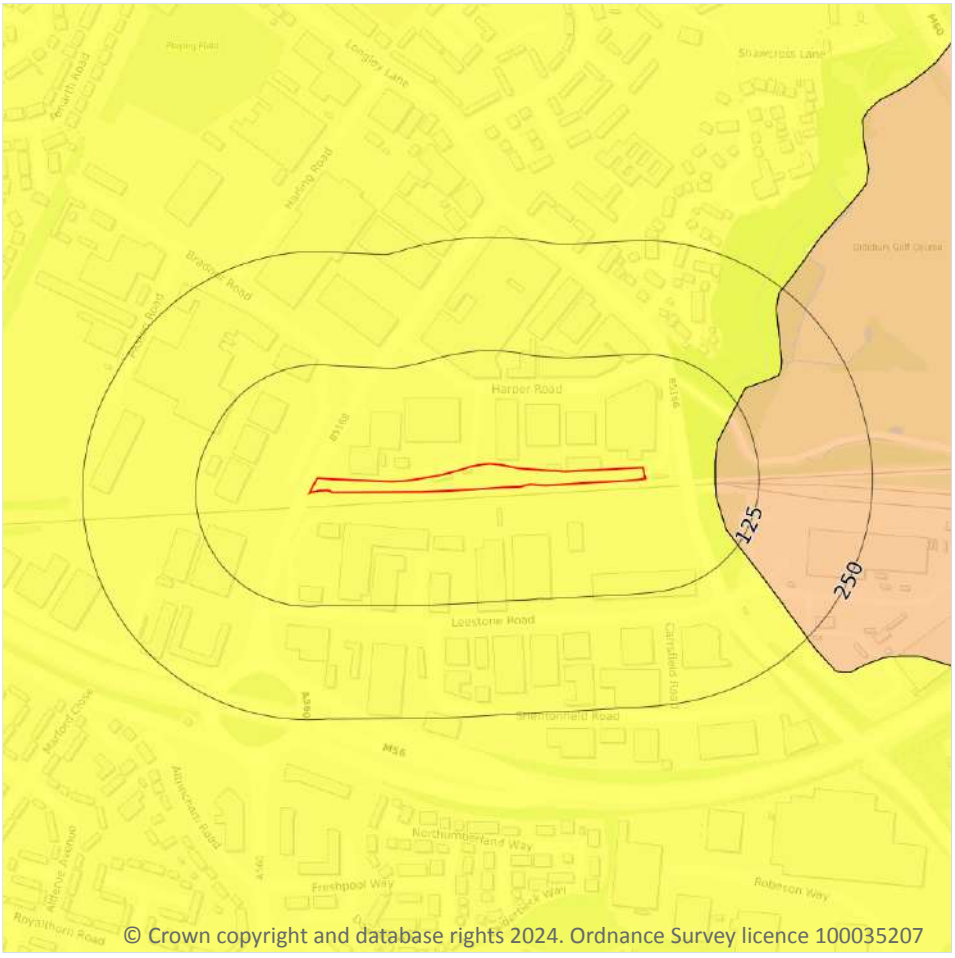
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 118 >**

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

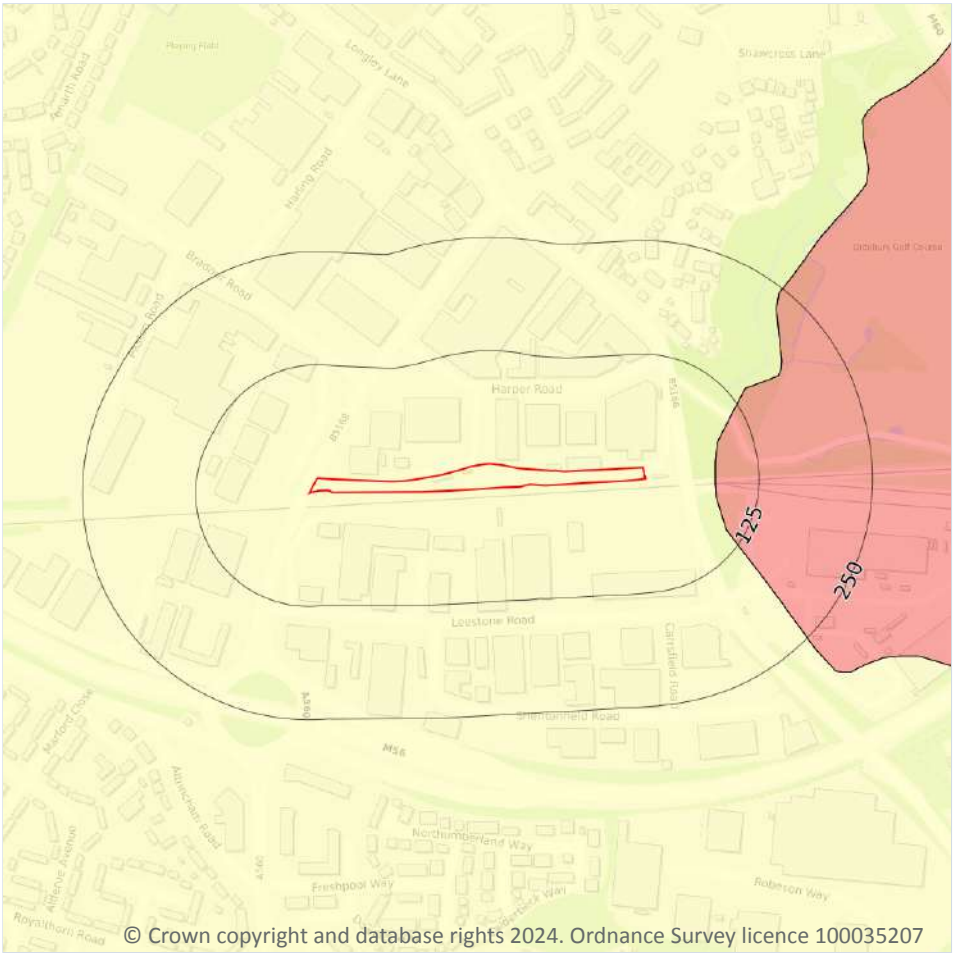
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 119 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

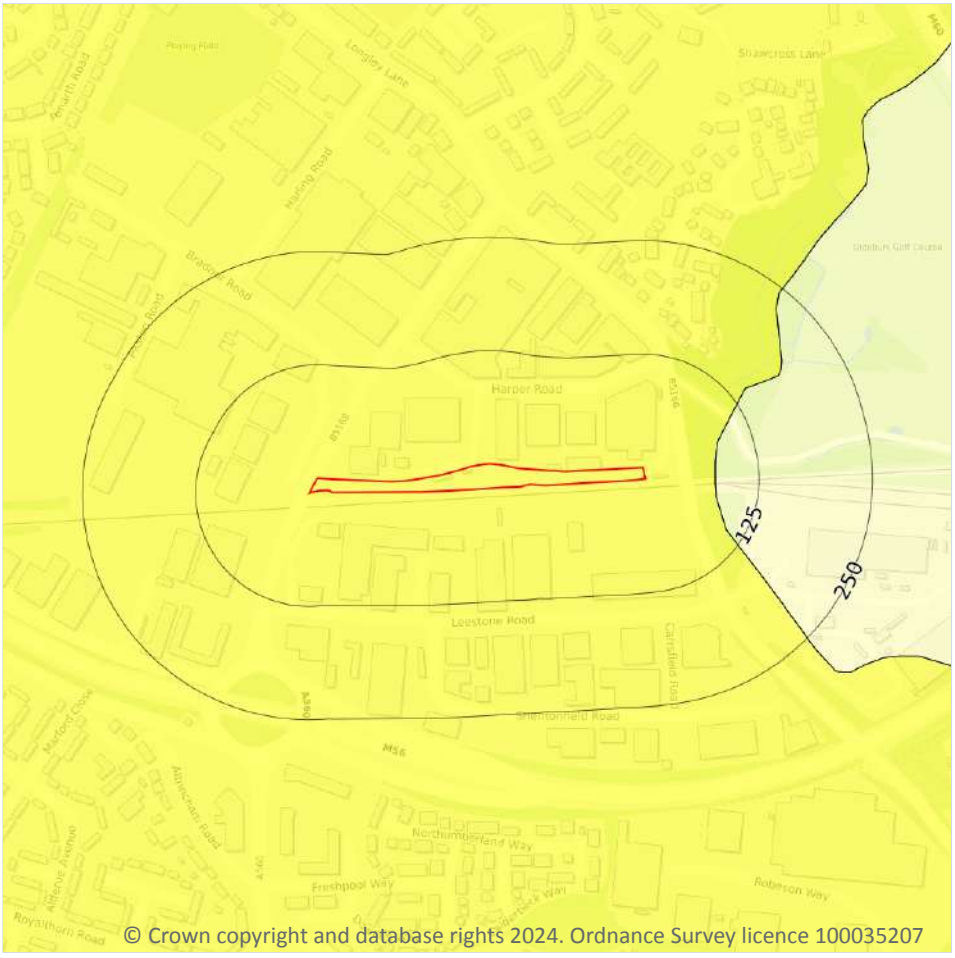
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 120 >**

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

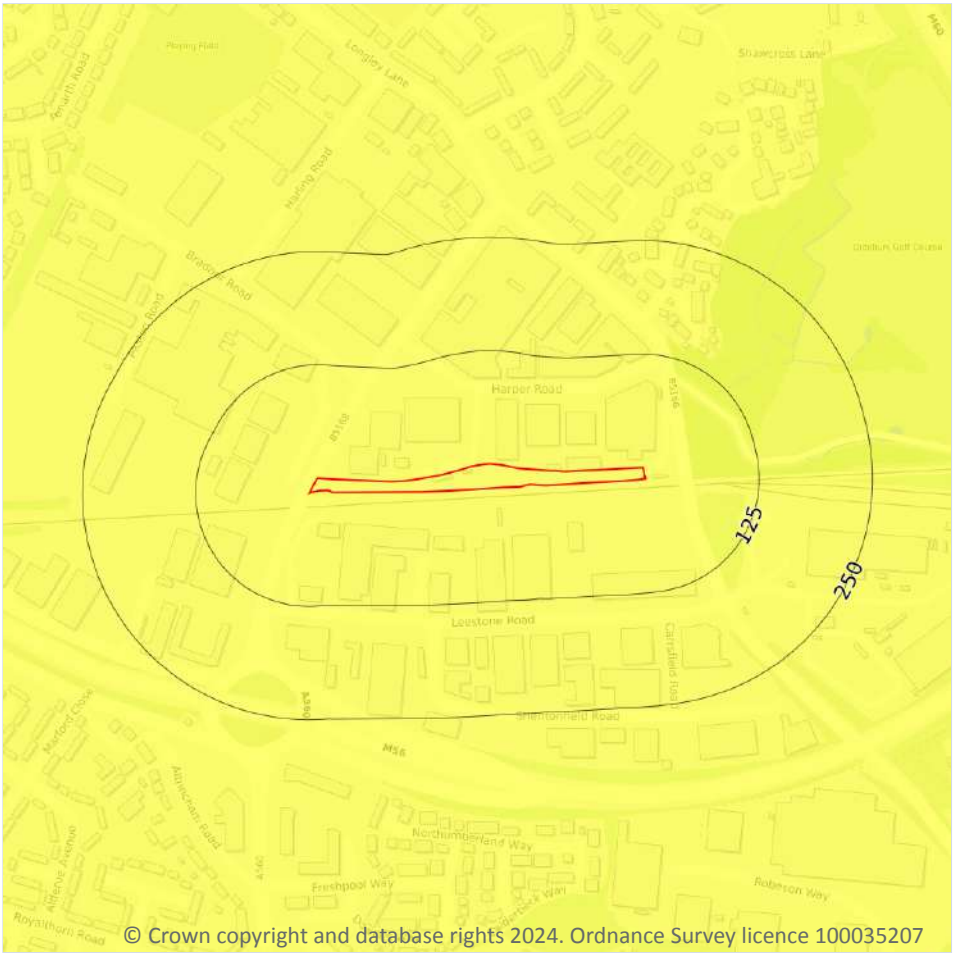
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 121 >**

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 122 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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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

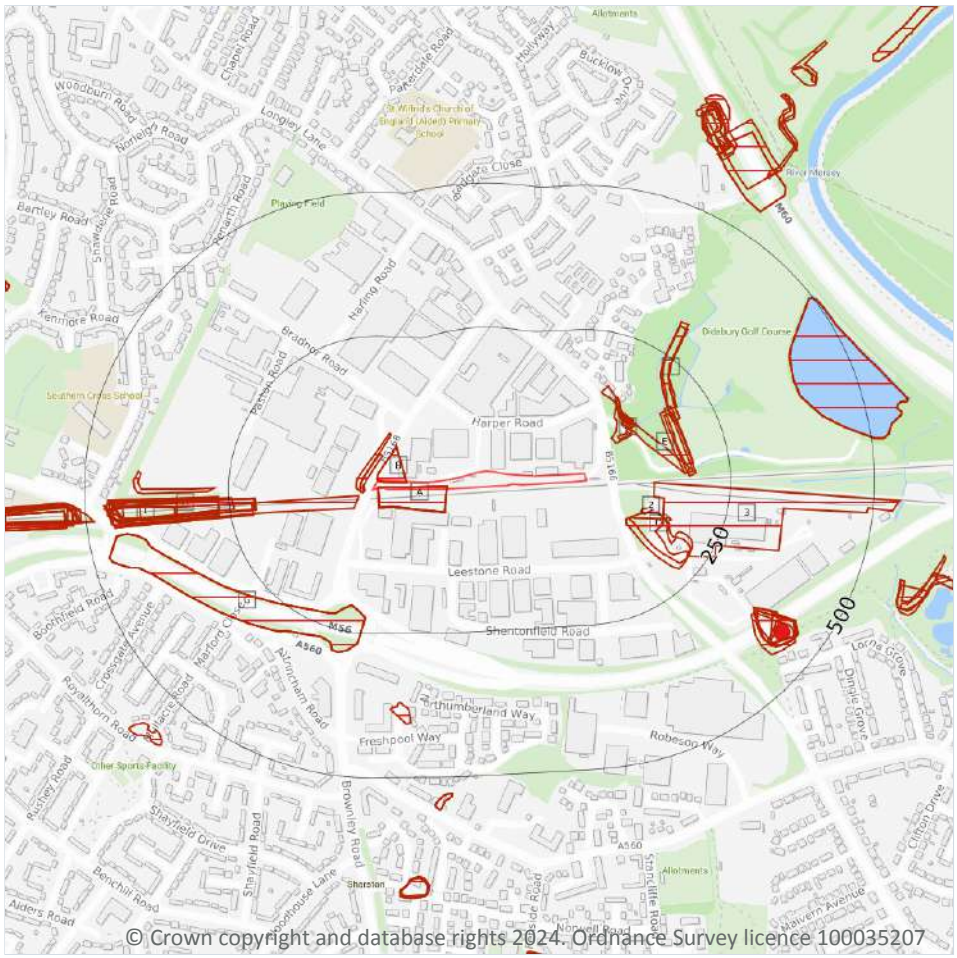
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 123 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



18.1 BritPits

Records within 500m	1

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

Features are displayed on the Mining and ground workings map on **page 125 >**

ID	Location	Details	Description
I	428m SE	Name: Sharston Gravel Pit Address: Sharston, CHEADLE, Staffordshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **37**

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

Features are displayed on the Mining and ground workings map on **page 125 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Cuttings**	**1975**	**1:10000**
A	**On site**	**Cuttings**	**1989**	**1:10000**
A	**On site**	**Cuttings**	**1995**	**1:10000**
A	**On site**	**Cuttings**	**1967**	**1:10560**
B	**On site**	**Unspecified Pit**	**1938**	**1:10560**
B	**On site**	**Unspecified Pit**	**1938**	**1:10560**
B	13m W	Unspecified Ground Workings	1975	1:10000
B	13m W	Unspecified Ground Workings	1954	1:10560
1	26m W	Cuttings	1916	1:10560
C	76m E	Unspecified Ground Workings	1954	1:10560
C	85m E	Unspecified Ground Workings	1967	1:10560
D	96m E	Unspecified Heap	1938	1:10560
D	100m E	Unspecified Heap	1954	1:10560
E	109m E	Unspecified Heap	1954	1:10560
2	109m E	Unspecified Ground Workings	1954	1:10560
C	113m NE	Unspecified Ground Workings	1975	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
3	118m E	Refuse Treatment Plant	1989	1:10000
C	119m NE	Unspecified Ground Workings	1989	1:10000
C	119m NE	Unspecified Ground Workings	1995	1:10000
C	132m NE	Pond	1954	1:10560
E	159m E	Unspecified Heap	1916	1:10560
E	165m E	Unspecified Heap	1923	1:10560
E	167m E	Unspecified Heap	1954	1:10560
F	178m E	Unspecified Heap	1975	1:10000
F	178m E	Unspecified Heap	1989	1:10000
F	178m E	Unspecified Heap	1967	1:10560
F	186m E	Unspecified Heap	1995	1:10000
G	204m SW	Cuttings	1975	1:10000
G	204m SW	Cuttings	1989	1:10000
G	204m SW	Cuttings	1995	1:10000
H	204m W	Cuttings	1938	1:10560
H	206m W	Cuttings	1907	1:10560
H	207m W	Cuttings	1907	1:10560
H	207m W	Cuttings	1907	1:10560
H	211m W	Cuttings	1923	1:10560
H	211m W	Cuttings	1905	1:10560
H	242m W	Cuttings	1897	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	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.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

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

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

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

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 133 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**

This data is sourced from the British Geological Survey.

21.2 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^2).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

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

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	30

Railways and tunnels digitised from historical Ordnance Survey mapping as scales of 1:1,250, 1:2,500, 1:10,000 and 1:10,560.

Features are displayed on the Railway infrastructure and projects map on **page 136 >**

Location	Land Use	Year of mapping	Mapping scale
On site	**Railway Sidings**	**1959**	**2500**
On site	**Railway**	**1898**	**-**
On site	**Railways**	**1922**	**-**
On site	**Railways**	**1934**	**-**
On site	**Railway Sidings**	**1938**	**10560**
1m W	Railway Sidings	1916	10560
1m W	Railway Sidings	1905	10560
1m W	Railway Sidings	1923	10560
3m W	Railway	1876	-
6m SW	Railway Sidings	1897	10560
6m SW	Railway Sidings	1907	10560
7m SW	Railway Sidings	1898	2500
7m SW	Railway Sidings	1910	2500
7m SW	Railway Sidings	1876	2500
11m SW	Railway Sidings	1975	10000
11m SW	Railway Sidings	1989	10000
11m SW	Railway Sidings	1954	10560

Location	Land Use	Year of mapping	Mapping scale
11m S	Railway Sidings	1967	10560
11m S	Railway Sidings	1995	10000
12m SW	Railway Sidings	1938	10560
14m W	Railway Sidings	1956	2500
15m W	Railway Sidings	1967	1250
15m W	Railway Sidings	1956	1250
15m SW	Railway Sidings	1995	1250
15m SW	Railway Sidings	1992	1250
16m SW	Railway Sidings	1922	2500
17m W	Railway Sidings	1907	10560
23m W	Railway Sidings	1934	2500
96m E	Railway Sidings	1983	1250
100m E	Railway Sidings	1996	1250

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	28

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

Features are displayed on the Railway infrastructure and projects map on **page 136 >**

Location	Name	Type
6m E	Woodley Junction to Partington Branch	rail
9m E	Not given	Multi Track
9m E		rail
9m SW	Not given	Multi Track
10m SW	Woodley Junction to Partington Branch	rail
10m E	Edgeley Junction and Northenden Branch	rail
12m W	Not given	Multi Track
17m W		rail
27m W	Not given	Multi Track
52m W	Woodley Junction to Partington Branch	rail
54m E	Not given	Multi Track
56m E		rail
56m E	Edgeley Junction and Northenden Branch	rail
60m E	Not given	Multi Track
76m E	Not given	Single Track
76m E	Not given	Multi Track
82m E	Edgeley Junction and Northenden Branch	rail
99m E	Not given	Single Track
104m E	Woodley Junction to Partington Branch	rail
104m E	Edgeley Junction and Northenden Branch	rail
110m E		rail
112m E	Not given	Multi Track
112m E	Not given	Single Track
133m E	Not given	Single Track

Location	Name	Type
187m E	Edgeley Junction and Northenden Branch	rail
196m E	Not given	Single Track
212m E	Not given	Multi Track
215m E	Not given	Multi Track

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	**0**

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	**0**

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	**0**

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

This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

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

APPENDIX C

BGS Borehole Records

British Geological Survey

BGS ID: 914829 : BGS Reference: SJ88NW148
British National Grid (27700) : 383133,389091

RECORD OF BOREHOLE NO. 130 SJ 88 NW 148

83133 89091

Ground level : 118.1ft above O.D. Newlyn Dia. of boring : 8in

Type of boring : Shell and Auger Lining tubes : 8in to 22ft

Daily Progress	Samples: Depth	Samples: Type	Change of Strata: Legend	Change of Strata: Depth	Change of Strata: O.D. Level	Description of Strata
	1'0" – 2'6"	U(¾)		2'6"	115.6	TOPSOIL
	2'6"	D				
	4'0"	D		5'0"	113.1	Brown sandy silty CLAY
	5'6" – 6'6"	S(15)		7'6"	110.6	Medium dense light brown fine to medium SAND with gravel
	8'0" – 9'0"	C(35)				
	7'6" – 9'0"	BD				
	11'0" – 12'0"	C(2%)				Medium dense to dense brown medium to coarse SAND and GRAVEL with occasional gobbles
	10'6" – 12'0"	BD ⊕		13'6"	104.6	
	14'0" – 15'0"	⊕S(55)				Very dense brown fine to coarse SAND
				17'6"	100.6	
	17'6" – 19'0"	U(¾)⊕				Hard red-brown silty CLAY with fragments of red and green mudstone (Weathered Keuper Waterstones?)
	19'0"	D ⊕				
	21'0"	D				
14.6.67	22'6" –22'10"	C(50)		22'6"	95.6	
	23'0"	BD				Grey MUDSTONE with occasional bands of hard grey silty clay (Keuper Waterstones)
	25'6" – 26'1"	C(50)				
	25'6" – 26'1"	BD		27'0"	91.1	
	28'6" – 30'0"	BD				Grey SANDSTONE
15.6.67	30'0" – 30'3"	C(50)		30'3"	88.8	

Key to type of sample :

U (4) — 4 in. dia. undisturbed sample.
U (1¾) — 1¾ in. dia. " "
D — disturbed sample.
BD — bulk disturbed sample.
V — vane test.
S ( ) — standard penetration test.
C ( ) — dynamic cone penetration test.
Figure in brackets is No. of blows for penetration given in depth column (see Notes, page 1).

Remarks : (Observations on ground-water, etc.)

Ground-water stood at a depth of 9ft 6in below ground level on the morning of 16.6.67 after completion of boring. A sample⊕was taken.

⊕ Sample tested.

Lab Ref No. S/5968

SHARSTON BY-PASS

FIG. 123

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 914830 : BGS Reference: SJ88NW149
British National Grid (27700) : 383202,389180

RECORD OF BOREHOLE NO. 131 SJ88NW149

83202 89180

Ground level : 116.3ft above O.D. Newlyn Dia. of boring : 8in

Type of boring : Shell and Auger Lining tubes : 8in to 24ft 6in

Daily Progress	Samples: Depth	Samples: Type	Change of Strata: Legend	Change of Strata: Depth	Change of Strata: O.D Level	Description of Strata
	1'0" – 2'6"	U(4)		0'3"	116.0	FILL (topsoil and brick fragments)
	2'6"	D				Brown sandy CLAY with mudstone fragments (possible fill)
	4'6"	D		4'0"	112.3	
	5'6" – 6'6"	S(15)		5'0"	111.3	Brown sandy silty CLAY
	9'0" – 10'0"	C(37)				Medium dense to dense brown fine to coarse GRAVEL with some fine to coarse sand and cobbles
15.6.67	8'6" – 10'0"	BD *				
	12'0" – 12'9"	C(48)				
	11'6" – 12'6"	BD		13'0"	103.3	
	13'0" – 14'0"	BD				Brown sandy silty CLAY with occasional fine gravel
	15'6" – 17'0"	U(4)†				
	15'6" – 17'0"	BD		18'0"	98.3	
	19'0" – 20'0"	S(30)*				Medium dense brown fine to medium SAND with occasional traces of coal
	22'0" – 23'0"	D				
	25'0" – 26'0"	S(23)		26'6"	89.8	
	27'0" – 28'6"	U(4)				Firm to stiff laminated brown silty CLAY with occasional fine gravel
16.6.67	28'6"	D		28'6"	87.8	

Key to type of sample :

U (4) — 4 in. dia. undisturbed sample.
U (1¾) — 1¾ in. dia. " "
D — disturbed sample.
BD — bulk disturbed sample.
V — vane test.
S ( ) — standard penetration test.
C ( ) — dynamic cone penetration test.
Figure in brackets is No. of blows for penetration given in depth column (see Notes, page 1).

Remarks : (Observations on ground-water, etc.)

Water was added to assist boring through the gravel and stood at a depth of 8ft below ground level on the morning of 16.6.67. A standpipe was installed to a depth of 28ft.

* Sample tested.

† Unable to recover sample.

SHARSTON BY-PASS

Lab Ref No. S/5968

FIG. 124

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

16 Cheshire 19 NW No 30.

SJ88NW/20

Manchester & Salford Co-operative Society Ltd.,
Longley Lane,
Wythenshawe,
Manchester.

Latitude 53° 23' 53" Longitude 2° 14' 58"

STRATA.

		Depth in metres
Soil	3' 0"	0.91
Sandy clay & Stones Sump		
Yellow Sand	8' 0"	2.44
Sand & Gravel	11' 0"	3.35
Clay	11' 6"	3.51
Sandy clay & Gravel	20' 6"	6.25
Yellow Sand	32' 0"	9.75
Yellow Sand & Gravel	47' 0"	14.33
Red Sandstone	302' 0"	92.05

Borehole - 17½" to 15"

Standing Water Level 11'- 6"

Pumping Water Level 85 ft

Yield 10000 G.P.H

6" to Lancashire 111 SW

98/60 Ches 19 NW/30

SJ 88 NW 20

Visited. In use for cooling milk only. This bore was used at first for all purposes but due to its hard character, water abstraction was stopped altogether for a period. Recently brought into use again for cooling.
Temperature 52°F. Consumption at present 60,000 g.p.day pumping at approx. 10,000 g.p.h. Maximum capacity of pump 250 g.p.min. = 15,000 g.p.h.
Type of pump: Matthews deep bore bucket pump. Water levels not obtainable. Bore constructed 1941. O.D. +120 approx. Sited by ⊙ on Cheshire 19 NW/W. 7.5.56. R.E.A.

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

SJ88NW/20 W/30.

Frank Higson, F.C.S.
Analytical, Technical &
Consulting Chemist,
Bolton.

CERTIFICATE OF ANALYSIS.

Result of analysis of one sample of water received from Messrs. Manchester & Salford Equitable Co-operative Society, Ltd., marked "Collected from Artesian Well, Northenden" dated January 28th, 1941.

Steam Raising.

Suspended matter.

Saline Matter.	5.96 parts per 100,000
SILICA	2.00 " " "
IRON OXIDES and ALUMINIUM OXIDES	4.40 " " "
CALCIUM	9.86 " " "
MAGNESIUM	2.07 " " "
CHLORIDES	2.13 " " "
CARBONATES	18.00 " " "
SULPHATES	trace
SODIUM	1.38 " " "

HARDNESS.

Temporary	18 degrees
Permanent	11 degrees.
	Total. 29

Remarks:-
Satisfactory for steam raising purposes though some advantage would be gained by the use of a water softener.

Yours faithfully.

MATTER IN SUSPENSION. 1.03 parts per 100,000.

APRIL, 1941.

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

14

C O P Y:

SJ88NW 20

Frank Higson,
Analytical, Technical & Consulting Chemist,
Bolton.

CERTIFICATE OF ANALYSIS.

Result of Analysis of one sample of water received from Messrs. Manchester & Salford Equitable Co-operative Society, Ltd., marked "Collected from Artesian Well, Northenden". Dated January 28th, 1941.

INDUSTRIAL PURPOSES.

Matter in Suspension		5.96 parts per 100,000
Total Saline Matter		39.84 " " "
Free Ammonia		0.0144 " " "
Abluminoid Ammonia		0.0077 " " "
Oxygen Absorbtion	15 min.	0.003.
" "	5 hrs.	0.042

Remarks:-

In my opinion this water is satisfactory for plant and bottle washing based on the Chemical Examination. The Suspended Matter may be removed by filtration or by Settling Tank.

Yours faithfully,

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

COPY SJ88NW 19 NW 20

Frank Higson, F.C.S.
Analytical Technical &
Consulting Chemist,
BOLTON.

BACTERIOLOGICAL EXAMINATION OF

Samples of Water received from Messrs. The Manchester & Salford Equitable Co-operative Society, Limited, marked "Collected from Artesian Well", dated January 28th 1941.

Bacteria Count. 1 ml.	20 ml.	B.COLI 20 ml	20ml.	20ml.
585	absent	absent	absent	absent

REMARKS.

B.Coli is absent in 100 ml. but the number of organisms is unsatisfactory and may be due to contamination during boring operations. A further sample after considerable pumping is necessary.

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

Cheshire 19 NW No 30.

SJ 8364 8910.

Manchester & Salford Co-operative Society Ltd., SJ88/54
Longley Lane,
Wythenshawe,
Manchester.

Latitude 53° 23' 53" Longitude 2° 14' 58"

STRATA.

Drift	Soil	3' 0"
	Sandy clay & Stones Sump	
	Yellow Sand	8' 0"
	Sand & Gravel	11' 0"
	Clay	11' 6"
	Sandy clay & Gravel	20' 6"
	Yellow Sand	32' 0"
	Yellow Sand & Gravel	47' 0"
upper mottled sst. Sso - Triassic	Red Sandstone	302' 0"

Borehole - 17½" to 15"
for NA. 12.4.78.

Standing Water Level 11'- 6"

Pumping Water Level 55 ft

Yield 10000 G.P.H

6" map: Lancashire 111 SW
1" map. 98.

From R. L. Matthews 22/7/1942

Visited. In use for cooling milk only. This bore was used at first for all purposes, but due to its hard character, water abstraction was stopped altogether for a period. Recently brought into use again for cooling. Temperature 52° F.
Consumption at present 60,000 gallons pumping at about 12,000 gph.
Maximum capacity of pump 250 gpm = 15,000 gph.
Type of pump - Matthews deep [illegible] pump.
Yield - only not obtainable.
Bore [illegible] 1941.
Dia. about + 20.
[illegible] 6" map Cheshire 111 SW. 7/5/55. REA.

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

SJ88 NW 150

SJ88 54

C O P Y:

Frank Higson, F.C.S.
Analytical, Technical &
Consulting Chemist,
Bolton.

CERTIFICATE OF ANALYSIS.

Result of analysis of one sample of water received from Messrs. Manchester & Salford Equitable Co-operative Society, Ltd., marked "Collected from Artesian Well, Northenden" dated January 28th, 1941.

Steam Raising.

Suspended matter.

Saline Matter.	5.96 parts per 100,000
SILICA	2.00 " " "
IRON OXIDES and ALUMINIUM OXIDES	4.40 " " "
CALCIUM	9.86 " " "
MAGNESIUM	2.07 " " "
CHLORIDES	2.13 " " "
CARBONATES	18.00 " " "
SULPHATES	trace
SODIUM	1.38 " " "

HARDNESS.

Temporary	18 degrees
Permanent	11 degrees.
	Total. 29

Remarks:-
Satisfactory for steam raising purposes though some advantage would be gained by the use of a water softener.

Yours faithfully.

MATTER IN SUSPENSION. 1.03 parts per 100,000.

APRIL, 1941.

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey

BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

98/SJ88NW/50

SJ88/54

C O P Y:

Frank Higson,
Analytical, Technical & Consulting Chemist,
Bolton.

CERTIFICATE OF ANALYSIS.

Result of Analysis of one sample of water received from Messrs. Manchester & Salford Equitable Co-operative Society, Ltd., marked "Collected from Artesian Well, Northenden". Dated January 28th, 1941.

INDUSTRIAL PURPOSES.

Matter in Suspension		5.96 parts per 100,000
Total Saline Matter		39.34 " " "
Free Ammonia		0.0144 " " "
Abluminoid Ammonia		0.0077 " " "
Oxygen Absorbtion	15 min.	0.003.
" "	5 hrs.	0.042

Remarks:-

In my opinion this water is satisfactory for plant and bottle washing based on the Chemical Examination. The Suspended Matter may be removed by filtration or by Settling Tank.

Yours faithfully,

Contact BGS: ngdc@bgs.ac.uk

British Geological Survey
BGS ID: 914672 : BGS Reference: SJ88NW20
British National Grid (27700) : 383416,389060

98 NW 30

SJ 88 54

C O P Y:

Frank Higson, F.C.S.
Analytical Technical &
Consulting Chemist,
BOLTON.

BACTERIOLOGICAL EXAMINATION OF

Samples of Water received from Messrs. The Manchester & Salford Equitable Co-operative Society, Limited, marked "Collected from Artesian Well", dated January 28th 1941.

Bacteria Count. 1 ml.	20 ml.	B.COLI 20 ml	20ml.	20ml.
585	absent	absent	absent	absent

REMARKS.

B.Coli is absent in 100 ml. but the number of organisms is unsatisfactory and may be due to contamination during boring operations. A further sample after considerable pumping is necessary.

Contact BGS: ngdc@bgs.ac.uk

APPENDIX D

Preliminary Conceptual Model

Table A: Potential Receptors to be considered in the Preliminary Conceptual Model

POTENTIAL RECEPTOR	COMMENTS	Include in PCM
PROPERTY: Other		
On Site		
Crops	None Intended on site	×
Domestic Produce	None Intended on site	×
Livestock	None Intended on site	×
Domestic Animals	None Intended on site	×
Game	None on site	×
Off Site		
Crops	Possibly adjacent to the site	×
Domestic Produce	Possibly in houses in vicinity of the site	×
Livestock	May be present adjacent to site	×
Domestic Animals	May belong to adjacent residents	×
Game	Possibly in fields adjacent to the site	×
PROPERTY: Buildings		
On Site		
	Commercial Properties, services	✓
Off Site		
	Commercial Properties, services, flora	✓
HUMANS		
On Site		
End Users	Employees	✓
Construction Workers	During ground excavations	✓
Surface water users	No surface water abstractions located within 250 m of the site	×
Off Site		
Residents	Residents adjacent to the site	✓
Employees	Employees of adjacent offices	✓
Groundwater users	No existing groundwater abstractions within 250 m.	×
Controlled Waters		
On Site		
Surface Waters	None on site	×
Groundwater	The superficial strata (Glaciofluvial sheet deposit) is classified by the EA as a 'Secondary A Aquifer' and is considered a potential receptor. The underlying bedrock aquifer is classified as a 'Secondary B Aquifer' and a 'Principle Aquifer'. These both represent a potential receptor.	✓
Off Site		
Controlled Waters	No significant surface water features within close proximity	×
Ecological Systems		
On/Off Site		
SSSIs, national nature reserves	SSSI Impact Risk Zone	×

Link	Source	Hazard	Transport Mechanism	Pathway	Medium of Exposure	Receptor	Risk Summary*
1	Contaminated soils	Direct contact /ingestion of soil or dust	Direct contact with contaminated soil	Dermal contact/ingestion of soil at surface	Soil	Humans (on-site/off-site)	Low
2	Contaminated soils	Particulate inhalation	Wind blown particulates	Inhalation of particulates	Air	Humans (on-site/off-Site)	Low
3	Contaminated Soils	Inhalation of Ground Gas	Degradation of contaminants generating ground gas through unsaturated zone to soil leading to inhalation	Inhalation of Gases	Air	Humans (on-site/ off-site)	Medium
4	Contaminated Soils	Vapour Inhalation	Volatalisation of organic compounds through unsaturated zone of soil leading to inhalation	Inhalation of Gases	Air	Humans (on-site/ off-site)	Low
5	Contaminated Soils	Damage to structure/services	Direct contact of contaminants with building structures/services and flora	Direct contact	Soil/Water	Flora, services	Low
6	Contaminated Soils	Degradation of perched water quality	Dissolution or suspension of contaminants into perched waters	Dissolution or Suspension	Water	Perched Waters	Low - Medium
7	Contaminated Soils	Pollution of underlying groundwater	Dissolution or suspension of contaminants into Bedrock Aquifer	Dissolution or Suspension	Water	Groundwaters	Low - Medium

Table B: *Preliminary Conceptual Model*

***Relative Risk Screening and Prioritisation for further Investigation & or Assessment**

High	Higher probability of occurrence and identification of primary sources of contamination with respect to most sensitive receptors.
Medium	Pollutant linkage generally dependent on the presence of other primary pollutant linkages and/or where pollutant linkage generally associated with less sensitive receptors.
Low	Lower probability of occurrence such as based on requirement for significant migration pathway or where pollutant linkage requires the presence of source contaminants at concentration likely to be much higher than other identified pollutant linkages.

APPENDIX E

Site Photographs



P1: Stockpile of plastic waste in the east of the site



P2: Stockpile of fridge/freezers in the east of the site



P3: Stockpile of landfill waste east of the centre of the site



P4: Main stockpile in the centre of the site, being sorted through with heavy machinery.



P5: Rotating metal Trommel west of the centre of the site



P6: Picking station located west of the centre of the site

Comments:

GEO-ENVIRONMENTAL CONSULTING

Photographs 1 to 6

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project	**Site:** Land at Sharston Industrial Estate, Manchester	**Project No:** 24035	**Created By:** M Leigh-Monk	**Date:** April 2024
	Title: Appendix E - Site Photographs	**Client:** PP O'Connor		



P7: Wood stockpile storage bey in the west of the site



P8: Stockpile storage bays located in the west of the site.



P9: Weighin bridge and modular office building located in the east of the site

Comments:

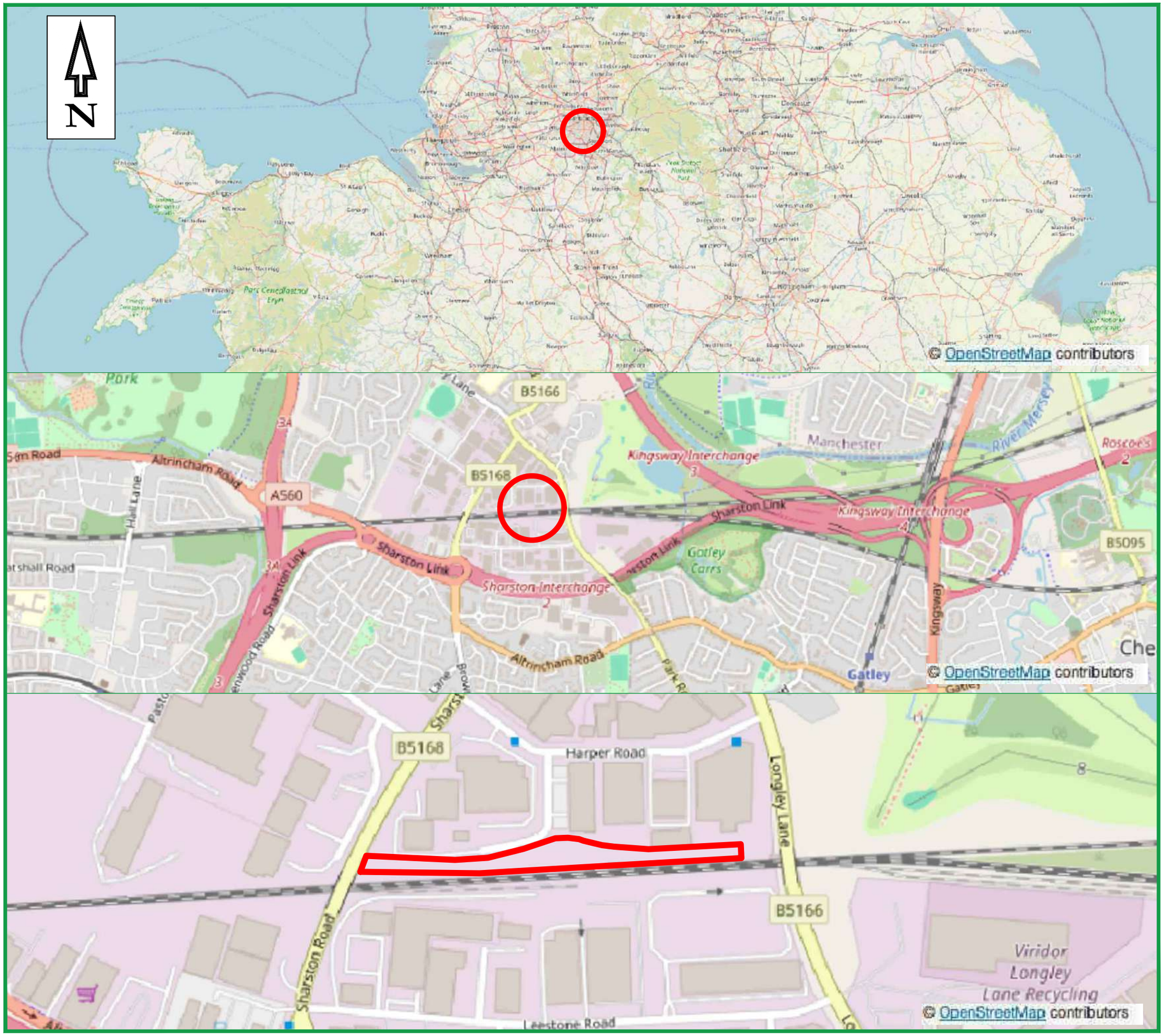
GEO-ENVIRONMENTAL CONSULTING

Photographs 7 to 8

This appendix is for illustrative purposes only and is for use only in conjunction with associated reports relating to the project	**Site:** Land at Sharston Industrial Estate, Manchester	**Project No:** 24035	**Created By:** M Leigh-Monk	**Date:** April 2024
	Title: Appendix E - Site Photographs	**Client:** PP O'Connor		

APPENDIX F

Drawings



LEGEND

SITE LOCATION

REV	DESCRIPTION	DATE	BY

GEO-ENVIRONMENTAL CONSULTING
No 2 Landwick Court, Metcalf Drive, Altham Business Park, Lancashire
Tel: 01254 377622 Mob: 07906753583
Email: mbuckley@bekenviro.co.uk
Web: www.bekenviro.co.uk

CLIENT.
P.P. O'CONNOR

JOB TITLE.
SHARSTON INDUSTRIAL ESTATE, MANCHESTER

DRAWING TITLE.
SITE LOCATION PLAN

SCALE @ A3.	DRAWN BY.	APPROVED BY.	DATE.
NTS	D.E.	M.B.	15/03/24

DRAWING No. 24035-1

REV. -



LEGEND

SITE FOOTPRINT

REV	DESCRIPTION	DATE	BY

GEO-ENVIRONMENTAL CONSULTING
No 2 Landwick Court, Metcalf Drive, Altham Business Park, Lancashire, BB5 5GY
Tel: 01254 377622 Mob: 07906753583
Email: mbuckley@bekenviro.co.uk
Web: www.bekenviro.co.uk

CLIENT.

P.P. O'CONNOR

JOB TITLE.

SHARSTON INDUSTRIAL ESTATE, MANCHESTER

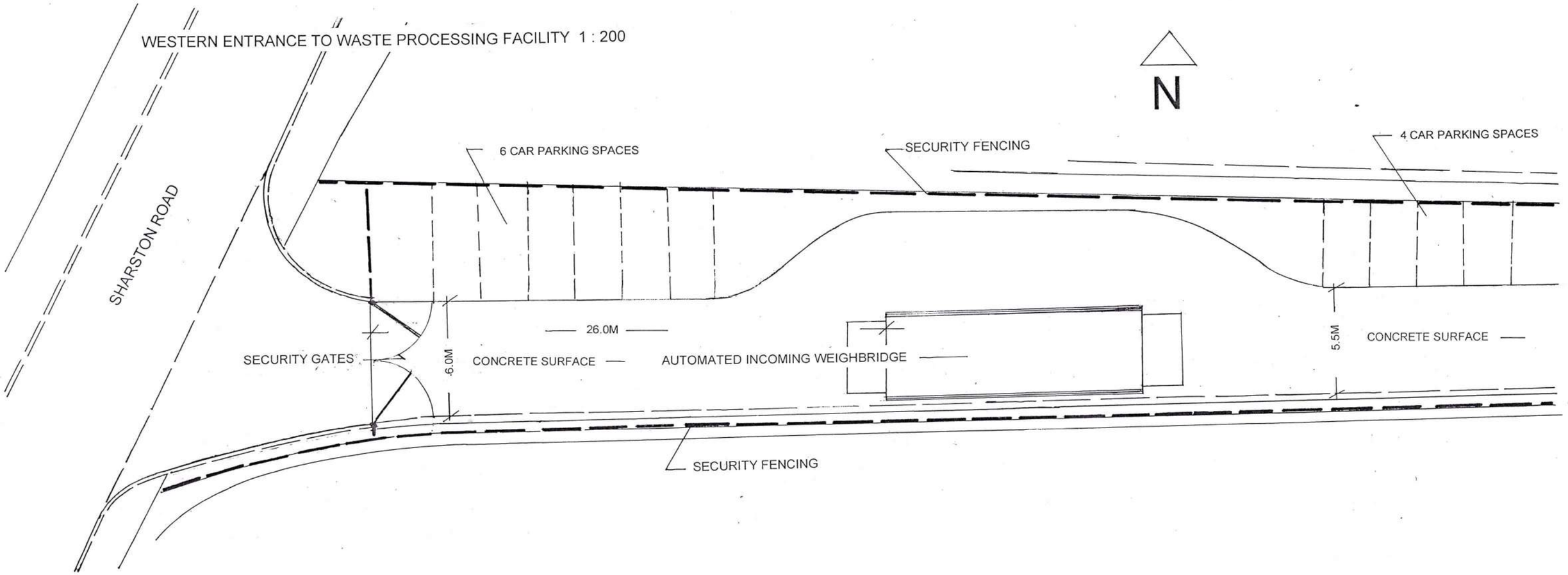
DRAWING TITLE.

SITE LAYOUT PLAN

SCALE @ A3.	DRAWN BY.	APPROVED BY.	DATE.
NTS	D.E.	M.B.	15/03/24

DRAWING No.	REV.
24035-2	-

WESTERN ENTRANCE TO WASTE PROCESSING FACILITY 1 : 200



SCALE BAR 1 : 200

0 2 5 10 20

Job Title
SHARSTON INDUSTRIAL ESTATE

All dimensions must be checked on site and not scaled from this drawing

Drawing Title
WASTE PROCESSING FACILITY
WESTERN ENTRANCE WEIGHBRIDGE AND PARKING

OakbayDesign
29 Bradford Road Eccles Manchester M30 9FF
Tel: +44 (0)7966 470358 info@oakbaydesign.com

Scale	Date
1 : 200 @ A3	FEBRUARY 2024

Drawing No.	Rev.
Z310.103	