



CRESTWOOD ENVIRONMENTAL LTD

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Site Condition Report

**Chicken portioning/packaging plant at
Vulcan Road, Bilston, Wolverhampton, WV14 7DX**

Report Reference: CE-VR-2370-RP02-SCR Rev A - Final

Report Date: 23 April 2024

Produced by Crestwood Environmental Ltd.

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ENVIRONMENT	LANDSCAPE	NOISE	LIGHTING
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MINERALS / WASTE	AIR QUALITY	LAND QUALITY	VISUALISATION



Crestwood Report Reference: CE-VR-2370-RP02-SCR Rev A - Final:

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Final Rev A	22/04/2024	Rowena Maitland (Senior Environmental Consultant)	Kate Brady, (Principal Consultant)

This report has been prepared in good faith, with all reasonable skill, care and diligence, based on information provided or known available at the time of its preparation and within the scope of work agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

The report is provided for the sole use of the named client and is confidential to them and their professional advisors. No responsibility is accepted to others.

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| ENVIRONMENT | LANDSCAPE | NOISE | LIGHTING |
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1 INTRODUCTION

1.1 Background

- 1.1.1 Crestwood Environmental Ltd. ('Crestwood') have been instructed by Salsbury Poultry Ltd (**the Client**) to prepare and submit a Site Condition Report in support of the application to authorise the operation of a chicken portioning plant at Vulcan Road, Bilston, Wolverhampton, WV14 7DX and a breeding plant at Dale Street, Bilston, Wolverhampton, WV14 7HQ. Both areas combined are collectively referred to as the Site throughout this report. (**the Site**).
- 1.1.2 The Site is divided into two areas, the southwestern area is the chicken portioning plant Vulcan Road, Bilston, Wolverhampton, WV14 7DX and the northeastern area is the breeding plant at Dale Street, Bilston, Wolverhampton, WV14 7HQ.
- 1.1.3 The purpose of the application is to authorise the Client to operate their plant at the Site.

1.2 Data Sources

- 1.2.1 This Site Condition Report has been prepared using the Environment Agency H5 Guidance and template (<https://www.gov.uk/government/publications/environmental-permitting-h5-site-condition-report>).
- 1.2.2 A number of data sources have been referenced in the production on this report, including an environmental dataset (Groundsure Enviro Insights Report), appended as Appendix 1; this contains key information relating to the Site on contaminated land, Environmental Permits, active and historic landfill and waste sites and current industrial sites, recent and historical aerial imagery, historical land use, pollution, flooding, hydrology and hydrogeology, waste exemptions, planning and development designations, ordnance and military data, National Grid gas pipelines and electricity transmission lines.
- 1.2.3 Other data sources used in the production of this report include:
- Department for Environment, Food and Rural Affairs' (DEFRA) MAGIC Map service (<https://magic.defra.gov.uk/magicmap.aspx>);
 - The British Geological Survey (BGS) maps (<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>);
 - Environment Agency's (EA) Flood Map Service (<https://flood-map-for-planning.service.gov.uk/>);
 - National Library of Scotland's Map Finder service (<https://maps.nls.uk/geo/find/marker/#zoom=5&lat=56.0000&lon=-4.0000&f=0&z=1&marker=56.0,-4.0&from=1450&to=1972>):
- 1.2.4 A Site walkover survey was undertaken by Crestwood Environmental Ltd on 30 May 2023.

1.3 General Report Content and Structure

- 1.3.1 Site Condition Report structure follows the stages presented in Table 1.

Table 1 Site Condition Report stages

No.	SCR Section	Permit stage
1	Site Details	Permit application
2	Condition of land at permit issue	
3	Permitted activities	
4	Changes to the activity	Operation
5	Measures taken to protect the land	
6	Pollution incidents that may have had an impact on land, and their remediation	



No.	SCR Section	Permit stage
7	Soil gas and water quality monitoring (where undertaken)	
8	Decommissioning and removal of pollution risk	Permit surrender
9	Reference data and remediation (where relevant)	
10	Statement of site condition	

1.3.2 This Site Condition Report has been prepared at the point of permit application. As such, sections 1-3 of the H5 template have been completed.

2 Site Details

2.1.1 The Site is a chicken portioning plant and breeding plant owned and operated by Salisbury Poultry Ltd at Vulcan Road, Bilston, Wolverhampton, WV14 7DX and Dale Street, Bilston, Wolverhampton, WV14 7DX, respectively. Its operations fall under Schedule 1, Chapter 6 of the Environmental Permitting (England and Wales) Regulations 2016:

Section 6.8, Part A (1) (d) - Treatment and processing, other than exclusively packaging, of the following raw materials, whether previously processed or unprocessed, intended for the production of food or feed (where the weight of the finished product excludes packaging):

(i) only animal raw materials (other than milk only) with a finished product production capacity greater than 75 tonnes per day.

2.1.2 Site details are shown in Table 2 below.

Table 2 Site Details

Site Details	
Name of the Applicant	Salisbury Poultry Ltd
Activity Address	Vulcan Road, Bilston, Wolverhampton, WV14 7DX (Chicken portioning) Dale Street, Bilston, Wolverhampton, WV14 7HQ (breeding)
National Grid Reference	Chicken portioning, (southwestern area): SO958963 Breeding (northeastern area): SO960965
Document Reference and Dates for Site Condition Report at Permit Application and Surrender	Application: CE-VR-2370-RP02 (this report) Surrender: TBC
Document References for Site Plans (including location and boundaries)	CE-VR-2370-GDW01

3 CONDITION OF LAND AT PERMIT ISSUE

3.1 The Site and Surrounding Area

3.1.1 The southwestern site is an industrial building located on Vulcan Road, Bilston, Wolverhampton, WV14 7DX, at National Grid Reference SO958963 (X/Northing = 395857, Y/Easting = 296389). The northeastern site is an industrial building located on Dale Street, Bilston, Wolverhampton, WV14 7HQ, at National Grid Reference SO960965 (X/Northing = 396000, Y/Easting = 296500).

3.1.2 The Site is located c. 1.2 km northwest of Wednesbury, c. 1.6 km south of Willenhall, c. 4.4 km southeast of central Wolverhampton, c. 5.4 km southwest of central Walsall and 6.0 km north of central Dudley.

3.1.3 Land use immediately adjacent to the southwestern site comprises of other industrial units and businesses along Vulcan Road to the east and Hare Street to the west. A larger complex of industrial units/businesses is located directly south of the Site. North of the southwestern site is also bordered by Hare Street, as well as Wolverhampton Auto Care on the other side of Hare Street; beyond this; there are patches of woodland and the A463.



- 3.1.4 Access to the southwestern site is gained via an entrance road off Vulcan Road.
- 3.1.5 The northeastern site is an industrial building located on Dale Street, Bilston, Wolverhampton, WV14 7HQ, at National Grid Reference SO960965 (X/Northing = 396000, Y/Easting = 296500). Land use immediately adjacent comprises of associated staff car parking directly west and lorry parking directly east. The area comprises of industrial units, and businesses along Dale Street and Vulcan Road.
- 3.1.6 Access to the northeastern site is gained via an entrance road off Dale Street.
- 3.1.7 The Site in context with the immediate and wider landscape is shown in on Permit Boundary Plan Drawing No CE-VR-2370-DWG01.
- 3.1.8 The wider landscape is largely industrialised throughout the linked areas of Wolverhampton, Walsall and Dudley, which comprise industrial and residential areas dotted with green areas (parks and woodlands).
- 3.1.9 Within a 2km radius of the application the only designated habitats/designations are two Local Nature Reserves, both Moorcroft Wood 1334 and 1452m SE of the Site.

3.2 Geology

- 3.2.1 The British Geological Survey (BGS) maps (<http://mapapps.bgs.ac.uk/geologyofbritain/home.html>) indicate that the superficial deposits underneath the northern section of the southwestern site are alluvium, which are sand and gravel sedimentary superficial deposits formed between 11.8 thousand years ago and the present during the Quaternary period. The majority of the northwestern site is alluvium.
- 3.2.2 No information is available pertaining to the superficial geology underlying the remainder of the Site.
- 3.2.3 In terms of bedrock geology, the Site is underlain with the Pennine Middle Coal Measures Formation, which is classified as mudstone, siltstone and sandstone: sedimentary bedrock formed between 318 and 309.5 million years ago during the Carboniferous period.
- 3.2.4 The Site is not on or adjacent to land designated nationally or locally for its geological importance.

3.3 Hydrology And Hydrogeology

Surface Water / Rivers

- 3.3.1 Within a 250m radius of the Site's boundary, there is one identified surface water feature. The Darlaston Brook is 97m to the northeast of the Site.
- 3.3.2 In terms of the Water Framework Directives (WFD), the area in which the Site is situated falls under the water body catchment of Tame (Wolverhampton Arm, source to conf. Oldbury). The operational catchment is Tame Upper Rivers whilst the management catchment is Tame Anker and Mease.
- 3.3.3 Under the WFD, environmental objectives have been set for each water body and reported on in six-year periods. The most recent report carried out in the River Tame (Wolverhampton Arm as above) in 2019 states that the chemical rating is a 'fail' whereas the ecological and overall ratings are 'moderate'.
- 3.3.4 Groundwater bodies are also covered by the WFD and the most recent chemical and ecological rating from 2019 for the groundwater held within the aquifer on-Site is classified as 'good'.

Licensed Discharges to Controlled Waters

- 3.3.5 Based on information from the Groundsure Enviro Insight Report (refer to Appendix 1), there are seven records of discharges of treated or untreated effluent to controlled waters under the Water Resources Act 1991. For ease of reference, these have been tabulated below in Table 3.



Table 3 Licensed Discharges to Controlled waters within 500m of the Site

Distance/ Direction	License Holder	Details	Status
96m NE	Lunt Road CSO, Lunt Road, Bilston, West Midlands, WV14 7HF	Effluent Type: Sewage Discharges – Sewer Storm Overflow – Water Company Permit Number: EPRHB3896EB Permit Version: 1 Receiving Water: Darlaston Brook	Status: Varied under EPR 2010 Issue date: 09/08/2018 Effective Date: 09/08/2018 Revocation Date: -
99m NE	Queen Street CSO, WV14 7HG	Effluent Type: Sewage Discharges – Sewer Storm Overflow – Water Company Permit Number: TSC1609 Permit Version: 1 Receiving Water: Bilston Brook	Status: Varied under EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
150m NE	Lunt Road, WV14 7HQ	Effluent Type: Sewage Discharges – Sewer Storm Overflow – Water Company Permit Number: TSC1179 Permit Version: 1 Receiving Water: Bilston Brook REM	Status: Varied under EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
171m N	Dock Meadow CSO, Willingworth Close, Bilston, West Midlands, WV14 9YQ	Effluent Type: Sewage Discharges – Storm Overflow – Water Company Permit Number: T/08/07832/O Permit Version: 1 Receiving Water: Bilston/Darlaston Brook	Status: Modified (WRA 91 Sched 10 – as amended by Env Act 1995) Issue date: 20/09/1979 Revocation date: 30/03/2010
171m N	Dock Meadow CSO, Willingworth Close, Bilston, West Midlands, WV14 9YQ	Effluent Type: Sewage Discharges – Storm Overflow – Water Company Permit Number: T/08/07832/O Permit Version: 1 Receiving Water: Bilston/Darlaston Brook	Status: Modified (WRA 91 Sched 10 – as amended by Env Act 1995) Issue date: 30/03/2010 Revocation date: 07/08/2018
235m NE	Citadel Junction, Black Country New Road, Darlaston	Effluent Type: Trade Discharges – Site Drainage Permit Number: T/08/35168/T Permit Version: 1 Receiving Water: Darlaston Brook	Status: Post NRA Legislation where issue date > 31-AUG-89 (historic only) Issue date: 13/01/1998 Effective Date: 13/01/1998 Revocation Date: 30/09/1998
235m NE	Citadel Junction, Black Country New Road, Darlaston	Effluent Type: Trade Discharges – Site Drainage Permit Number: T/08/35168/T Permit Version: 1 Receiving Water: Darlaston Brook	Status: Post NRA Legislation where issue date > 31-AUG-89 (historic only) Issue date: 13/01/1998 Effective Date: 13/01/1998 Revocation Date: 30/09/1998

Surface Water Abstractions

3.3.6 Within 2,000m of the Site, records obtained from the Environment Agency indicate that there is one licensed surface water abstraction and no potable abstractions. Details are provided in Table 4 below.



Table 4 Surface and Potable Water Abstractions within 2000m of the Site

Distance/Direction	License Holder	Details	Status and Dates	Volumes (m ³)
1294m SE	Canal and River Trust	Licence No: 03/28/08/0063 Non-Evaporative Cooling Direct Source: Surface Water Midlands Region Point: Glynwed Steel Ltd Premises – Birmingham Canal Coordinates: 396900 Easting, 295500 Northing	Status: Historical Original Start Date: 22/09/1965 Version Start Date: 18/04/2008	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 137

Groundwater Abstractions

3.3.7 Licensed groundwater abstractions are for sites that extract more than 20 cubic metres of water per day. There are 23 such licences identified within 2,000m of the Site's permit boundary, both active and historic, for the purposes of supply to a canal for throughflow, as well as evaporative and non-evaporative cooling. Reference should be made to Table 5 below for details.

Table 5 Groundwater Abstractions within 2000m of the Site

Distance/Direction	License Holder	Details	Status and Dates	Volumes (m ³)
811m S	British Waterways Board	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: Hawkins Shaft – Canal Feeder Easting: 395700 Northing: 295500	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A
814m S	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "D") Hawkins Shaft – Canal Feeder Easting: 395688 Northing: 295498	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 27/03/2014	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732
821m S	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "D") Hawkins Shaft – Canal Feeder Easting: 395700 Northing: 295490	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2
824m S	British Waterways Board	Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Licence No: 03/28/08/0140 Point: Hawkins Shaft – Canal Feeder	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A
832m S	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "B") Boat Dock Shaft – Canal Feeder Easting: 395647 Northing: 295484	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 27/03/2014	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732



Distance/ Direction	License Holder	Details	Status and Dates	Volumes (m ³)
836m S	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "B") Boat Dock Shaft – Canal Feeder Easting: 395650 Northing: 295480	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2
867m NE	British Waterways Board	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: Herbert's Park Shaft 2 – Canal Feeder Easting: 396700 Northing: 297100	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A
867m NE	British Waterways Board	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: Herbert's Park Shaft 1 – Canal Feeder Easting: 396700 Northing: 297100	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A
882m NE	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "E") Herbert's Park Shaft 2 – Canal Feeder Easting: 396710 Northing: 297110	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2
882m NE	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "E") Herbert's Park Shaft 1 – Canal Feeder Easting: 396710 Northing: 297110	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2
884m NE	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "E") Herbert's Park Shaft 1 – Canal Feeder Easting: 396714 Northing: 297109	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 27/03/2014	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732
893m NE	Canal and River Trust	Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "E") Herbert's Park Shaft 2 – Canal Feeder Easting: 396718 Northing: 297119	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 27/03/2014	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732
1120m S	British Waterways Board	Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Licence No: 03/28/08/0140 Point: Bradley Shaft – Canal Feeder Easting: 395600 Northing: 295200	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A



Distance/Direction	License Holder	Details	Status and Dates	Volumes (m ³)
1133m S	Canal and River Trust	Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Licence No: 03/28/08/0140 Point: (Point "A") Bradley Shaft – Canal Feeder Easting: 395652 Northing: 295181	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 27/03/2014	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732
1134m S	Canal and River Trust	Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Licence No: 03/28/08/0140 Point: (Point "A") Bradley Shaft – Canal Feeder Easting: 395650 Northing: 295180	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2
1421m SW	Metabrasive Ltd	Licence No: 03/28/08/0193 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: Capponfield Works, Bilston - Mineshaft Easting: 394500 Northing: 295600	Status: Historical Original Start Date: 16/01/1971 Version Start Date: 07/08/1980	N/A
1727m SW	Metabrasive Ltd	Licence No: 03/28/08/0261 Details: Evaporative Cooling Direct Source: Groundwater Midlands Region Point: Springvale Business Park, Bilston – Borehole Easting: 394140 Northing: 295630	Status: Historical Original Start Date: 06/12/1996 Version Start Date: 06/12/1996	Annual Volume (m ³): 201600 Max Daily Volume (m ³): 600
1738m SW	British Waterways Board	Licence No: 03/28/08/0140 Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: Deepfield Shaft 1 – Canal Feeder Easting: 394600 Northing: 295000	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A
1738m SW	British Waterways Board	Licence No: 03/28/08/0140 Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: Deepfield Shaft 2 – Canal Feeder Easting: 394600 Northing: 295000	Status: Historical Original Start Date: 19/08/1967 Version Start Date: 19/08/1967	N/A
1777m SW	Canal and River Trust	Licence No: 03/28/08/0140 Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "C") Deepfield Shaft 1 – Canal Feeder Easting: 394584 Northing: 294963	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 27/03/2014	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732
1778m SW	Canal and River Trust	Licence No: 03/28/08/0140 Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "C") Deepfield Shaft 2 – Canal Feeder Easting: 394584 Northing: 294961	Status: Active Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date:	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732



Distance/Direction	License Holder	Details	Status and Dates	Volumes (m ³)
			27/03/2014	
1782m SW	Canal and River Trust	Licence No: 03/28/08/0140 Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "C") Deepfield Shaft 2 – Canal Feeder Easting: 394580 Northing: 294960	Status: Historical Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2
1782m SW	Canal and River Trust	Licence No: 03/28/08/0140 Use: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: (Point "C") Deepfield Shaft 1 – Canal Feeder Easting: 394580 Northing: 294960	Status: Historical Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Version Start Date: 18/04/2008	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2

Aquifer Classification

- 3.3.8 Based on records gathered from the British Geological Survey website <http://mapapps.bgs.ac.uk/geologyofbritain/home.html> and information in the Groundsure report, the groundwater on Site would be held within both the bedrock strata and the superficial aquifer, although predominantly within the Principal bedrock aquifer, which is classified as a Secondary A aquifer, formerly termed as minor aquifers, which contains permeable layers capable of supporting water supply at a local level as opposed to a strategic scale, and, in some cases, can form an important source for the base flow of rivers. It is defined as a Productive Aquifer.
- 3.3.9 The superficial deposits directly underlying the Site are also designated as a Productive Secondary A aquifer. Meanwhile, two Unproductive aquifers are located 187m NE and 302m NE of the Site; these are defined as low permeability rock layers or drift deposits with negligible importance for water supply or base flow. Finally, three aquifers classed as Secondary Undifferentiated are located 223m S, 302m NE and 304m NE of the Site; this is a designation assigned where the aquifer cannot be classified as either A or B, and may variably be classified as minor or non-aquifers in different locations.

Groundwater Source Protection Zones

- 3.3.10 These zones ensure water is consumable as well as assisting in the monitoring of the risk of contamination from any activities that potentially cause pollution in the area. A Source Protection Zone defines the sensitivity around a deep groundwater abstraction to contamination. Records show that within 500m, there are no Groundwater Source Protection Zones within the Site's proximity. However, both the bedrock and the superficial geology have low vulnerability. This is due to the low leaching class of the soils which restricts the transmission of pollutants.

Nitrate Vulnerable Zone

- 3.3.11 Nitrate Vulnerable Zones (NVZ), under the EC Nitrate Directive (91/676/EEC), are designated areas of land that drain into nitrate polluted waters or waters which have the potential to become polluted by nitrates. They are defined as 'catchments where nitrate concentrations in sources of public drinking water exceed, or are likely to exceed, the EC limit of 50 milligrams per litre'. Records show that within 2000m of the Site, there are four identified surface water NVZ. One is located on the Site itself while the other three are located 327m S, 1627m W and 1664m W of the Site; all four bear the NVZ identification number 308 for the River Trent (source to confluence with Derwent).



3.4 Flood Risk

Surface Water Flood Risk

- 3.4.1 According to the Environment Agency's (EA) Flood Map Service (<https://flood-map-for-planning.service.gov.uk/>) and as indicated in the appended Groundsure Report, in terms of river and coastal flooding, the Site occupies an area of land that is classified as Flood Zone 3, which has a high probability of flooding (1% probability of flooding from rivers, or 0.5% probability of flooding from the sea). See Diagram 1 and 2.
- 3.4.2 Within 250m of the Site's boundary, there are no historical flood events, barriers, etc. based on the report from Groundsure.

Diagram 1 SOUTHWESTERN SITE: SURFACE WATER FLOOD RISK MAP FOR PLANNING

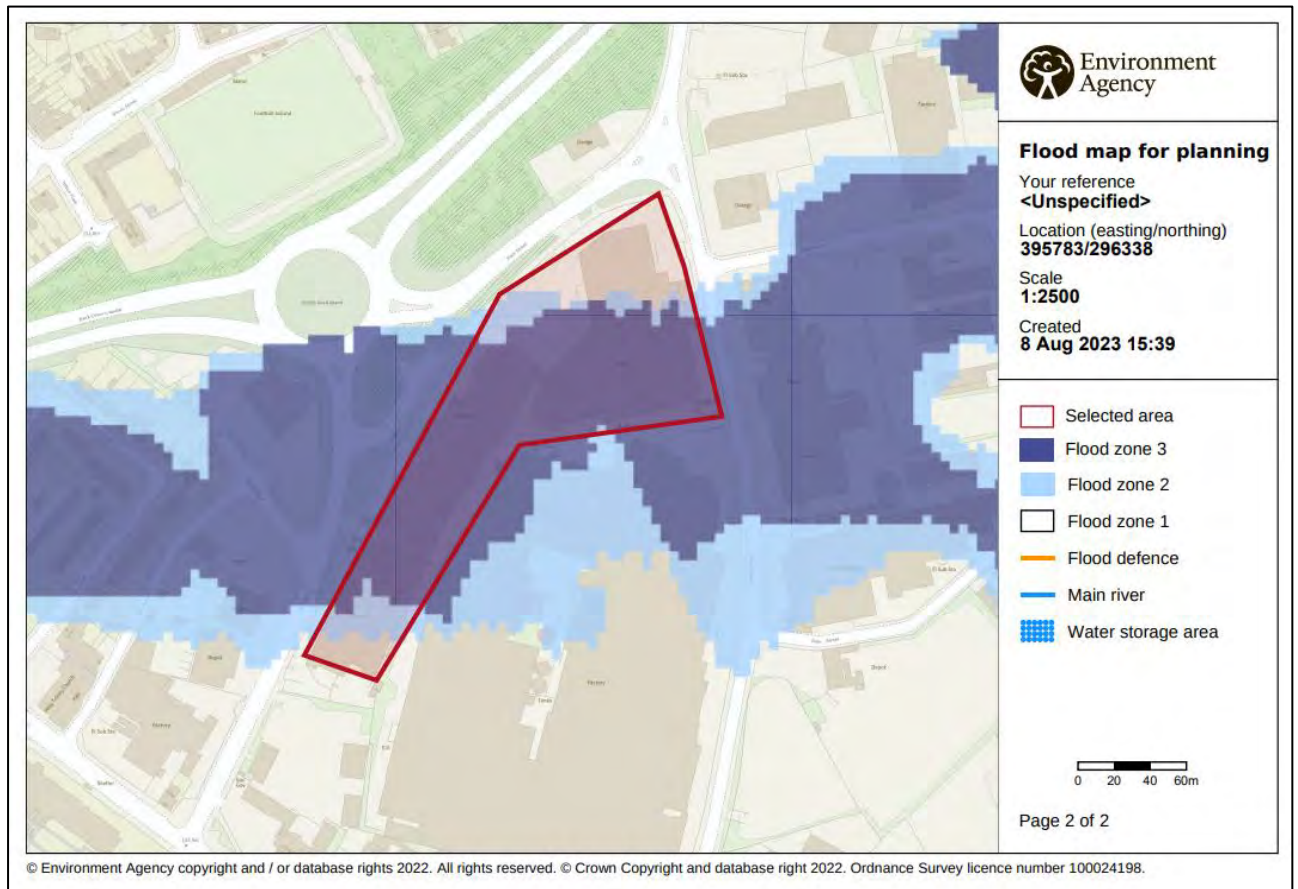
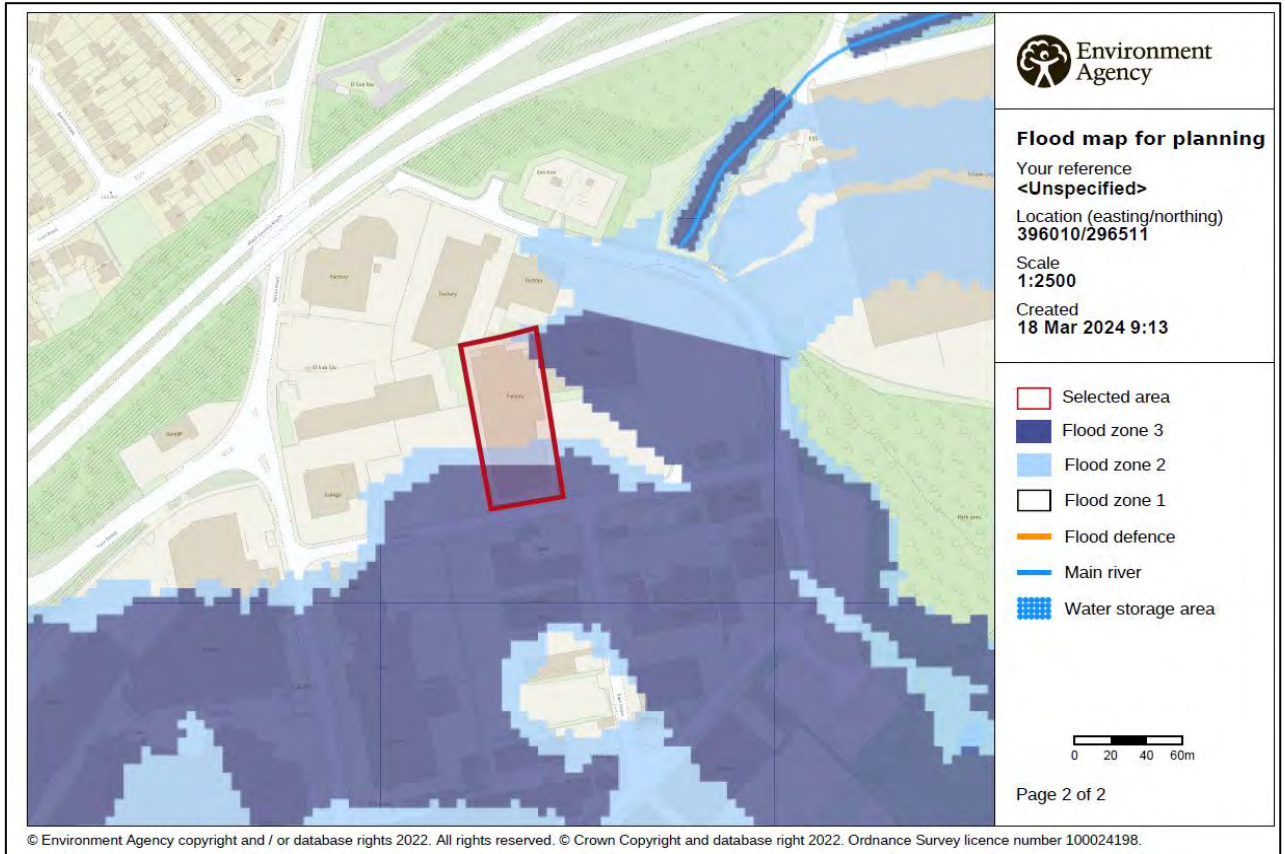


Diagram 2 NORTHEASTERN SITE: SURFACE WATER FLOOD RISK MAP FOR PLANNING



3.4.3 An Ambient Risk Analytics surface water FloodMap identifies that the highest risk of flooding on the Site as a result of an extreme rainfall event i.e., land naturally vulnerable to surface water flooding or ponding. Data indicates that the highest risk of surface water flooding on the Site and within 50m of its boundary is 1 in 30 year (0.3m – 1.0m), therefore it is negligible.

Groundwater Flood Risk

3.4.4 The risk assessment for groundwater flooding is based on a 1 in 100 year return period and a Digital Terrain Model (DTM) which indicates that the highest risk on Site is low, and the highest risk within 50m of the boundary is low.

3.5 Infilled Land

3.5.1 Infilled land is 'areas where the ground has been cut away then wholly or partially backfilled'. According to data sourced from Ordnance Survey, BGS records, Local Authority (LA) and historical mapping records, the Groundsure report (see Appendix 1) identifies no active, recent or historical landfilled areas within a 500m radius of the Site, although made ground (classed as artificial deposits, undivided).

3.5.2 Based on records obtained from the Environment Agency there are six known historical landfill sites where there is no PPC permit or waste management licence currently in force. This includes sites that existed prior to the waste licensing regime and sites that were licenced in the past but the licence was revoked, ceased to exist or surrendered with a certificate of completion issued. Table 6 below outlines the details of these sites.

Table 6 Historical Landfill within 500m

Location	Operator/Address	Waste Types/Details	Dates/Status
75m N	Licence Holder: Severn Trent Water Site Address: The Lunt Sewage Works, off the Black Country Route, Bilston, West Midlands	Site Reference: 644/829, LF/23 Waste Type: Industrial, liquid sludge	First Recorded: 01/09/1982 Last Recorded: 01/12/1986
171m E	Site Address: Dale Street, Dale Street,	Site Reference: 644/2013,	N/A



Location	Operator/Address	Waste Types/Details	Dates/Status
	Bilston, West Midlands	4600/9406 Waste Type: N/A	
252m SE	Operator: Midland Earthmoving Company Limited Site Address: Hughes Road Landfill Site, Hughes Road, Moxley, Walsall, West Midlands	Site Reference: SL/178, WAL514, 644/488 Waste Type: Commercial, household	First Recorded: 08/04/1986 Last Recorded: N/A
320m NE	Operator: Parkhill - Darlaston Lane Landfill Site Licence Holder: Parkhill - Darlaston Lane Landfill Site Site Address: Parkhill - Darlaston Lane Landfill Site, Darlaston Lane, Wolverhampton, Bilston, West Midlands Licence Holder Address: Fernhill Road, near Newport, Sutton, Shropshire	Waste Licence: Yes Site Reference: NYCC/340, 0700/NYCC340, NE3964 Waste Type: - Environmental Permitting Regulations (Waste) Reference: YP3/L/WAL001 Licence Issue: 08/06/1978 Licence Surrender: 18/08/2010	N/A
434m E	License Holder: George Ward (Moxley) Limited. Site Address: Heathfield Lane West, Heathfield Lane, Moxley, Walsall	Waste Licence: Yes Site Reference: SL/111, 644/78 Waste Type: Inert, Industrial Regulations (Waste) Reference: BD1/L/GEO001 Licence Issue: 11/10/1977	First Recorded: 31/12/1908
455m SW	Site Address: Land at Brook Terrace, Brook Terrace, Bilston, West Midlands	Site Reference: 644/2006, 4600/9404 Waste Type: Industrial, household environmental permitting	First Recorded: 08/04/1986 Last Recorded: N/A

3.6 Sensitive Receptors for Air Pollution

3.6.1 Based on a 1km radius, there are 21 points surrounding the Site which denote the nearest boundary of a potential receptor sensitive to air pollution (e.g. dust, particulates, bioaerosols). It should be noted that, due to the highly urbanised nature of the Site's surrounding environment, it would be impractical to denote every individual site, building and residence; therefore, sensitive receptors are primarily organised here in groups: housing estates, industrial estates, larger buildings, etc. Nearby sensitive receptors are shown on Drawing No CE-VR-2370-DWG02 Sensitive Receptors Plan.



3.7 Environmental Designations/Protected Sites

3.7.1 The Magic Map website (<http://www.natureonthemap.naturalengland.org.uk/magicmap.aspx>) shows that there are no Environmental Designated Sites (i.e. Special Area of Conservation (SAC), Special Protection Areas (SPA's), RAMSAR sites), Sites of Special Scientific Interest (SSSI) or national Nature Reserve (NNR) within a 2km radius of the application. There are, however, two Local Nature Reserves (LNR), these being Moorcroft Wood 1334 and 1452m SE of the Site.

3.7.2 Within a 2000m radius of the Site, there are no identified NNR, LNR, Designated Ancient Woodland, Biosphere Reserves, Forest Parks, Marine Conservation Zones or Proposed Ramsar, Possible SAC or Potential SPA. Records sourced from natural England indicate that on-Site there is one area defined as an SSSI Impact Risk Zone and there are no areas classified as an SSSI Unit. As such, certain types of developments require consultation and are as follows:

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

3.7.3 Within 250m of the Site, there are no records of any Conservation Areas (defined as a visual and cultural designation). There are no further such designations within a 250m zone of the Site.

3.7.4 Under the Priority Habitat Inventory, habitats of principal importance are named by the Natural Environment and Rural Communities Act (2006) Section 41. There are no such habitats near to the Site.

3.8 Pollution History

Pollution Incidents that may have affected the Land

3.8.1 The Groundsure report shows that there have been 27 reported pollution incidents on the Site itself or within 500m of the boundary. Details are tabulated in Table 7.



Table 7 Pollution Incidents within 500m of the Site

Distance/ Direction	Incident Date & ID	Pollutant & Pollutant Description	Impact Category		
			Water	Land	Air
25m N	Incident Date: 27/09/2003 Incident Identification: 192849	Pollutant: Atmospheric Pollutants and Effects - Specific Waste Materials Pollutant Description: Smoke - Tyres	Minor	Minor	Minor
27m NE	Incident Date: 22/02/2002 Incident Identification: 60108	N/A	No Impact	No Impact	No Impact
87m N	Incident Date: 19/08/2001 Incident Identification: 30473	Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	No Impact	Significant	No Impact
89m N	Incident Date: 12/07/2001 Incident Identification: 22372	Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	No Impact	Significant	No Impact
96m N	Incident Date: 12/08/2002 Incident Identification: 99447	Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material	No Impact	No Impact	No Impact
98m NE	Incident Date: 06/01/2009 Incident Identification: 644348	Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Major	Significant	Minor
141m S	Incident Date: 04/07/2001 Incident Identification: 13576	Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	No Impact	No Impact	No Impact
159m SE	Incident Date: 22/07/2002 Incident Identification: 93572	Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	No Impact	Minor	Minor
159m SE	Incident Date: 22/07/2002 Incident Identification: 93572	Pollutant: Atmospheric Pollutants and Effects - Specific Waste Materials Pollutant Description: Smoke - Commercial Waste, Household Waste, Other Specific Waste Material	No Impact	Minor	Minor
159m SE	Incident Date: 22/07/2002 Incident Identification: 93572	Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	No Impact	Minor	Minor
159m SE	Incident Date: 22/07/2002 Incident Identification: 93572	Pollutant: Specific Waste Materials Pollutant Description: Household Waste	No Impact	Minor	Minor
159m SE	Incident Date: 22/07/2002 Incident Identification: 93572	Pollutant: Pollutants and Effects Pollutant Description: Smoke	No Impact	Minor	Minor
159m SE	Incident Date: 09/07/2003 Incident Identification: 172218	Pollutant: Atmospheric Pollutants and Effects - Contaminated Water Pollutant Description: Fumes - Firefighting Run-Off	Minor	No Impact	Minor
213m N	Incident Date: 19/04/2003 Incident Identification: 152519	Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	No Impact	Minor	No Impact
230m S	Incident Date: 19/12/2001 Incident Identification: 48971	Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	No Impact	No Impact	Minor



Distance/ Direction	Incident Date & ID	Pollutant & Pollutant Description	Impact Category		
			Water	Land	Air
251m S	Incident Date: 20/08/2001 Incident Identification: 25504	Pollutant: Oils and Fuel Pollutant Description: Petrol	No Impact	Minor	No Impact
251m S	Incident Date: 20/08/2001 Incident Identification: 25504	Pollutant: Oils and Fuel Pollutant Description: Petrol	No Impact	Minor	No Impact
162m SE	Incident Date: 20/05/2003 Incident Identification: 159667	Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Minor	Minor	Minor
279m NE	Incident Date: 04/07/2002 Incident Identification: 89368	Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	No Impact	No Impact	Minor
345m W	Incident Date: 02/01/2002 Incident Identification: 50223	Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	No Impact	No Impact	Minor
345m W	Incident Date: 10/11/2001 Incident Identification: 42189	Pollutant: Specific Waste Materials Pollutant Description: Tyres	No Impact	Minor	Minor
355m E	Incident Date: 22/05/2002 Incident Identification: 80567	N/A	Minor	Minor	Minor
335m SW	Incident Date: 19/06/2003 Incident Identification: 167345	Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	No Impact	No Impact	Minor
347m W	Incident Date: 09/07/2002 Incident Identification: 90225	Pollutant: Oils and Fuel Pollutant Description: Diesel	Minor	Minor	No Impact
448m NE	Incident Date: 17/09/2003 Incident Identification: 190739	Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	No Impact	Minor	Minor
451m E	Incident Date: 17/04/2003 Incident Identification: 152176	Pollutant: Sewage Materials Pollutant Description: Grey Water	Minor	No Impact	No Impact

- 3.8.2 There are no records indicating within 500m of the Site that there are any Sites determined as Contaminated Land or Regulated Explosive Sites. In addition, there are no Radioactive Substance Authorisations, Pollutant release to surface waters, List 1 or 2 Dangerous Substances or Pollution inventory radioactive waste within a 500m radius of the Site.
- 3.8.3 The Groundsure report shows that there has been one pollutant release to public sewer within 500m of the Site. Discharges of special category effluent to the public sewer (permission reference: AG5013) located 47m North of the Site at MF Hawkins and Sons (Electroplaters) Ltd, Murdock Road, WV14 7HG.
- 3.8.4 Data obtained from the Health and Safety Executive show there are no sites listed as a Control of Major Accident Hazards (COMAH) site within 500m.
- 3.8.5 Hazardous substance storage/usage consents are granted to a site to enable the operator to hold specific quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015. There are no such sites within 500m of the Site.
- 3.8.6 Historical Integrated licenced industrial activities (IPC) records show that within 500m of the Site, there are six listings of substance releases to air, land and water, all operated by Mueller Europe at Oxford Street, Bilston, West Midlands, WV14 7DS, being 259m south of the Site. Reference should be made to the Groundsure report in Appendix 1, pages 88 – 89, and 83-84 for details.
- 3.8.7 Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales)



Regulations 2016 for the release of substances into the environment indicate 35 such sites within 500m of the Site in the range of 93m to the southwest of the Site to 259m to the south. Pages 89 - 95 (and 84-89) of the appended Groundsure report contains further details.

- 3.8.8 Under the Environmental Permitting (England and Wales) Regulations 2016, there are two licences for pollutant release for Part A (2) and Part B installations. The first is a historical permit (Part B) for the process of combustion and incineration at Vehicle Services Limited, Hare Street, Wolverhampton, WV14 7DX, and is located 73m SW of the Site. The second is a current permit for the use of bulk cement at SS Concrete Mix Ltd, Price Street, Bilston, WV14 7EE, located 160m SW of the Site.

Historical Land Uses and Associated Contaminants

- 3.8.9 On the Site itself, there have been 500 historical industrial land uses identified that were potentially contaminative. These records have been digitised from historical Ordnance Survey mapping from the original un-grouped map features. Within 500m of the Site, there are 500 grouped and 669 un-grouped industrial land uses recorded ranging from on-Site to 500m from the boundary of the Site.
- 3.8.10 Historical maps of the Site obtained from the National Library of Scotland's Map Finder Service (<https://maps.nls.uk/geo/find/marker/#zoom=5&lat=56.0000&lon=-4.0000&f=0&z=1&marker=56.0-4.0&from=1450&to=1972>) have been reviewed as part of this Site Condition Report. The plans date back to 1885, refer to Table 8.

Table 8 Sequence of Historical Activities on Site

Date and Map Scale	Land Use
Staffordshire LXII.SE (Ordnance Survey, six-inch to the mile). Surveyed in 1885, published in 1886.	The land upon which the Site is based appears to be located in an area of undeveloped land, amidst old shafts and coal pits, just south of a tramway.
Staffordshire LXII.16 (Ordnance Survey, 25 inch to the mile). Surveyed in 1884, published in 1887.	Same as above.
Staffordshire LXII.16 (Ordnance Survey, 25 inch to the mile). Revised in 1901, published in 1903.	Same as above.
Staffordshire LXII.SE (Ordnance Survey, six-inch to the mile). Revised in 1901, published in 1903.	Same as above.
Staffordshire LXII.16 (Ordnance Survey, 25 inch to the mile). Revised in 1913, published in 1919.	Same as above.
Staffordshire LXII (Ordnance Survey, six-inch to the mile). Revised in 1919, published in 1920.	Same as above.
Staffordshire LXII.SE (Ordnance Survey, six-inch to the mile). Revised in 1919, published in 1920.	Same as above.
Staffordshire LXII.SE (Ordnance Survey, six-inch to the mile). Revised in 1919, published in ca. 1933.	Same as above.
Sheet 167 - Dudley (1 inch to the mile, Solid with Drift). Ordnance Survey revised in 1906, Geological Survey resurveyed in 1911 to 1932, published in 1939.	N/A
Staffordshire LXII.SE (Ordnance Survey, six-inch to the mile). Revised in 1938, published in ca. 1945.	The land directly south of the southwestern Site has been built on with what would be the future Mueller Industries building. The northeastern Site formed part of sludge beds, associated with sewage works to the northeast.
Staffordshire LXII.16 (Ordnance Survey, 25 inch to the mile). Revised in 1938, published in 1947.	The area has been further industrialised, with the building directly south of the southwestern Site marked as Wednesbury Tube Works.
Staffordshire LXII.SE (Ordnance Survey, six-inch to the mile). Revised in 1938, published in ca. 1947.	Same as above.
Sheet 167 - Dudley (1 inch to the mile, Solid with Drift). Ordnance Survey revised in 1906, Geological Survey resurveyed in 1911 to 1932, published in 1939, reprinted in 1949.	N/A
SO99NE - A (Ordnance Survey, 1:10,000).	Same as above.



Date and Map Scale	Land Use
Surveyed/revise d in pre-1930 to 1955, published in 1956.	
SO99NE – A (Ordnance Survey, 1:10,000). Surveyed/revise d in 1953 to 1968, published in 1968.	The land upon which the Site directly sits has been industrialised, with the buildings on this land and directly south marked as 'Works'.

Evidence of Historic Contamination

- 3.8.11 A Site Walkover was undertaken on the 30 May 2023 by an Environmental Consultant representing Crestwood Environmental Ltd with photographic observations taken to support the visual inspection made.
- 3.8.12 Photos of the Site surfacing and drainage are provided in Appendix 3.
- 3.8.13 The Site is in operation at the time of the visit.
- 3.8.14 The Site is entirely concrete surfaced. Concrete was in good condition and drains to foul sewer.
- 3.8.15 No refuelling or fuel/oil storage activities are undertaken on Site.
- 3.8.16 There were no visible signs of likely ground contamination, oil or diesel contamination or ground staining by hydrocarbons.
- 3.8.17 Surfacing was in a good state of repair. There was no standing water or evidence of any emission from the Site. There were also no observations of odour of noise from the Site.

4 PERMITTED ACTIVITIES

4.1 Overview

- 4.1.1 Permitted activities undertaken at the Site involve the portioning of whole chicken carcasses into chicken pieces for market. A permit is required for food preparation in excess of 75 tonnes per day.
- 4.1.2 All portioning and storage activities are undertaken within an enclosed building.

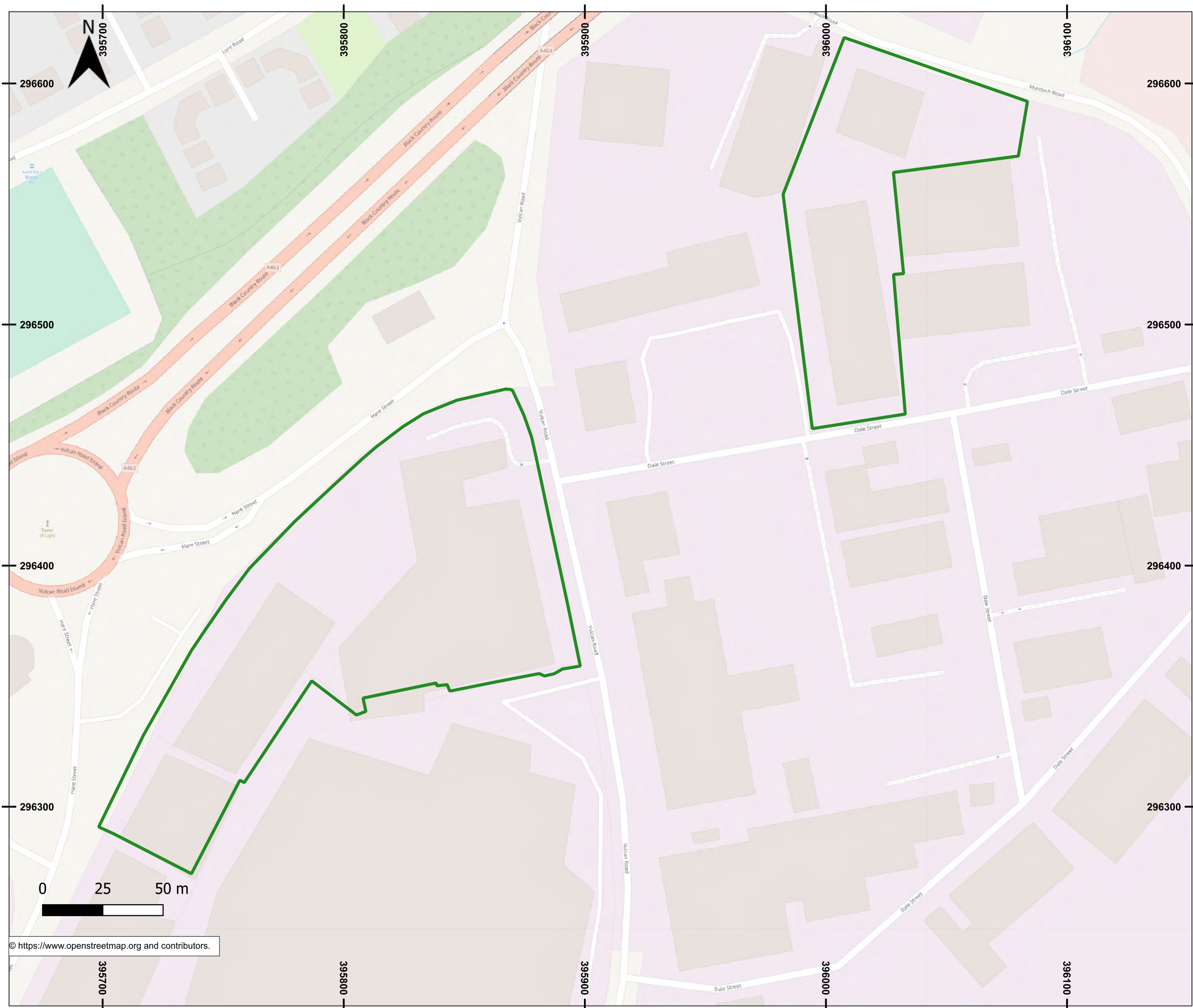
4.2 Substances

- 4.2.1 No substances that would be classified as 'dangerous' under the Control of Major Accident Hazards (COMAH) Regulations will be used at the Site.



DRAWINGS


DRAWING NO CE-VR – 2370 - DW01 - PERMIT BOUNDARY PLAN
DRAWING NO CE-VR – 2370 - DW02 – SENSITIVE RECEPTOR PLAN



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Legend:
 Permit boundary

Consultant:
Crestwood Environmental Ltd
 Science, Technology & Prototyping Centre
 University of Wolverhampton Science Park
 Glaisher Drive, Wolverhampton
 WV10 9RU
 Tel: 01902 229563
 info@crestwoodenvironmental.co.uk
 www.crestwoodenvironmental.co.uk

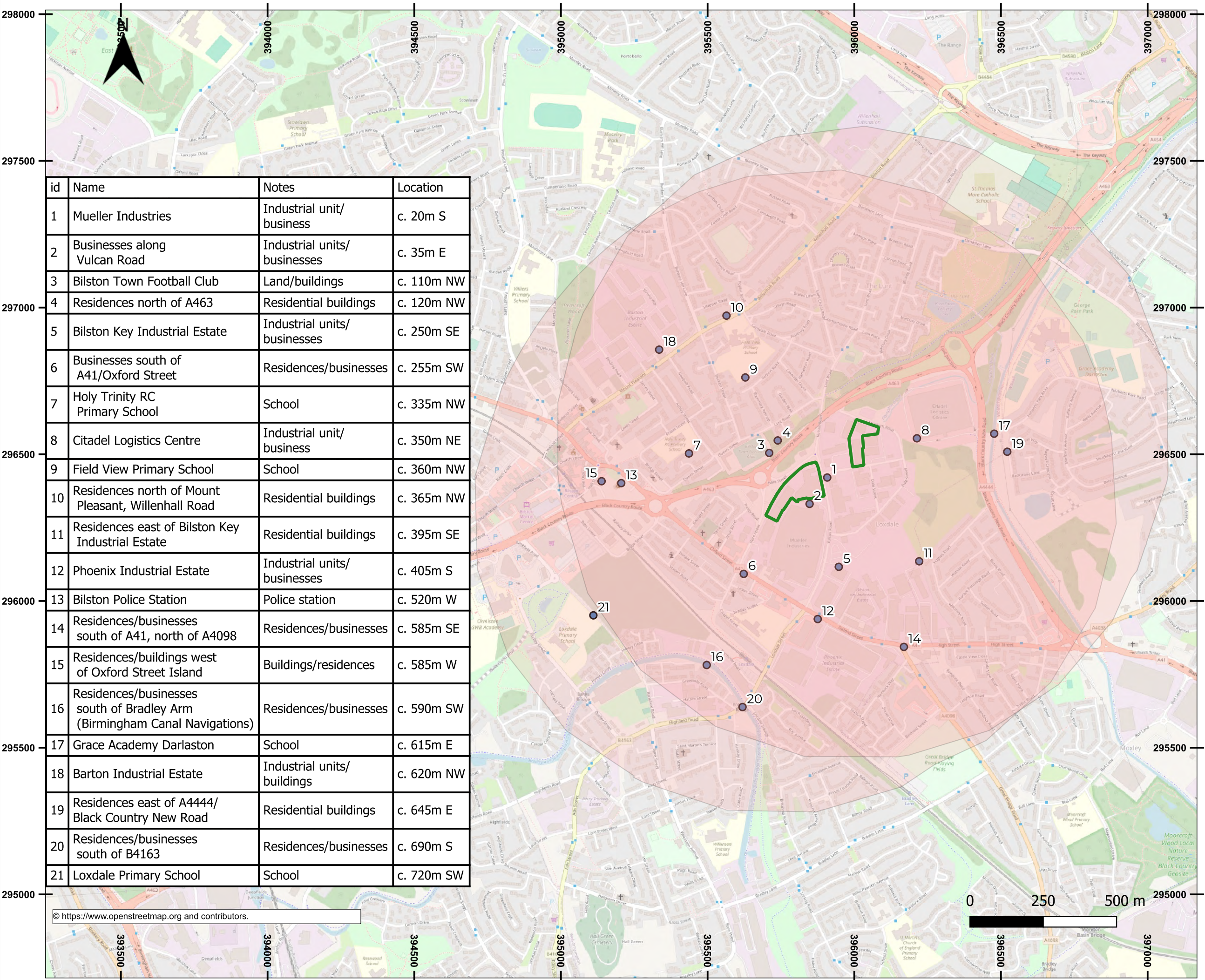


Client:
Salisbury Poultry (Midlands) Ltd

Site:
 Vulcan Road, Bilston, WV14 7DX

Drawing Title:
Permit Boundary Plan

Date: 25 / 4 / 2024	Scale: 1:1,500	Paper Size: A3 (420x297mm)	
Drawn By: RM	Checked By: KB	Status: FINAL	Final Revision: Rev C
Drawing Ref: CE-VR-2370-DW01		Drawing No: DRAWING 01c	



id	Name	Notes	Location
1	Mueller Industries	Industrial unit/ business	c. 20m S
2	Businesses along Vulcan Road	Industrial units/ businesses	c. 35m E
3	Bilston Town Football Club	Land/buildings	c. 110m NW
4	Residences north of A463	Residential buildings	c. 120m NW
5	Bilston Key Industrial Estate	Industrial units/ businesses	c. 250m SE
6	Businesses south of A41/Oxford Street	Residences/businesses	c. 255m SW
7	Holy Trinity RC Primary School	School	c. 335m NW
8	Citadel Logistics Centre	Industrial unit/ business	c. 350m NE
9	Field View Primary School	School	c. 360m NW
10	Residences north of Mount Pleasant, Willenhall Road	Residential buildings	c. 365m NW
11	Residences east of Bilston Key Industrial Estate	Residential buildings	c. 395m SE
12	Phoenix Industrial Estate	Industrial units/ businesses	c. 405m S
13	Bilston Police Station	Police station	c. 520m W
14	Residences/businesses south of A41, north of A4098	Residences/businesses	c. 585m SE
15	Residences/buildings west of Oxford Street Island	Buildings/residences	c. 585m W
16	Residences/businesses south of Bradley Arm (Birmingham Canal Navigations)	Residences/businesses	c. 590m SW
17	Grace Academy Darlaston	School	c. 615m E
18	Barton Industrial Estate	Industrial units/ buildings	c. 620m NW
19	Residences east of A4444/ Black Country New Road	Residential buildings	c. 645m E
20	Residences/businesses south of B4163	Residences/businesses	c. 690m S
21	Loxdale Primary School	School	c. 720m SW

Legend:

- Permit boundary
- 1 km buffer
- Sensitive receptors

Consultant:
Crestwood Environmental Ltd
 Science, Technology & Prototyping Centre
 University of Wolverhampton Science Park
 Glaisher Drive, Wolverhampton
 WV10 9RU
 Tel: 01902 229563
 info@crestwoodenvironmental.co.uk
 www.crestwoodenvironmental.co.uk

Client:
Salsbury Poultry Ltd.

Site:
 Vulcan Road, Bilston

Drawing Title:
Sensitive Receptors Plan

Date: 26 / 4 / 2024	Scale: 1:12,000	Paper Size: A3 (420x297mm)
Drawn By: RM	Checked By: KB	Status: FINAL
Drawing Ref: CE-VR-2370-DW02		Final Revision: Rev C
Drawing No: Figure 2c		

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APPENDIX 1 GROUNDSURE ENVIRO INSIGHTS REPORT – VULCAN ROAD

395817.0528155768,296390.43012822705,

Order Details

Date: 09/08/2023
Your ref: VR-2370_CE-PO-1851
Our Ref: GS-S9V-VYW-68S-DJ9

Site Details

Location: 395819 296394
Area: 1.55 ha
Authority: [City of Wolverhampton Council](#) ↗



[Summary of findings](#)

[p. 2 > Aerial image](#)

[p. 9 >](#)

[OS MasterMap site plan](#)

[p.14 > \[groundsure.com/insightuserguide\]\(https://groundsure.com/insightuserguide\) ↗](#)

Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	16	32	166	286	-
34 >	1.2 >	Historical tanks >	0	0	16	33	-
36 >	1.3 >	Historical energy features >	0	5	10	9	-
37	1.4	Historical petrol stations	0	0	0	0	-
37 >	1.5 >	Historical garages >	0	10	5	6	-
38	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
39 >	2.1 >	Historical industrial land uses >	24	51	221	373	-
63 >	2.2 >	Historical tanks >	0	0	36	43	-
67 >	2.3 >	Historical energy features >	0	9	20	25	-
69	2.4	Historical petrol stations	0	0	0	0	-
69 >	2.5 >	Historical garages >	0	13	8	8	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
71	3.1	Active or recent landfill	0	0	0	0	-
71	3.2	Historical landfill (BGS records)	0	0	0	0	-
72 >	3.3 >	Historical landfill (LA/mapping records) >	0	0	2	0	-
72 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	1	4	-
73 >	3.5 >	Historical waste sites >	1	1	8	11	-
76 >	3.6 >	Licensed waste sites >	0	0	5	4	-
80 >	3.7 >	Waste exemptions >	0	0	4	15	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
82 >	4.1 >	Recent industrial land uses >	3	4	61	-	-
86 >	4.2 >	Current or recent petrol stations >	0	0	1	1	-
87	4.3	Electricity cables	0	0	0	0	-
87	4.4	Gas pipelines	0	0	0	0	-
87	4.5	Sites determined as Contaminated Land	0	0	0	0	-



87	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
88	4.7	Regulated explosive sites	0	0	0	0	-
88	4.8	Hazardous substance storage/usage	0	0	0	0	-
88 >	4.9 >	<u>Historical licensed industrial activities (IPC) ></u>	0	0	0	6	-
89 >	4.10 >	<u>Licensed industrial activities (Part A(1)) ></u>	0	0	1	34	-
95 >	4.11 >	<u>Licensed pollutant release (Part A(2)/B) ></u>	0	0	2	0	-
95	4.12	Radioactive Substance Authorisations	0	0	0	0	-
96 >	4.13 >	<u>Licensed Discharges to controlled waters ></u>	0	0	2	5	-
97	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
97 >	4.15 >	<u>Pollutant release to public sewer ></u>	0	0	1	0	-
97 >	4.16 >	<u>List 1 Dangerous Substances ></u>	0	0	0	1	-
98 >	4.17 >	<u>List 2 Dangerous Substances ></u>	0	0	0	4	-
98 >	4.18 >	<u>Pollution Incidents (EA/NRW) ></u>	0	1	6	18	-
101 >	4.19 >	<u>Pollution inventory substances ></u>	0	0	0	4	-
102 >	4.20 >	<u>Pollution inventory waste transfers ></u>	0	0	0	1	-
104	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	<u>Hydrogeology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
105 >	5.1 >	<u>Superficial aquifer ></u>	Identified (within 500m)				
107 >	5.2 >	<u>Bedrock aquifer ></u>	Identified (within 500m)				
108 >	5.3 >	<u>Groundwater vulnerability ></u>	Identified (within 50m)				
109	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
109	5.5	Groundwater vulnerability- local information	None (within 0m)				
110 >	5.6 >	<u>Groundwater abstractions ></u>	0	0	0	0	23
115 >	5.7 >	<u>Surface water abstractions ></u>	0	0	0	0	1
116	5.8	Potable abstractions	0	0	0	0	0
116	5.9	Source Protection Zones	0	0	0	0	-
116	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	<u>Hydrology ></u>	On site	0-50m	50-250m	250-500m	500-2000m
117	6.1	Water Network (OS MasterMap)	0	0	0	-	-



117	6.2	Surface water features	0	0	0	-	-
118 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
118 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
119 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
120 >	7.1 >	Risk of flooding from rivers and the sea >	Medium (within 50m)				
121	7.2	Historical Flood Events	0	0	0	-	-
121	7.3	Flood Defences	0	0	0	-	-
121	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
121	7.5	Flood Storage Areas	0	0	0	-	-
122 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
123 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
124 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
126 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
127	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
128	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
128	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
128	10.4	Special Protection Areas (SPA)	0	0	0	0	0
128	10.5	National Nature Reserves (NNR)	0	0	0	0	0
129 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
129	10.7	Designated Ancient Woodland	0	0	0	0	0
129	10.8	Biosphere Reserves	0	0	0	0	0
129	10.9	Forest Parks	0	0	0	0	0
130	10.10	Marine Conservation Zones	0	0	0	0	0
130	10.11	Green Belt	0	0	0	0	0
130	10.12	Proposed Ramsar sites	0	0	0	0	0



130	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
130	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
131	10.15	Nitrate Sensitive Areas	0	0	0	0	0
131 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	1	2
132 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
133	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
134	11.1	World Heritage Sites	0	0	0	-	-
135	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
135	11.3	National Parks	0	0	0	-	-
135	11.4	Listed Buildings	0	0	0	-	-
135 >	11.5 >	Conservation Areas >	1	0	0	-	-
136	11.6	Scheduled Ancient Monuments	0	0	0	-	-
136	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
137 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
138	12.2	Open Access Land	0	0	0	-	-
138	12.3	Tree Felling Licences	0	0	0	-	-
138	12.4	Environmental Stewardship Schemes	0	0	0	-	-
138	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
139	13.1	Priority Habitat Inventory	0	0	0	-	-
139	13.2	Habitat Networks	0	0	0	-	-
140 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
140	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
141 >	14.1 >	10k Availability >	Identified (within 500m)				
142 >	14.2 >	Artificial and made ground (10k) >	1	0	0	0	-
143 >	14.3 >	Superficial geology (10k) >	1	0	3	2	-



144	14.4	Landslip (10k)	0	0	0	0	-
145 >	14.5 >	Bedrock geology (10k) >	1	0	5	8	-
146 >	14.6 >	Bedrock faults and other linear features (10k) >	0	0	3	15	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
148 >	15.1 >	50k Availability >	Identified (within 500m)				
149 >	15.2 >	Artificial and made ground (50k) >	1	1	0	0	-
150 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
151 >	15.4 >	Superficial geology (50k) >	1	0	5	3	-
152 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
152	15.6	Landslip (50k)	0	0	0	0	-
152	15.7	Landslip permeability (50k)	None (within 50m)				
153 >	15.8 >	Bedrock geology (50k) >	1	1	3	6	-
154 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
154 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	5	19	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
156 >	16.1 >	BGS Boreholes >	0	7	103	-	-
Page	Section	Natural ground subsidence >					
163 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
164 >	17.2 >	Running sands >	Low (within 50m)				
166 >	17.3 >	Compressible deposits >	Low (within 50m)				
168 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
169 >	17.5 >	Landslides >	Very low (within 50m)				
170 >	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
172	18.1	BritPits	0	0	0	0	-
173 >	18.2 >	Surface ground workings >	14	33	114	-	-
179 >	18.3 >	Underground workings >	1	4	40	57	200
190 >	18.4 >	Underground mining extents >	1	1	4	12	-
191	18.5	Historical Mineral Planning Areas	0	0	0	0	-



191 >	18.6 >	Non-coal mining >	2	2	7	27	55
201 >	18.7 >	JPB mining areas >	Identified (within 0m)				
202 >	18.8 >	The Coal Authority non-coal mining >	3	1	8	14	-
203 >	18.9 >	Researched mining >	0	0	0	7	-
204 >	18.10 >	Mining record office plans >	0	0	1	0	-
204 >	18.11 >	BGS mine plans >	3	0	1	1	-
204 >	18.12 >	Coal mining >	Identified (within 0m)				
205	18.13	Brine areas	None (within 0m)				
205	18.14	Gypsum areas	None (within 0m)				
205	18.15	Tin mining	None (within 0m)				
205	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
206	19.1	Natural cavities	0	0	0	0	-
206	19.2	Mining cavities	0	0	0	0	0
206	19.3	Reported recent incidents	0	0	0	0	-
206	19.4	Historical incidents	0	0	0	0	-
207	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
208 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
210 >	21.1 >	BGS Estimated Background Soil Chemistry >	2	2	-	-	-
210 >	21.2 >	BGS Estimated Urban Soil Chemistry >	4	10	-	-	-
211 >	21.3 >	BGS Measured Urban Soil Chemistry >	0	1	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
212	22.1	Underground railways (London)	0	0	0	-	-
212	22.2	Underground railways (Non-London)	0	0	0	-	-
213	22.3	Railway tunnels	0	0	0	-	-
213 >	22.4 >	Historical railway and tunnel features >	3	0	7	-	-
213	22.5	Royal Mail tunnels	0	0	0	-	-



214	22.6	Historical railways	0	0	0	-	-
214	22.7	Railways	0	0	0	-	-
214	22.8	Crossrail 1	0	0	0	0	-
214	22.9	Crossrail 2	0	0	0	0	-
214	22.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 14/09/2019

Site Area: 1.55ha



Recent site history - 2016 aerial photograph



Capture Date: 06/05/2016

Site Area: 1.55ha



Recent site history - 2010 aerial photograph



Capture Date: 23/04/2010

Site Area: 1.55ha



Recent site history - 2006 aerial photograph



Capture Date: 16/07/2006

Site Area: 1.55ha



Recent site history - 1999 aerial photograph



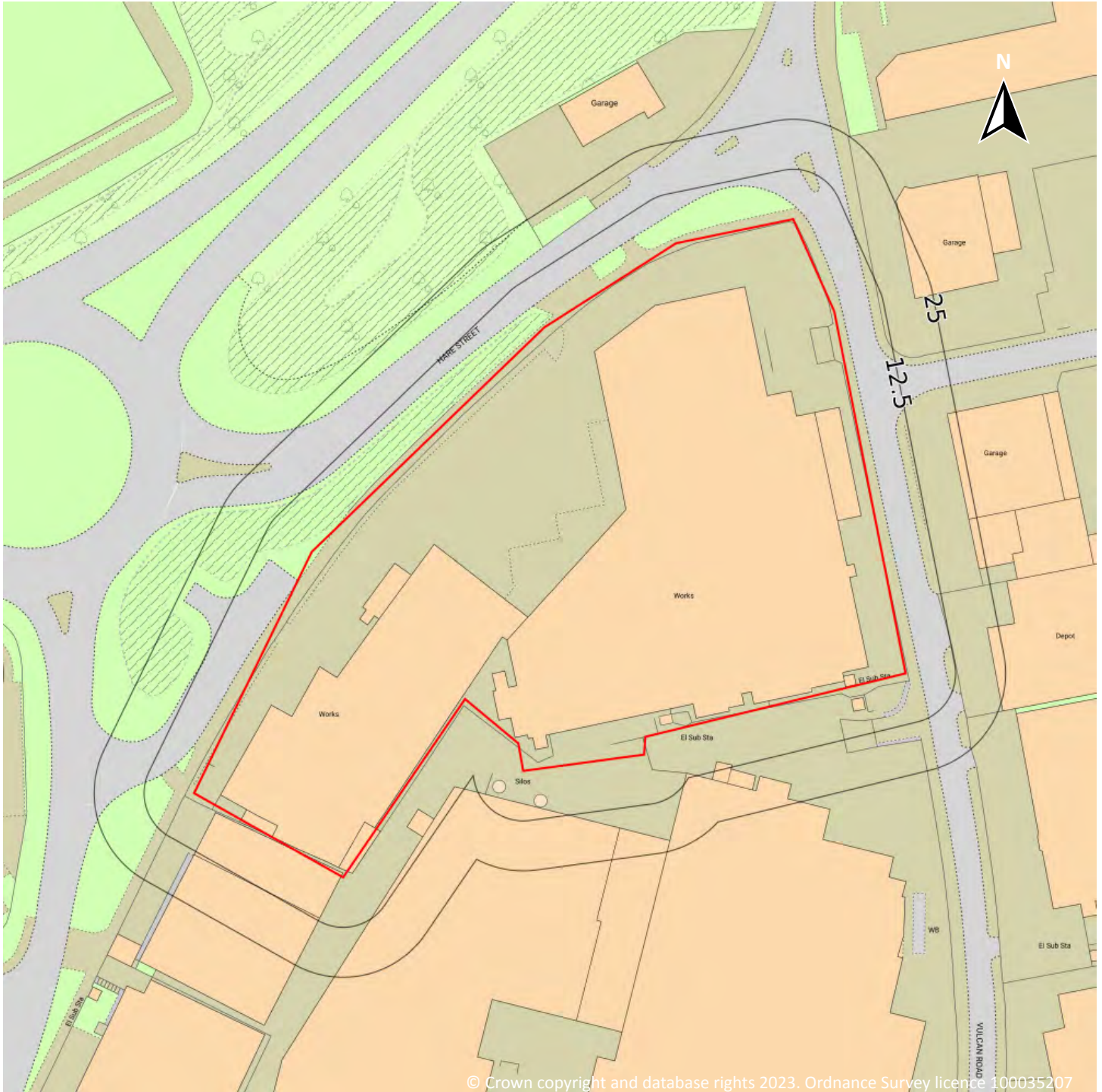
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved

Capture Date: 27/07/1999

Site Area: 1.55ha



OS MasterMap site plan

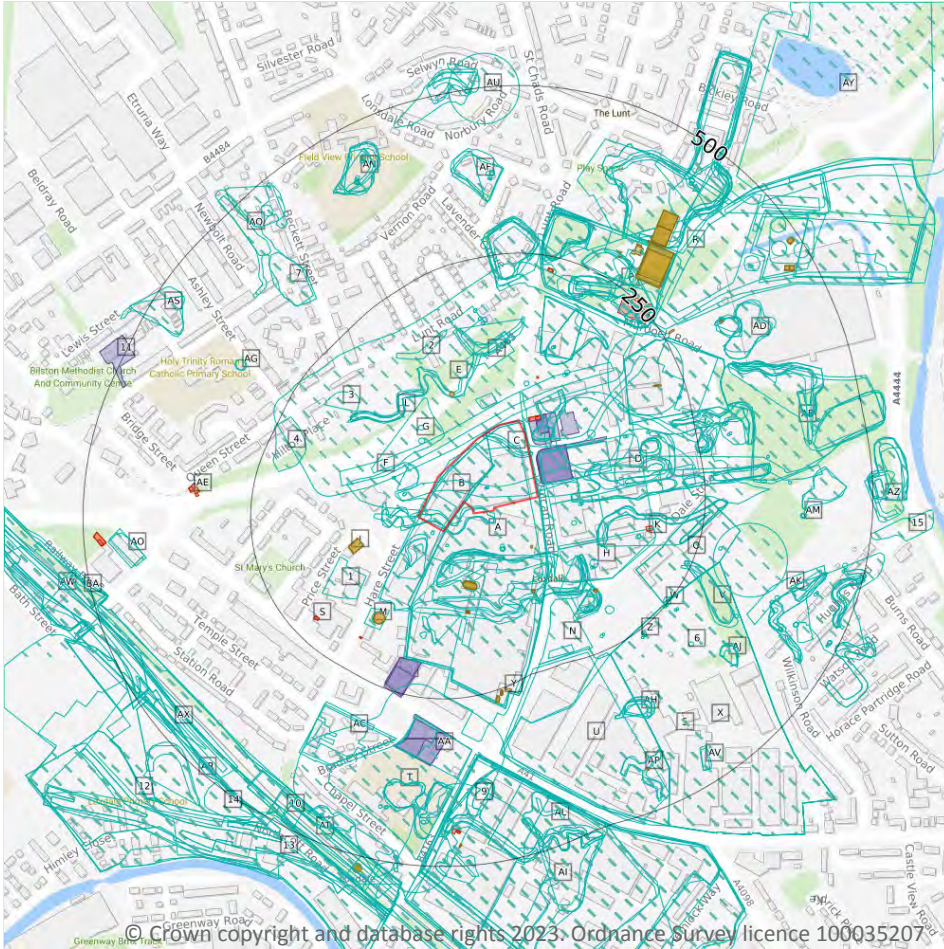


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Site Area: 1.55ha



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 **500**

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Tube Works	1955	1004185



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Commercial/Industrial	1974	995880
A	On site	Unspecified Works	1968	1052758
A	On site	Unspecified Works	1988 - 1993	1062266
A	On site	Unspecified Works	1978	1068893
A	On site	Unspecified Ground Workings	1886	1071039
A	On site	Unspecified Ground Workings	1901 - 1938	1086185
A	On site	Unspecified Ground Workings	1938	1103633
A	On site	Unspecified Ground Workings	1919	1146137
A	On site	Unspecified Works	1974	1151806
B	On site	Unspecified Works	1968	1060977
B	On site	Coal Pits	1886	1107515
B	On site	Coal Pits	1885	1147801
C	On site	Unspecified Ground Workings	1919	1103777
C	On site	Unspecified Ground Workings	1901 - 1938	1114949
D	On site	Tramway Sidings	1885 - 1886	1143531
D	1m NE	Sand Pit	1955	996281
E	2m N	Unspecified Yard	1919 - 1920	1127980
D	4m E	Unspecified Heap	1955	1002128
A	7m SW	Unspecified Shafts	1885 - 1886	1043560
D	8m NE	Refuse Heap	1919 - 1920	1069001
D	8m NE	Coal Shafts	1938	1140653
D	10m NE	Unspecified Ground Workings and Heaps	1938	1112002
D	10m NE	Unspecified Ground Workings and Heaps	1919	1152347
D	12m E	Unspecified Works	1988 - 1993	1041872
F	14m N	Cuttings	1919 - 1938	1145336
D	15m E	Unspecified Works	1968	1059983
D	16m E	Unspecified Depot	1968	1012750
A	18m SW	Unspecified Heap	1885 - 1886	1036709



ID	Location	Land use	Dates present	Group ID
A	20m SW	Unspecified Shafts	1885 - 1886	1135821
D	22m SE	Unspecified Works	1968 - 1974	1093861
A	22m SW	Unspecified Ground Workings	1901 - 1920	1138470
A	23m W	Unspecified Heap	1885	1002130
A	24m SW	Unspecified Ground Workings	1919	1078682
D	27m NE	Coal Shafts	1920	1083759
A	31m W	Coal Pits	1885 - 1886	1051400
D	32m NE	Unspecified Heap	1901 - 1938	1070461
F	32m N	Ambulance Station	1988 - 1993	1109663
A	35m SW	Unspecified Ground Workings	1920	1142299
G	37m NW	Unspecified Heap	1955	1002129
A	37m S	Unspecified Ground Workings	1919	1104991
A	38m S	Unspecified Ground Workings	1901	1137904
A	39m S	Unspecified Ground Workings	1919	1122732
A	40m S	Unspecified Ground Workings	1938	1105536
A	40m S	Unspecified Ground Workings	1886	1155283
D	42m NE	Coal Shafts	1919	1155658
A	43m S	Unspecified Heap	1885	1077622
D	50m E	Unspecified Ground Workings	1901 - 1938	1061566
D	51m E	Unspecified Ground Workings	1938	1059727
D	51m E	Unspecified Ground Workings	1919	1143963
G	51m NW	Coal Shafts	1901	993515
A	52m S	Old Coal Shaft	1919	1057115
D	53m NE	Coal Shaft	1901	1021248
A	56m S	Old Coal Shaft	1938	1094745
A	56m S	Old Coal Shaft	1920 - 1938	1123642
A	57m W	Unspecified Shaft	1885 - 1886	1062469
D	62m E	Unspecified Shafts	1885	1107164



ID	Location	Land use	Dates present	Group ID
D	63m SE	Coal Shaft	1901	1021249
D	65m E	Unspecified Shafts	1886	1126656
E	65m N	Refuse Heap	1919	1020231
G	66m NW	Coal Shafts	1901	993512
E	68m N	Ground Workings and Refuse Heap	1919	1007367
A	72m S	Unspecified Heap	1901 - 1919	1072082
D	79m E	Unspecified Ground Workings	1955	1140449
D	79m E	Unspecified Pit	1955	1030693
H	80m SE	Unspecified Works	1978	1103042
A	82m S	Unspecified Tanks	1968 - 1974	1128665
I	86m N	Unspecified Depot	1968 - 1978	1115910
D	91m E	Coal Shafts	1919	1054552
D	94m NE	Unspecified Shafts	1885	1113127
D	94m NE	Unspecified Shafts	1885	1055329
D	97m NE	Unspecified Shafts	1886	1138018
D	97m NE	Unspecified Pit	1901 - 1938	1123386
D	98m NE	Unspecified Shafts	1886	1145091
D	98m NE	Unspecified Pit	1938	1095174
D	98m NE	Unspecified Pit	1919	1127931
D	99m NE	Unspecified Shaft	1901	1009414
K	100m SE	Refuse Heap	1920 - 1938	1060049
A	101m S	Unspecified Ground Workings	1901 - 1919	1038957
L	101m NW	Unspecified Ground Workings	1920 - 1938	1063325
L	101m NW	Unspecified Ground Workings	1919	1070694
L	101m NW	Unspecified Ground Workings	1938	1052141
K	102m SE	Refuse Heap	1919	1154535
K	102m E	Refuse Heap	1938	1069596
K	102m E	Refuse Heap	1919	1155009



ID	Location	Land use	Dates present	Group ID
D	103m NE	Unspecified Works	1974	1127779
H	104m SE	Unspecified Heap	1885	1002127
I	105m N	Unspecified Ground Workings	1886	1117289
D	107m NE	Unspecified Works	1988 - 1993	1079743
D	107m NE	Unspecified Works	1978	1139598
I	107m N	Unspecified Ground Workings	1901 - 1919	1102886
H	107m SE	Unspecified Ground Workings	1886	1147411
D	107m NE	Unspecified Shafts	1885	1094088
I	108m N	Unspecified Heap	1885	1002131
D	109m NE	Unspecified Shafts	1886	1061666
H	110m SE	Unspecified Ground Workings	1938	1081901
H	111m SE	Unspecified Ground Workings	1938	1056286
D	118m E	Unspecified Shafts	1886	1005711
1	118m SW	Unspecified Works	1968	1021045
D	118m E	Unspecified Heap	1885	1039989
D	119m NE	Unspecified Shafts	1885	1088249
D	121m NE	Unspecified Shafts	1886	1127987
H	123m SE	Unspecified Pit	1901	1030692
A	124m S	Unspecified Pit	1955	1030697
D	125m E	Unspecified Shafts	1885	1005708
A	131m SW	Unspecified Ground Workings	1919	998824
H	131m SE	Unspecified Old Shafts	1885	1145132
H	132m SE	Unspecified Old Shafts	1886	1077981
D	133m E	Unspecified Ground Workings	1886	1133276
D	141m NE	Sludge Bed	1968	1009085
M	143m SW	Unspecified Commercial/Industrial	1886	995879
D	143m E	Unspecified Shafts	1885	1088064
2	144m NW	Unspecified Ground Workings	1901	998846



ID	Location	Land use	Dates present	Group ID
D	145m NE	Sand Pit	1955	996282
D	146m E	Unspecified Shafts	1886	1066247
I	146m N	Council Yard	1919	1003917
M	150m SW	Old Gasometer	1885 - 1886	1044392
I	151m N	Unspecified Shafts	1885 - 1886	1136196
A	153m S	Coal Shaft	1919 - 1920	1147168
I	154m N	Old Coal Shaft	1901 - 1919	1129168
N	155m SE	Unspecified Depot	1978	1116972
D	155m E	Unspecified Works	1968 - 1974	1112749
3	156m NW	Unspecified Pit	1885 - 1886	1091989
H	156m SE	Unspecified Heap	1901 - 1919	1117673
D	156m E	Unspecified Works	1978	1063487
D	156m E	Unspecified Works	1988 - 1993	1096720
I	158m N	Old Coal Shaft	1920	992332
H	158m SE	Unspecified Heap	1938	1052478
K	158m E	Unspecified Old Shaft	1919 - 1938	1089726
K	160m E	Unspecified Old Shaft	1919	1145365
D	163m E	Unspecified Heap	1955	1080428
H	164m SE	Unspecified Ground Workings	1886	1105862
H	165m SE	Unspecified Heap	1885	1129405
D	165m E	Coal Shafts	1938	993516
D	165m E	Unspecified Heap	1901 - 1920	1137207
I	171m N	Unspecified Shafts	1885 - 1886	1062304
D	178m E	Unspecified Old Shafts	1885	993081
H	179m SE	Unspecified Old Shafts	1886	1117293
H	181m SE	Unspecified Old Shafts	1885	1035267
O	182m SE	Unspecified Works	1988 - 1993	1057143
O	182m SE	Unspecified Works	1978	1143994



ID	Location	Land use	Dates present	Group ID
D	185m E	Unspecified Works	1978	1021044
P	192m NE	Colliery	1885 - 1886	1150627
D	193m E	Refuse Heap	1968 - 1974	1068292
H	193m SE	Unspecified Pit	1901	1030696
4	194m W	Refuse Heap	1901	1020230
P	196m NE	Unspecified Pit	1955	1030690
P	198m NE	Disused Colliery	1901	1015519
P	198m NE	Sewage Works	1920 - 1938	1077244
P	200m NE	Sewage Works	1938	1122343
R	200m NE	Sewage Works	1919	1040747
R	200m NE	Sewage Works	1919	1114785
P	201m N	Unspecified Ground Workings	1886	998844
P	202m NE	Sand Pit	1938	1120205
P	202m NE	Sand Pit	1919	1146062
P	202m N	Unspecified Heap	1885	1085749
P	204m NE	Refuse Heap	1938	1020256
P	204m NE	Sand Pit	1919 - 1920	1153828
P	206m NE	Unspecified Shafts	1885	1124304
P	207m NE	Railway Sidings	1919 - 1938	1087837
P	208m NE	Unspecified Shafts	1886	1119512
P	210m N	Unspecified Heap	1919	1086974
P	212m NE	Railway Sidings	1919	1116394
P	212m N	Unspecified Heap	1901	1059981
P	212m N	Ground Workings and Refuse Heap	1919	1007372
P	213m N	Unspecified Heap	1920	1108115
D	216m E	Unspecified Ground Workings	1938	1121691
D	217m E	Unspecified Ground Workings	1919	1152586
D	217m E	Unspecified Pit	1955	1055933



ID	Location	Land use	Dates present	Group ID
D	217m E	Unspecified Ground Workings	1919 - 1938	1143785
D	218m E	Unspecified Old Shafts	1885	1099702
P	219m NE	Unspecified Pit	1901	1030688
D	220m E	Unspecified Old Shafts	1886	1118818
P	220m NE	Unspecified Ground Workings	1919	998841
D	221m E	Unspecified Pit	1901 - 1938	1091573
P	221m NE	Cuttings	1920 - 1938	1121342
D	223m NE	Sludge Beds	1955	1022432
P	224m NE	Cuttings	1919	1077407
H	225m SE	Unspecified Shaft	1886	1073980
N	226m SE	Unspecified Depot	1968 - 1974	1072501
H	226m SE	Unspecified Shaft	1885	1052361
P	229m NE	Unspecified Shafts	1885	1005706
T	231m S	Bedstead Works	1938	1087575
P	232m NE	Unspecified Shafts	1886	1005707
D	233m E	Unspecified Old Shafts	1885	1147935
P	234m NE	Unspecified Shafts	1885	1128431
U	236m SE	Industrial Park	1988 - 1993	1094550
D	236m E	Unspecified Old Shafts	1886	1135549
P	236m NE	Unspecified Shafts	1886	1145788
V	237m SE	Unspecified Heap	1886	1071691
P	240m N	Unspecified Heap	1885	1054712
V	240m SE	Unspecified Heap	1938	1095096
V	240m SE	Unspecified Heap	1919	1155082
P	240m NE	Unspecified Pit	1901	1030687
V	242m SE	Unspecified Heap	1901 - 1938	1065278
W	242m SE	Unspecified Pit	1901	1030699
U	243m S	Engineering Works	1955	1008413



ID	Location	Land use	Dates present	Group ID
P	244m N	Unspecified Heap	1988 - 1993	1060777
P	244m N	Unspecified Heap	1968 - 1978	1132475
D	245m E	Unspecified Pit	1955	1030694
5	246m SE	Unspecified Works	1974	1051045
X	246m SE	Unspecified Works	1988	1050839
X	246m SE	Unspecified Commercial/Industrial	1993	1050953
X	246m SE	Unspecified Works	1968	1057641
X	246m SE	Unspecified Works	1978	1075769
P	246m N	Unspecified Heap	1938	1107073
P	246m N	Unspecified Heap	1901	1146142
W	247m SE	Unspecified Old Shafts	1885	1132282
P	247m N	Unspecified Heap	1919 - 1920	1047363
W	248m SE	Unspecified Old Shafts	1886	1043841
R	248m NE	Sewage Works	1978	1049120
W	248m SE	Unspecified Old Shafts	1885	1122182
P	250m N	Unspecified Heap	1938 - 1955	1056825
W	250m SE	Unspecified Old Shafts	1886	1101400
D	251m E	Unspecified Heap	1901	1125407
P	252m NE	Unspecified Heap	1885	1038393
P	253m NE	Unspecified Ground Workings	1886	998843
D	254m E	Unspecified Ground Workings	1901	1087975
P	254m NE	Unspecified Shafts	1886	1005705
Z	254m SE	Old Coal Shafts	1901	1025992
P	255m N	Unspecified Heap	1919	1085025
U	258m SE	Unspecified Commercial/Industrial	1978	1068250
D	258m E	Unspecified Pit	1955	1100305
Z	260m SE	Coal Pit	1886	1005094
Z	260m SE	Coal Pit	1885	1005095



ID	Location	Land use	Dates present	Group ID
D	262m E	Unspecified Pit	1920 - 1938	1057617
D	263m E	Unspecified Pit	1919	1096909
P	263m NE	Unspecified Heap	1955	1061646
W	264m SE	Unspecified Old Shafts	1885	1106583
W	265m SE	Unspecified Old Shafts	1886	1111175
O	275m E	Unspecified Old Shaft	1885 - 1886	1132651
T	278m S	Bedstead Works	1938	1104304
AA	278m S	Bedstead Works	1919	1103898
P	278m NE	Unspecified Tanks	1968 - 1978	1043326
O	280m E	Old Coal Shafts	1901	1025994
AA	281m S	Bedstead Works	1886	1045626
R	282m NE	Filter Beds	1978	1009821
P	285m NE	Unspecified Tanks	1938	1079208
P	285m NE	Unspecified Tanks	1920	1139989
D	286m E	Unspecified Heap	1885	1154895
P	288m NE	Unspecified Tanks	1919	1121389
P	288m NE	Unspecified Tanks	1938	1036856
D	292m E	Unspecified Shafts	1885	1057514
D	295m E	Unspecified Shafts	1885	1073445
D	296m E	Unspecified Shafts	1886	1089824
D	299m E	Unspecified Shafts	1886	1061628
AB	301m E	Sludge Bed	1968	1038740
AB	301m E	Sludge Bed	1974 - 1978	1147864
P	304m NE	Unspecified Tanks	1968 - 1974	1039223
AC	305m SW	Bedstead Works	1901	1148624
AC	309m SW	Bedstead Works	1919 - 1920	1116830
AC	312m SW	Bedstead Works	1885	1035696
6	314m SE	Old Coal Shafts	1901	1025993



ID	Location	Land use	Dates present	Group ID
P	314m NE	Unspecified Heap	1885	1082791
7	317m NW	Unspecified Ground Workings	1886	998847
P	318m NE	Unspecified Ground Workings	1886	1059485
AB	319m NE	Unspecified Pit	1885	1061248
AB	320m NE	Unspecified Ground Workings	1886	1149578
P	322m NE	Unspecified Heap	1938	1046183
P	322m NE	Unspecified Heap	1920	1059502
AD	323m NE	Unspecified Pit	1885	1153592
AD	323m NE	Unspecified Pit	1886	1051547
8	324m NW	Unspecified Heap	1885	1002041
AD	324m NE	Unspecified Pit	1901 - 1919	1076382
AD	324m NE	Unspecified Ground Workings	1978	1037776
AD	325m NE	Unspecified Heap	1974	1002114
AB	326m NE	Unspecified Ground Workings	1938	1050418
AB	326m NE	Unspecified Ground Workings	1919	1140558
P	326m NE	Unspecified Ground Workings	1938	1070275
P	326m NE	Unspecified Ground Workings	1919	1089952
P	327m NE	Unspecified Ground Workings	1901	1051457
AB	328m NE	Unspecified Ground Workings	1955	1111295
AF	329m N	Unspecified Heap	1885	1106874
AD	329m NE	Unspecified Ground Workings	1968	1085394
AG	330m NW	Unspecified Ground Workings	1886	998848
AB	330m NE	Unspecified Ground Workings	1919	1126886
AF	331m N	Unspecified Ground Workings	1886	998845
AG	331m NW	Unspecified Pit	1885	1030691
AH	332m SE	Unspecified Heap	1919	1035534
AH	332m SE	Unspecified Heap	1938	1149988
AD	332m NE	Unspecified Shaft	1885	1044707



ID	Location	Land use	Dates present	Group ID
D	334m E	Unspecified Shafts	1885 - 1886	1080345
AH	334m SE	Unspecified Ground Workings	1920	1038468
AD	335m NE	Unspecified Old Shaft	1919	1098649
AD	335m NE	Unspecified Shaft	1886	1073561
AH	335m SE	Unspecified Ground Workings	1886	1123030
AD	335m NE	Unspecified Old Shaft	1919 - 1938	1036560
AH	335m SE	Unspecified Heap	1919	1034600
AH	335m SE	Unspecified Heaps	1885	1021719
AI	336m S	Disused Colliery	1920	1087050
AI	337m S	Disused Colliery	1919	1089379
AI	337m S	Disused Colliery	1901	1097515
AI	337m S	Disused Colliery	1919	1121957
AI	337m S	Disused Colliery	1938	1127927
AF	337m N	Unspecified Heap	1919	1142096
AI	339m S	Disused Colliery	1938	1110210
P	339m NE	Unspecified Tanks	1968 - 1978	1054884
AF	339m N	Unspecified Heap	1920	1052630
AI	341m S	Colliery	1886	1120764
AI	343m S	Colliery	1885	1150326
V	343m SE	Unspecified Old Shaft	1886	1003600
D	347m E	Unspecified Shafts	1885	1005709
AJ	354m SE	Unspecified Heap	1938	1059571
AJ	354m SE	Unspecified Heap	1919	1102705
AJ	354m SE	Unspecified Heap	1919	1070544
AJ	354m SE	Unspecified Ground Workings	1920 - 1938	1096343
AK	358m SE	Unspecified Heap	1974	1002115
AF	361m N	Unspecified Shaft	1886	1127133
AF	362m N	Unspecified Shaft	1885	1061124



ID	Location	Land use	Dates present	Group ID
AI	363m S	Unspecified Works	1988 - 1993	1068389
T	363m S	Unspecified Commercial/Industrial	1978	1082809
AI	363m S	Unspecified Works	1974 - 1978	1086425
AF	367m N	Old Coal Shafts	1901	1025979
AF	367m N	Unspecified Shaft	1919	1063257
AF	368m N	Unspecified Shaft	1919 - 1920	1102049
T	374m S	Unspecified Ground Workings	1938	1037782
T	374m S	Unspecified Ground Workings	1919	1129106
T	374m S	Unspecified Ground Workings	1901 - 1938	1110896
D	374m E	Unspecified Shafts	1885	1005710
T	375m S	Unspecified Ground Workings	1886	1120263
T	375m S	Unspecified Heaps	1885	1021718
AL	375m S	Ground Workings and Refuse Heap	1919	1127418
AL	375m S	Ground Workings and Refuse Heap	1938	1143904
T	377m S	Unspecified Heaps	1920 - 1938	1052479
T	377m S	Unspecified Works	1968	1063890
9	377m S	Unspecified Heap	1901 - 1938	1095796
T	379m S	Unspecified Heap	1919	1002090
AK	380m SE	Unspecified Ground Workings	1920 - 1938	1125271
P	381m NE	Unspecified Heap	1938	1098518
P	383m NE	Unspecified Ground Workings	1919	1098681
AK	383m SE	Unspecified Ground Workings	1919	1096178
AK	383m SE	Unspecified Ground Workings	1938	1129310
AK	383m SE	Unspecified Pit	1919	1030702
AK	384m SE	Unspecified Tanks	1901	1010305
AK	388m SE	Unspecified Tanks	1901	1010306
AM	393m E	Trial Shaft	1919 - 1938	1110944
AM	394m E	Trial Shaft	1919	1072949



ID	Location	Land use	Dates present	Group ID
AM	394m E	Trial Shaft	1938	1083602
AM	395m E	Unspecified Ground Workings	1968	998831
AM	395m E	Unspecified Pit	1974	1030686
AN	399m N	Unspecified Ground Workings	1920 - 1938	1129652
AK	401m E	Unspecified Pit	1938	1080046
AN	401m N	Unspecified Heap	1919	1045329
AN	401m N	Unspecified Heap	1938 - 1955	1087593
AK	403m E	Unspecified Pit	1920	1126980
AN	404m N	Unspecified Heap	1919	1136320
P	405m NE	Unspecified Heap	1968 - 1978	1036145
AK	406m E	Unspecified Pit	1919	1123313
R	407m NE	Unspecified Heap	1901	1002116
T	409m S	Unspecified Ground Workings	1901 - 1938	1109810
AK	410m SE	Unspecified Old Shaft	1885 - 1886	1135073
AB	410m E	Unspecified Pit	1920 - 1938	1126539
AB	410m E	Unspecified Pit	1919	1062217
AO	410m W	Telephone Exchange	1988 - 1993	1067689
AP	411m SE	Unspecified Ground Workings	1919	1048865
AP	411m SE	Unspecified Ground Workings	1919 - 1920	1130452
AN	411m NW	Unspecified Ground Workings	1886	1090629
R	412m NE	Unspecified Shaft	1885	1109367
AB	412m E	Unspecified Ground Workings	1919	1098478
AO	413m W	Telephone Exchange	1968 - 1974	1069889
R	413m NE	Sewage Works	1968 - 1974	1045813
AQ	414m NW	Unspecified Pit	1885	1030689
AN	415m NW	Unspecified Heap	1885	1047319
AK	415m SE	Unspecified Ground Workings	1919	1050149
R	415m NE	Unspecified Shaft	1886	1147309



ID	Location	Land use	Dates present	Group ID
AN	416m NW	Unspecified Old Shaft	1885 - 1886	1087902
AN	416m NW	Old Coal Shafts	1919	1097767
AN	416m NW	Unspecified Tank	1920 - 1938	1131127
T	417m S	Chalk Pits	1886	994224
T	418m S	Coal Pits	1885 - 1886	1110350
T	418m S	Coal Pits	1885	1000042
AN	419m NW	Old Coal Shafts	1901	1082398
AB	419m E	Unspecified Pit	1901 - 1919	1036918
AL	421m S	Unspecified Ground Workings	1901	998826
R	421m NE	Sewage Works	1955	1083839
AN	422m NW	Old Coal Shafts	1919	1036876
T	422m S	Unspecified Pit	1901 - 1938	1089542
AK	423m SE	Unspecified Ground Workings	1886	1119216
P	424m NE	Unspecified Heap	1955	1105785
T	424m S	Refuse Heap	1920 - 1938	1150081
AI	426m S	Unspecified Commercial/Industrial	1968	1120637
AK	426m SE	Coal Shafts	1919	1087211
AK	426m SE	Coal Shafts	1919 - 1938	1051529
AR	426m SW	Railway Sidings	1968	1050758
AR	426m SW	Railway Sidings	1974	1055662
AR	427m SW	Railway Sidings	1978	1045587
AK	428m E	Unspecified Heap	1885	1046945
AR	428m SW	Railway Sidings	1955	1042402
T	428m S	Refuse Heap	1919	1146161
AB	429m E	Unspecified Shafts	1885	1005726
P	430m NE	Unspecified Old Shafts	1919	1069342
P	430m NE	Unspecified Old Shafts	1938	1139564
AB	431m E	Unspecified Shafts	1886	1005725



ID	Location	Land use	Dates present	Group ID
AK	431m SE	Pumping Engine	1885 - 1886	1070981
T	432m S	Unspecified Old Shaft	1885 - 1886	1091959
P	434m NE	Unspecified Old Shafts	1920	1104776
P	435m NE	Unspecified Old Shafts	1938	1131871
AK	437m E	Unspecified Old Shafts	1885	1150249
R	437m NE	Sewage Works	1886	1089866
P	438m NE	Unspecified Old Shafts	1938	1043984
P	438m NE	Unspecified Old Shafts	1919	1144681
AS	438m NW	Unspecified Ground Workings	1886	998849
AK	439m E	Unspecified Old Shafts	1886	1110301
AQ	440m NW	Unspecified Heap	1901 - 1919	1110691
AN	440m N	Old Coal Shafts	1919	1112487
AN	440m N	Unspecified Tank	1920 - 1938	1127272
AS	440m NW	Unspecified Heap	1885	1002044
AN	442m N	Old Coal Shafts	1901	1141173
AT	443m SW	Cuttings	1988 - 1993	1115058
T	444m S	Refuse Heap	1901	1141256
AT	444m SW	Cuttings	1885 - 1978	1085585
R	445m NE	Unspecified Tanks	1968 - 1978	1039775
AN	445m N	Old Coal Shafts	1919	1063237
AI	445m S	Unspecified Ground Workings	1886	1074694
AL	446m S	Unspecified Heap	1885	1002088
AU	446m N	Coal Shaft	1920	1148877
AV	446m SE	Unspecified Heap	1920 - 1938	1130903
AP	446m SE	Unspecified Ground Workings	1919 - 1920	1106853
AT	446m SW	Unspecified Ground Workings	1886	998822
AT	446m SW	Cuttings	1974	1112681
P	448m NE	Unspecified Heap	1938	1036146



ID	Location	Land use	Dates present	Group ID
AT	448m SW	Unspecified Heaps	1885	1021715
AV	449m SE	Unspecified Heap	1919	1122321
AW	449m SW	Railway Sidings	1885	1148701
R	450m NE	Unspecified Ground Workings	1919	998840
P	452m NE	Unspecified Heap	1919	1102807
AQ	454m NW	Unspecified Pit	1885	1030665
R	454m NE	Unspecified Tank	1955	1017714
10	454m SW	Cuttings	1968	1116452
AR	457m SW	Railway Sidings	1919	1063306
AT	457m SW	Chalk Pits	1886	994225
AT	457m SW	Chalk Pits	1886	994223
AW	458m SW	Railway Sidings	1901	1155424
AT	459m SW	Coal Pits	1885	1000041
AR	459m SW	Railway Sidings	1919	1048347
AR	459m SW	Railway Sidings	1938	1131907
AK	460m E	Coal Pit	1901 - 1919	1142743
AR	460m SW	Railway Sidings	1920 - 1938	1040899
AK	461m E	Unspecified Ground Workings	1886	1123694
AT	461m S	Unspecified Heaps	1885	1021716
AK	461m E	Unspecified Ground Workings	1920 - 1938	1144520
AW	461m SW	Unspecified Works	1993	1074150
AW	461m SW	Unspecified Works	1988	1153466
AK	462m E	Unspecified Ground Workings	1938	1045068
AK	462m E	Unspecified Ground Workings	1919	1057103
AW	462m SW	Railway Sidings	1886	1040878
R	462m NE	Sewage Works	1885	1103369
AT	465m SW	Culm Pit	1886	1033367
AX	466m SW	Unspecified Heap	1901	1002043



ID	Location	Land use	Dates present	Group ID
AK	466m E	Old Coal Shafts	1901	1026008
AU	466m N	Unspecified Heap	1885	1082415
AY	467m NE	Disused Colliery	1919 - 1920	1095904
AK	467m E	Unspecified Old Shafts	1885	1084491
AT	468m SW	Cuttings	1901	1136612
AK	470m E	Unspecified Old Shafts	1886	1074609
AI	471m S	Unspecified Ground Workings	1919	1059769
AI	471m S	Unspecified Ground Workings	1920 - 1938	1082241
AI	472m S	Unspecified Heaps	1901	1091282
R	474m NE	Unspecified Tank	1955	1017713
AR	475m SW	Unspecified Depot	1978	1012749
AW	475m SW	Unspecified Works	1978	1115953
T	476m S	Unspecified Ground Workings	1886	998825
T	476m S	Unspecified Heap	1885	1002089
AX	477m SW	Railway Building	1955	1014026
AI	478m S	Unspecified Heaps	1885	1118082
12	480m SW	Unspecified Industrial/Commercial	1938	1025180
R	481m NE	Unspecified Tank	1955	1017715
AT	481m S	Unspecified Ground Workings	1886	998819
AX	481m SW	Railway Buildings	1968	1024335
R	483m NE	Sludge Beds	1978	1022433
AK	483m SE	Old Coal Shaft	1901	992333
AK	483m SE	Coal Shafts	1919 - 1938	1107050
AK	484m SE	Unspecified Old Shaft	1885	1003599
AK	485m SE	Unspecified Shaft	1886	1009448
AR	486m SW	Iron and Steel Works	1955	1025123
AZ	488m E	Unspecified Pit	1885 - 1886	1091639
AU	488m N	Railway Sidings	1919 - 1920	1114398



ID	Location	Land use	Dates present	Group ID
AY	488m NE	Disused Colliery	1938	1038245
AT	489m S	Unspecified Shaft	1885 - 1886	1079950
T	492m S	Unspecified Shafts	1885 - 1886	1080344
AZ	492m E	Unspecified Pit	1901	1136830
AU	492m N	Railway Sidings	1919	1127137
AZ	492m E	Unspecified Ground Workings	1919	1155578
AU	493m N	Unspecified Ground Workings	1886	1156714
AZ	494m E	Unspecified Pit	1955	1091473
AR	494m SW	Unspecified Ground Workings	1886	998823
AZ	494m E	Unspecified Ground Workings	1919	1061636
AZ	494m E	Unspecified Ground Workings	1938	1099253
AU	494m N	Unspecified Heap	1955	1099960
AZ	495m E	Unspecified Pit	1920 - 1938	1100888
AT	495m S	Cuttings	1978	1037858
13	496m SW	Industrial Estate	1988 - 1993	1073930
14	497m SW	Gravel Pit	1955	1004426
AR	497m SW	Unspecified Heap	1885	1002042
BA	498m W	Railway Sidings	1919	1040759
BA	498m W	Railway Sidings	1938	1106261
AK	498m SE	Unspecified Ground Workings	1938	1065874
AK	498m SE	Unspecified Ground Workings	1919	1089288
AK	499m SE	Unspecified Heap	1920 - 1938	1069749
15	500m E	Unspecified Pit	1920	1144212

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

49

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

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

ID	Location	Land use	Dates present	Group ID
A	68m SE	Unspecified Tank	1970	153702
E	73m N	Unspecified Tank	1982	153703
A	81m S	Tanks	1979 - 1995	160722
A	81m S	Tanks	1965 - 1970	159679
A	82m S	Tanks	-	149579
J	91m SW	Tanks	1979 - 1995	164314
J	92m SW	Tanks	-	149429
A	122m S	Unspecified Tank	1991 - 1995	162902
A	124m S	Unspecified Tank	1970 - 1979	161709
A	125m S	Unspecified Tank	-	149461
A	131m SE	Unspecified Tank	1970 - 1995	159430
A	132m SE	Unspecified Tank	-	149460
M	151m SW	Old Gasometer	1887	156057
H	161m SE	Unspecified Tank	1970 - 1995	165519
H	162m SE	Unspecified Tank	-	149526
D	204m NE	Tanks	1995	165748
Y	251m S	Tanks	-	149400
Y	252m S	Tanks	-	149528
Y	252m S	Tanks	1979	158593
Y	252m S	Tanks	1991	167199
Y	253m S	Tanks	1970	158880



ID	Location	Land use	Dates present	Group ID
Y	255m S	Tanks	1995	163718
Y	255m S	Tanks	1995	167750
Y	258m S	Tanks	1979 - 1995	160740
Y	260m S	Tanks	-	149527
P	260m NE	Unspecified Tank	1938	153923
P	275m NE	Humus Tanks	1938	166969
P	276m NE	Humus Tanks	1964 - 1965	167413
P	282m NE	Tanks	1919	157362
P	286m NE	Tanks	1938	157358
P	291m NE	Tanks	1938	157359
P	301m NE	Tanks	1965	167958
P	315m NE	Tanks	1964	160687
P	328m NE	Unspecified Tank	1938	153924
P	332m NE	Settling Tanks	1938	155950
P	334m NE	Unspecified Tank	1964	162816
P	334m NE	Unspecified Tank	1965	165088
AD	334m NE	Unspecified Tank	1903 - 1919	164006
P	357m NE	Unspecified Tank	1964	158101
P	358m NE	Unspecified Tank	1965	159989
AP	435m SE	Unspecified Tank	1988 - 1992	161773
R	455m NE	Tanks	1938	157361
R	456m NE	Unspecified Tank	1964 - 1965	163085
R	462m NE	Unspecified Tank	1964 - 1965	165739
T	467m S	Unspecified Tank	-	149428
T	467m S	Unspecified Tank	1999	162938
T	469m S	Unspecified Tank	1988 - 1991	163172
R	481m NE	Unspecified Tank	1938	153914
R	481m NE	Tanks	1964 - 1965	166101

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m	24
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Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
A	0m SW	Gas Governor	1995	92252
A	2m SW	Gas Governor	1991	87654
D	13m NE	Electricity Substation	-	85603
D	15m NE	Electricity Substation	1979	96274
D	24m NE	Electricity Substation	1970 - 1995	88964
D	69m NE	Electricity Substation	1995	94936
M	151m SW	Old Gasometer	1887	87458
K	167m E	Electricity Substation	1988 - 1995	94847
M	198m SW	Gas Governor	1995	91325
M	198m SW	Gas Governor	1991	90889
S	211m SW	Electricity Substation	1970 - 1995	92701
S	212m SW	Electricity Substation	-	85522
P	219m NE	Gas Valve Station	1995	96279
P	227m N	Electricity Substation	1995	93732
P	227m N	Electricity Substation	1982	95860
AE	328m W	Electricity Substation	1981	91930
AE	329m W	Electricity Substation	1980 - 1989	95132
AE	338m W	Electricity Substation	1995 - 1999	92680
T	443m S	Electricity Substation	1999	86937
T	446m S	Electricity Substation	-	85677
T	447m S	Electricity Substation	1988 - 1991	91882



ID	Location	Land use	Dates present	Group ID
AO	467m W	Electricity Substation	1995 - 1999	93994
AO	467m W	Electricity Substation	1981	88519
AO	471m W	Electricity Substation	1980 - 1992	89719

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0
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Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	21
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
D	9m NE	Garage	-	27910
D	9m E	Garage	1995	29196
D	9m E	Garage	1995	29757
D	9m E	Garage	-	27968
D	9m E	Garage	1965 - 1970	30621
D	10m E	Garage	1965	29916
D	11m E	Garage	1979 - 1991	31538
D	20m NE	Garage	1991	28801



ID	Location	Land use	Dates present	Group ID
D	20m NE	Garage	1995	31889
D	20m NE	Garage	1979	29165
D	53m NE	Garage	1995	30212
Q	198m S	Garage	1965	28548
Q	198m S	Garage	1991	29770
Q	198m S	Garage	1965 - 1970	30296
Q	212m SW	Garage	1995	30421
AA	276m S	Garage	1965 - 1970	31769
AA	283m S	Garage	1965	29103
AA	309m S	Garage	1966	30042
AA	310m S	Garage	1965	28380
AA	311m S	Garage	-	27932
11	477m W	Garage	1965	31532

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

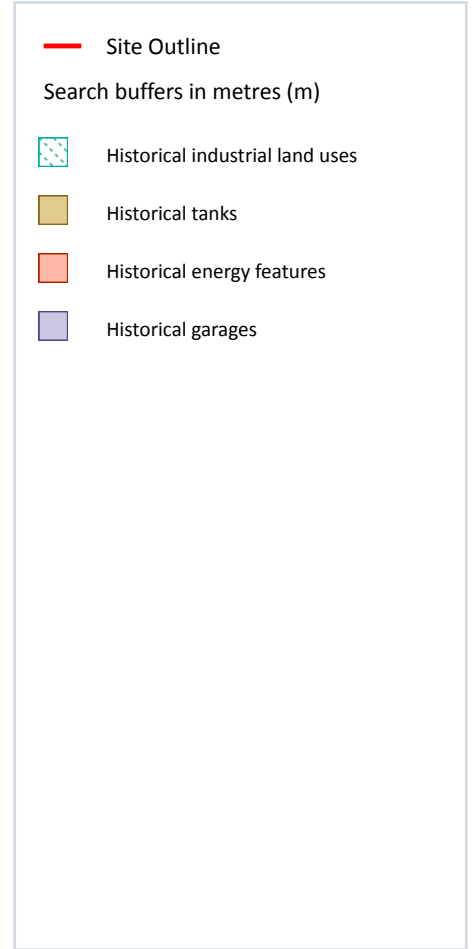
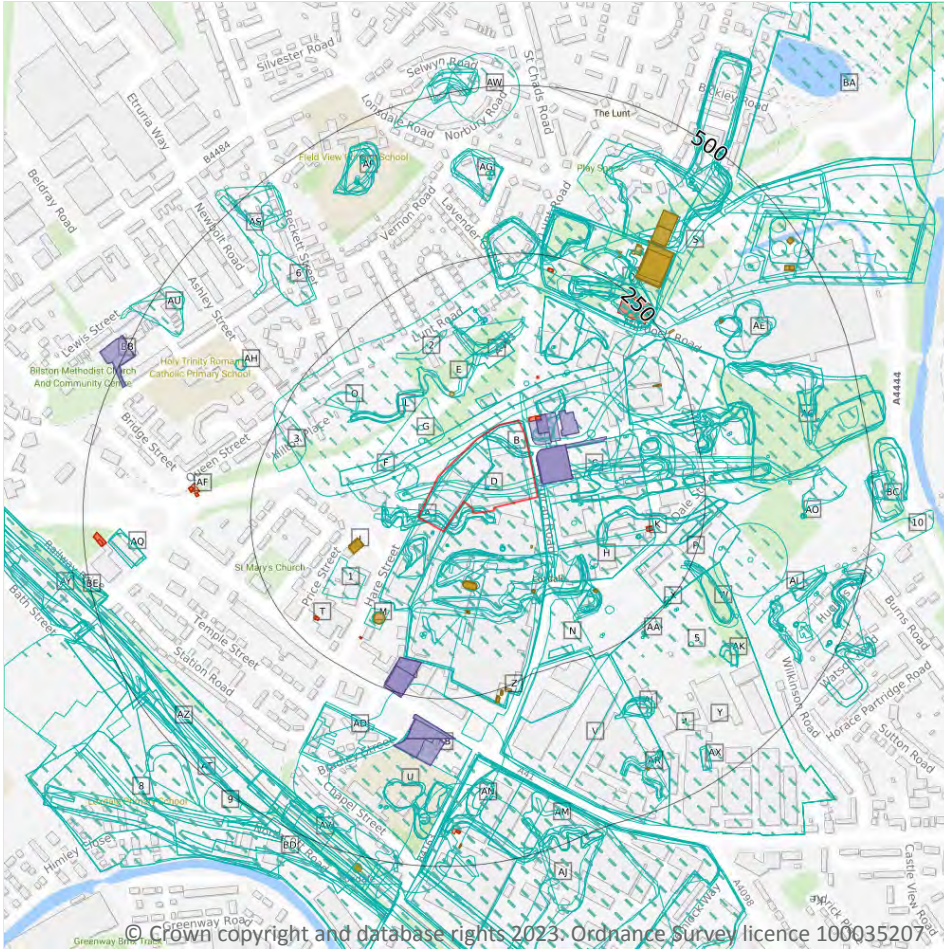
0

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



2.1 Historical industrial land uses

Records within 500m **669**

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 39](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Ground Workings	1938	1103633
A	On site	Unspecified Ground Workings	1919	1146137
A	On site	Unspecified Ground Workings	1886	1071039

ID	Location	Land Use	Date	Group ID
A	On site	Tube Works	1955	1004185
A	On site	Unspecified Works	1968	1052758
A	On site	Unspecified Works	1974	1151806
A	On site	Unspecified Commercial/Industrial	1974	995880
A	On site	Unspecified Works	1993	1062266
A	On site	Unspecified Ground Workings	1920	1086185
A	On site	Unspecified Ground Workings	1938	1086185
A	On site	Unspecified Works	1978	1068893
A	On site	Unspecified Works	1988	1062266
A	On site	Unspecified Ground Workings	1919	1086185
A	On site	Unspecified Ground Workings	1901	1086185
B	On site	Unspecified Ground Workings	1919	1103777
B	On site	Unspecified Ground Workings	1920	1114949
B	On site	Unspecified Ground Workings	1938	1114949
B	On site	Unspecified Ground Workings	1919	1114949
B	On site	Unspecified Ground Workings	1901	1114949
C	On site	Tramway Sidings	1886	1143531
C	On site	Tramway Sidings	1885	1143531
D	On site	Coal Pits	1886	1107515
D	On site	Coal Pits	1885	1147801
D	On site	Unspecified Works	1968	1060977
C	1m NE	Sand Pit	1955	996281
E	2m N	Unspecified Yard	1920	1127980
C	4m E	Unspecified Heap	1955	1002128
A	7m SW	Unspecified Shafts	1886	1043560
C	8m NE	Refuse Heap	1920	1069001
C	8m NE	Coal Shafts	1938	1140653
A	9m SW	Unspecified Shafts	1885	1043560



ID	Location	Land Use	Date	Group ID
C	10m NE	Refuse Heap	1919	1069001
C	10m NE	Unspecified Ground Workings and Heaps	1938	1112002
C	10m NE	Unspecified Ground Workings and Heaps	1919	1152347
C	12m E	Unspecified Works	1993	1041872
C	12m E	Unspecified Works	1988	1041872
F	14m N	Cuttings	1938	1145336
F	14m N	Cuttings	1920	1145336
F	14m N	Cuttings	1919	1145336
C	15m E	Unspecified Works	1968	1059983
C	16m E	Unspecified Depot	1968	1012750
A	18m SW	Unspecified Heap	1886	1036709
A	20m SW	Unspecified Shafts	1885	1135821
A	21m SW	Unspecified Shafts	1886	1135821
A	22m SW	Unspecified Heap	1885	1036709
C	22m SE	Unspecified Works	1968	1093861
C	22m SE	Unspecified Works	1974	1093861
A	22m SW	Unspecified Ground Workings	1919	1138470
A	22m SW	Unspecified Ground Workings	1901	1138470
A	23m W	Unspecified Heap	1885	1002130
A	24m SW	Unspecified Ground Workings	1919	1078682
A	27m SW	Unspecified Ground Workings	1920	1138470
C	27m NE	Coal Shafts	1920	1083759
A	31m W	Coal Pits	1886	1051400
C	32m NE	Unspecified Heap	1920	1070461
C	32m NE	Unspecified Heap	1938	1070461
C	32m NE	Unspecified Heap	1919	1070461
C	32m NE	Unspecified Heap	1901	1070461
A	32m W	Coal Pits	1885	1051400



ID	Location	Land Use	Date	Group ID
F	32m N	Ambulance Station	1993	1109663
F	32m N	Ambulance Station	1988	1109663
A	35m SW	Unspecified Ground Workings	1920	1142299
G	37m NW	Unspecified Heap	1955	1002129
A	37m S	Unspecified Ground Workings	1919	1104991
A	38m S	Unspecified Ground Workings	1901	1137904
A	39m S	Unspecified Ground Workings	1919	1122732
A	40m S	Unspecified Ground Workings	1938	1105536
A	40m S	Unspecified Ground Workings	1886	1155283
A	41m S	Unspecified Ground Workings	1938	1105536
C	42m NE	Coal Shafts	1919	1155658
A	43m S	Unspecified Heap	1885	1077622
C	50m E	Unspecified Ground Workings	1920	1061566
C	50m E	Unspecified Ground Workings	1938	1061566
C	50m E	Unspecified Ground Workings	1919	1061566
C	50m E	Unspecified Ground Workings	1901	1061566
C	51m E	Unspecified Ground Workings	1938	1059727
C	51m E	Unspecified Ground Workings	1919	1143963
G	51m NW	Coal Shafts	1901	993515
A	52m S	Old Coal Shaft	1919	1057115
C	53m NE	Coal Shaft	1901	1021248
A	54m S	Old Coal Shaft	1919	1057115
A	56m S	Old Coal Shaft	1938	1094745
A	56m S	Old Coal Shaft	1938	1123642
A	56m S	Old Coal Shaft	1920	1123642
A	57m W	Unspecified Shaft	1886	1062469
A	57m W	Unspecified Shaft	1885	1062469
C	62m E	Unspecified Shafts	1885	1107164



ID	Location	Land Use	Date	Group ID
C	63m SE	Coal Shaft	1901	1021249
C	65m E	Unspecified Shafts	1886	1126656
E	65m N	Refuse Heap	1919	1020231
G	66m NW	Coal Shafts	1901	993512
E	68m N	Ground Workings and Refuse Heap	1919	1007367
A	72m S	Unspecified Heap	1919	1072082
A	72m S	Unspecified Heap	1901	1072082
C	79m E	Unspecified Ground Workings	1955	1140449
C	79m E	Unspecified Pit	1955	1030693
H	80m SE	Unspecified Works	1978	1103042
A	82m S	Unspecified Tanks	1968	1128665
A	82m S	Unspecified Tanks	1974	1128665
I	86m N	Unspecified Depot	1968	1115910
I	86m N	Unspecified Depot	1974	1115910
I	86m N	Unspecified Depot	1978	1115910
C	91m E	Coal Shafts	1919	1054552
C	94m NE	Unspecified Shafts	1885	1113127
C	94m NE	Unspecified Shafts	1885	1055329
C	97m NE	Unspecified Shafts	1886	1138018
C	97m NE	Unspecified Pit	1920	1123386
C	97m NE	Unspecified Pit	1938	1123386
C	97m NE	Unspecified Pit	1919	1123386
C	97m NE	Unspecified Pit	1901	1123386
C	98m NE	Unspecified Shafts	1886	1145091
C	98m NE	Unspecified Pit	1938	1095174
C	98m NE	Unspecified Pit	1919	1127931
C	99m NE	Unspecified Shaft	1901	1009414
K	100m SE	Refuse Heap	1920	1060049



ID	Location	Land Use	Date	Group ID
K	100m SE	Refuse Heap	1938	1060049
A	101m S	Unspecified Ground Workings	1919	1038957
A	101m S	Unspecified Ground Workings	1901	1038957
L	101m NW	Unspecified Ground Workings	1920	1063325
L	101m NW	Unspecified Ground Workings	1938	1063325
L	101m NW	Unspecified Ground Workings	1919	1070694
L	101m NW	Unspecified Ground Workings	1938	1052141
K	102m SE	Refuse Heap	1919	1154535
K	102m E	Refuse Heap	1938	1069596
K	102m E	Refuse Heap	1919	1155009
C	103m NE	Unspecified Works	1974	1127779
H	104m SE	Unspecified Heap	1885	1002127
I	105m N	Unspecified Ground Workings	1886	1117289
C	107m NE	Unspecified Works	1993	1079743
C	107m NE	Unspecified Works	1978	1139598
C	107m NE	Unspecified Works	1988	1079743
I	107m N	Unspecified Ground Workings	1919	1102886
I	107m N	Unspecified Ground Workings	1901	1102886
H	107m SE	Unspecified Ground Workings	1886	1147411
C	107m NE	Unspecified Shafts	1885	1094088
I	108m N	Unspecified Heap	1885	1002131
C	109m NE	Unspecified Shafts	1886	1061666
H	110m SE	Unspecified Ground Workings	1938	1081901
H	111m SE	Unspecified Ground Workings	1938	1056286
C	118m E	Unspecified Shafts	1886	1005711
1	118m SW	Unspecified Works	1968	1021045
C	118m E	Unspecified Heap	1885	1039989
C	119m NE	Unspecified Shafts	1885	1088249



ID	Location	Land Use	Date	Group ID
C	121m NE	Unspecified Shafts	1886	1127987
H	123m SE	Unspecified Pit	1901	1030692
A	124m S	Unspecified Pit	1955	1030697
C	125m E	Unspecified Shafts	1885	1005708
A	131m SW	Unspecified Ground Workings	1919	998824
H	131m SE	Unspecified Old Shafts	1885	1145132
H	132m SE	Unspecified Old Shafts	1886	1077981
C	133m E	Unspecified Ground Workings	1886	1133276
C	141m NE	Sludge Bed	1968	1009085
M	143m SW	Unspecified Commercial/Industrial	1886	995879
C	143m E	Unspecified Shafts	1885	1088064
2	144m NW	Unspecified Ground Workings	1901	998846
C	145m NE	Sand Pit	1955	996282
I	145m N	Unspecified Yard	1919	1127980
C	146m E	Unspecified Shafts	1886	1066247
I	146m N	Council Yard	1919	1003917
M	150m SW	Old Gasometer	1886	1044392
I	151m N	Unspecified Shafts	1885	1136196
M	152m SW	Old Gasometer	1885	1044392
I	152m N	Unspecified Shafts	1886	1136196
A	153m S	Coal Shaft	1919	1147168
I	154m N	Old Coal Shaft	1919	1129168
I	154m N	Old Coal Shaft	1901	1129168
A	154m S	Coal Shaft	1920	1147168
N	155m SE	Unspecified Depot	1978	1116972
C	155m E	Unspecified Works	1968	1112749
C	155m E	Unspecified Works	1974	1112749
I	156m N	Old Coal Shaft	1919	1129168



ID	Location	Land Use	Date	Group ID
O	156m NW	Unspecified Pit	1886	1091989
H	156m SE	Unspecified Heap	1919	1117673
H	156m SE	Unspecified Heap	1901	1117673
C	156m E	Unspecified Works	1993	1096720
C	156m E	Unspecified Works	1978	1063487
C	156m E	Unspecified Works	1988	1096720
A	157m S	Coal Shaft	1919	1147168
O	157m NW	Unspecified Pit	1885	1091989
I	158m N	Old Coal Shaft	1920	992332
H	158m SE	Unspecified Heap	1938	1052478
K	158m E	Unspecified Old Shaft	1938	1089726
K	159m E	Unspecified Old Shaft	1920	1089726
K	159m E	Unspecified Old Shaft	1938	1089726
K	159m E	Unspecified Old Shaft	1919	1089726
K	160m E	Unspecified Old Shaft	1919	1145365
C	163m E	Unspecified Heap	1955	1080428
H	164m SE	Unspecified Ground Workings	1886	1105862
H	165m SE	Unspecified Heap	1885	1129405
C	165m E	Unspecified Heap	1920	1137207
C	165m E	Coal Shafts	1938	993516
C	165m E	Unspecified Heap	1919	1137207
C	167m E	Unspecified Heap	1901	1137207
I	171m N	Unspecified Shafts	1885	1062304
I	173m N	Unspecified Shafts	1886	1062304
C	178m E	Unspecified Old Shafts	1885	993081
H	179m SE	Unspecified Old Shafts	1886	1117293
H	181m SE	Unspecified Old Shafts	1885	1035267
P	182m SE	Unspecified Works	1993	1057143



ID	Location	Land Use	Date	Group ID
P	182m SE	Unspecified Works	1978	1143994
P	182m SE	Unspecified Works	1988	1057143
C	185m E	Unspecified Works	1978	1021044
Q	192m NE	Colliery	1886	1150627
C	193m E	Refuse Heap	1968	1068292
C	193m E	Refuse Heap	1974	1068292
H	193m SE	Unspecified Pit	1901	1030696
3	194m W	Refuse Heap	1901	1020230
Q	195m NE	Colliery	1885	1150627
Q	196m NE	Unspecified Pit	1955	1030690
Q	198m NE	Sewage Works	1920	1077244
Q	198m NE	Sewage Works	1938	1077244
Q	198m NE	Disused Colliery	1901	1015519
Q	200m NE	Sewage Works	1938	1122343
S	200m NE	Sewage Works	1919	1040747
S	200m NE	Sewage Works	1919	1114785
Q	201m N	Unspecified Ground Workings	1886	998844
Q	202m NE	Sand Pit	1938	1120205
Q	202m NE	Sand Pit	1919	1146062
Q	202m N	Unspecified Heap	1885	1085749
Q	204m NE	Refuse Heap	1938	1020256
Q	204m NE	Sand Pit	1920	1153828
Q	205m NE	Sand Pit	1919	1153828
Q	206m NE	Unspecified Shafts	1885	1124304
Q	207m NE	Railway Sidings	1920	1087837
Q	207m NE	Railway Sidings	1938	1087837
Q	208m NE	Unspecified Shafts	1886	1119512
Q	210m N	Unspecified Heap	1919	1086974



ID	Location	Land Use	Date	Group ID
Q	212m NE	Railway Sidings	1919	1116394
Q	212m N	Unspecified Heap	1901	1059981
Q	212m N	Ground Workings and Refuse Heap	1919	1007372
Q	213m N	Unspecified Heap	1920	1108115
Q	214m NE	Railway Sidings	1938	1087837
Q	214m NE	Railway Sidings	1919	1087837
C	216m E	Unspecified Ground Workings	1938	1121691
C	217m E	Unspecified Ground Workings	1919	1152586
C	217m E	Unspecified Pit	1955	1055933
C	217m E	Unspecified Ground Workings	1920	1143785
C	218m E	Unspecified Old Shafts	1885	1099702
C	219m E	Unspecified Ground Workings	1938	1143785
C	219m E	Unspecified Ground Workings	1919	1143785
Q	219m NE	Unspecified Pit	1901	1030688
C	220m E	Unspecified Old Shafts	1886	1118818
Q	220m NE	Unspecified Ground Workings	1919	998841
C	221m E	Unspecified Pit	1920	1091573
C	221m E	Unspecified Pit	1938	1091573
C	221m E	Unspecified Pit	1919	1091573
C	221m E	Unspecified Pit	1901	1091573
Q	221m NE	Cuttings	1938	1121342
Q	221m NE	Cuttings	1920	1121342
C	223m NE	Sludge Beds	1955	1022432
Q	224m NE	Cuttings	1919	1077407
H	225m SE	Unspecified Shaft	1886	1073980
N	226m SE	Unspecified Depot	1968	1072501
N	226m SE	Unspecified Depot	1974	1072501
H	226m SE	Unspecified Shaft	1885	1052361



ID	Location	Land Use	Date	Group ID
Q	229m NE	Unspecified Shafts	1885	1005706
U	231m S	Bedstead Works	1938	1087575
Q	232m NE	Unspecified Shafts	1886	1005707
C	233m E	Unspecified Old Shafts	1885	1147935
Q	234m NE	Unspecified Shafts	1885	1128431
V	236m SE	Industrial Park	1988	1094550
C	236m E	Unspecified Old Shafts	1886	1135549
Q	236m NE	Unspecified Shafts	1886	1145788
W	237m SE	Unspecified Heap	1886	1071691
V	239m SE	Industrial Park	1993	1094550
Q	240m N	Unspecified Heap	1885	1054712
W	240m SE	Unspecified Heap	1938	1095096
W	240m SE	Unspecified Heap	1919	1155082
Q	240m NE	Unspecified Pit	1901	1030687
W	242m SE	Unspecified Heap	1901	1065278
X	242m SE	Unspecified Pit	1901	1030699
V	243m S	Engineering Works	1955	1008413
W	243m SE	Unspecified Heap	1920	1065278
W	243m SE	Unspecified Heap	1938	1065278
W	243m SE	Unspecified Heap	1919	1065278
Q	244m N	Unspecified Heap	1968	1132475
Q	244m N	Unspecified Heap	1974	1132475
Q	244m N	Unspecified Heap	1993	1060777
Q	244m N	Unspecified Heap	1978	1132475
Q	244m N	Unspecified Heap	1988	1060777
C	245m E	Unspecified Pit	1955	1030694
4	246m SE	Unspecified Works	1974	1051045
Y	246m SE	Unspecified Works	1968	1057641



ID	Location	Land Use	Date	Group ID
Y	246m SE	Unspecified Commercial/Industrial	1993	1050953
Y	246m SE	Unspecified Works	1978	1075769
Y	246m SE	Unspecified Works	1988	1050839
Q	246m N	Unspecified Heap	1938	1107073
Q	246m N	Unspecified Heap	1901	1146142
X	247m SE	Unspecified Old Shafts	1885	1132282
Q	247m N	Unspecified Heap	1920	1047363
Q	247m N	Unspecified Heap	1919	1047363
X	248m SE	Unspecified Old Shafts	1886	1043841
S	248m NE	Sewage Works	1978	1049120
X	248m SE	Unspecified Old Shafts	1885	1122182
Q	250m N	Unspecified Heap	1955	1056825
X	250m SE	Unspecified Old Shafts	1886	1101400
C	251m E	Unspecified Heap	1901	1125407
Q	252m NE	Unspecified Heap	1885	1038393
Q	253m NE	Unspecified Ground Workings	1886	998843
C	254m E	Unspecified Ground Workings	1901	1087975
Q	254m NE	Unspecified Shafts	1886	1005705
AA	254m SE	Old Coal Shafts	1901	1025992
Q	255m N	Unspecified Heap	1938	1056825
Q	255m N	Unspecified Heap	1919	1085025
V	258m SE	Unspecified Commercial/Industrial	1978	1068250
C	258m E	Unspecified Pit	1955	1100305
AA	260m SE	Coal Pit	1886	1005094
AA	260m SE	Coal Pit	1885	1005095
C	262m E	Unspecified Pit	1920	1057617
C	262m E	Unspecified Pit	1938	1057617
C	263m E	Unspecified Pit	1919	1096909



ID	Location	Land Use	Date	Group ID
Q	263m NE	Unspecified Heap	1955	1061646
X	264m SE	Unspecified Old Shafts	1885	1106583
X	265m SE	Unspecified Old Shafts	1886	1111175
P	275m E	Unspecified Old Shaft	1885	1132651
U	278m S	Bedstead Works	1938	1104304
AB	278m S	Bedstead Works	1919	1103898
Q	278m NE	Unspecified Tanks	1968	1043326
Q	278m NE	Unspecified Tanks	1974	1043326
Q	278m NE	Unspecified Tanks	1978	1043326
P	280m E	Old Coal Shafts	1901	1025994
AB	281m S	Bedstead Works	1886	1045626
S	282m NE	Filter Beds	1978	1009821
Q	285m NE	Unspecified Tanks	1920	1139989
Q	285m NE	Unspecified Tanks	1938	1079208
C	286m E	Unspecified Heap	1885	1154895
Q	288m NE	Unspecified Tanks	1919	1121389
Q	288m NE	Unspecified Tanks	1938	1036856
Q	288m NE	Unspecified Tanks	1919	1121389
C	292m E	Unspecified Shafts	1885	1057514
C	295m E	Unspecified Shafts	1885	1073445
C	296m E	Unspecified Shafts	1886	1089824
C	299m E	Unspecified Shafts	1886	1061628
AC	301m E	Sludge Bed	1968	1038740
AC	301m E	Sludge Bed	1974	1147864
AC	301m E	Sludge Bed	1978	1147864
Q	304m NE	Unspecified Tanks	1968	1039223
Q	304m NE	Unspecified Tanks	1974	1039223
AD	305m SW	Bedstead Works	1901	1148624



ID	Location	Land Use	Date	Group ID
AD	309m SW	Bedstead Works	1920	1116830
AD	309m SW	Bedstead Works	1919	1116830
AD	312m SW	Bedstead Works	1885	1035696
5	314m SE	Old Coal Shafts	1901	1025993
Q	314m NE	Unspecified Heap	1885	1082791
6	317m NW	Unspecified Ground Workings	1886	998847
Q	318m NE	Unspecified Ground Workings	1886	1059485
AC	319m NE	Unspecified Pit	1885	1061248
AC	320m NE	Unspecified Ground Workings	1886	1149578
Q	322m NE	Unspecified Heap	1938	1046183
Q	322m NE	Unspecified Heap	1920	1059502
AE	323m NE	Unspecified Pit	1885	1153592
AE	323m NE	Unspecified Pit	1886	1051547
7	324m NW	Unspecified Heap	1885	1002041
AE	324m NE	Unspecified Pit	1919	1076382
AE	324m NE	Unspecified Pit	1901	1076382
AE	324m NE	Unspecified Ground Workings	1978	1037776
AE	325m NE	Unspecified Heap	1974	1002114
AC	326m NE	Unspecified Ground Workings	1938	1050418
AC	326m NE	Unspecified Ground Workings	1919	1140558
Q	326m NE	Unspecified Ground Workings	1938	1070275
Q	326m NE	Unspecified Ground Workings	1919	1089952
Q	327m NE	Unspecified Ground Workings	1901	1051457
P	327m E	Unspecified Old Shaft	1886	1132651
AC	328m NE	Unspecified Ground Workings	1955	1111295
AG	329m N	Unspecified Heap	1885	1106874
AE	329m NE	Unspecified Ground Workings	1968	1085394
AH	330m NW	Unspecified Ground Workings	1886	998848



ID	Location	Land Use	Date	Group ID
AC	330m NE	Unspecified Ground Workings	1919	1126886
AG	331m N	Unspecified Ground Workings	1886	998845
AH	331m NW	Unspecified Pit	1885	1030691
AI	332m SE	Unspecified Heap	1938	1149988
AI	332m SE	Unspecified Heap	1919	1035534
AE	332m NE	Unspecified Shaft	1885	1044707
AI	334m SE	Unspecified Heap	1938	1149988
C	334m E	Unspecified Shafts	1885	1080345
AI	334m SE	Unspecified Ground Workings	1920	1038468
AE	335m NE	Unspecified Old Shaft	1919	1098649
AE	335m NE	Unspecified Shaft	1886	1073561
AI	335m SE	Unspecified Ground Workings	1886	1123030
AE	335m NE	Unspecified Old Shaft	1920	1036560
AE	335m NE	Unspecified Old Shaft	1938	1036560
AI	335m SE	Unspecified Heap	1919	1034600
AI	335m SE	Unspecified Heaps	1885	1021719
AJ	336m S	Disused Colliery	1920	1087050
AJ	337m S	Disused Colliery	1919	1089379
AJ	337m S	Disused Colliery	1901	1097515
AE	337m NE	Unspecified Old Shaft	1938	1036560
AE	337m NE	Unspecified Old Shaft	1919	1036560
AJ	337m S	Disused Colliery	1938	1127927
AJ	337m S	Disused Colliery	1919	1121957
AG	337m N	Unspecified Heap	1919	1142096
C	338m E	Unspecified Shafts	1886	1080345
AG	338m N	Unspecified Heap	1919	1142096
AJ	339m S	Disused Colliery	1938	1110210
Q	339m NE	Unspecified Tanks	1968	1054884



ID	Location	Land Use	Date	Group ID
Q	339m NE	Unspecified Tanks	1974	1054884
Q	339m NE	Unspecified Tanks	1978	1054884
AG	339m N	Unspecified Heap	1920	1052630
AJ	341m S	Colliery	1886	1120764
AJ	343m S	Colliery	1885	1150326
W	343m SE	Unspecified Old Shaft	1886	1003600
C	347m E	Unspecified Shafts	1885	1005709
AK	354m SE	Unspecified Heap	1938	1059571
AK	354m SE	Unspecified Heap	1919	1102705
AK	354m SE	Unspecified Heap	1919	1070544
AK	354m SE	Unspecified Ground Workings	1920	1096343
AK	354m SE	Unspecified Ground Workings	1938	1096343
AL	358m SE	Unspecified Heap	1974	1002115
AG	361m N	Unspecified Shaft	1886	1127133
AG	362m N	Unspecified Shaft	1885	1061124
AJ	363m S	Unspecified Works	1993	1068389
AJ	363m S	Unspecified Works	1988	1068389
U	363m S	Unspecified Commercial/Industrial	1978	1082809
AJ	363m S	Unspecified Works	1974	1086425
AG	367m N	Old Coal Shafts	1901	1025979
AG	367m N	Unspecified Shaft	1919	1063257
AG	368m N	Unspecified Shaft	1920	1102049
AG	368m N	Unspecified Shaft	1919	1102049
U	374m S	Unspecified Ground Workings	1938	1037782
U	374m S	Unspecified Ground Workings	1919	1129106
U	374m S	Unspecified Ground Workings	1920	1110896
U	374m S	Unspecified Ground Workings	1938	1110896
U	374m S	Unspecified Ground Workings	1919	1110896



ID	Location	Land Use	Date	Group ID
U	374m S	Unspecified Ground Workings	1901	1110896
C	374m E	Unspecified Shafts	1885	1005710
U	375m S	Unspecified Ground Workings	1886	1120263
U	375m S	Unspecified Heaps	1885	1021718
AM	375m S	Ground Workings and Refuse Heap	1938	1143904
AM	375m S	Ground Workings and Refuse Heap	1919	1127418
U	377m S	Unspecified Heaps	1920	1052479
U	377m S	Unspecified Heaps	1938	1052479
U	377m S	Unspecified Works	1968	1063890
AN	377m S	Unspecified Heap	1920	1095796
AN	377m S	Unspecified Heap	1938	1095796
AN	377m S	Unspecified Heap	1919	1095796
AN	377m S	Unspecified Heap	1901	1095796
U	379m S	Unspecified Heap	1919	1002090
AL	380m SE	Unspecified Ground Workings	1920	1125271
Q	381m NE	Unspecified Heap	1938	1098518
AL	382m SE	Unspecified Ground Workings	1938	1125271
Q	383m NE	Unspecified Ground Workings	1919	1098681
AL	383m SE	Unspecified Ground Workings	1938	1129310
AL	383m SE	Unspecified Ground Workings	1919	1096178
AL	383m SE	Unspecified Pit	1919	1030702
AL	384m SE	Unspecified Tanks	1901	1010305
AL	388m SE	Unspecified Tanks	1901	1010306
AJ	389m S	Unspecified Works	1978	1086425
AO	393m E	Trial Shaft	1919	1110944
AO	394m E	Trial Shaft	1920	1110944
AO	394m E	Trial Shaft	1938	1110944
AO	394m E	Trial Shaft	1938	1083602



ID	Location	Land Use	Date	Group ID
AO	394m E	Trial Shaft	1919	1072949
AO	395m E	Unspecified Ground Workings	1968	998831
AO	395m E	Unspecified Pit	1974	1030686
AP	399m N	Unspecified Ground Workings	1920	1129652
AP	399m N	Unspecified Ground Workings	1938	1129652
AL	401m E	Unspecified Pit	1938	1080046
AP	401m N	Unspecified Heap	1938	1087593
AP	401m N	Unspecified Heap	1919	1045329
AL	403m E	Unspecified Pit	1920	1126980
AP	404m N	Unspecified Heap	1919	1136320
AP	405m NW	Unspecified Heap	1955	1087593
Q	405m NE	Unspecified Heap	1968	1036145
Q	405m NE	Unspecified Heap	1974	1036145
Q	405m NE	Unspecified Heap	1978	1036145
AL	406m E	Unspecified Pit	1919	1123313
S	407m NE	Unspecified Heap	1901	1002116
U	409m S	Unspecified Ground Workings	1920	1109810
U	409m S	Unspecified Ground Workings	1938	1109810
U	409m S	Unspecified Ground Workings	1919	1109810
U	409m S	Unspecified Ground Workings	1901	1109810
AL	410m SE	Unspecified Old Shaft	1885	1135073
AC	410m E	Unspecified Pit	1920	1126539
AC	410m E	Unspecified Pit	1938	1126539
AC	410m E	Unspecified Pit	1919	1062217
AQ	410m W	Telephone Exchange	1993	1067689
AQ	410m W	Telephone Exchange	1988	1067689
AL	411m SE	Unspecified Old Shaft	1886	1135073
AR	411m SE	Unspecified Ground Workings	1919	1048865



ID	Location	Land Use	Date	Group ID
AR	411m SE	Unspecified Ground Workings	1920	1130452
AP	411m NW	Unspecified Ground Workings	1886	1090629
S	412m NE	Unspecified Shaft	1885	1109367
AC	412m E	Unspecified Ground Workings	1919	1098478
AQ	413m W	Telephone Exchange	1968	1069889
AQ	413m W	Telephone Exchange	1974	1069889
S	413m NE	Sewage Works	1968	1045813
S	413m NE	Sewage Works	1974	1045813
AS	414m NW	Unspecified Pit	1885	1030689
AP	415m NW	Unspecified Heap	1885	1047319
AL	415m SE	Unspecified Ground Workings	1919	1050149
S	415m NE	Unspecified Shaft	1886	1147309
AP	416m NW	Unspecified Old Shaft	1886	1087902
AP	416m NW	Old Coal Shafts	1919	1097767
AP	416m NW	Unspecified Tank	1920	1131127
AP	416m NW	Unspecified Tank	1938	1131127
AP	416m NW	Unspecified Old Shaft	1885	1087902
AR	417m SE	Unspecified Ground Workings	1919	1130452
U	417m S	Chalk Pits	1886	994224
U	418m S	Coal Pits	1886	1110350
U	418m S	Coal Pits	1885	1000042
AP	419m NW	Old Coal Shafts	1901	1082398
U	419m S	Coal Pits	1885	1110350
AC	419m E	Unspecified Pit	1919	1036918
AM	421m S	Unspecified Ground Workings	1901	998826
S	421m NE	Sewage Works	1955	1083839
AP	422m NW	Old Coal Shafts	1919	1036876
U	422m S	Unspecified Pit	1920	1089542



ID	Location	Land Use	Date	Group ID
U	422m S	Unspecified Pit	1938	1089542
U	422m S	Unspecified Pit	1919	1089542
U	422m S	Unspecified Pit	1901	1089542
AL	423m SE	Unspecified Ground Workings	1886	1119216
Q	424m NE	Unspecified Heap	1955	1105785
U	424m S	Refuse Heap	1938	1150081
U	424m S	Refuse Heap	1920	1150081
AJ	426m S	Unspecified Commercial/Industrial	1968	1120637
AL	426m SE	Coal Shafts	1919	1087211
AL	426m SE	Coal Shafts	1920	1051529
AL	426m SE	Coal Shafts	1938	1051529
AT	426m SW	Railway Sidings	1968	1050758
AT	426m SW	Railway Sidings	1974	1055662
AL	427m SE	Coal Shafts	1938	1051529
AL	427m SE	Coal Shafts	1919	1051529
AT	427m SW	Railway Sidings	1978	1045587
AL	428m E	Unspecified Heap	1885	1046945
AT	428m SW	Railway Sidings	1955	1042402
U	428m S	Refuse Heap	1919	1146161
AC	429m E	Unspecified Shafts	1885	1005726
Q	430m NE	Unspecified Old Shafts	1938	1139564
Q	430m NE	Unspecified Old Shafts	1919	1069342
AC	431m E	Unspecified Shafts	1886	1005725
AL	431m SE	Pumping Engine	1885	1070981
U	432m S	Unspecified Old Shaft	1885	1091959
U	433m S	Unspecified Old Shaft	1886	1091959
Q	434m NE	Unspecified Old Shafts	1920	1104776
Q	435m NE	Unspecified Old Shafts	1938	1131871



ID	Location	Land Use	Date	Group ID
AL	437m E	Unspecified Old Shafts	1885	1150249
S	437m NE	Sewage Works	1886	1089866
AL	438m SE	Pumping Engine	1886	1070981
Q	438m NE	Unspecified Old Shafts	1938	1043984
Q	438m NE	Unspecified Old Shafts	1919	1144681
AU	438m NW	Unspecified Ground Workings	1886	998849
AL	439m E	Unspecified Old Shafts	1886	1110301
Q	440m NE	Unspecified Old Shafts	1919	1144681
AS	440m NW	Unspecified Heap	1901	1110691
AP	440m N	Old Coal Shafts	1919	1112487
AP	440m N	Unspecified Tank	1920	1127272
AP	440m N	Unspecified Tank	1938	1127272
AU	440m NW	Unspecified Heap	1885	1002044
AP	442m N	Old Coal Shafts	1901	1141173
AS	442m NW	Unspecified Heap	1919	1110691
AV	443m SW	Cuttings	1993	1115058
AV	443m SW	Cuttings	1988	1115058
U	444m S	Refuse Heap	1901	1141256
AV	444m SW	Cuttings	1978	1085585
S	445m NE	Unspecified Tanks	1968	1039775
S	445m NE	Unspecified Tanks	1974	1039775
S	445m NE	Unspecified Tanks	1978	1039775
AP	445m N	Old Coal Shafts	1919	1063237
AJ	445m S	Unspecified Ground Workings	1886	1074694
AM	446m S	Unspecified Heap	1885	1002088
AW	446m N	Coal Shaft	1920	1148877
AX	446m SE	Unspecified Heap	1920	1130903
AX	446m SE	Unspecified Heap	1938	1130903



ID	Location	Land Use	Date	Group ID
AR	446m SE	Unspecified Ground Workings	1920	1106853
AV	446m SW	Unspecified Ground Workings	1886	998822
AV	446m SW	Cuttings	1974	1112681
Q	448m NE	Unspecified Heap	1938	1036146
AV	448m SW	Unspecified Heaps	1885	1021715
AX	449m SE	Unspecified Heap	1919	1122321
AY	449m SW	Railway Sidings	1885	1148701
S	450m NE	Unspecified Ground Workings	1919	998840
AR	450m SE	Unspecified Ground Workings	1919	1106853
Q	452m NE	Unspecified Heap	1938	1036146
Q	452m NE	Unspecified Heap	1919	1102807
AS	454m NW	Unspecified Pit	1885	1030665
S	454m NE	Unspecified Tank	1955	1017714
AV	454m SW	Cuttings	1968	1116452
AT	457m SW	Railway Sidings	1919	1063306
AV	457m SW	Chalk Pits	1886	994225
AV	457m SW	Chalk Pits	1886	994223
AY	458m SW	Railway Sidings	1901	1155424
AV	459m SW	Coal Pits	1885	1000041
AT	459m SW	Railway Sidings	1938	1131907
AT	459m SW	Railway Sidings	1919	1048347
AL	460m E	Coal Pit	1901	1142743
AT	460m SW	Railway Sidings	1920	1040899
AT	460m SW	Railway Sidings	1938	1040899
AL	461m E	Unspecified Ground Workings	1886	1123694
AV	461m S	Unspecified Heaps	1885	1021716
AL	461m E	Unspecified Ground Workings	1920	1144520
AL	461m E	Unspecified Ground Workings	1938	1144520



ID	Location	Land Use	Date	Group ID
AL	461m E	Coal Pit	1919	1142743
AY	461m SW	Unspecified Works	1993	1074150
AY	461m SW	Unspecified Works	1988	1153466
AL	462m E	Unspecified Ground Workings	1938	1045068
AL	462m E	Unspecified Ground Workings	1919	1057103
AY	462m SW	Railway Sidings	1886	1040878
S	462m NE	Sewage Works	1885	1103369
AC	464m E	Unspecified Pit	1901	1036918
AV	465m SW	Culm Pit	1886	1033367
AZ	466m SW	Unspecified Heap	1901	1002043
AL	466m E	Old Coal Shafts	1901	1026008
AW	466m N	Unspecified Heap	1885	1082415
BA	467m NE	Disused Colliery	1920	1095904
AL	467m E	Unspecified Old Shafts	1885	1084491
AV	468m SW	Cuttings	1901	1136612
AL	470m E	Unspecified Old Shafts	1886	1074609
AJ	471m S	Unspecified Ground Workings	1920	1082241
AJ	471m S	Unspecified Ground Workings	1938	1082241
AJ	471m S	Unspecified Ground Workings	1919	1059769
AJ	472m S	Unspecified Heaps	1901	1091282
AV	472m SW	Cuttings	1885	1085585
S	474m NE	Unspecified Tank	1955	1017713
AT	475m SW	Unspecified Depot	1978	1012749
AY	475m SW	Unspecified Works	1978	1115953
U	476m S	Unspecified Ground Workings	1886	998825
U	476m S	Unspecified Heap	1885	1002089
AZ	477m SW	Railway Building	1955	1014026
AJ	478m S	Unspecified Heaps	1885	1118082



ID	Location	Land Use	Date	Group ID
8	480m SW	Unspecified Industrial/Commercial	1938	1025180
S	481m NE	Unspecified Tank	1955	1017715
AV	481m S	Unspecified Ground Workings	1886	998819
AZ	481m SW	Railway Buildings	1968	1024335
S	483m NE	Sludge Beds	1978	1022433
AL	483m SE	Old Coal Shaft	1901	992333
AL	483m SE	Coal Shafts	1920	1107050
AL	483m SE	Coal Shafts	1938	1107050
AL	483m SE	Coal Shafts	1919	1107050
AL	484m SE	Unspecified Old Shaft	1885	1003599
AL	484m SE	Coal Shafts	1938	1107050
AL	484m SE	Coal Shafts	1919	1107050
AL	485m SE	Unspecified Shaft	1886	1009448
AT	486m SW	Iron and Steel Works	1955	1025123
BC	488m E	Unspecified Pit	1885	1091639
Q	488m NE	Unspecified Heap	1919	1102807
AW	488m N	Railway Sidings	1919	1114398
AW	488m N	Railway Sidings	1920	1114398
BA	488m NE	Disused Colliery	1938	1038245
AV	489m S	Unspecified Shaft	1886	1079950
AV	489m S	Unspecified Shaft	1885	1079950
U	492m S	Unspecified Shafts	1885	1080344
BC	492m E	Unspecified Pit	1901	1136830
BC	492m E	Unspecified Pit	1886	1091639
AW	492m N	Railway Sidings	1919	1127137
BC	492m E	Unspecified Ground Workings	1919	1155578
AW	493m N	Unspecified Ground Workings	1886	1156714
U	493m S	Unspecified Shafts	1886	1080344



ID	Location	Land Use	Date	Group ID
BA	494m NE	Disused Colliery	1938	1038245
BA	494m NE	Disused Colliery	1919	1095904
BC	494m E	Unspecified Pit	1955	1091473
AT	494m SW	Unspecified Ground Workings	1886	998823
BC	494m E	Unspecified Ground Workings	1938	1099253
BC	494m E	Unspecified Ground Workings	1919	1061636
AW	494m N	Unspecified Heap	1955	1099960
BC	495m E	Unspecified Pit	1920	1100888
BC	495m E	Unspecified Pit	1938	1100888
AV	495m S	Cuttings	1978	1037858
BD	496m SW	Industrial Estate	1993	1073930
BD	496m SW	Industrial Estate	1988	1073930
9	497m SW	Gravel Pit	1955	1004426
AT	497m SW	Unspecified Heap	1885	1002042
BE	498m W	Railway Sidings	1938	1106261
BE	498m W	Railway Sidings	1919	1040759
AL	498m SE	Unspecified Ground Workings	1938	1065874
AL	498m SE	Unspecified Ground Workings	1919	1089288
AL	498m SE	Unspecified Ground Workings	1919	1089288
AL	499m SE	Unspecified Heap	1920	1069749
AL	499m SE	Unspecified Heap	1938	1069749
10	500m E	Unspecified Pit	1920	1144212

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

79

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 39](#) >

ID	Location	Land Use	Date	Group ID
A	68m SE	Unspecified Tank	1970	153702
E	73m N	Unspecified Tank	1982	153703
A	81m S	Tanks	1979	160722
A	81m S	Tanks	1991	160722
A	81m S	Tanks	1965	159679
A	81m S	Tanks	1965	159679
A	81m S	Tanks	1970	159679
A	82m S	Tanks	-	149579
A	82m S	Tanks	1995	160722
A	82m S	Tanks	1995	160722
J	91m SW	Tanks	1979	164314
J	91m SW	Tanks	1991	164314
J	92m SW	Tanks	-	149429
J	92m SW	Tanks	1995	164314
J	92m SW	Tanks	1995	164314
A	122m S	Unspecified Tank	1991	162902
A	123m S	Unspecified Tank	1995	162902
A	123m S	Unspecified Tank	1995	162902
A	124m S	Unspecified Tank	1979	161709
A	124m S	Unspecified Tank	1970	161709
A	125m S	Unspecified Tank	-	149461
A	131m SE	Unspecified Tank	1979	159430
A	131m SE	Unspecified Tank	1991	159430
A	131m SE	Unspecified Tank	1970	159430
A	132m SE	Unspecified Tank	-	149460
A	132m SE	Unspecified Tank	1995	159430
A	132m SE	Unspecified Tank	1995	159430



ID	Location	Land Use	Date	Group ID
M	151m SW	Old Gasometer	1887	156057
H	161m SE	Unspecified Tank	1979	165519
H	161m SE	Unspecified Tank	1991	165519
H	161m SE	Unspecified Tank	1970	165519
H	162m SE	Unspecified Tank	1995	165519
H	162m SE	Unspecified Tank	1995	165519
H	162m SE	Unspecified Tank	-	149526
C	204m NE	Tanks	1995	165748
C	204m NE	Tanks	1995	165748
Z	251m S	Tanks	-	149400
Z	252m S	Tanks	-	149528
Z	252m S	Tanks	1979	158593
Z	252m S	Tanks	1991	167199
Z	253m S	Tanks	1970	158880
Z	255m S	Tanks	1995	167750
Z	255m S	Tanks	1995	163718
Z	258m S	Tanks	1979	160740
Z	258m S	Tanks	1991	160740
Z	260m S	Tanks	1995	160740
Z	260m S	Tanks	1995	160740
Z	260m S	Tanks	-	149527
Q	260m NE	Unspecified Tank	1938	153923
Q	275m NE	Humus Tanks	1938	166969
Q	276m NE	Humus Tanks	1964	167413
Q	277m NE	Humus Tanks	1965	167413
Q	282m NE	Tanks	1919	157362
Q	286m NE	Tanks	1938	157358
Q	291m NE	Tanks	1938	157359



ID	Location	Land Use	Date	Group ID
Q	301m NE	Tanks	1965	167958
Q	315m NE	Tanks	1964	160687
Q	328m NE	Unspecified Tank	1938	153924
Q	332m NE	Settling Tanks	1938	155950
Q	334m NE	Unspecified Tank	1964	162816
Q	334m NE	Unspecified Tank	1965	165088
AE	334m NE	Unspecified Tank	1903	164006
AE	334m NE	Unspecified Tank	1919	164006
Q	357m NE	Unspecified Tank	1964	158101
Q	358m NE	Unspecified Tank	1965	159989
AR	435m SE	Unspecified Tank	1992	161773
AR	435m SE	Unspecified Tank	1988	161773
S	455m NE	Tanks	1938	157361
S	456m NE	Unspecified Tank	1965	163085
S	456m NE	Unspecified Tank	1964	163085
S	462m NE	Unspecified Tank	1965	165739
S	463m NE	Unspecified Tank	1964	165739
U	467m S	Unspecified Tank	-	149428
U	467m S	Unspecified Tank	1999	162938
U	469m S	Unspecified Tank	1988	163172
U	469m S	Unspecified Tank	1991	163172
S	481m NE	Unspecified Tank	1938	153914
S	481m NE	Tanks	1965	166101
S	482m NE	Tanks	1964	166101

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

54

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 39 >](#)

ID	Location	Land Use	Date	Group ID
A	0m SW	Gas Governor	1995	92252
A	0m SW	Gas Governor	1995	92252
A	2m SW	Gas Governor	1991	87654
C	13m NE	Electricity Substation	-	85603
C	15m NE	Electricity Substation	1979	96274
C	24m NE	Electricity Substation	1991	88964
C	24m NE	Electricity Substation	1995	88964
C	24m NE	Electricity Substation	1995	88964
C	24m NE	Electricity Substation	1970	88964
C	69m NE	Electricity Substation	1995	94936
C	69m NE	Electricity Substation	1995	94936
M	151m SW	Old Gasometer	1887	87458
K	167m E	Electricity Substation	1988	94847
K	169m E	Electricity Substation	1995	94847
K	169m E	Electricity Substation	1995	94847
M	198m SW	Gas Governor	1995	91325
M	198m SW	Gas Governor	1995	91325
M	198m SW	Gas Governor	1991	90889
T	211m SW	Electricity Substation	1979	92701
T	211m SW	Electricity Substation	1991	92701
T	212m SW	Electricity Substation	1970	92701
T	212m SW	Electricity Substation	1995	92701
T	212m SW	Electricity Substation	1995	92701



ID	Location	Land Use	Date	Group ID
T	212m SW	Electricity Substation	-	85522
Q	219m NE	Gas Valve Station	1995	96279
Q	219m NE	Gas Valve Station	1995	96279
Q	227m N	Electricity Substation	1995	93732
Q	227m N	Electricity Substation	1995	93732
Q	227m N	Electricity Substation	1982	95860
AF	328m W	Electricity Substation	1981	91930
AF	329m W	Electricity Substation	1980	95132
AF	329m W	Electricity Substation	1980	95132
AF	329m W	Electricity Substation	1980	95132
AF	329m W	Electricity Substation	1989	95132
AF	338m W	Electricity Substation	1995	92680
AF	338m W	Electricity Substation	1995	92680
AF	338m W	Electricity Substation	1995	92680
AF	338m W	Electricity Substation	1995	92680
AF	338m W	Electricity Substation	1999	92680
U	443m S	Electricity Substation	1999	86937
U	446m S	Electricity Substation	-	85677
U	447m S	Electricity Substation	1988	91882
U	447m S	Electricity Substation	1991	91882
AQ	467m W	Electricity Substation	1995	93994
AQ	467m W	Electricity Substation	1995	93994
AQ	467m W	Electricity Substation	1995	93994
AQ	467m W	Electricity Substation	1995	93994
AQ	467m W	Electricity Substation	1999	93994
AQ	467m W	Electricity Substation	1981	88519
AQ	471m W	Electricity Substation	1980	89719
AQ	471m W	Electricity Substation	1980	89719



ID	Location	Land Use	Date	Group ID
AQ	471m W	Electricity Substation	1980	89719
AQ	471m W	Electricity Substation	1989	89719
AQ	471m W	Electricity Substation	1992	89719

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

29

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 39 >](#)

ID	Location	Land Use	Date	Group ID
C	9m NE	Garage	-	27910
C	9m E	Garage	1995	29196
C	9m E	Garage	1995	29757
C	9m E	Garage	-	27968
C	9m E	Garage	1965	30621
C	9m E	Garage	1970	30621
C	10m E	Garage	1965	29916
C	11m E	Garage	1979	31538
C	11m E	Garage	1991	31538
C	20m NE	Garage	1991	28801

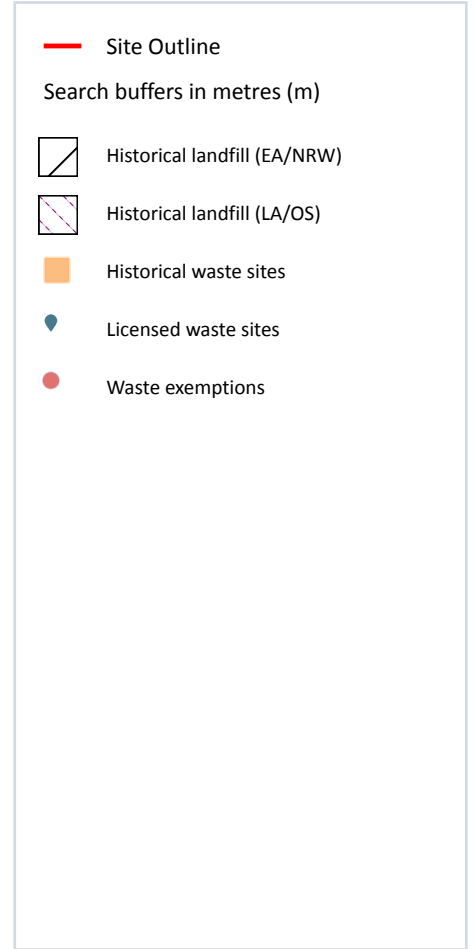
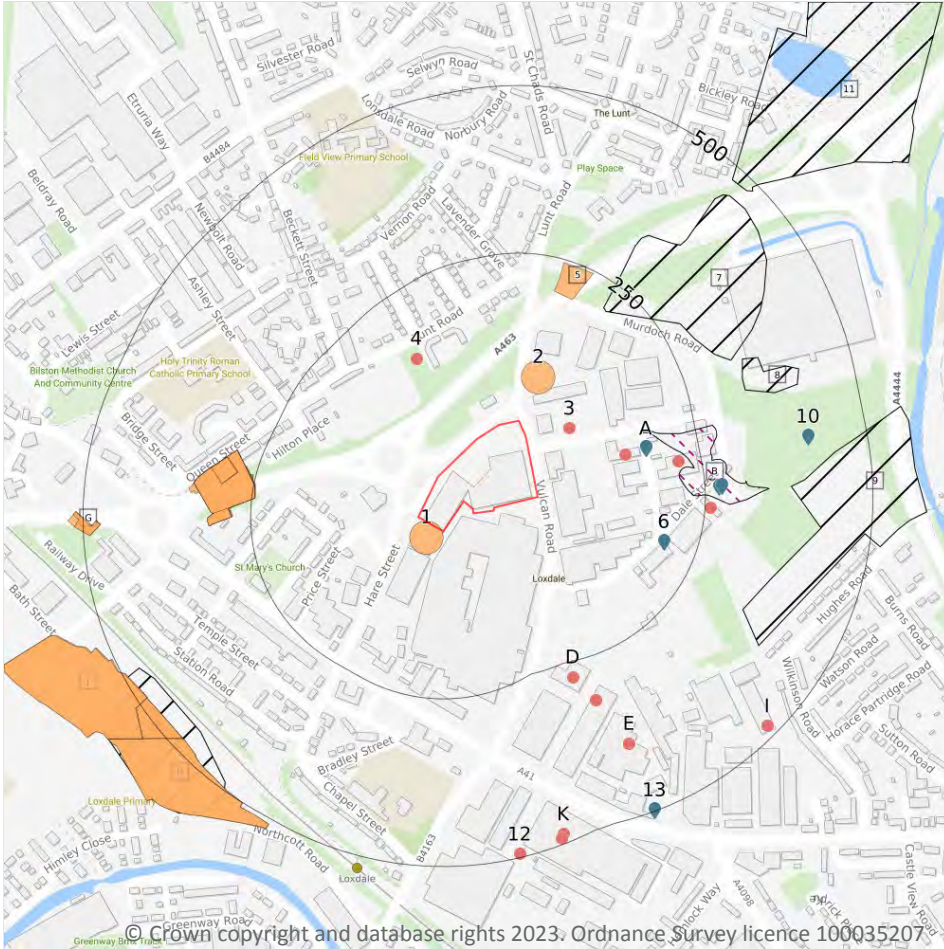


ID	Location	Land Use	Date	Group ID
C	20m NE	Garage	1995	31889
C	20m NE	Garage	1995	31889
C	20m NE	Garage	1979	29165
C	53m NE	Garage	1995	30212
C	53m NE	Garage	1995	30212
R	198m S	Garage	1965	28548
R	198m S	Garage	1991	29770
R	198m S	Garage	1965	30296
R	198m S	Garage	1970	30296
R	212m SW	Garage	1995	30421
R	212m SW	Garage	1995	30421
AB	276m S	Garage	1965	31769
AB	276m S	Garage	1970	31769
AB	283m S	Garage	1965	29103
AB	309m S	Garage	1966	30042
AB	310m S	Garage	1965	28380
AB	311m S	Garage	-	27932
BB	477m W	Garage	1965	31532
BB	479m W	Garage	1965	31532

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

2

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

Features are displayed on the Waste and landfill map on [page 71 >](#)

ID	Location	Site address	Source	Data type
B	171m E	Refuse Tip	1964 mapping	Polygon
B	172m E	Refuse Tip	1964 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

5

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 71 >](#)

ID	Location	Details		
7	208m NE	Site Address: The Lunt Sewage Works, Off The Black Country Route, Bilston, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: 644/829, LF/23 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Severn Trent Water First Recorded 01/09/1982 Last Recorded: 01/12/1986
8	334m E	Site Address: Dale Street, Dale Street, Bilston, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: 644/2013, 4600/9406 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -



ID	Location	Details		
9	348m SE	Site Address: Hughes Road Landfill Site, Hughes Road, Moxley, Walsall, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: SL/178, WAL514, 644/488 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Midland Earthmoving Company Limited Licence Holder: - First Recorded: - Last Recorded: -
F	455m SW	Site Address: Land At Brook Terrace, Brook Terrace, Bilston, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: 644/2006, 4600/9404 Waste Type: Industrial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded 08/04/1986 Last Recorded: -
11	480m NE	Site Address: Parkhill - Darlaston Lane Landfill Site, Darlaston Lane, Wolverhampton, Bilston, West Midlands Licence Holder Address: Fernhill Road, Nr Newport, Sutton, Shropshire	Waste Licence: Yes Site Reference: NYCC/340, 0700/NYCC340, NE3964 Waste Type: - Environmental Permitting Regulations (Waste) Reference: YP3/L/WAL001 Licence Issue: 08/06/1978 Licence Surrender: 18/08/2010	Operator: Parkhill - Darlaston Lane Landfill Site Licence Holder: Parkhill - Darlaston Lane Landfill Site First Recorded - Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	21
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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 71 >](#)

ID	Location	Address	Further Details	Date
1	On site	Site Address: Bilston Stove & Steel Co, Hare Street, BILSTON, West Midlands, WV14 7DX	Type of Site: Waste Treatment (Conversion) Planning application reference: 00/1037 Description: Change of use from manufacturing to waste management activities. Construction - brick, brick cladding walls; pitched roof. An application (ref: 00/1037) for Detailed Planning permission was withdrawn from Wolverhampton Borough Council. Tender details e currently unavailable. Detailed plans were withdrawn October, 2000. (22/11/2000) Data source: Historic Planning Application Data Type: Point	-
2	46m NE	Site Address: Former Starr Road, Transport De, Vulcan Road, Bilston, West Midlands, WV14 7LF	Type of Site: Scrap Yard (Conversion) Planning application reference: 13/01194/FUL Description: Scheme comprises change of use to scrap yard with associated office units and weighbridge. Data source: Historic Planning Application Data Type: Point	10/02/2014
5	197m NE	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1982
C	244m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
C	245m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1981
C	245m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
C	245m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980



ID	Location	Address	Further Details	Date
C	245m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
C	245m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
C	245m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1989
C	276m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
C	277m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
G	473m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
G	474m W	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
H	481m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1965
F	481m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980



ID	Location	Address	Further Details	Date
F	481m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
F	481m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
H	481m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
J	484m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964
J	486m SW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1964

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

3.6 Licensed waste sites

Records within 500m

9

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

Features are displayed on the Waste and landfill map on [page 71](#) >



ID	Location	Details		
A	171m E	Site Name: R Slater Metals Ltd Site Address: Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SLA003 EPR reference: - Operator: R Slater Metals Ltd Waste Management licence No: 42225 Annual Tonnage: 0	Issue Date: 27/04/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	172m E	Site Name: B & A Metals Midlands Ltd Site Address: Land/ Premises At, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BAM001 EPR reference: EA/EPR/YP3896FQ/T002 Operator: B & A Metals Midlands Ltd Waste Management licence No: 42225 Annual Tonnage: 24999	Issue Date: 27/04/1992 Effective Date: 11/08/2005 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
A	172m E	Site Name: Bilston Metal Recycling Ltd Site Address: Dale Street, Bilston, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIL014 EPR reference: EA/EPR/MP3898VG/A001 Operator: Bilston Metal Recycling Ltd Waste Management licence No: 101979 Annual Tonnage: 74999	Issue Date: 24/09/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked



ID	Location	Details		
A	172m E	Site Name: Bilston Metal Recycling Ltd Site Address: Dale Street, Bilston, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIL014 EPR reference: EA/EPR/MP3898VG/A001 Operator: Bilston Metal Recycling Ltd Waste Management licence No: 101979 Annual Tonnage: 74999	Issue Date: 24/09/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
6	199m E	Site Name: Sita - Dale Street Site Address: Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SIT007 EPR reference: EA/EPR/HP3596FP/S004 Operator: Sita Wastecare Ltd Waste Management licence No: 41810 Annual Tonnage: 72800	Issue Date: 09/06/1988 Effective Date: 04/08/2000 Modified: 18/07/2001 Surrendered Date: 20/11/2002 Expiry Date: - Cancelled Date: - Status: Surrendered
B	270m E	Site Name: Farmers Scrap Metal Ltd Site Address: Unit 2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FAR005 EPR reference: EA/EPR/HB3707TG/T001 Operator: Farmers Scrap Metal Ltd Waste Management licence No: 100431 Annual Tonnage: 4999	Issue Date: 22/01/2009 Effective Date: 11/10/2019 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred

ID	Location	Details		
B	274m E	Site Name: P E Metals Ltd Site Address: Yard 3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PEM001 EPR reference: EA/EPR/RP3496FK/A001 Operator: P E Metals Ltd Waste Management licence No: 42194 Annual Tonnage: 5000	Issue Date: 14/06/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
10	412m E	Site Name: Cooksey Reclamation Ltd Site Address: Unit 2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COO037 EPR reference: EA/EPR/CB3135RF/A001 Operator: Cooksey Reclamation Ltd Waste Management licence No: 100431 Annual Tonnage: 4999	Issue Date: 22/01/2009 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
13	498m SE	Site Name: Wolverhampton Van Spares Site Address: Ice House, Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7DP Correspondence Address: -	Type of Site: Vehicle Depollution Facility 5000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: WVS001 EPR reference: EA/EPR/PB3431AU/A001 Operator: Wolverhampton Van Spares Limited Waste Management licence No: 400199 Annual Tonnage: 4999	Issue Date: 22/04/2013 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

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



3.7 Waste exemptions

Records within 500m

19

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 71 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
3	66m NE	UNIT 1, DALE STREET, BILSTON, WV14 7JY	WEX148865	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	139m E	DALE STREET, BILSTON, WV14 7JY	WEX235988	Using waste exemption	Not on a farm	Use of waste in construction
4	150m NW	-	WEX355709	Disposing of waste exemption	Not on a farm	Burning waste in the open
B	216m E	DALE HOUSE, DALE STREET, BILSTON, WOLVERHAMPTON, WV14 7JY	WEX124406	Storing waste exemption	Not on a farm	Storage of waste in a secure place
B	258m E	Unit 3, Dale Street, Bilston, Wolverhampton, WV147JY	WEX245227	Using waste exemption	Not on a farm	Use of waste in construction
D	274m SE	Oxford Street Industrial Park Unit C Vulcan Road BILSTON West Midlands WV14 7LF	EPR/VE5282YJ /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
D	316m SE	OXFORD STREET INDUSTRIAL PARK, VULCAN ROAD, BILSTON, WV14 7LF	WEX229415	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	316m SE	OXFORD STREET INDUSTRIAL PARK, VULCAN ROAD, BILSTON, WV14 7LF	WEX085000	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	393m SE	-	WEX230831	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
E	393m SE	-	WEX230831	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
E	393m SE	-	WEX230831	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	393m SE	-	WEX349509	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste

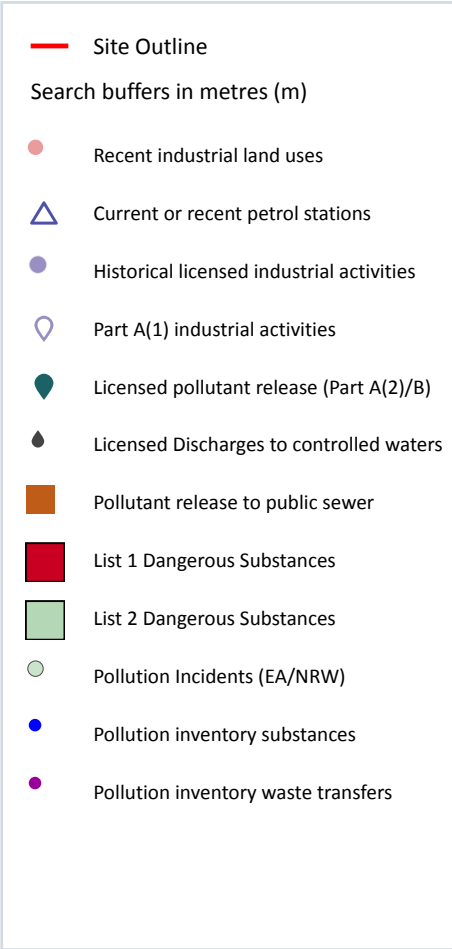
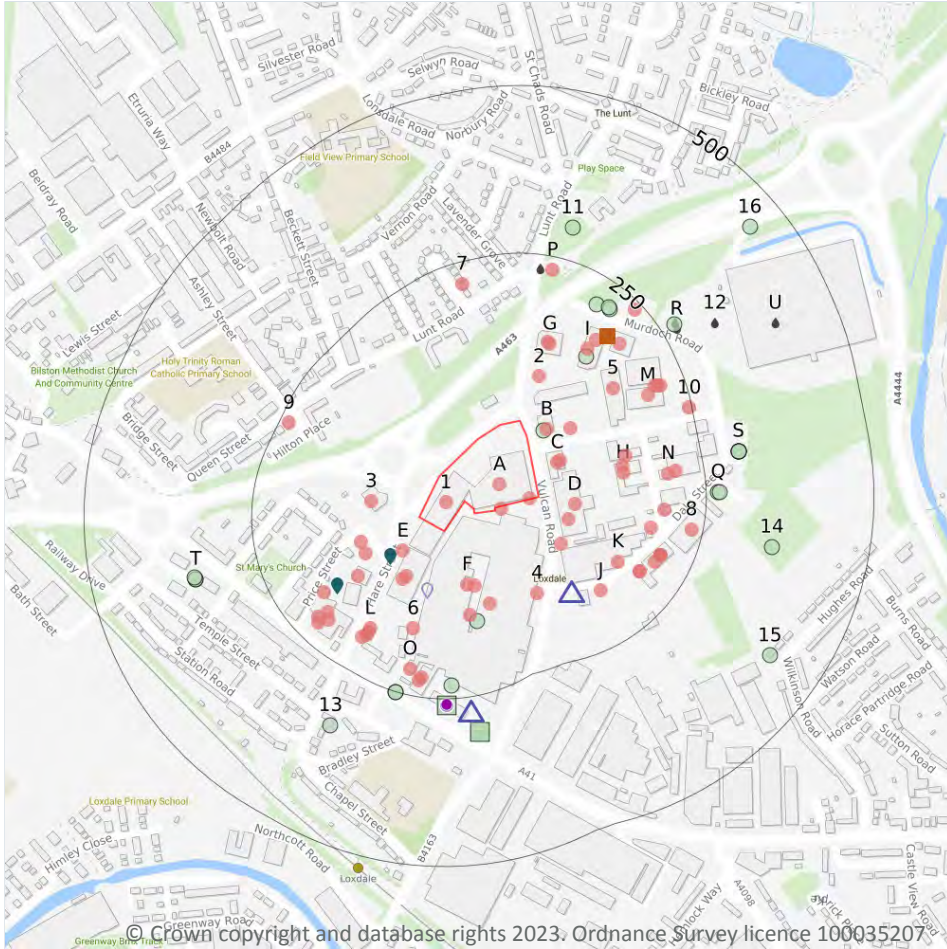


ID	Location	Site	Reference	Category	Sub-Category	Description
E	393m SE	-	WEX349509	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	393m SE	-	WEX349509	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	484m SE	Unit 1, Bilston Industrial Estate Oxford Street Bilston West Midlands WV14 7EG	EPR/AH0813Q B/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
I	484m SE	Unit 1, Bilston Industrial Estate Oxford Street Bilston West Midlands WV14 7EG	EPR/AH0813Q B/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
K	486m S	Unit 5b Stag Industrial East Oxford Street Bilston WV14 7HZ	EA/EPR/VP374 5HZ/A001	Treating waste exemption	Non-Agricultural Waste Only	Repair or refurbishment of WEEE
K	492m S	Stag Industrial Estate Unit 5b Oxford Street BILSTON West Midlands WV14 7HZ	EPR/EF0638CR /A001	Storing waste exemption	Agricultural Waste Only	Storage of waste in a secure place
12	495m S	2 Stag Industrial Estate Bilston WV14 7HZ	EPR/UE5883N P/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place

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



4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m 68

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 82](#) >

ID	Location	Company	Address	Activity	Category
1	On site	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
A	On site	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
A	On site	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
A	3m SE	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
B	32m NE	Autosales Ltd	-, Vulcan Road, Wolverhampton, West Midlands, WV14 7JW	New Vehicles	Motoring
C	37m E	Smart Car Detailing	Smart Building, Vulcan Road, Bilston, West Midlands, WV14 7JW	Vehicle Cleaning Services	Personal, Consumer and Other Services
C	41m E	Jungle Juice Hydroponics	Flat 1 Smart Building, Vulcan Road, Wolverhampton, West Midlands, WV14 7HT	Horticultural Equipment	Industrial Products
D	55m E	Ramsay	Ramsay Rubber, Vulcan Road, Wolverhampton, West Midlands, WV14 7HT	Seals, Tapes, Taps and Valves	Industrial Products
D	56m SE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
E	56m SW	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
B	66m NE	Rebecca Louise Logistics	Land East of Auto Sales, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JW	Distribution and Haulage	Transport, Storage and Delivery
2	72m NE	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
3	75m W	Greenhous	Volkswagen Van Centre, Trinity Road, Wolverhampton, West Midlands, WV14 7EF	New Vehicles	Motoring
D	77m SE	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
E	86m SW	Midlands Car Care	Ashiks Kebabs, Hare Street, Wolverhampton, West Midlands, WV14 7DX	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	86m S	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
E	93m SW	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
F	93m S	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
E	95m SW	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
E	96m SW	CPL Petroleum	-, Trinity Road, Wolverhampton, West Midlands, WV14 7EF	Fuel Distributors and Suppliers	Household, Office, Leisure and Garden
G	124m NE	Parker Precision	-, Vulcan Road, Wolverhampton, West Midlands, WV14 7HW	Precision Engineers	Engineering Services
G	124m NE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
E	127m SW	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
F	128m S	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
F	130m S	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
H	130m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
H	131m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
4	138m SE	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
H	139m E	E Aston & Son Ltd	-, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Distribution and Haulage	Transport, Storage and Delivery
5	147m NE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
I	147m NE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
6	152m SW	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
K	152m SE	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
I	166m NE	D S Willetts Stainless Ltd	-, Murdoch Road, Wolverhampton, West Midlands, WV14 7HG	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
J	167m SE	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
K	173m E	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
L	180m SW	First Engineering Services	Flat 1 Beazer House, Hare Street, Wolverhampton, West Midlands, WV14 7DX	Bearing, Gear and Drive Elements	Industrial Products
E	181m SW	S S Concrete Mix Ltd	Price Street, -, Wolverhampton, West Midlands, WV14	Construction Completion Services	Construction Services
K	186m SE	Omega Scaffolding Solutions Ltd	2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Construction and Tool Hire	Hire Services



ID	Location	Company	Address	Activity	Category
K	186m SE	Joint Welding & Fabrications Ltd	2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	General Construction Supplies	Industrial Products
L	186m SW	M & E James Engineering Services	Flat 2 Beazer House, Hare Street, Wolverhampton, West Midlands, WV14 7DX	Vehicle Components	Industrial Products
K	188m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
I	188m NE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
M	191m NE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
L	192m SW	Mako Precision Holding	Flat 3 Beazer House, Hare Street, Wolverhampton, West Midlands, WV14 7DX	Precision Engineers	Engineering Services
N	197m E	J R Wooddisse & Co Ltd	J R Wooddisse and Company, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7LE	Disability and Mobility Equipment	Consumer Products
E	197m SW	Merridale Laycock	-, Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7EA	Special Purpose Machinery and Equipment	Industrial Products
L	197m SW	Gas Governor Station	West Midlands, WV14	Gas Features	Infrastructure and Facilities
K	199m SE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
K	202m SE	Cooper Mobile	3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Vehicle Repair, Testing and Servicing	Repair and Servicing
K	202m SE	P E Metals Ltd	3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Scrap Metal Merchants	Recycling Services
K	202m SE	Cooper Group UK	3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	205m SW	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
M	205m NE	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
N	207m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features



ID	Location	Company	Address	Activity	Category
M	210m NE	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
O	211m S	Oxford Street Garage	Oxford Street Service Station, Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7DR	Vehicle Repair, Testing and Servicing	Repair and Servicing
E	213m SW	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
M	214m NE	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
E	218m SW	Owens of Bilston Ltd	-, Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7EA	Secondhand Vehicles	Motoring
7	218m N	A B Waste Collection	27, Garden Walk, Wolverhampton, West Midlands, WV14 7HU	Recycling, Reclamation and Disposal	Recycling Services
O	221m S	Euro Stock Traders Ltd	136, Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7DP	Baby, Nursery and Playground Equipment	Consumer Products
O	225m S	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
P	230m N	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
8	233m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
9	236m W	Mobile Valeting	49, Queen Street, Bilston, Wolverhampton, West Midlands, WV14 7ER	Vehicle Cleaning Services	Personal, Consumer and Other Services
I	238m NE	Gas Valve Station	West Midlands, WV14	Gas Features	Infrastructure and Facilities
10	246m E	Beck & Pollitzer	-, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7HQ	Construction Completion Services	Construction Services

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 82 >](#)



ID	Location	Company	Address	LPG	Status
J	149m SE	GULF	Vulcan Road, Bilston, West Midlands, WV14 7JW	Not Applicable	Obsolete
O	271m S	OBSOLETE	Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7EA	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m **0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m **0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m **0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m **0**

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

6

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.

Features are displayed on the Current industrial land use map on [page 82 >](#)

ID	Location	Details	
O	259m S	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: AS5423	Original Permit Number: IPCAIRAPP Date Approved: 29-12-1995 Effective Date: 1-1-1996 Status: Superseded By Variation
O	259m S	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BA1451	Original Permit Number: IPCMINVAR Date Approved: 26-7-1999 Effective Date: 26-7-1999 Status: Superseded By Variation
O	259m S	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BD2080	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation

ID	Location	Details	
O	259m S	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BG9625	Original Permit Number: IPCMINVAR Date Approved: 9-9-1999 Effective Date: 13-9-1999 Status: Superseded By Variation
O	259m S	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BI5876	Original Permit Number: IPCMINVAR Date Approved: 17-7-2000 Effective Date: 17-7-2000 Status: Superseded By Variation
O	259m S	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BK3522	Original Permit Number: IPCMAJVAR Date Approved: 23-4-2001 Effective Date: 30-4-2001 Status: Revoked - Now Ippc

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 82 >](#)

ID	Location	Details	
E	93m SW	Operator: E.ON CONNECTING ENERGIES LIMITED Installation Name: Mueller Europe Ltd Process: ASSOCIATED PROCESS Permit Number: XP3805PY Original Permit Number: XP3805PY	EPR Reference: EPR/XP3805PY Issue Date: 23/10/2019 Effective Date: 23/10/2019 Last date noted as effective: 25/05/2023 Status: Effective
O	259m S	Operator: MUELLER EUROPE LIMITED Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BJ9843IH Original Permit Number: BJ9843IH	EPR Reference: EPR/BJ9843IH Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 25/05/2023 Status: Effective



ID	Location	Details	
O	259m S	Operator: MUELLER EUROPE LIMITED Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BJ9843IH Original Permit Number: BJ9843IH	EPR Reference: EPR/BJ9843IH Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 25/05/2023 Status: Effective
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: BILSTON COPPER SHAFT FURNACE Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: GP3139QS Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/12/2018 Status: DETERMINATION
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BX1292 Original Permit Number: BJ9843	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BX1292 Original Permit Number: BJ9843	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BJ9843 Original Permit Number: BJ9843	EPR Reference: - Issue Date: 31/03/2003 Effective Date: 31/03/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BJ9843 Original Permit Number: BJ9843	EPR Reference: - Issue Date: 31/03/2003 Effective Date: 31/03/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: BILSTON COPPER SHAFT FURNACE Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: ZP3236QW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 24/10/2019 Effective Date: 24/10/2019 Last date noted as effective: 15/05/2020 Status: EFFECTIVE



ID	Location	Details	
O	259m S	Operator: MUELLER EUROPE LTD Installation Name: BILSTON COPPER SHAFT FURNACE Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: ZP3236QW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 24/10/2019 Effective Date: 24/10/2019 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
O	259m S	Operator: Mueller Europe Limited Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: LP3805BR Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 21/03/2023 Status: Effective
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: CP3238JE Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 01/02/2018 Effective Date: 01/02/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: GP3139QS Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 06/11/2018 Effective Date: 06/11/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: PP3232JV Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 04/06/2018 Effective Date: 04/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: RP3532ST Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: LP3036XX Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/08/2008 Effective Date: 08/08/2008 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: PP3232JV Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 04/06/2018 Effective Date: 04/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: RP3532ST Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: TP3433AW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/04/2015 Effective Date: 08/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: ZP3236QW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 24/10/2019 Effective Date: 24/10/2019 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Limited Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: LP3805BR Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BX1292IY Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 26/01/2004 Effective Date: 26/01/2004 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: LP3036XX Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/08/2008 Effective Date: 08/08/2008 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: PP3232JV Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 04/06/2018 Effective Date: 04/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BX1292IY Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 26/01/2004 Effective Date: 26/01/2004 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: CP3238JE Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 01/02/2018 Effective Date: 01/02/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: EP3137FT Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 07/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: GP3139QS Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 06/11/2018 Effective Date: 06/11/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: CP3238JE Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 01/02/2018 Effective Date: 01/02/2018 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: EP3137FT Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 07/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: EP3137FT Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 07/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: LP3036XX Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/08/2008 Effective Date: 08/08/2008 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: RP3532ST Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: TP3433AW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/04/2015 Effective Date: 08/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded
O	259m S	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: TP3433AW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/04/2015 Effective Date: 08/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded

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

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

Records within 500m	2
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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 82 >](#)

ID	Location	Address	Details	
E	73m SW	Vehicle Services Limited, Hare Street, Bilston, Wolverhampton, WV14 7DX	Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
E	160m SW	SS Concrete Mix Ltd, Price Street, Bilston, WV14 7EE	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0
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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

7

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

Features are displayed on the Current industrial land use map on [page 82 >](#)

ID	Location	Address	Details	
P	228m N	DOCK MEADOW CSO, WILLINGWORTH CLOSE, BILSTON, WEST MIDLANDS, WV14 9YQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/08/07832/O Permit Version: 1 Receiving Water: BILSTON/DARLASTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 20/09/1979 Effective Date: 20/09/1979 Revocation Date: 30/03/2010
P	228m N	DOCK MEADOW CSO, WILLINGWORTH CLOSE, BILSTON, WEST MIDLANDS, WV14 9YQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/08/07832/O Permit Version: 2 Receiving Water: BILSTON/DARLASTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 02/02/2010 Effective Date: 31/03/2010 Revocation Date: 07/08/2018
R	271m NE	LUNT ROAD CSO, LUNT ROAD, BILSTON, WEST MIDLANDS, WV14 7HF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: EPRHB3896EB Permit Version: 1 Receiving Water: DARLASTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 09/08/2018 Effective Date: 09/08/2018 Revocation Date: -
R	273m NE	QUEEN STREET CSO, WV14 7HG	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC1609 Permit Version: 1 Receiving Water: BILSTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
12	325m NE	LUNT ROAD, WV14 7HQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC1179 Permit Version: 1 Receiving Water: BILSTON BROOK REM	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
U	407m NE	CITADEL JUNCTION, BLACK COUNTRY NEW ROAD, DARLASTON	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/08/35168/T Permit Version: 1 Receiving Water: DARLASTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/01/1998 Effective Date: 13/01/1998 Revocation Date: 30/09/1998



ID	Location	Address	Details	
U	407m NE	CITADEL JUNCTION, BLACK COUNTRY NEW ROAD, DARLASTON	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/08/35168/T Permit Version: 1 Receiving Water: DARLASTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/01/1998 Effective Date: 13/01/1998 Revocation Date: 30/09/1998

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
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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	1
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Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on [page 82 >](#)

ID	Location	Address	Details	
I	181m NE	MF HAWKINS AND SONS (ELECTROPLATERS) LTD, MURDOCK ROAD, MURDOCK ROAD, BILSTON, WEST MIDLANDS, WV14 7HG	Permission reference: AG5013 Local Authority: WOLVERHAMPTON METROPOLITAN BOROUGH COUNCIL First received date: 01/06/2001	Last received date: 01/01/2018 Status: DEAD (APPLICATION)

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

4.16 List 1 Dangerous Substances

Records within 500m	1
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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.

Features are displayed on the Current industrial land use map on [page 82 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
O	259m S	Mueller Europe Ltd, Bilston	Not Active	-	Cadmium



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

4.17 List 2 Dangerous Substances

Records within 500m

4

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.

Features are displayed on the Current industrial land use map on [page 82 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
O	259m S	Mueller Europe Limited, Bilston, Wv14 7ds	Active	Upper Tame To Conf Rea	Copper, Lead, pH, Zinc
O	304m S	Wednesbury Tube & Fittings Co	Active	River Tame	Copper, Zinc
O	304m S	Wednesbury Tube & Fittings Co	Active	River Tame	Copper, Zinc
O	304m S	Wednesbury Tube And Fittings Company Limited, Oxfo	Active	-	Copper, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

25

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 82 >](#)

ID	Location	Details	
B	27m NE	Incident Date: 22/02/2002 Incident Identification: 60108 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	137m NE	Incident Date: 27/09/2003 Incident Identification: 192849 Pollutant: Atmospheric Pollutants and Effects:Specific Waste Materials Pollutant Description: Smoke:Tyres	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)



ID	Location	Details	
F	141m S	Incident Date: 04/07/2001 Incident Identification: 13576 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
I	208m NE	Incident Date: 12/08/2002 Incident Identification: 99447 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
I	214m NE	Incident Date: 19/08/2001 Incident Identification: 30473 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
I	215m NE	Incident Date: 12/07/2001 Incident Identification: 22372 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
O	230m S	Incident Date: 19/12/2001 Incident Identification: 48971 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
O	251m S	Incident Date: 20/08/2001 Incident Identification: 25504 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
O	251m S	Incident Date: 20/08/2001 Incident Identification: 25504 Pollutant: Oils and Fuel Pollutant Description: Petrol	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	267m E	Incident Date: 09/07/2003 Incident Identification: 172218 Pollutant: Atmospheric Pollutants and Effects:Contaminated Water Pollutant Description: Fumes:Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	270m E	Incident Date: 20/05/2003 Incident Identification: 159667 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
R	272m NE	Incident Date: 06/01/2009 Incident Identification: 644348 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 1 (Major) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)



ID	Location	Details	
11	298m N	Incident Date: 19/04/2003 Incident Identification: 152519 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
S	305m E	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
S	305m E	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Atmospheric Pollutants and Effects:Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Smoke:Commercial Waste:Household Waste:Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
S	305m E	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
S	305m E	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
S	305m E	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
13	335m SW	Incident Date: 19/06/2003 Incident Identification: 167345 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
T	345m W	Incident Date: 02/01/2002 Incident Identification: 50223 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
T	345m W	Incident Date: 10/11/2001 Incident Identification: 42189 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
T	347m W	Incident Date: 09/07/2002 Incident Identification: 90225 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
14	355m E	Incident Date: 22/05/2002 Incident Identification: 80567 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
15	417m SE	Incident Date: 04/07/2002 Incident Identification: 89368 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
16	448m NE	Incident Date: 17/09/2003 Incident Identification: 190739 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	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	4
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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.

Features are displayed on the Current industrial land use map on [page 82 >](#)

ID: O, Location: 259m S, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Copper	10kg	56.9kg

ID: O, Location: 259m S, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - total	10000kg	Below Reporting Threshold
Air	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	1e-5kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold
Air	Chlorine and inorganic chlorine compounds - as HCl	10000kg	Below Reporting Threshold

ID: O, Location: 259m S, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon monoxide	100000kg	120319kg

ID: O, Location: 259m S, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	28kg

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

4.20 Pollution inventory waste transfers

Records within 500m	1
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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.

Features are displayed on the Current industrial land use map on [page 82 >](#)



ID: O, Location: 259m S, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	48.85	absolute value	07 02 13	waste plastic	No
R4	Recycling/reclamation of metals and metal compounds	52.07	absolute value	10 06 02	dross and skimmings from primary and secondary production	No
R4	Recycling/reclamation of metals and metal compounds	20.36	absolute value	12 01 04	non-ferrous metal dust and particles	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1.2	absolute value	15 01 02	plastic packaging	No
R4	Recycling/reclamation of metals and metal compounds	71.64	absolute value	16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	5.31	absolute value	20 01 01	paper and cardboard	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	152.27	absolute value	20 01 38	wood other than that mentioned in 20 01 37	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	75.1	absolute value	20 01 40	metals	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D1	Deposit into or onto land (eg landfill, etc.)	131.4	absolute value	20 03 01	mixed municipal waste	No
R7	recovery of components used for pollution abatement	28.7	absolute value	10 06 06	solid wastes from gas treatment	Yes
R9	Oil e-refining or other reuses of oil	8.74	absolute value	12 01 09	machining emulsions and solutions free of halogens	Yes
R4	Recycling/reclamation of metals and metal compounds	8.95	absolute value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R9	Oil e-refining or other reuses of oil	215.62	absolute value	13 08 02	other emulsions	Yes
D1	Deposit into or onto land (eg landfill, etc.)	9.78	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes

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

4.21 Pollution inventory radioactive waste

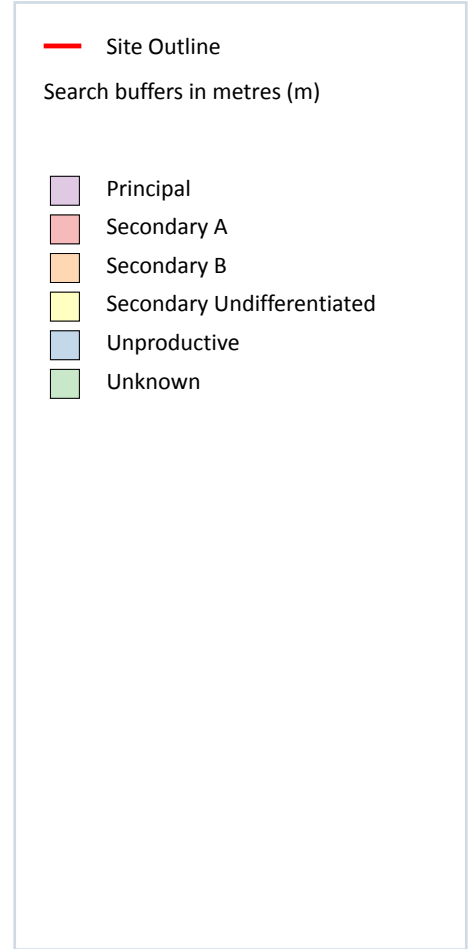
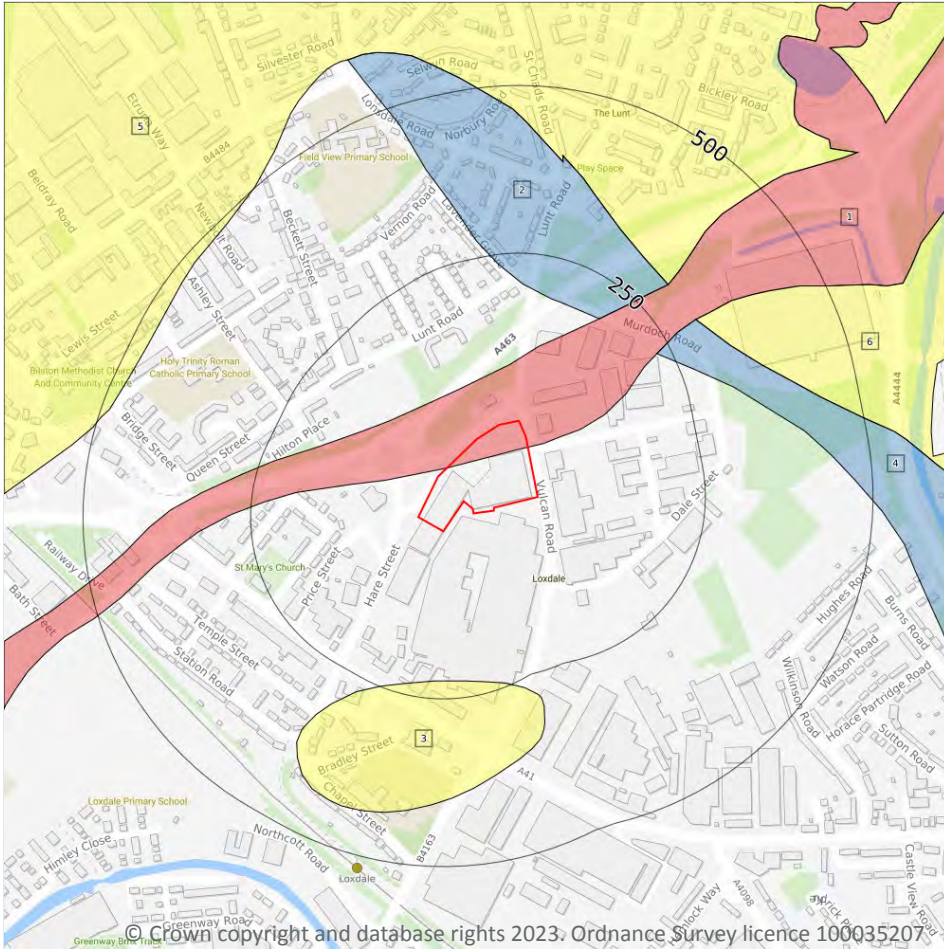
Records within 500m	0
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The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

6

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 105](#) >

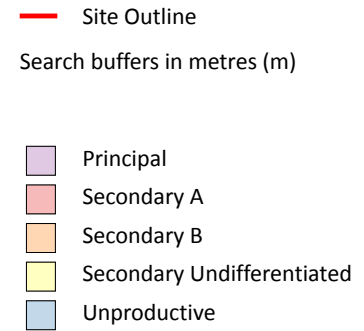
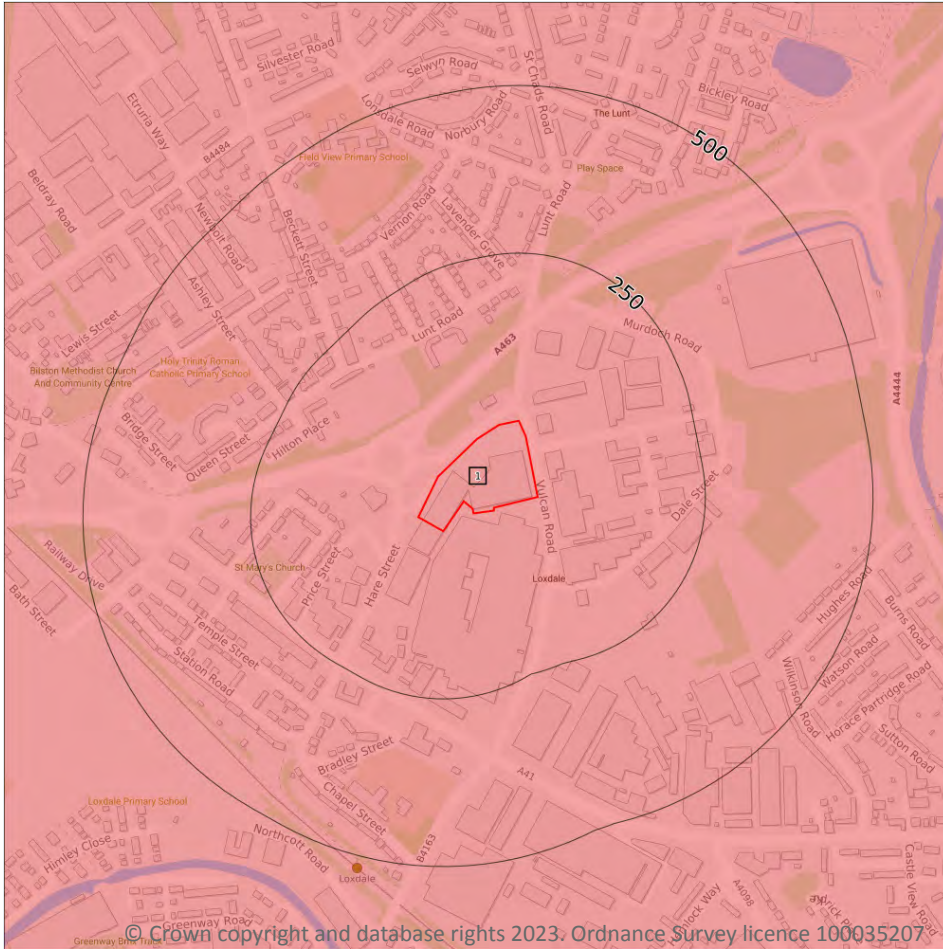
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	187m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	223m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	229m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	302m NE	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
6	304m NE	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



5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

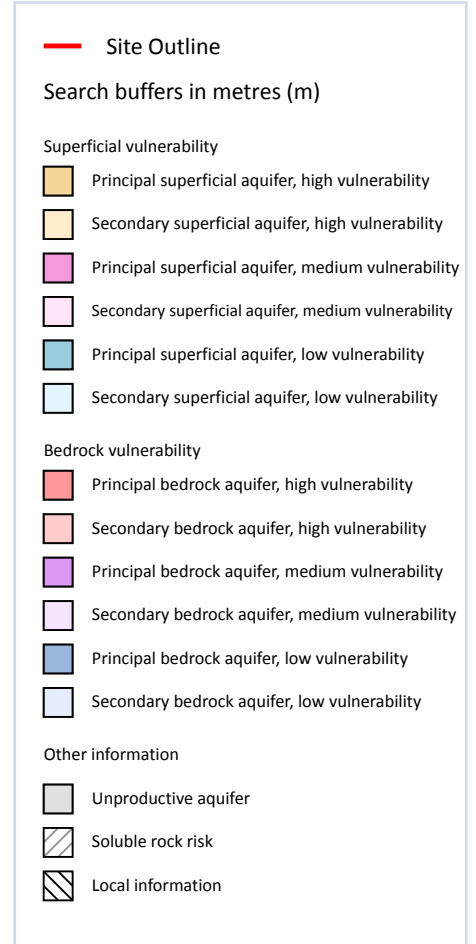
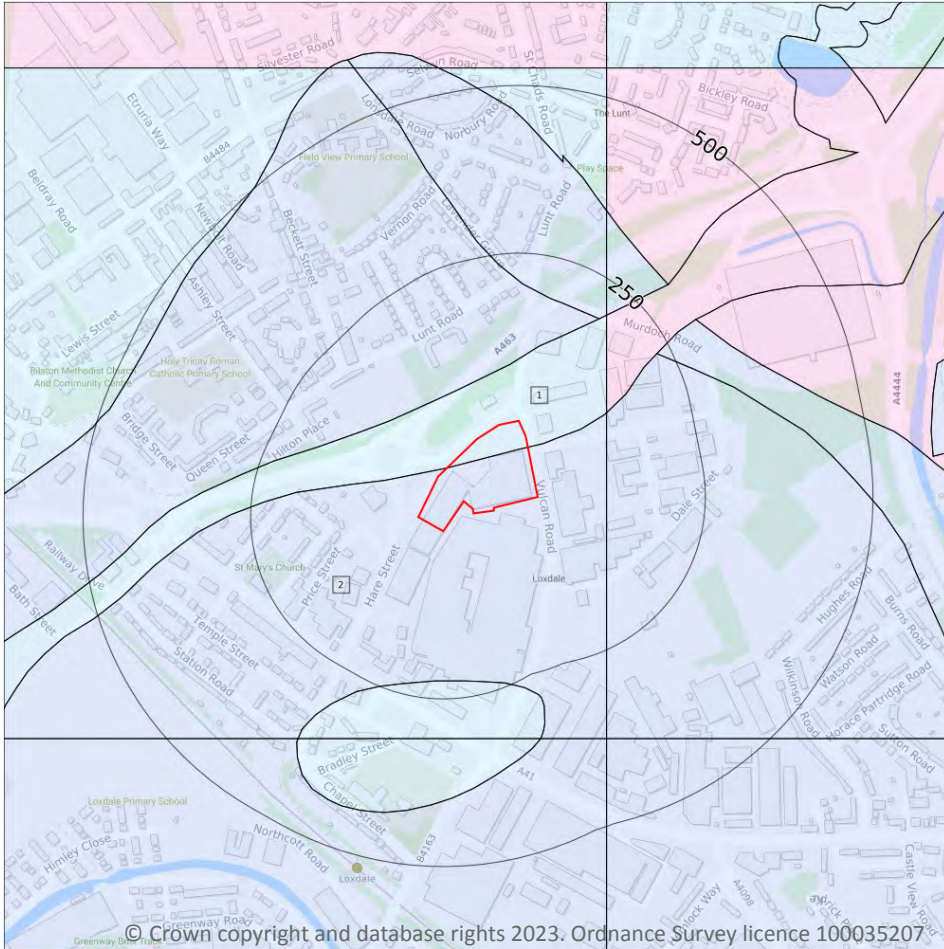
Features are displayed on the Bedrock aquifer map on [page 107 >](#)

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

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 108 >](#)

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low 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
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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.

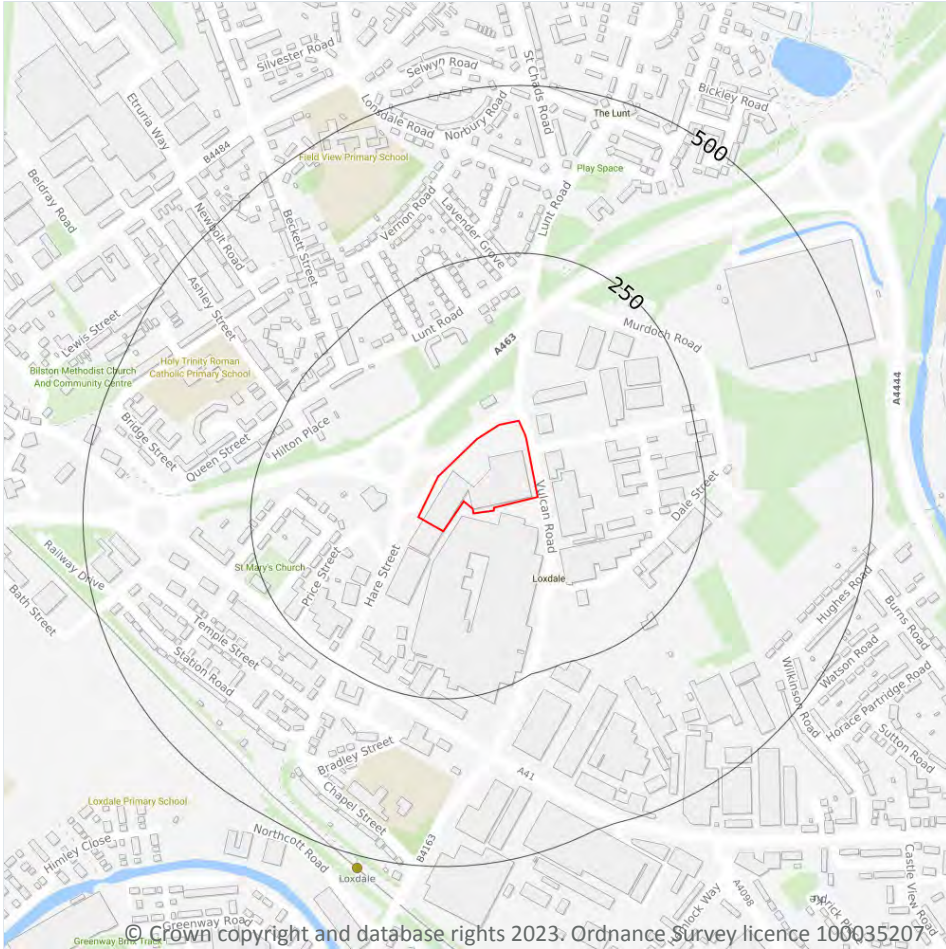
5.5 Groundwater vulnerability- local information

Records on site	0
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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



5.6 Groundwater abstractions

Records within 2000m

23

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 110](#) >

ID	Location	Details	
-	811m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: HAWKINS SHAFT - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 395700 Northing: 295500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	814m S	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "D") HAWKINS SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395688 Northing: 295498	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	821m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "D") HAWKINS SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395700 Northing: 295490	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	824m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: BOAT DOCK SHAFT - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 395600 Northing: 295500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	832m S	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "B") BOAT DOCK SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395647 Northing: 295484	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -



ID	Location	Details	
-	836m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "B") BOAT DOCK SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395650 Northing: 295480	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	1040m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: HERBERT'S PARK SHAFT 2 - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 396700 Northing: 297100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1040m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: HERBERT'S PARK SHAFT 1 - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 396700 Northing: 297100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1054m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E") HERBERT'S PARK SHAFT 2 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396710 Northing: 297110	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	1054m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E")HERBERT'S PARK SHAFT 1 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396710 Northing: 297110	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -



ID	Location	Details	
-	1056m NE	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E")HERBERT'S PARK SHAFT 1 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396714 Northing: 297109	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1066m NE	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E") HERBERT'S PARK SHAFT 2 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396718 Northing: 297119	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1120m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: BRADLEY SHAFT - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 395600 Northing: 295200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1133m S	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "A") BRADLEY SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395652 Northing: 295181	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1134m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "A") BRADLEY SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395650 Northing: 295180	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -



ID	Location	Details	
-	1421m SW	Status: Historical Licence No: 03/28/08/0193 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: CAPPONFIELD WORKS,BILSTON - MINESHAFT Data Type: Point Name: METABRASIVE LIMITED Easting: 394500 Northing: 295600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/01/1971 Expiry Date: - Issue No: 100 Version Start Date: 07/08/1980 Version End Date: -
-	1727m SW	Status: Historical Licence No: 03/28/08/0261 Details: Evaporative Cooling Direct Source: Groundwater Midlands Region Point: SPRINGVALE BUSINESS PARK,BILSTON - BOREHOLE Data Type: Point Name: METABRASIVE LIMITED Easting: 394140 Northing: 295630	Annual Volume (m ³): 201600 Max Daily Volume (m ³): 600 Original Application No: - Original Start Date: 06/12/1996 Expiry Date: - Issue No: 100 Version Start Date: 06/12/1996 Version End Date: -
-	1738m SW	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: DEEPFIELD SHAFT 1 - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 394600 Northing: 295000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1738m SW	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: DEEPFIELD SHAFT 2 - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 394600 Northing: 295000	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1777m SW	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "C") DEEPFIELD SHAFT 1 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 394584 Northing: 294963	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -



ID	Location	Details	
-	1778m SW	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "C") DEEPFIELD SHAFT 2 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 394584 Northing: 294961	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1782m SW	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "C") DEEPFIELD SHAFT 2 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 394580 Northing: 294960	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	1782m SW	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "C") DEEPFIELD SHAFT 1 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 394580 Northing: 294960	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

1

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 110](#) >



ID	Location	Details	
-	1321m SE	Status: Historical Licence No: 03/28/08/0063 Details: Non-Evaporative Cooling Direct Source: Surface Water Midlands Region Point: GLYNWED STEEL LTD PREMISES - BIRMINGHAM CANAL Data Type: Point Name: Canal and River Trust Easting: 396900 Northing: 295500	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 137 Original Application No: - Original Start Date: 22/09/1965 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2008 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.

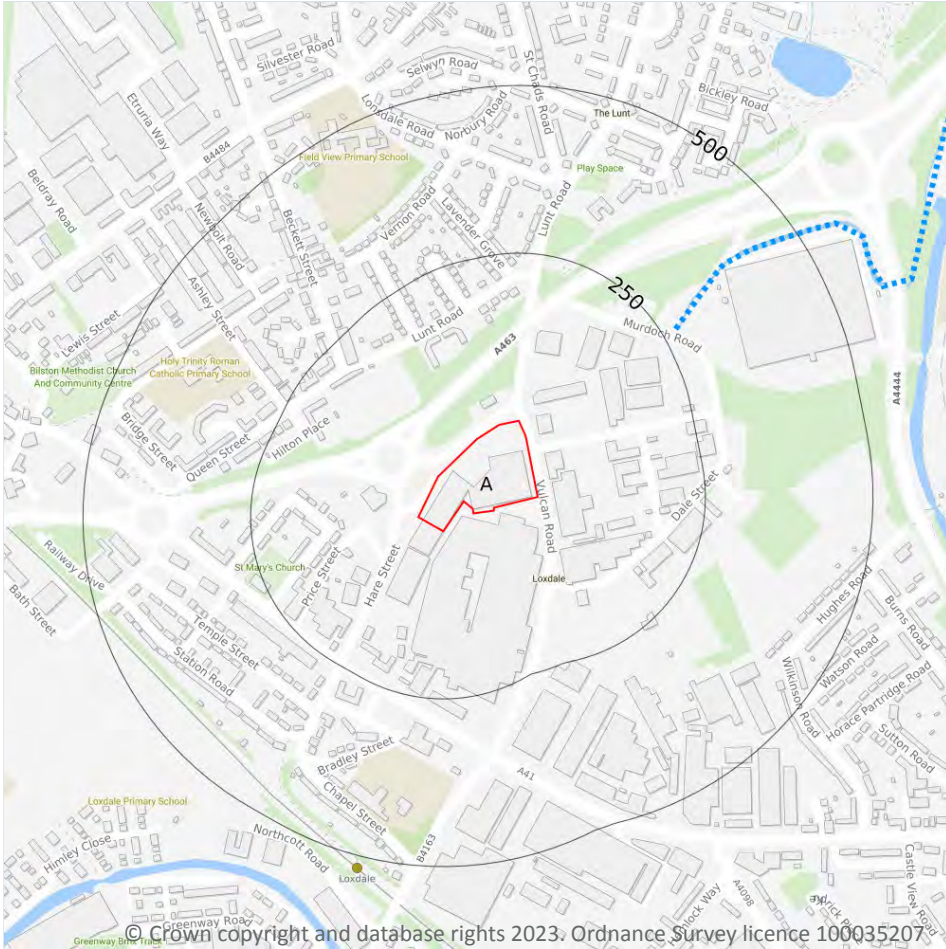
5.10 Source Protection Zones (confined aquifer)

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 **0**

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m **0**

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



This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 117 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Tame (W/ton Arm) source to conf Oldbury	GB104028046930	Tame Upper Rivers	Tame Anker and Mease

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 117 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	271m NE	River	Tame (W/ton Arm) source to conf Oldbury	GB104028046930 ↗	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.

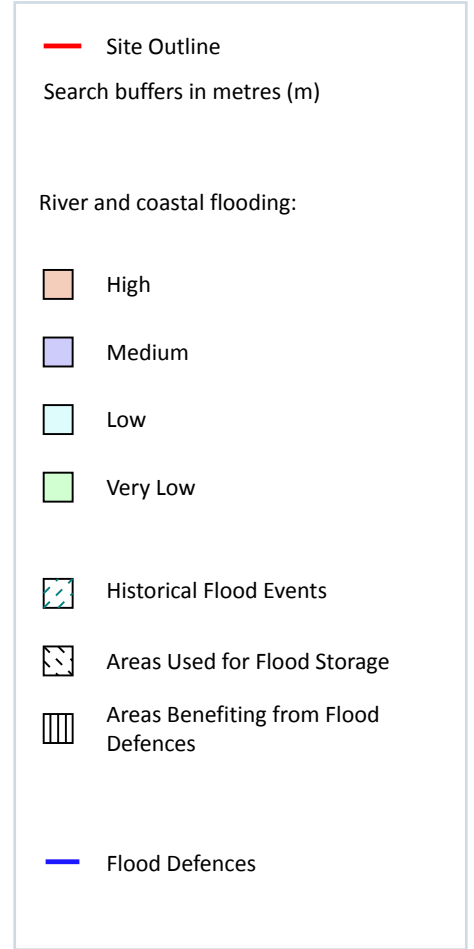
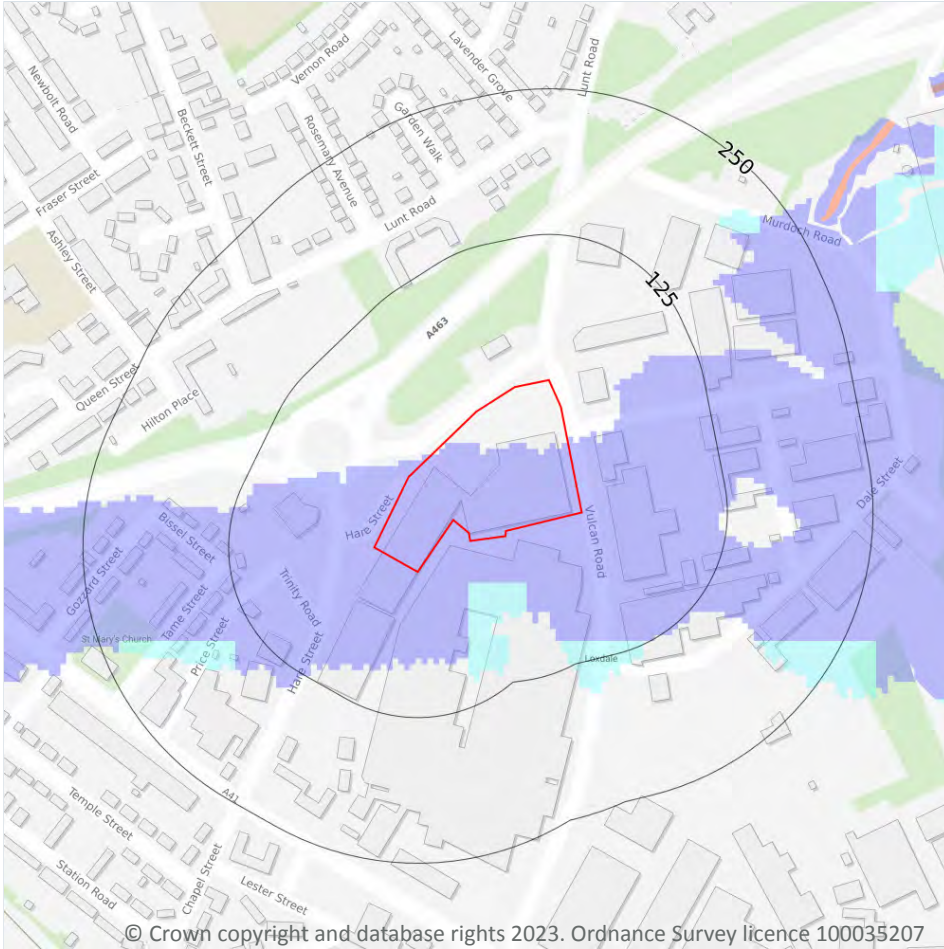
Features are displayed on the Hydrology map on [page 117 >](#)

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Tame Anker Mease - Coal Measures Black Country	GB40402G992400 ↗	Good	Good	Good	2019

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



7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

2

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).

Features are displayed on the River and coastal flooding map on [page 120 >](#)

Distance	Flood risk category
On site	Medium
0 - 50m	Medium

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

7.2 Historical Flood Events

Records within 250m **0**

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

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

7.3 Flood Defences

Records within 250m **0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m **0**

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

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

7.5 Flood Storage Areas

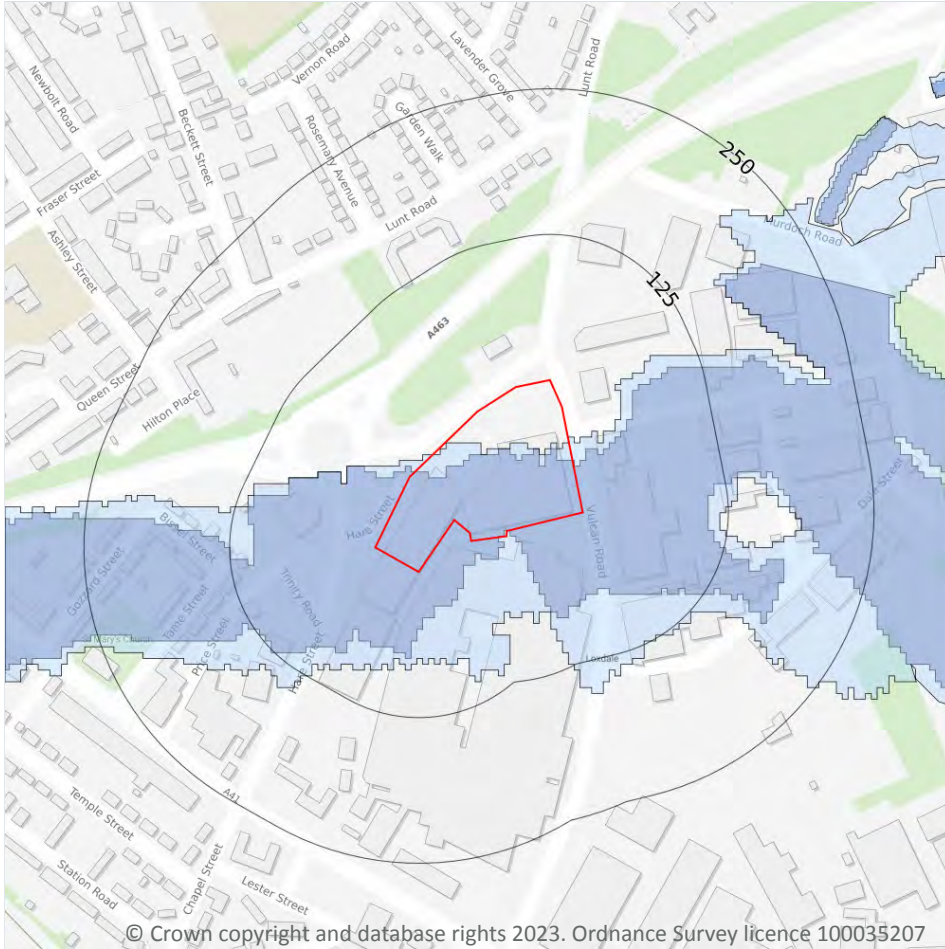
Records within 250m **0**

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

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



River and coastal flooding - Flood Zones



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

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 120 >](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

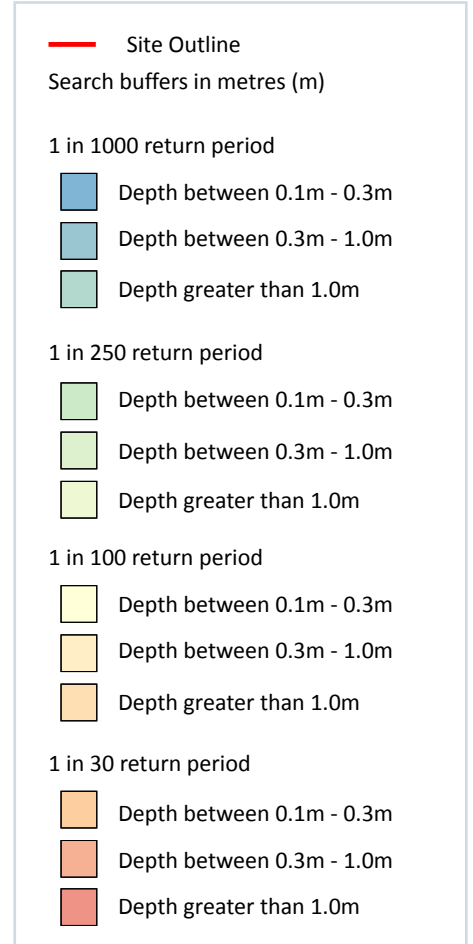
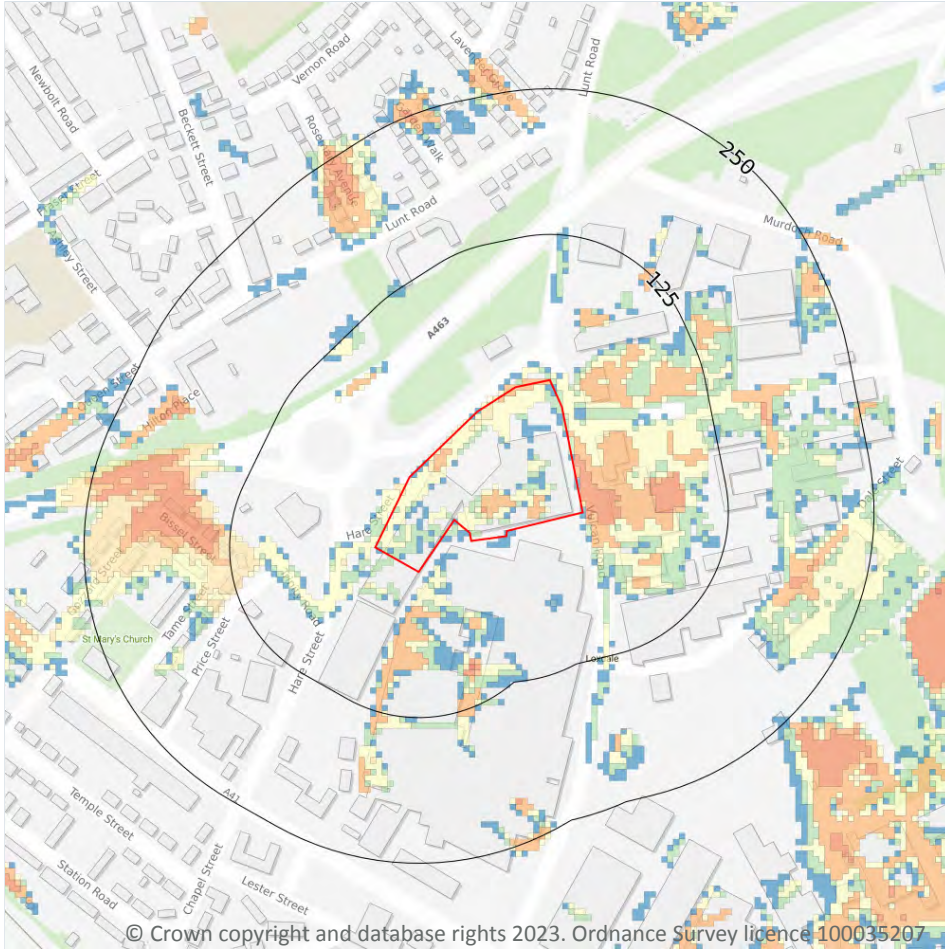
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on [page 120](#) >

Location	Type
On site	Zone 3 - (Fluvial /Tidal Models)

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

8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

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 124 >](#)

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.

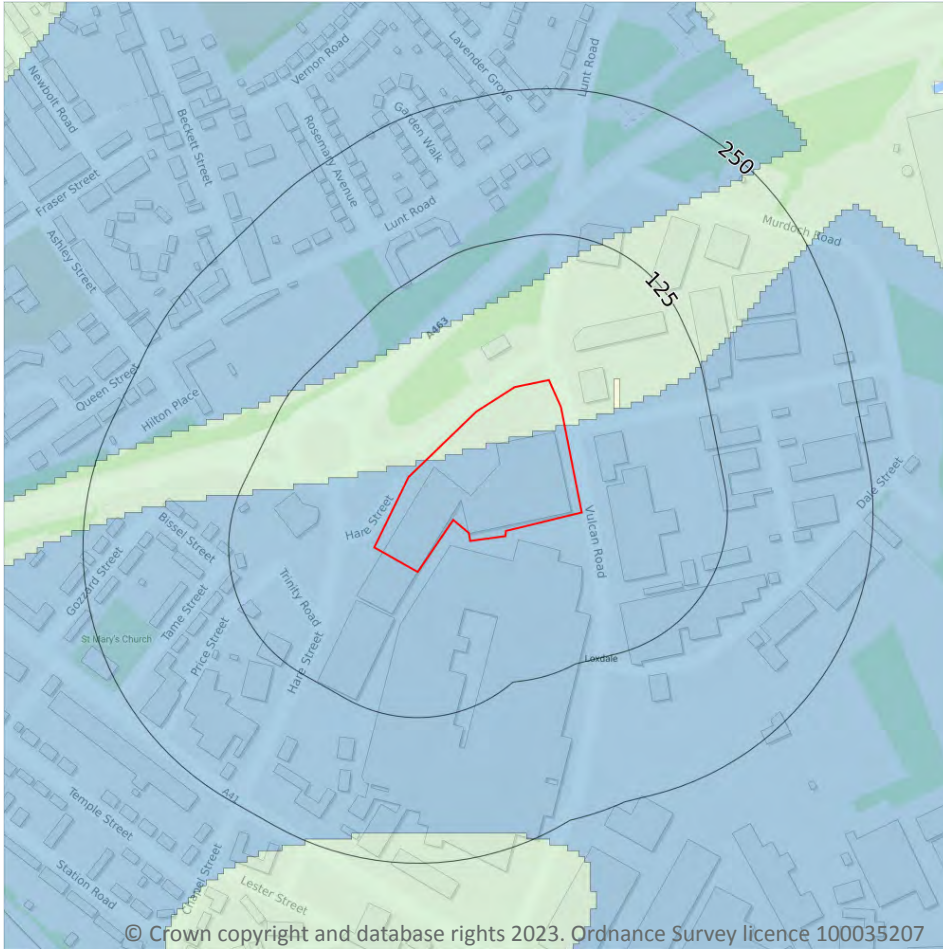
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

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 126 >](#)

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

2

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 127 >](#)

ID	Location	Name	Data source
1	1334m SE	Moorcroft Wood	Natural England
2	1452m SE	Moorcroft Wood	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

4

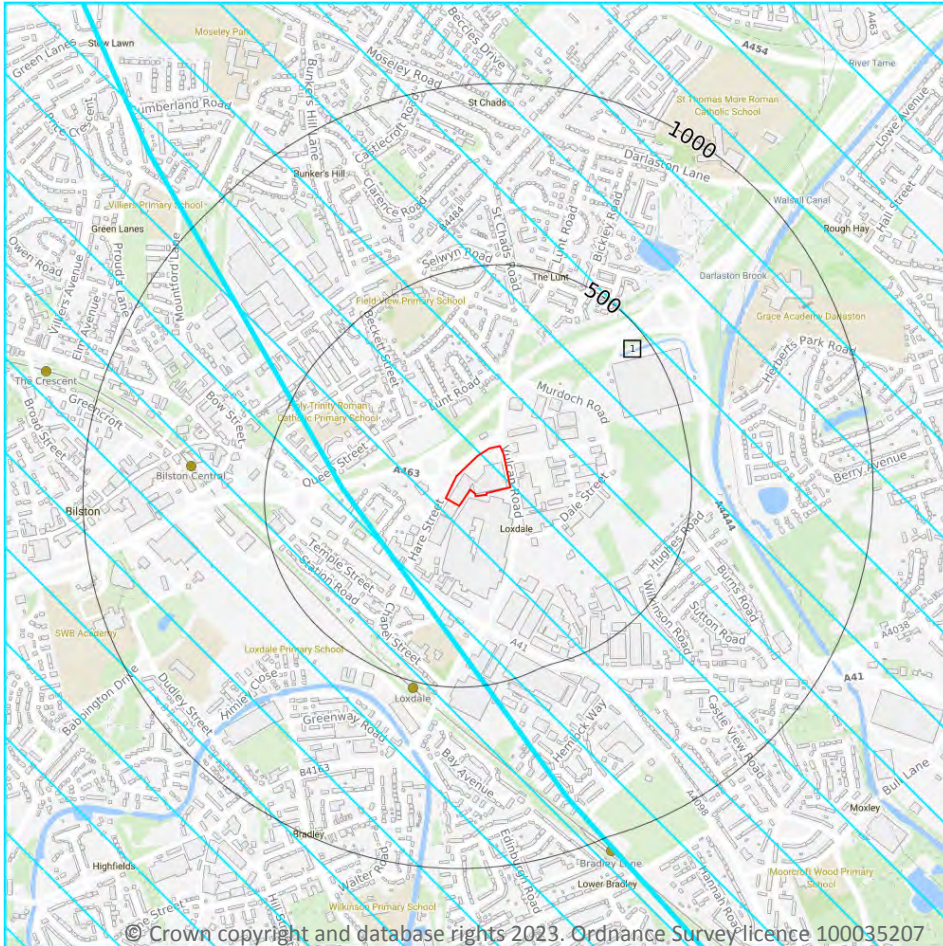
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
327m S	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
1627m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
1664m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on [page 132 >](#)

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

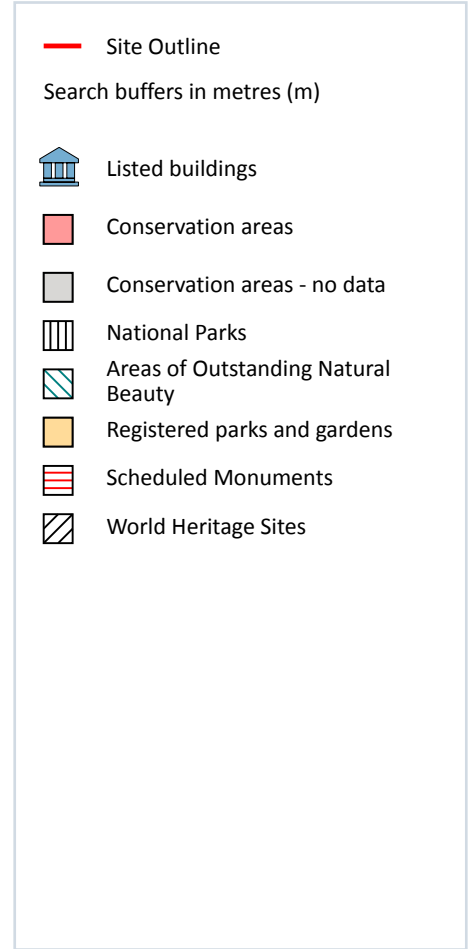
0

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

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



11 Visual and cultural designations



11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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

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

11.5 Conservation Areas

Records within 250m

1

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



Features are displayed on the Visual and cultural designations map on [page 134 >](#)

ID	Location	Name	District	Date of designation
1	On site	The Local Authority for this area have not supplied conservation area data.		-

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

11.6 Scheduled Ancient Monuments

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

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

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

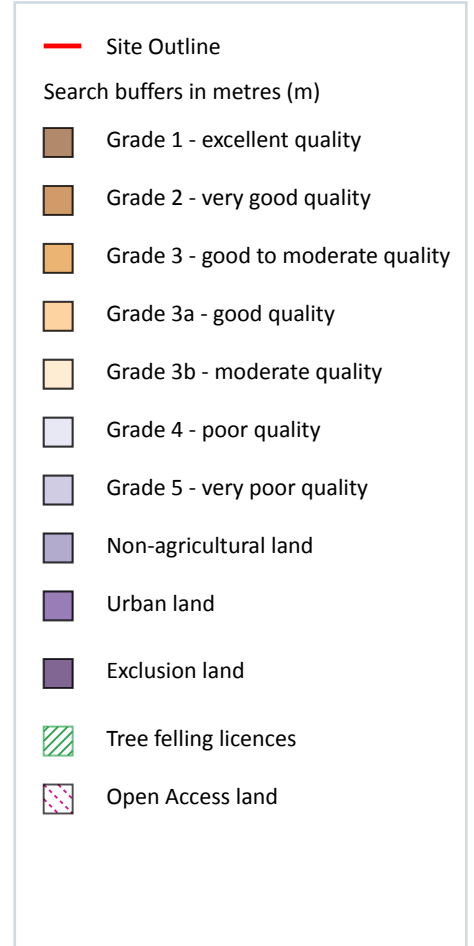
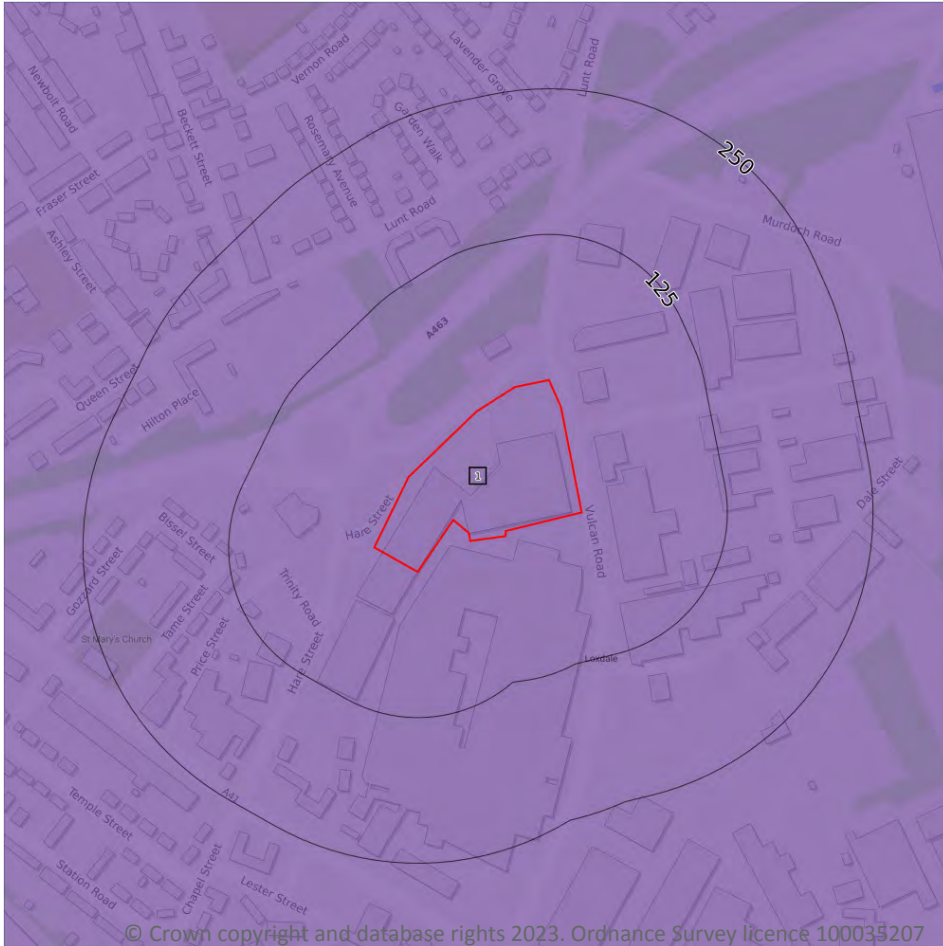
11.7 Registered Parks and Gardens

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

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

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

12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 137 >](#)

ID	Location	Classification	Description
----	----------	----------------	-------------

1	On site	Urban	-
---	---------	-------	---

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

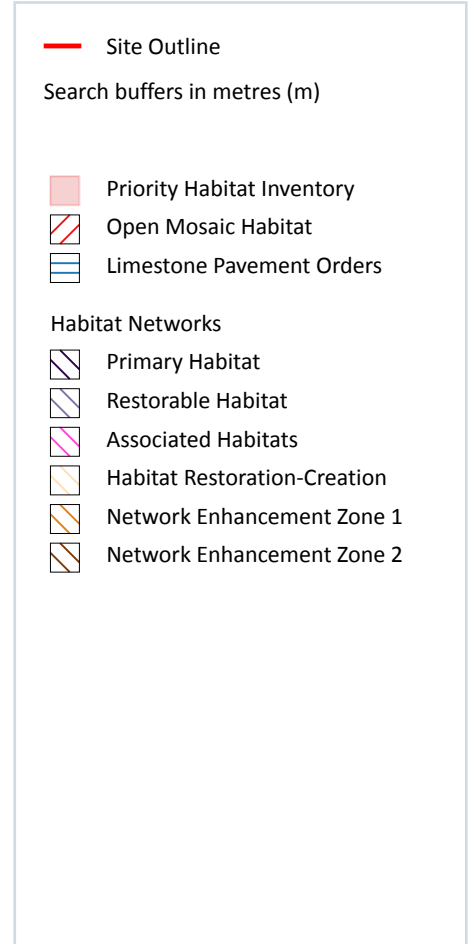
0

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

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m	1
----------------------------	----------

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

Features are displayed on the Habitat designations map on [page 139 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	146m N	NLUD Ref: 463500522	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

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

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

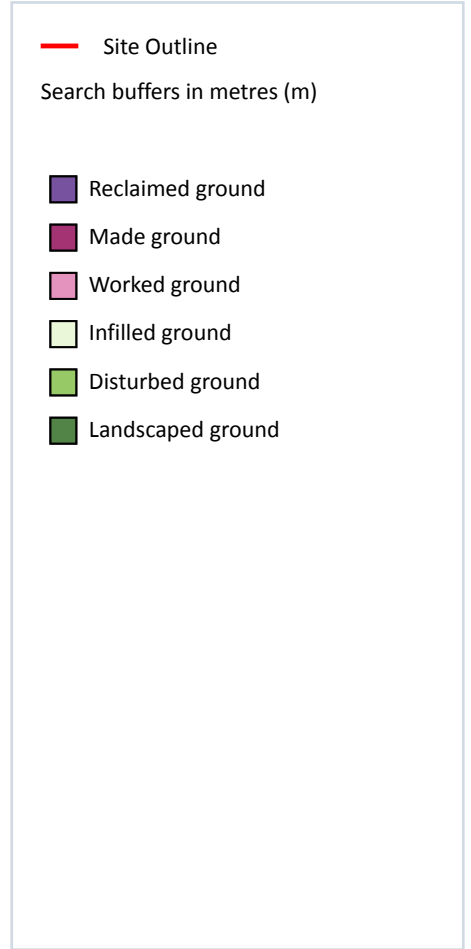
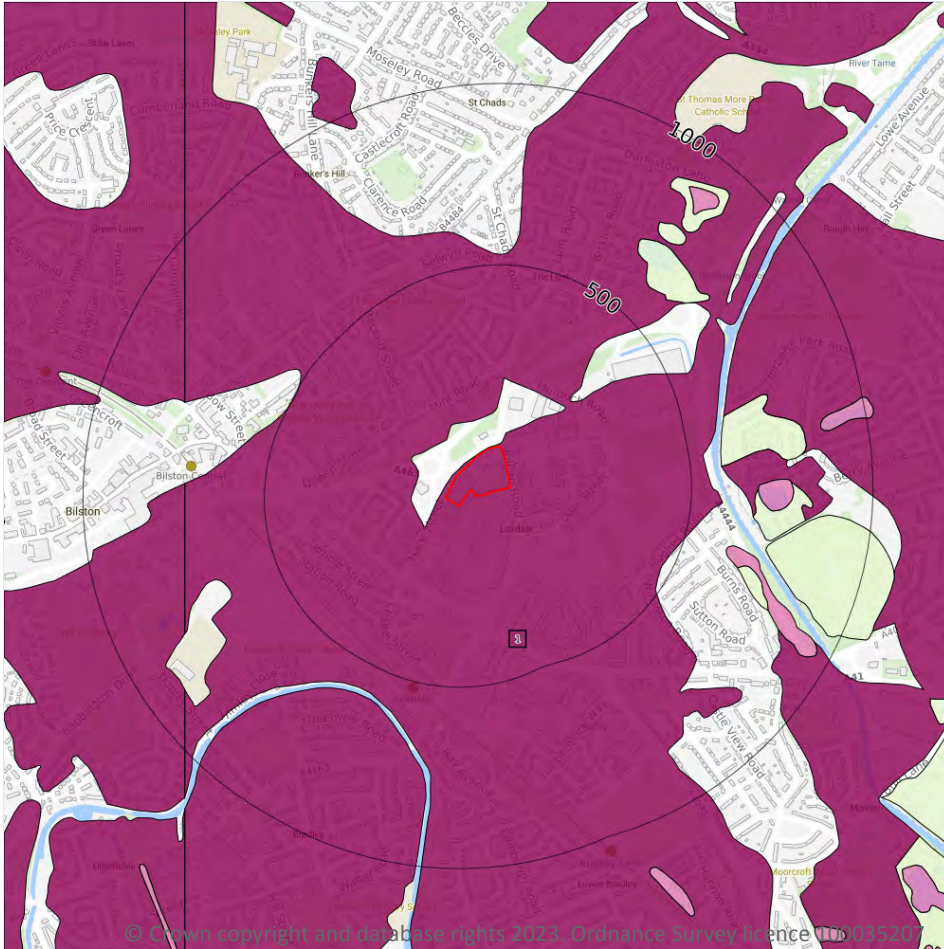
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 141](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SO99NE

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

1

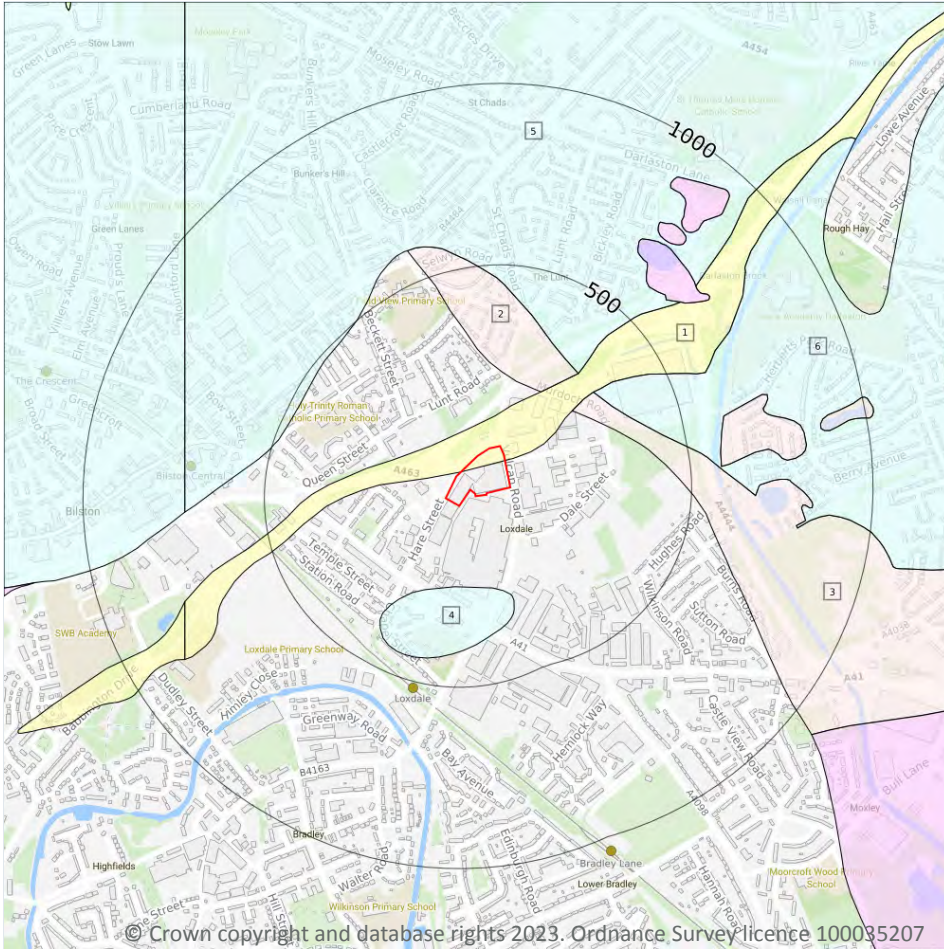
Details of made, worked, infilled, disturbed and landscaped ground at 1:10,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 142 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



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

14.3 Superficial geology (10k)

Records within 500m

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 143 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XSV	Alluvium - Sand And Gravel	Sand And Gravel
2	182m NE	GLLD-XCZ	Glaciolacustrine Deposits - Clay And Silt	Clay And Silt
3	222m NE	GLLD-XCZ	Glaciolacustrine Deposits - Clay And Silt	Clay And Silt
4	223m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
5	295m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	297m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

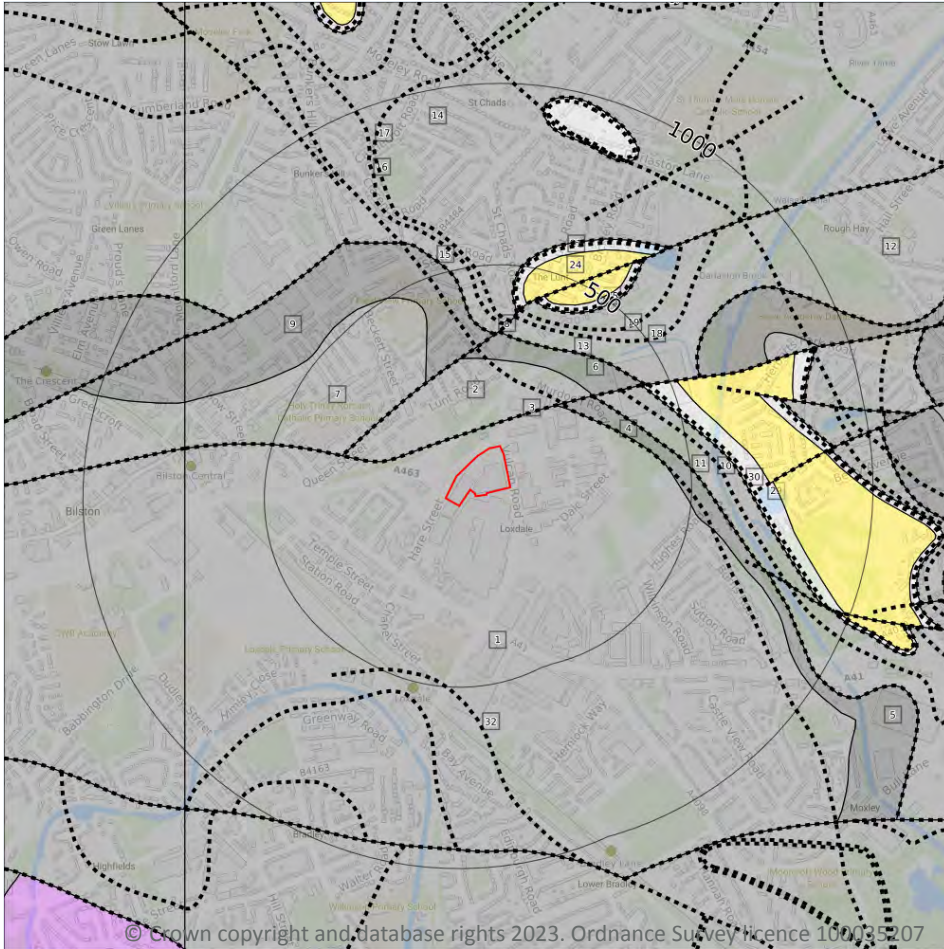
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (10k)
- Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m

14

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 145](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
2	60m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
5	191m NE	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
6	236m N	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age
7	246m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
9	246m NW	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age
10	289m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
12	295m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
14	309m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
21	369m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
24	399m N	NMCR-SDST	New Mine Coal Rock - Sandstone	Langsettian Sub-age
25	402m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
28	420m NE	NMCR-SDST	New Mine Coal Rock - Sandstone	Langsettian Sub-age
29	425m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

18

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 145 >](#)

ID	Location	Category	Description
3	60m N	FAULT	Normal fault, observed; crossmark on downthrow side
4	182m NE	LANDFORM	Buried channel or valley margin
8	246m NW	FAULT	Normal fault, observed; crossmark on downthrow side
11	289m NE	ROCK	Coal seam, inferred
13	295m N	ROCK	Coal seam, inferred

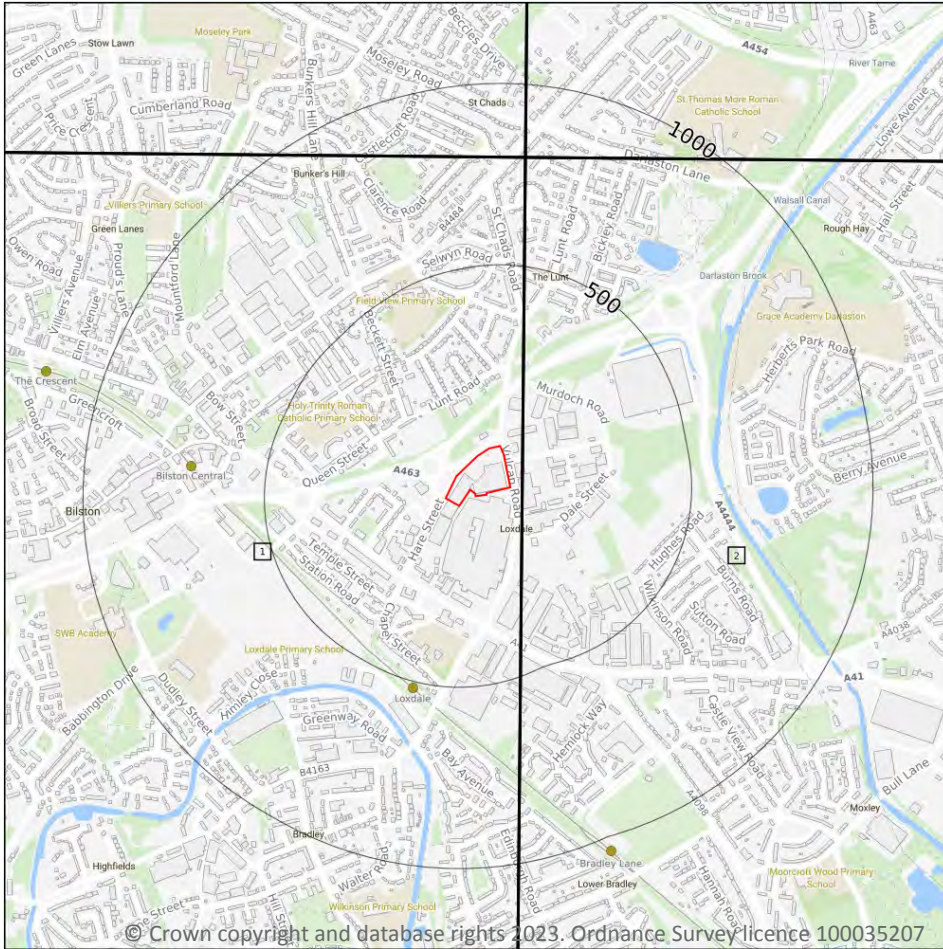


ID	Location	Category	Description
15	309m N	ROCK	Coal seam, inferred
16	337m N	ROCK	Coal seam, inferred
17	346m N	ROCK	Coal seam, inferred
18	347m N	ROCK	Coal seam, inferred
19	367m N	ROCK	Coal seam, inferred
20	369m NE	ROCK	Coal seam, inferred
22	370m N	FOSSIL_HORIZON	Fossil horizon, marine band
23	380m N	ROCK	Coal seam, inferred
26	402m N	FOSSIL_HORIZON	Fossil horizon, marine band
27	410m NE	ROCK	Coal seam, inferred
30	425m NE	FOSSIL_HORIZON	Fossil horizon, marine band
31	443m NE	ROCK	Coal seam, inferred
32	478m S	ROCK	Coal seam, inferred

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

2

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 148](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW167_dudley_v4
2	33m E	Full	Full	Full	Full	EW168_birmingham_v4

This data is sourced from the British Geological Survey.



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



— Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 149 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	33m E	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

1

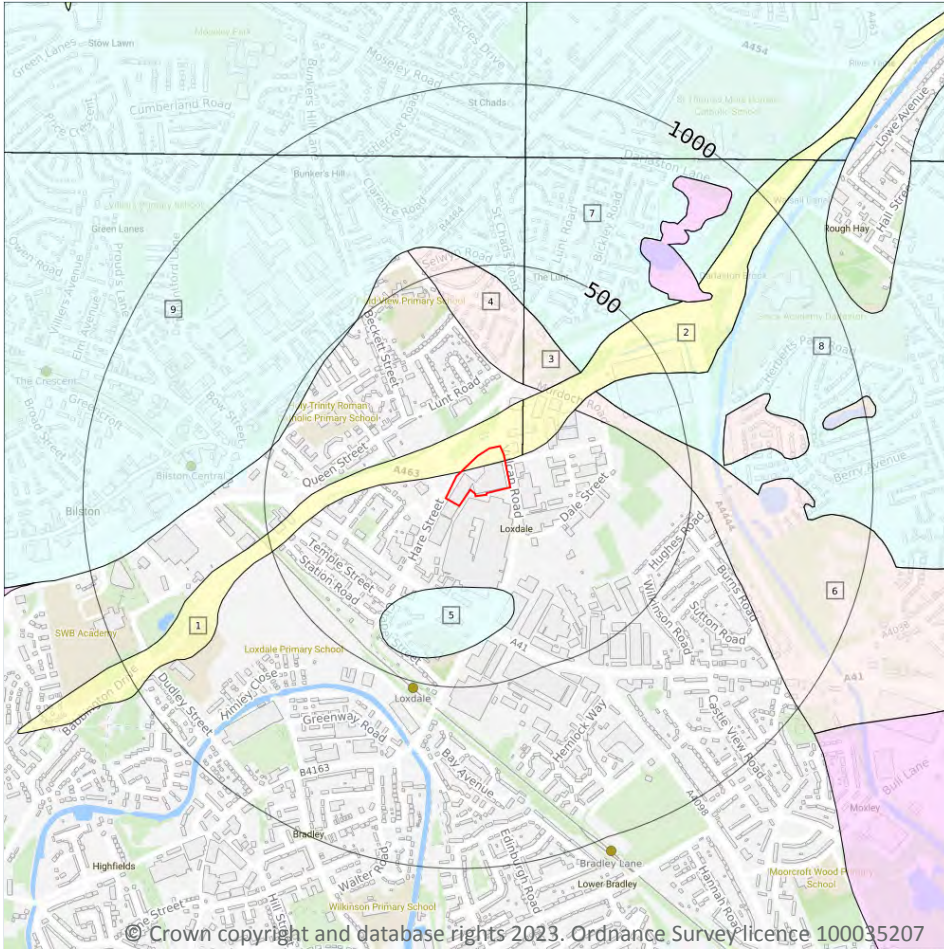
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

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

9

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 151](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XSV	ALLUVIUM	SAND AND GRAVEL
2	50m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	182m NE	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVANSIAN	CLAY AND SILT
4	182m NE	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVANSIAN	CLAY AND SILT



ID	Location	LEX Code	Description	Rock description
5	224m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	229m NE	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVENSIAN	CLAY AND SILT
7	302m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
8	304m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
9	392m N	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

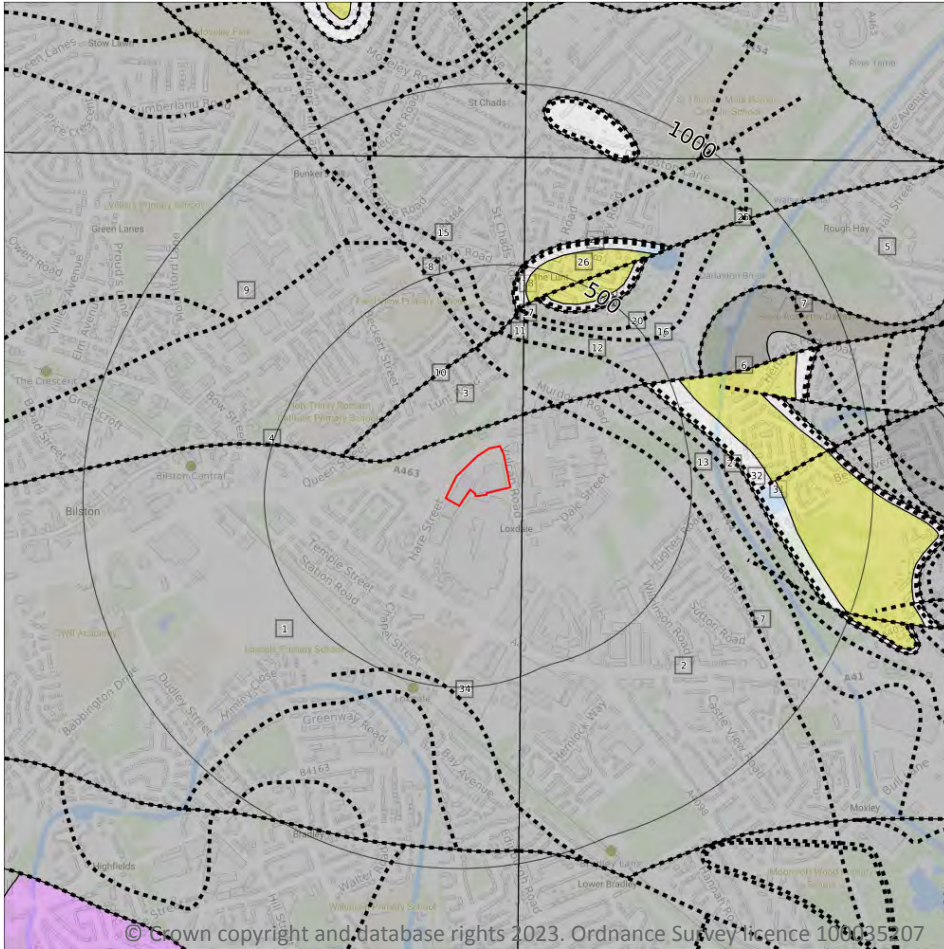
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

11

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 153](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	33m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
3	60m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	107m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	246m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	369m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
24	392m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
26	402m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
27	406m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
30	428m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
31	432m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

24

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.



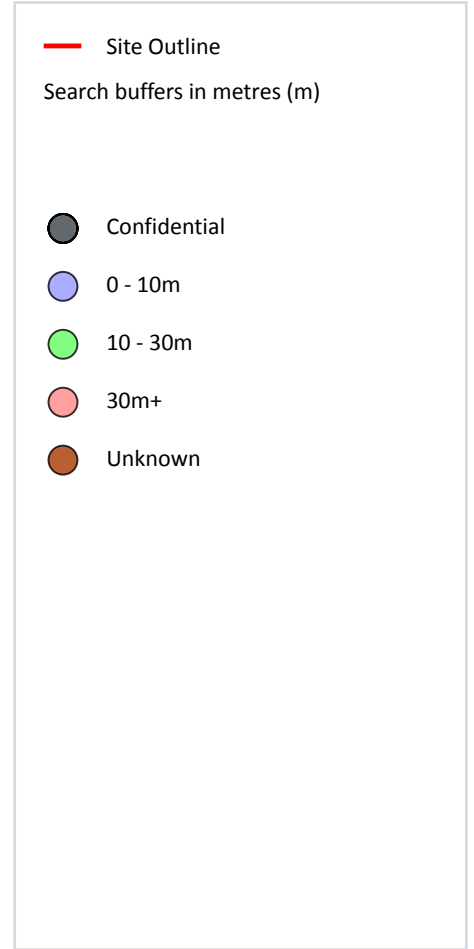
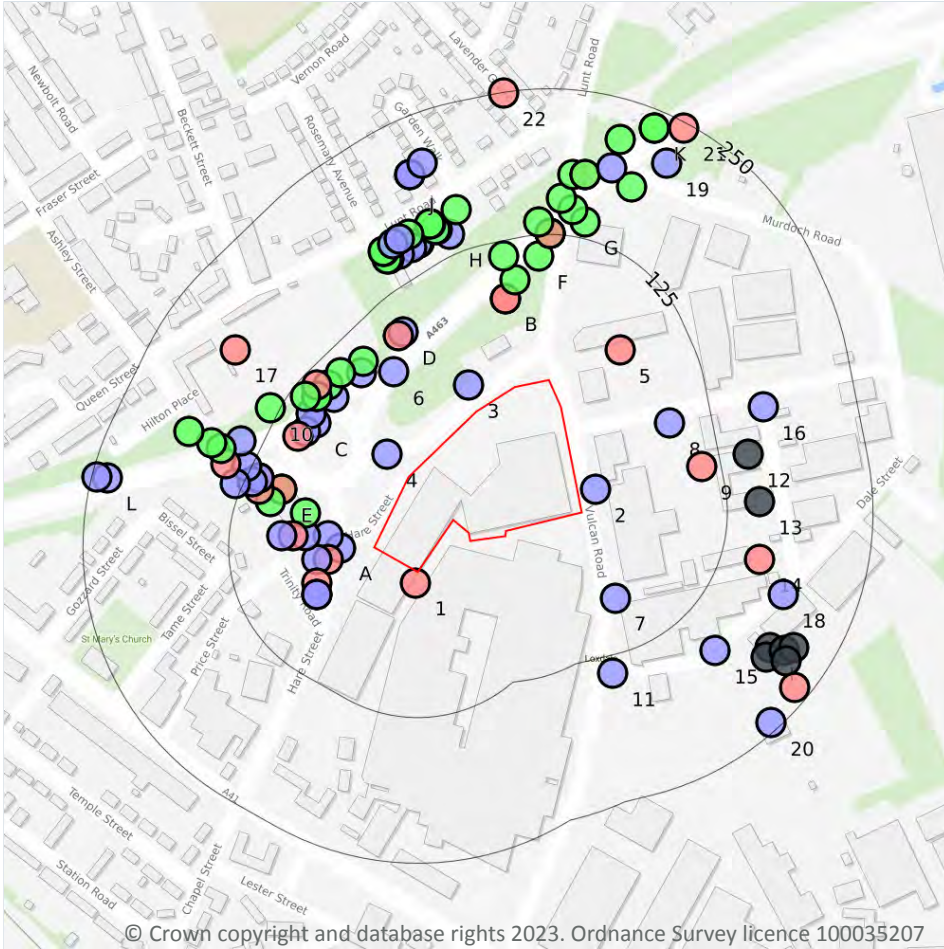
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 153 >](#)

ID	Location	Category	Description
4	60m N	FAULT	Fault, inferred
6	107m NE	FAULT	Fault, inferred
7	173m NE	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
8	188m N	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
10	246m NW	FAULT	Fault, inferred
11	296m N	ROCK	Coal seam, inferred
12	296m N	ROCK	Coal seam, inferred
13	297m NE	ROCK	Coal seam, inferred
14	309m N	ROCK	Coal seam, inferred
15	337m N	ROCK	Coal seam, inferred
16	350m N	ROCK	Coal seam, inferred
17	352m N	ROCK	Coal seam, inferred
19	369m N	FOSSIL_HORIZON	Marine band
20	370m N	ROCK	Coal seam, inferred
21	375m NE	ROCK	Coal seam, inferred
22	376m N	ROCK	Coal seam, inferred
23	380m N	ROCK	Coal seam, inferred
25	392m N	FAULT	Fault, inferred
28	406m N	FOSSIL_HORIZON	Marine band
29	415m N	ROCK	Coal seam, inferred
32	432m NE	FOSSIL_HORIZON	Marine band
33	450m NE	ROCK	Coal seam, inferred
34	478m S	ROCK	Coal seam, inferred
35	495m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

110

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 156 >](#)

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	9m SW	395755 296300	LUNT COLLIERY, SS MD 54/1	140.82	N	285539 ↗
2	15m E	395909 296380	VULCAN ROAD DALE STREET FWS BILSTON 2	6.0	N	287472 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	23m N	395800 296470	BLACK COUNTRY ROUTE - HARE STREET ROUNDABOUT HS3	6.5	N	17602695 ↗
4	27m W	395730 296410	BLACK COUNTRY ROUTE - HARE STREET ROUNDABOUT HS2	6.5	N	17602694 ↗
A	29m SW	395690 296330	BLACK COUNTRY ROUTE - HARE STREET ROUNDABOUT HS1	7.8	N	17602693 ↗
A	41m W	395680 296340	TRINITY ROAD BILSTON BH4	9.0	N	287824 ↗
A	41m SW	395680 296320	TRINITY ROAD BILSTON RO5	50.0	N	287835 ↗
A	50m SW	395670 296320	TRINITY ROAD BILSTON BH7	9.0	N	287827 ↗
A	58m SW	395670 296300	TRINITY ROAD BILSTON RO6	50.0	N	287836 ↗
A	60m W	395660 296340	TRINITY ROAD BILSTON BH5	9.0	N	287825 ↗
A	64m SW	395670 296290	TRINITY ROAD BILSTON BH8	8.0	N	287828 ↗
A	64m SW	395670 296290	BLACK COUNTRY ROUTE - HARE STREET ROUNDABOUT HS4	8.5	N	17602696 ↗
5	66m NE	395930 296500	S S MINE DRAINAGE COMMISSION 54/2	47.0	N	285566 ↗
A	66m W	395660 296360	TRINITY ROAD BILSTON BH3	12.0	N	287823 ↗
A	70m W	395650 296340	TRINITY ROAD BILSTON RO4	50.0	N	287834 ↗
6	74m NW	395736 296481	BLACK COUNTRY ROUTE BCR105J	7.95	N	17602778 ↗
B	76m N	395832 296544	BILSTON BLACK COUNTRY RD 107	48.0	N	287362 ↗
B	76m N	395832 296544	BLACK COUNTRY ROUTE - BILSTON B106	47.14	N	17602795 ↗
7	79m SE	395926 296287	VULCAN ROAD DALE STREET FWS BILSTON 3	5.55	N	287473 ↗
A	80m W	395640 296340	TRINITY ROAD BILSTON BH6	9.0	N	287826 ↗
8	89m E	395973 296437	VULCAN ROAD DALE STREET FWS BILSTON 8	5.05	N	287478 ↗
B	90m N	395840 296560	BLACK COUNTRY ROUTE 424C	12.5	N	17602815 ↗
C	92m W	395669 296437	BLACK COUNTRY ROUTE BCR105E	9.45	N	17602773 ↗
C	93m NW	395708 296480	BLACK COUNTRY ROUTE BCR105H	7.95	N	17602776 ↗
D	93m NW	395744 296515	BLACK COUNTRY ROUTE BCR106	9.05	N	17602779 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
E	93m W	395640 296380	TRINITY ROAD BILSTON BH1	13.04	N	287821 ↗
E	93m W	395640 296380	TRINITY ROAD BILSTON RO3	50.0	N	287833 ↗
C	93m NW	395685 296459	BLACK COUNTRY ROUTE BCR105G	9.45	N	17602775 ↗
D	93m NW	395740 296512	BLACK COUNTRY ROUTE - BILSTON B105	45.11	N	17602794 ↗
C	97m W	395660 296430	BLACK COUNTRY ROUTE 421	9.5	N	17602809 ↗
E	98m W	395630 296370	TRINITY ROAD BILSTON BH2	12.05	N	287822 ↗
C	98m NW	395710 296490	BLACK COUNTRY ROUTE 423	13.5	N	17602811 ↗
C	100m W	395665 296445	BLACK COUNTRY ROUTE BCR105F	8.85	N	17602774 ↗
C	101m W	395654 296426	BLACK COUNTRY ROUTE - BILSTON B103	42.92	N	17602793 ↗
C	105m NW	395680 296470	BLACK COUNTRY ROUTE B452	30.0	N	17602827 ↗
C	105m NW	395670 296460	BLACK COUNTRY ROUTE 422	18.5	N	17602810 ↗
C	105m NW	395670 296460	BLACK COUNTRY ROUTE 424	21.5	N	17602812 ↗
C	105m NW	395690 296480	BLACK COUNTRY ROUTE B451	30.0	N	17602826 ↗
F	107m N	395860 296580	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V3	18.0	N	17602671 ↗
9	108m E	396000 296400	BELDAM PACKING & RUBBER CO.	77.72	N	285061 ↗
E	111m W	395620 296380	TRINITY ROAD BILSTON RO2	50.0	N	287832 ↗
B	112m N	395830 296580	BLACK COUNTRY ROUTE 424A	14.5	N	17602813 ↗
C	112m NW	395670 296470	BLACK COUNTRY ROUTE B453	42.0	N	17602828 ↗
C	113m NW	395660 296460	BLACK COUNTRY ROUTE B454	30.0	N	17602829 ↗
E	115m W	395620 296390	TRINITY ROAD BILSTON RO1	50.0	N	287831 ↗
E	115m W	395620 296390	TRINITY ROAD BILSTON BH9A	9.68	N	287830 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
E	119m W	395615 296387	BLACK COUNTRY ROUTE BCR105D	8.95	N	17602772 ↗
F	126m N	395870 296600	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA3A	16.5	N	17602719 ↗
F	126m N	395870 296600	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA2	16.5	N	17602718 ↗
F	126m N	395870 296600	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE R26	60.0	N	17602662 ↗
E	129m W	395610 296400	TRINITY ROAD BILSTON BH9	4.0	N	287829 ↗
E	131m W	395600 296385	BLACK COUNTRY ROUTE BCR105C	10.0	N	17602771 ↗
10	133m W	395630 296450	BLACK COUNTRY ROUTE 420	11.5	N	17602808 ↗
F	136m N	395860 296610	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V4	11.5	N	17602672 ↗
G	140m N	395900 296610	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V2	16.0	N	17602670 ↗
11	141m SE	395924 296222	VULCAN ROAD DALE STREET FWS BILSTON 4	5.0	N	287474 ↗
H	143m N	395784 296599	25-35 LUNT ROAD BILSTON 5	6.45	N	15534685 ↗
E	143m W	395605 296422	BLACK COUNTRY ROUTE BCR105B	3.0	N	17602769 ↗
E	146m W	395592 296402	BLACK COUNTRY ROUTE - BILSTON B102	43.05	N	17602792 ↗
G	148m N	395890 296620	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA1	16.5	N	17602717 ↗
H	149m N	395758 296592	25-35 LUNT ROAD BILSTON RH 4	19.8	N	15534673 ↗
H	149m N	395756 296591	25-35 LUNT ROAD BILSTON 8	4.5	N	15534690 ↗
H	149m N	395751 296588	25-35 LUNT ROAD BILSTON 9	4.2	N	15534691 ↗
H	149m N	395741 296582	25-35 LUNT ROAD BILSTON 10	4.0	N	15534692 ↗
12	150m E	396040 296410	DALE ST, LOXDALE, BILSTON	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
H	151m N	395773 296603	25-35 LUNT ROAD BILSTON 7	8.95	N	15534688 ↗
H	151m NW	395732 296578	25-35 LUNT ROAD BILSTON 1	10.45	N	15534678 ↗
H	151m N	395772 296603	25-35 LUNT ROAD BILSTON RH 1	29.0	N	15534667 ↗
H	152m NW	395730 296578	25-35 LUNT ROAD BILSTON RH 6	29.0	N	15534675 ↗
13	153m E	396050 296370	DALE ST, LOXDALE, BILSTON	-	Y	N/A
E	155m W	395588 296415	BLACK COUNTRY ROUTE BCR105A	10.05	N	17602768 ↗
G	157m N	395880 296630	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA4	16.5	N	17602720 ↗
H	158m N	395768 296608	25-35 LUNT ROAD BILSTON 6	10.45	N	15534686 ↗
14	158m E	396050 296320	WALLBUB COLLIERY NO.7 PIT	124.36	N	285055 ↗
H	158m N	395767 296608	25-35 LUNT ROAD BILSTON RH 2	29.0	N	15534669 ↗
H	158m NW	395728 296584	25-35 LUNT ROAD BILSTON 2	10.45	N	15534680 ↗
H	159m NW	395727 296584	25-35 LUNT ROAD BILSTON RH 7	29.0	N	15534676 ↗
H	159m N	395749 296599	25-35 LUNT ROAD BILSTON RH 3	29.0	N	15534671 ↗
H	160m N	395790 296620	BLACK COUNTRY ROUTE 424B	10.5	N	17602814 ↗
H	160m N	395735 296591	25-35 LUNT ROAD BILSTON 3	6.45	N	15534682 ↗
H	160m N	395741 296595	25-35 LUNT ROAD BILSTON 4	8.95	N	15534683 ↗
E	165m W	395580 296420	BLACK COUNTRY ROUTE 418	10.5	N	17602805 ↗
15	165m SE	396012 296242	VULCAN ROAD DALE STREET FWS BILSTON 5	6.5	N	287475 ↗
16	170m E	396053 296451	VULCAN ROAD DALE STREET FWS BILSTON 7	7.15	N	287477 ↗
G	177m N	395890 296650	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA5	17.5	N	17602721 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
G	179m N	395900 296650	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE B107	48.0	N	17602797 ↗
G	179m N	395900 296650	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V5	16.0	N	17602673 ↗
G	181m NE	395940 296640	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V1	16.0	N	17602669 ↗
17	185m NW	395600 296500	LANDALES MINES, BILSTON	96.62	N	285052 ↗
18	186m E	396070 296290	VULCAN ROAD DALE STREET FWS BILSTON 6	3.0	N	287476 ↗
E	187m W	395560 296430	BLACK COUNTRY ROUTE 419	11.0	N	17602806 ↗
G	190m N	395923 296656	BLACK COUNTRY ROUTE BCR106A	10.0	N	17602780 ↗
I	199m SE	396059 296244	DALE STREET BILSTON T3	-	Y	N/A
I	202m SE	396056 296236	DALE STREET BILSTON T4	-	Y	N/A
J	203m N	395750 296650	2,3&4 GARDEN WALK BILSTON 3	7.65	N	15641333 ↗
J	203m N	395750 296650	2,3&4 GARDEN WALK BILSTON 2	7.9	N	15641332 ↗
J	208m N	395760 296660	2,3&4 GARDEN WALK BILSTON 1	6.95	N	15641328 ↗
I	210m SE	396071 296242	DALE STREET BILSTON T2	-	Y	N/A
19	212m NE	395970 296660	BLACK COUNTRY ROUTE - LUNT GROUND TREATMENT GT1	9.5	N	17602697 ↗
G	215m N	395930 296680	BLACK COUNTRY ROUTE - LUNT INTERCEPTOR TANK IT1	16.8	N	17602715 ↗
I	216m SE	396079 296244	DALE STREET BILSTON T5	-	Y	N/A
I	217m SE	396073 296233	DALE STREET BILSTON T1	-	Y	N/A
K	234m NE	395960 296690	BLACK COUNTRY ROUTE 425A	14.0	N	17602816 ↗
K	234m NE	395960 296690	BLACK COUNTRY ROUTE - LUNT INTERCEPTOR TANK IT2	16.0	N	17602716 ↗
I	237m SE	396080 296210	WALLBUB COLLIERY NO.3 PIT	106.43	N	285054 ↗
L	237m W	395490 296390	BLACK COUNTRY ROUTE 417	7.5	N	17602802 ↗

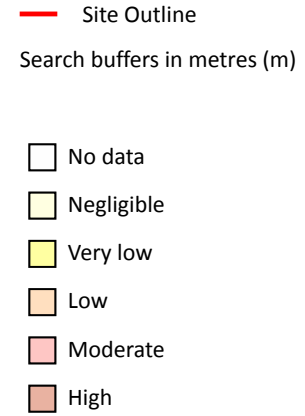
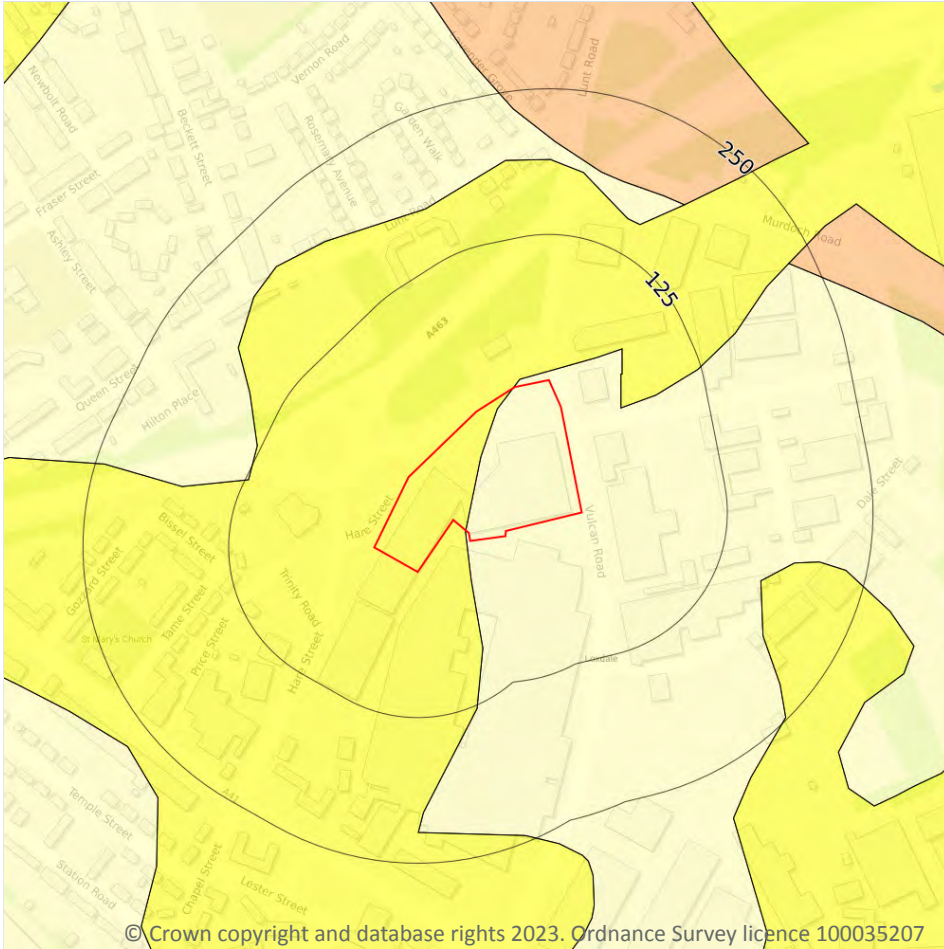


ID	Location	Grid reference	Name	Length	Confidential	Web link
20	243m SE	396060 296180	UNIT 5 BILSTON INDUSTRIAL ESTATE TP 07	3.8	N	15534344 ↗
21	245m NE	395985 296690	LUNT COLLIERY ENGINE PIT	92.35	N	285537 ↗
L	246m W	395481 296391	BLACK COUNTRY ROUTE BCR104A	7.05	N	17602767 ↗
22	249m N	395830 296720	LUNT COLLIERY, A SHAFT	67.06	N	285536 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m

2

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).

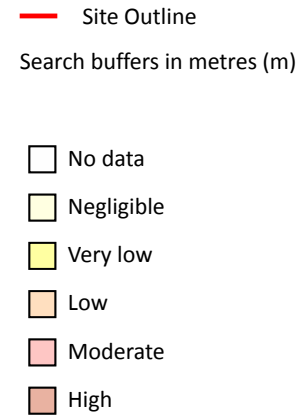
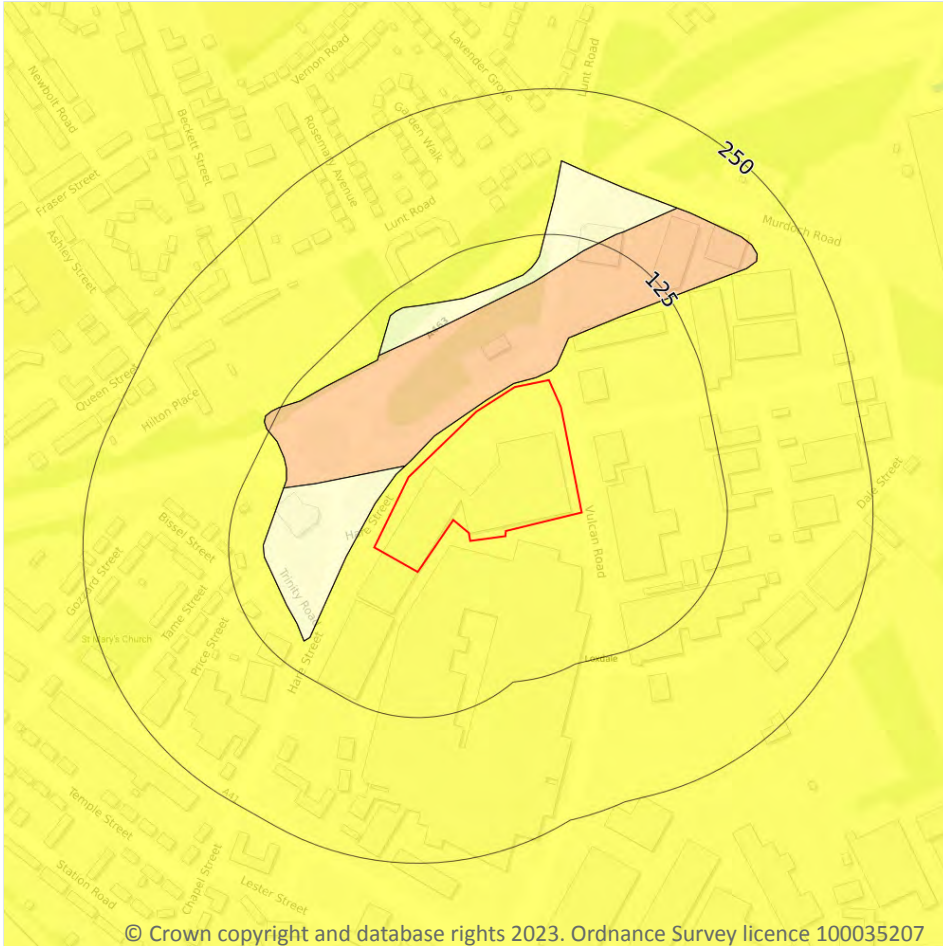
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 163](#) >

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



17.2 Running sands

Records within 50m

3

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 164](#) >

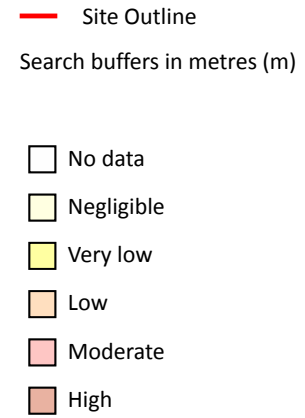
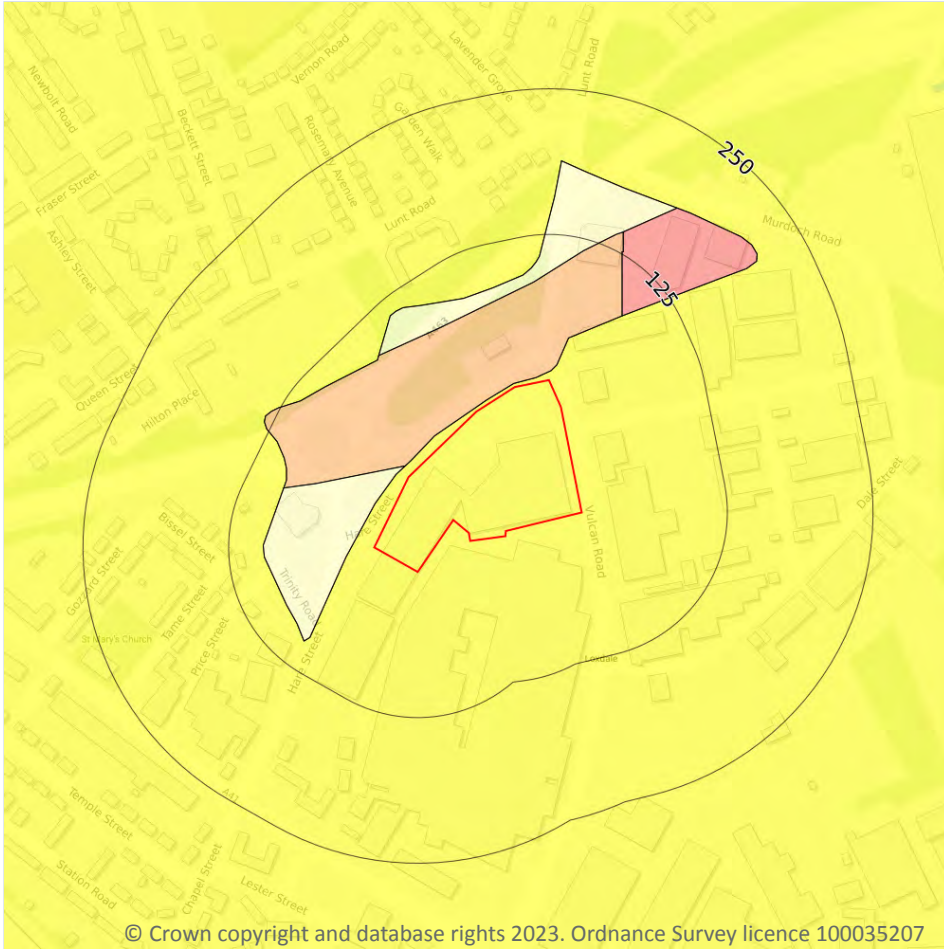
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
3m N	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
9m W	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

3

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 166](#) >

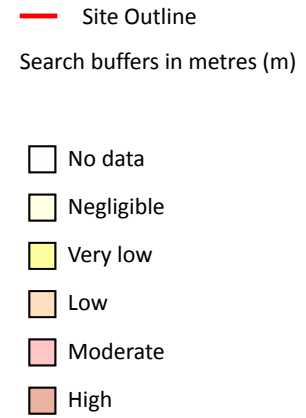
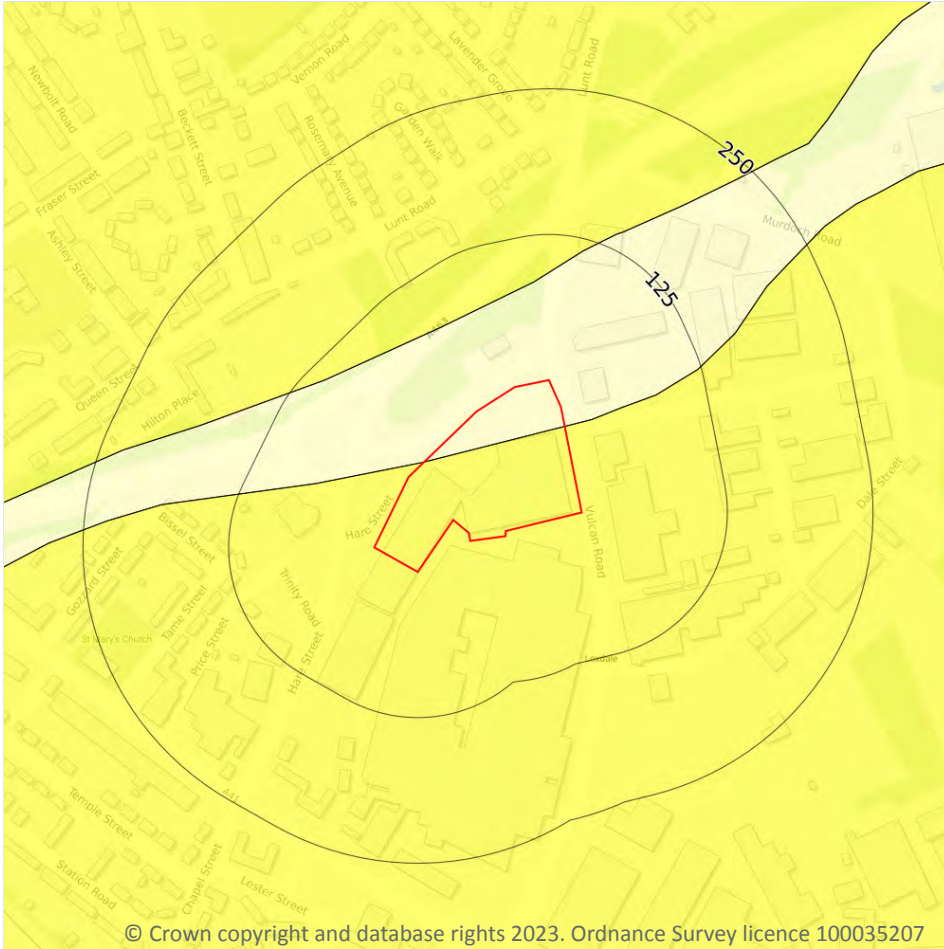
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
3m N	Low	Compressibility and uneven settlement potential may be present. Land use should consider specifically the compressibility and variability of the site.
9m W	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



17.4 Collapsible deposits

Records within 50m

2

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.

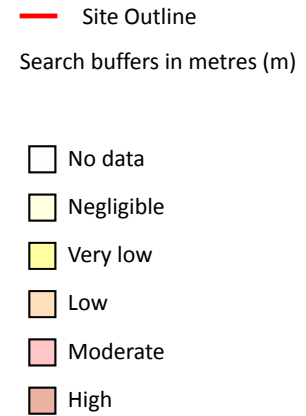
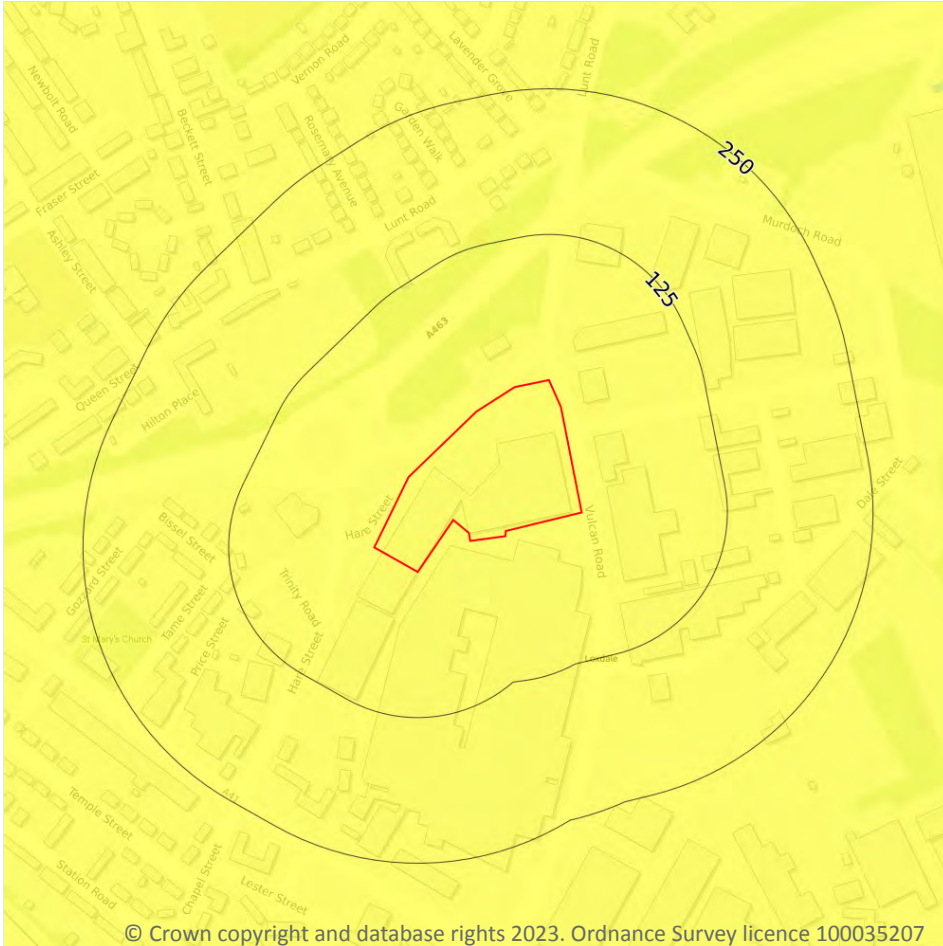
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 168 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
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



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.

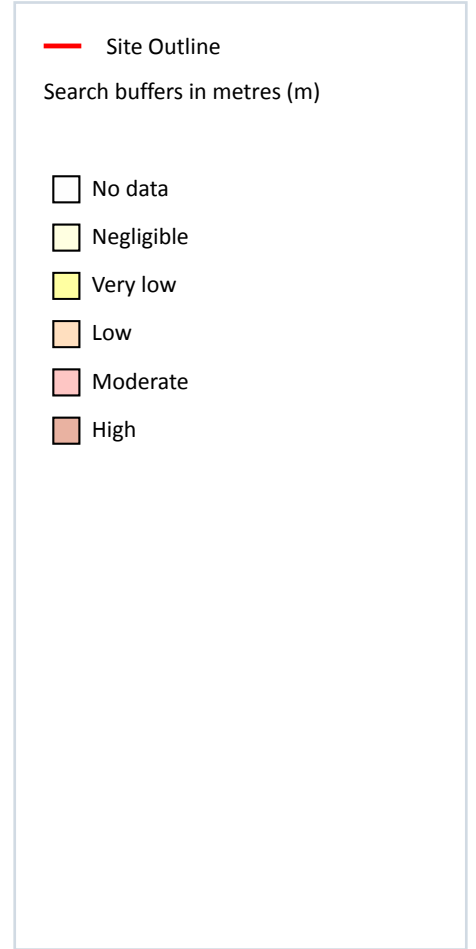
Features are displayed on the Natural ground subsidence - Landslides map on [page 169](#) >

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



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.

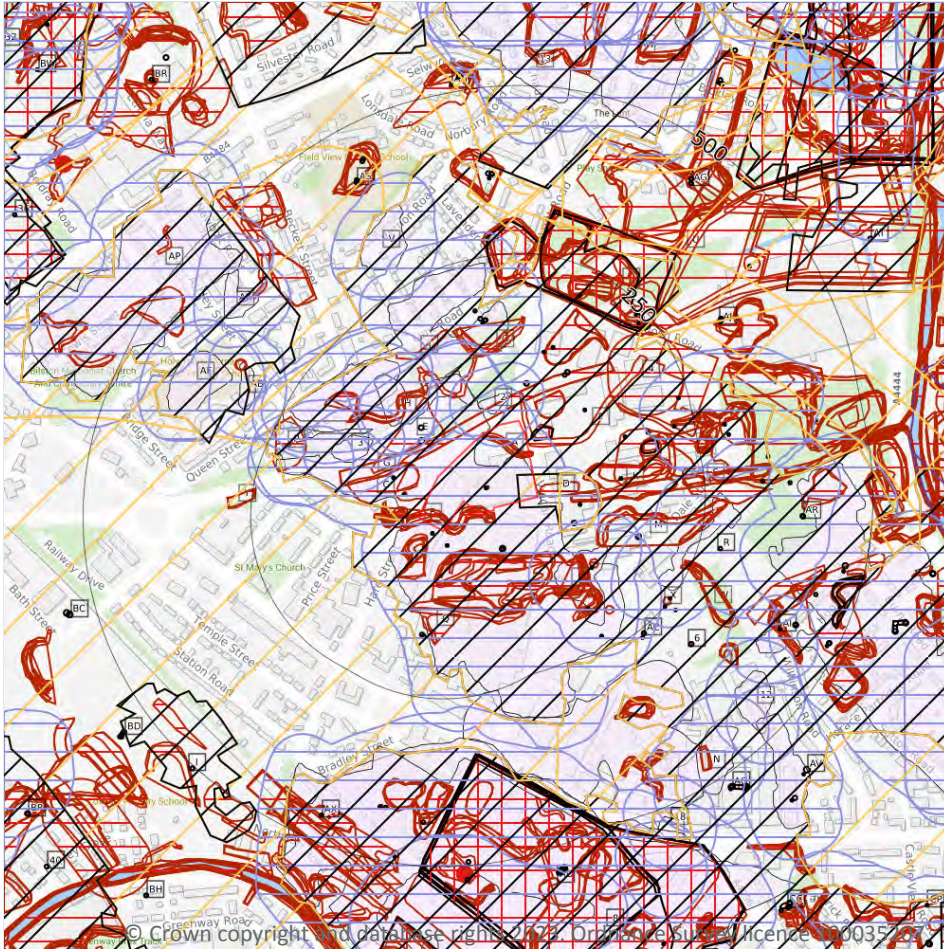
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 170 >](#)

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



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

18.1 BritPits

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m

161

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 172 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
A	On site	Unspecified Ground Workings	1938	1:10560
A	On site	Unspecified Ground Workings	1920	1:10560
A	On site	Unspecified Ground Workings	1919	1:10560
A	On site	Unspecified Ground Workings	1901	1:10560
A	On site	Unspecified Ground Workings	1919	1:10560
B	On site	Unspecified Ground Workings	1938	1:10560
B	On site	Coal Pits	1885	1:10560
B	On site	Unspecified Ground Workings	1920	1:10560
B	On site	Unspecified Ground Workings	1919	1:10560
B	On site	Unspecified Ground Workings	1901	1:10560
B	On site	Unspecified Ground Workings	1938	1:10560
B	On site	Unspecified Ground Workings	1919	1:10560
B	On site	Coal Pits	1886	1:10560
C	On site	Unspecified Ground Workings	1886	1:10560
F	1m NE	Sand Pit	1955	1:10560
D	4m E	Unspecified Heap	1955	1:10560
F	8m NE	Refuse Heap	1920	1:10560
F	10m NE	Refuse Heap	1919	1:10560
G	14m N	Cuttings	1938	1:10560
G	14m N	Cuttings	1920	1:10560
G	14m N	Cuttings	1919	1:10560
B	18m SW	Unspecified Heap	1886	1:10560
B	22m SW	Unspecified Heap	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	22m SW	Unspecified Ground Workings	1919	1:10560
B	22m SW	Unspecified Ground Workings	1901	1:10560
C	23m W	Unspecified Heap	1885	1:10560
B	24m SW	Unspecified Ground Workings	1919	1:10560
B	27m SW	Unspecified Ground Workings	1920	1:10560
C	31m W	Coal Pits	1886	1:10560
F	32m NE	Unspecified Heap	1938	1:10560
F	32m NE	Unspecified Heap	1920	1:10560
F	32m NE	Unspecified Heap	1919	1:10560
F	32m NE	Unspecified Heap	1901	1:10560
C	32m W	Coal Pits	1885	1:10560
B	35m SW	Unspecified Ground Workings	1920	1:10560
E	37m NW	Unspecified Heap	1955	1:10560
B	37m S	Unspecified Ground Workings	1919	1:10560
B	38m S	Unspecified Ground Workings	1901	1:10560
B	39m S	Unspecified Ground Workings	1919	1:10560
B	40m S	Unspecified Ground Workings	1938	1:10560
B	40m S	Unspecified Ground Workings	1886	1:10560
B	41m S	Unspecified Ground Workings	1938	1:10560
B	43m S	Unspecified Heap	1885	1:10560
K	50m E	Unspecified Ground Workings	1938	1:10560
K	50m E	Unspecified Ground Workings	1920	1:10560
K	50m E	Unspecified Ground Workings	1919	1:10560
K	50m E	Unspecified Ground Workings	1901	1:10560
K	51m E	Unspecified Ground Workings	1938	1:10560
K	51m E	Unspecified Ground Workings	1919	1:10560
E	65m N	Refuse Heap	1919	1:10560
B	72m S	Unspecified Heap	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	72m S	Unspecified Heap	1901	1:10560
K	79m E	Unspecified Ground Workings	1955	1:10560
K	79m E	Unspecified Pit	1955	1:10560
F	97m NE	Unspecified Pit	1938	1:10560
F	97m NE	Unspecified Pit	1920	1:10560
F	97m NE	Unspecified Pit	1919	1:10560
F	97m NE	Unspecified Pit	1901	1:10560
F	98m NE	Unspecified Pit	1938	1:10560
F	98m NE	Unspecified Pit	1919	1:10560
M	100m SE	Refuse Heap	1938	1:10560
M	100m SE	Refuse Heap	1920	1:10560
B	101m S	Unspecified Ground Workings	1919	1:10560
B	101m S	Unspecified Ground Workings	1901	1:10560
H	101m NW	Unspecified Ground Workings	1938	1:10560
H	101m NW	Unspecified Ground Workings	1920	1:10560
H	101m NW	Unspecified Ground Workings	1919	1:10560
H	101m NW	Unspecified Ground Workings	1938	1:10560
M	102m SE	Refuse Heap	1919	1:10560
M	102m E	Refuse Heap	1938	1:10560
M	102m E	Refuse Heap	1919	1:10560
L	104m SE	Unspecified Heap	1885	1:10560
O	105m N	Unspecified Ground Workings	1886	1:10560
O	107m N	Unspecified Ground Workings	1919	1:10560
O	107m N	Unspecified Ground Workings	1901	1:10560
L	107m SE	Unspecified Ground Workings	1886	1:10560
O	108m N	Unspecified Heap	1885	1:10560
L	110m SE	Unspecified Ground Workings	1938	1:10560
L	111m SE	Unspecified Ground Workings	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
K	118m E	Unspecified Heap	1885	1:10560
L	123m SE	Unspecified Pit	1901	1:10560
Q	124m S	Unspecified Pit	1955	1:10560
Q	131m SW	Unspecified Ground Workings	1919	1:10560
K	133m E	Unspecified Ground Workings	1886	1:10560
4	141m NE	Sludge Bed	1968	1:10560
J	144m NW	Unspecified Ground Workings	1901	1:10560
K	145m NE	Sand Pit	1955	1:10560
H	156m NW	Unspecified Pit	1886	1:10560
L	156m SE	Unspecified Heap	1919	1:10560
L	156m SE	Unspecified Heap	1901	1:10560
H	157m NW	Unspecified Pit	1885	1:10560
L	158m SE	Unspecified Heap	1938	1:10560
K	163m E	Unspecified Heap	1955	1:10560
L	164m SE	Unspecified Ground Workings	1886	1:10560
L	165m SE	Unspecified Heap	1885	1:10560
K	165m E	Unspecified Heap	1920	1:10560
K	165m E	Unspecified Heap	1919	1:10560
K	167m E	Unspecified Heap	1901	1:10560
T	192m NE	Colliery	1886	1:10560
S	193m E	Refuse Heap	1968	1:10560
S	193m E	Refuse Heap	1974	1:10000
L	193m SE	Unspecified Pit	1901	1:10560
P	194m W	Refuse Heap	1901	1:10560
T	195m NE	Colliery	1885	1:10560
T	196m NE	Unspecified Pit	1955	1:10560
T	198m NE	Sewage Works	1938	1:10560
T	198m NE	Sewage Works	1920	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
T	198m NE	Disused Colliery	1901	1:10560
T	200m NE	Sewage Works	1938	1:10560
U	200m NE	Sewage Works	1919	1:10560
U	200m NE	Sewage Works	1919	1:10560
T	201m N	Unspecified Ground Workings	1886	1:10560
T	202m NE	Sand Pit	1938	1:10560
T	202m NE	Sand Pit	1919	1:10560
T	202m N	Unspecified Heap	1885	1:10560
T	204m NE	Refuse Heap	1938	1:10560
T	204m NE	Sand Pit	1920	1:10560
T	205m NE	Sand Pit	1919	1:10560
T	210m N	Unspecified Heap	1919	1:10560
T	212m N	Unspecified Heap	1901	1:10560
T	213m N	Unspecified Heap	1920	1:10560
S	216m E	Unspecified Ground Workings	1938	1:10560
S	217m E	Unspecified Ground Workings	1919	1:10560
S	217m E	Unspecified Pit	1955	1:10560
S	217m E	Unspecified Ground Workings	1920	1:10560
S	219m E	Unspecified Ground Workings	1938	1:10560
S	219m E	Unspecified Ground Workings	1919	1:10560
T	219m NE	Unspecified Pit	1901	1:10560
T	220m NE	Unspecified Ground Workings	1919	1:10560
S	221m E	Unspecified Pit	1938	1:10560
S	221m E	Unspecified Pit	1920	1:10560
S	221m E	Unspecified Pit	1919	1:10560
S	221m E	Unspecified Pit	1901	1:10560
T	221m NE	Cuttings	1938	1:10560
T	221m NE	Cuttings	1920	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
K	223m NE	Sludge Beds	1955	1:10560
T	224m NE	Cuttings	1919	1:10560
W	237m SE	Unspecified Heap	1886	1:10560
T	240m N	Unspecified Heap	1885	1:10560
W	240m SE	Unspecified Heap	1938	1:10560
W	240m SE	Unspecified Heap	1919	1:10560
T	240m NE	Unspecified Pit	1901	1:10560
W	242m SE	Unspecified Heap	1901	1:10560
X	242m SE	Unspecified Pit	1901	1:10560
W	243m SE	Unspecified Heap	1938	1:10560
W	243m SE	Unspecified Heap	1920	1:10560
W	243m SE	Unspecified Heap	1919	1:10560
T	244m N	Unspecified Heap	1968	1:10560
T	244m N	Unspecified Heap	1974	1:10000
T	244m N	Unspecified Heap	1993	1:10000
T	244m N	Unspecified Heap	1978	1:10000
T	244m N	Unspecified Heap	1988	1:10000
S	245m E	Unspecified Pit	1955	1:10560
Y	246m W	Pond	1886	1:10560
T	246m N	Unspecified Heap	1938	1:10560
T	246m N	Unspecified Heap	1901	1:10560
T	247m N	Unspecified Heap	1920	1:10560
T	247m N	Unspecified Heap	1919	1:10560
U	248m NE	Sewage Works	1978	1:10000
Y	248m W	Pond	1885	1:10560
T	250m N	Unspecified Heap	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.3 Underground workings

Records within 1000m

302

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

Features are displayed on the Mining and ground workings map on [page 172](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Coal Pits	1885	1:10560
F	8m NE	Coal Shafts	1938	1:10560
B	9m SW	Unspecified Shafts	1885	1:10560
B	20m SW	Unspecified Shafts	1885	1:10560
C	32m W	Coal Pits	1885	1:10560
E	51m NW	Coal Shafts	1901	1:10560
F	53m NE	Coal Shaft	1901	1:10560
B	54m S	Old Coal Shaft	1919	1:10560
B	56m S	Old Coal Shaft	1938	1:10560
B	56m S	Old Coal Shaft	1920	1:10560
C	57m W	Unspecified Shaft	1885	1:10560
D	62m E	Unspecified Shafts	1885	1:10560
D	63m SE	Coal Shaft	1901	1:10560
E	66m NW	Coal Shafts	1901	1:10560
F	94m NE	Unspecified Shafts	1885	1:10560
F	94m NE	Unspecified Shafts	1885	1:10560
F	99m NE	Unspecified Shaft	1901	1:10560
F	107m NE	Unspecified Shafts	1885	1:10560
F	119m NE	Unspecified Shafts	1885	1:10560
K	125m E	Unspecified Shafts	1885	1:10560
L	131m SE	Unspecified Old Shafts	1885	1:10560
K	143m E	Unspecified Shafts	1885	1:10560
O	151m N	Unspecified Shafts	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
O	154m N	Old Coal Shaft	1919	1:10560
O	154m N	Old Coal Shaft	1901	1:10560
Q	154m S	Coal Shaft	1920	1:10560
Q	157m S	Coal Shaft	1919	1:10560
O	158m N	Old Coal Shaft	1920	1:10560
M	158m E	Unspecified Old Shaft	1938	1:10560
M	159m E	Unspecified Old Shaft	1920	1:10560
M	160m E	Unspecified Old Shaft	1919	1:10560
K	165m E	Coal Shafts	1938	1:10560
O	171m N	Unspecified Shafts	1885	1:10560
K	178m E	Unspecified Old Shafts	1885	1:10560
L	181m SE	Unspecified Old Shafts	1885	1:10560
T	195m NE	Colliery	1885	1:10560
T	198m NE	Disused Colliery	1901	1:10560
T	206m NE	Unspecified Shafts	1885	1:10560
K	218m E	Unspecified Old Shafts	1885	1:10560
L	226m SE	Unspecified Shaft	1885	1:10560
T	229m NE	Unspecified Shafts	1885	1:10560
K	233m E	Unspecified Old Shafts	1885	1:10560
T	234m NE	Unspecified Shafts	1885	1:10560
X	247m SE	Unspecified Old Shafts	1885	1:10560
X	248m SE	Unspecified Old Shafts	1885	1:10560
AC	254m SE	Old Coal Shafts	1901	1:10560
AC	260m SE	Coal Pit	1885	1:10560
X	264m SE	Unspecified Old Shafts	1885	1:10560
R	280m E	Old Coal Shafts	1901	1:10560
S	292m E	Unspecified Shafts	1885	1:10560
S	295m E	Unspecified Shafts	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
6	314m SE	Old Coal Shafts	1901	1:10560
AJ	332m NE	Unspecified Shaft	1885	1:10560
S	334m E	Unspecified Shafts	1885	1:10560
AJ	335m NE	Unspecified Old Shaft	1919	1:10560
AJ	335m NE	Unspecified Old Shaft	1938	1:10560
AJ	335m NE	Unspecified Old Shaft	1920	1:10560
8	336m S	Disused Colliery	1920	1:10560
AD	337m S	Disused Colliery	1919	1:10560
AL	337m S	Disused Colliery	1901	1:10560
AD	339m S	Disused Colliery	1938	1:10560
AD	343m S	Colliery	1885	1:10560
S	347m E	Unspecified Shafts	1885	1:10560
T	362m N	Unspecified Shaft	1885	1:10560
T	367m N	Old Coal Shafts	1901	1:10560
T	367m N	Unspecified Shaft	1919	1:10560
T	368m N	Unspecified Shaft	1920	1:10560
S	374m E	Unspecified Shafts	1885	1:10560
AR	393m E	Trial Shaft	1919	1:10560
AR	394m E	Trial Shaft	1938	1:10560
AR	394m E	Trial Shaft	1920	1:10560
AI	410m SE	Unspecified Old Shaft	1885	1:10560
U	412m NE	Unspecified Shaft	1885	1:10560
AS	416m NW	Old Coal Shafts	1919	1:10560
AS	416m NW	Unspecified Old Shaft	1885	1:10560
AD	418m S	Coal Pits	1885	1:10560
AS	419m NW	Old Coal Shafts	1901	1:10560
AD	419m S	Coal Pits	1885	1:10560
AI	426m SE	Coal Shafts	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AI	426m SE	Coal Shafts	1938	1:10560
AI	426m SE	Coal Shafts	1920	1:10560
S	429m E	Unspecified Shafts	1885	1:10560
AD	432m S	Unspecified Old Shaft	1885	1:10560
AG	434m NE	Unspecified Old Shafts	1920	1:10560
AG	435m NE	Unspecified Old Shafts	1938	1:10560
AI	437m E	Unspecified Old Shafts	1885	1:10560
AG	440m NE	Unspecified Old Shafts	1919	1:10560
AS	440m N	Old Coal Shafts	1919	1:10560
AS	442m N	Old Coal Shafts	1901	1:10560
AX	459m SW	Coal Pits	1885	1:10560
AI	460m E	Coal Pit	1901	1:10560
AI	461m E	Coal Pit	1919	1:10560
AI	466m E	Old Coal Shafts	1901	1:10560
AI	467m E	Unspecified Old Shafts	1885	1:10560
AI	483m SE	Old Coal Shaft	1901	1:10560
AI	483m SE	Coal Shafts	1938	1:10560
AI	483m SE	Coal Shafts	1920	1:10560
AI	483m SE	Coal Shafts	1919	1:10560
AI	484m SE	Unspecified Old Shaft	1885	1:10560
AG	488m NE	Disused Colliery	1938	1:10560
AX	489m S	Unspecified Shaft	1885	1:10560
AD	492m S	Unspecified Shafts	1885	1:10560
I	501m SW	Unspecified Old Shafts	1919	1:10560
AH	509m N	Unspecified Old Shaft	1885	1:10560
AQ	516m SE	Old Coal Shafts	1938	1:10560
AQ	516m SE	Old Coal Shafts	1901	1:10560
AQ	516m SE	Old Coal Shafts	1920	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AQ	517m SE	Old Coal Shafts	1919	1:10560
AD	518m S	Unspecified Shafts	1885	1:10560
AH	518m N	Coal Shaft	1919	1:10560
AQ	520m SE	Unspecified Old Shafts	1885	1:10560
AG	526m NE	Colliery	1901	1:10560
AQ	528m SE	Old Coal Shafts	1938	1:10560
AD	529m S	Unspecified Shafts	1938	1:10560
AD	529m S	Unspecified Shafts	1920	1:10560
AQ	529m SE	Old Coal Shafts	1919	1:10560
AQ	530m SE	Old Coal Shafts	1901	1:10560
AQ	532m SE	Unspecified Old Shafts	1885	1:10560
AD	532m S	Unspecified Shafts	1885	1:10560
AD	533m S	Unspecified Shafts	1919	1:10560
AD	534m S	Unspecified Shafts	1885	1:10560
BC	535m W	Unspecified Disused Shaft	1974	1:10000
AD	535m S	Unspecified Shafts	1919	1:10560
BC	539m W	Unspecified Disused Shaft	1978	1:10000
BD	540m SW	Unspecified Old Shafts	1919	1:10560
BD	541m SW	Unspecified Old Shafts	1938	1:10560
BD	542m SW	Unspecified Old Shafts	1920	1:10560
BD	543m SW	Unspecified Old Shafts	1885	1:10560
BD	547m SW	Unspecified Old Shafts	1919	1:10560
BD	550m SW	Unspecified Old Shafts	1885	1:10560
AI	562m E	Coal Shafts	1938	1:10560
AI	562m E	Coal Shafts	1920	1:10560
AI	562m E	Coal Shafts	1919	1:10560
AI	566m E	Coal Shafts	1919	1:10560
AV	567m SE	Old Coal Shafts	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AV	571m SE	Unspecified Old Shaft	1885	1:10560
AI	576m E	Coal Shafts	1919	1:10560
BK	579m S	Disused Colliery and Brick Works	1901	1:10560
AG	583m NE	Old Coal Shaft	1938	1:10560
AG	583m NE	Old Coal Shaft	1920	1:10560
AG	584m NE	Unspecified Shaft	1885	1:10560
AT	587m NE	Old Coal Shaft	1901	1:10560
AV	587m SE	Old Coal Shafts	1901	1:10560
AG	587m NE	Old Coal Shaft	1919	1:10560
AV	588m SE	Unspecified Old Shafts	1885	1:10560
AI	596m E	Old Coal Shafts	1901	1:10560
AI	596m E	Coal Shaft	1938	1:10560
AI	596m E	Coal Shaft	1920	1:10560
AI	596m E	Coal Shafts	1919	1:10560
AG	626m NE	Colliery	1885	1:10560
-	635m E	Unspecified Old Shaft	1885	1:10560
AG	637m NE	Coal Shaft	1920	1:10560
32	647m NW	Colliery	1885	1:10560
AG	683m NE	Coal Shaft	1938	1:10560
AG	684m NE	Coal Shaft	1919	1:10560
AL	690m S	Coal Pit	1885	1:10560
BH	692m SW	Old Coal Shafts	1919	1:10560
-	697m E	Unspecified Old Shaft	1885	1:10560
CC	708m SE	Old Coal Shafts	1901	1:10560
CC	709m SE	Old Coal Shaft	1920	1:10560
-	709m E	Unspecified Old Shaft	1913	1:10560
-	709m E	Unspecified Old Shaft	1901	1:10560
-	709m E	Unspecified Old Shafts	1921	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
CC	713m SE	Unspecified Old Shafts	1885	1:10560
-	713m N	Unspecified Old Shaft	1885	1:10560
CC	713m SE	Old Coal Shaft	1919	1:10560
CC	715m SE	Unspecified Old Shafts	1885	1:10560
AG	716m NE	Disused Colliery	1919	1:10560
-	719m N	Coal Shaft	1901	1:10560
BR	720m NW	Old Coal Shafts	1901	1:10560
AG	724m NE	Unspecified Old Shafts	1885	1:10560
BP	728m SW	Old Coal Shafts	1938	1:10560
BP	728m SW	Old Coal Shafts	1920	1:10560
BP	728m SW	Old Coal Shafts	1919	1:10560
BP	728m SW	Old Coal Shafts	1901	1:10560
-	730m S	Unspecified Shaft	1885	1:10560
BR	730m NW	Old Coal Shafts	1901	1:10560
-	730m NE	Old Coal Shaft	1901	1:10560
-	734m S	Coal Shaft	1901	1:10560
AG	736m NE	Unspecified Old Shafts	1885	1:10560
36	740m NW	Unspecified Shafts	1885	1:10560
-	742m S	Unspecified Old Shafts	1885	1:10560
-	746m SW	Old Coal Shafts	1901	1:10560
-	755m NE	Disused Colliery	1913	1:10560
-	755m NE	Disused Colliery	1901	1:10560
-	755m NE	Disused Colliery	1885	1:10560
-	755m NE	Disused Colliery	1921	1:10560
40	758m SW	Old Coal Shafts	1901	1:10560
-	759m SE	Disused Colliery	1920	1:10560
-	764m SE	Disused Colliery	1919	1:10560
-	767m SE	Colliery	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	775m E	Unspecified Old Shafts	1921	1:10560
-	775m NE	Disused Colliery	1938	1:10560
-	775m NE	Disused Colliery	1938	1:10560
-	779m SW	Old Coal Shafts	1901	1:10560
-	779m E	Unspecified Old Shafts	1913	1:10560
-	783m SW	Unspecified Old Shafts	1885	1:10560
-	784m SW	Old Coal Shafts	1938	1:10560
-	784m SW	Old Coal Shafts	1920	1:10560
-	784m SW	Old Coal Shafts	1901	1:10560
-	786m SW	Old Coal Shafts	1919	1:10560
-	792m SE	Old Coal Shafts	1919	1:10560
-	795m N	Unspecified Shaft	1920	1:10560
-	796m S	Coal Shaft	1901	1:10560
-	799m N	Unspecified Shaft	1919	1:10560
-	799m N	Unspecified Shaft	1901	1:10560
-	800m S	Unspecified Shafts	1885	1:10560
-	803m NW	Unspecified Shafts	1885	1:10560
-	804m S	Unspecified Old Shaft	1885	1:10560
-	805m S	Unspecified Shafts	1885	1:10560
-	824m SW	Old Coal Shafts	1938	1:10560
-	824m SW	Old Coal Shafts	1920	1:10560
-	824m SW	Old Coal Shafts	1919	1:10560
-	824m SW	Old Coal Shafts	1901	1:10560
-	826m N	Unspecified Old Shafts	1885	1:10560
-	830m N	Old Coal Shafts	1901	1:10560
CP	839m SE	Unspecified Old Shaft	1885	1:10560
-	839m N	Unspecified Old Shafts	1885	1:10560
-	842m N	Old Coal Shafts	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	843m SW	Old Coal Shafts	1938	1:10560
-	843m SW	Old Coal Shafts	1920	1:10560
-	843m SW	Old Coal Shafts	1919	1:10560
-	843m SW	Old Coal Shafts	1901	1:10560
-	848m SW	Unspecified Old Shafts	1885	1:10560
-	850m E	Unspecified Old Shafts	1949	1:10560
BW	850m NW	Unspecified Shaft	1885	1:10560
52	853m SE	Colliery	1885	1:10560
-	863m E	Unspecified Old Shafts	1949	1:10560
-	880m SE	Unspecified Old Shaft	1885	1:10560
CP	880m SE	Old Coal Shafts	1920	1:10560
-	881m S	Old Colliery	1885	1:10560
CP	883m SE	Old Coal Shafts	1919	1:10560
CP	883m SE	Old Coal Shafts	1901	1:10560
BW	887m NW	Unspecified Shaft	1885	1:10560
-	891m NE	Unspecified Old Shaft	1885	1:10560
-	892m S	Old Coal Shafts	1914	1:10560
-	892m S	Old Coal Shafts	1901	1:10560
-	892m W	Unspecified Shaft	1885	1:10560
-	894m S	Old Coal Shaft	1938	1:10560
-	896m SW	Old Coal Shafts	1920	1:10560
-	896m SW	Old Coal Shafts	1919	1:10560
-	897m S	Old Coal Shaft	1949	1:10560
-	900m SE	Old Coal Shafts	1901	1:10560
-	900m SE	Coal Shafts	1938	1:10560
-	901m S	Old Coal Shaft	1921	1:10560
-	901m SE	Coal Shafts	1920	1:10560
-	901m SW	Unspecified Old Shafts	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	905m SE	Old Coal Shafts	1901	1:10560
-	905m SE	Coal Shafts	1938	1:10560
-	905m SW	Old Coal Shafts	1901	1:10560
-	907m SE	Coal Shafts	1919	1:10560
-	907m N	Unspecified Old Shaft	1885	1:10560
-	908m SE	Unspecified Shafts	1885	1:10560
-	909m SW	Old Coal Shafts	1919	1:10560
-	910m SE	Unspecified Shafts	1885	1:10560
-	911m SE	Old Coal Shafts	1901	1:10560
-	911m SE	Coal Shafts	1919	1:10560
-	911m N	Unspecified Old Shaft	1920	1:10560
-	912m N	Unspecified Old Shaft	1919	1:10560
-	912m N	Unspecified Shaft	1901	1:10560
-	916m SE	Unspecified Old Shaft	1885	1:10560
-	919m SE	Old Coal Shafts	1920	1:10560
-	920m N	Disused Colliery	1919	1:10560
-	920m N	Colliery	1901	1:10560
-	921m SE	Old Coal Shafts	1901	1:10560
-	923m NW	Unspecified Old Shaft	1885	1:10560
-	926m SE	Old Coal Shafts	1919	1:10560
-	937m S	Old Coal Shafts	1901	1:10560
-	938m SE	Unspecified Shafts	1885	1:10560
-	942m SW	Old Coal Shafts	1938	1:10560
-	943m N	Unspecified Shaft	1885	1:10560
-	952m SW	Old Coal Shafts	1901	1:10560
-	952m NW	Old Coal Shaft	1938	1:10560
-	952m NW	Old Coal Shaft	1920	1:10560
-	952m NW	Old Coal Shaft	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	952m NW	Old Coal Shaft	1901	1:10560
-	955m SE	Unspecified Shafts	1885	1:10560
-	955m SW	Unspecified Old Shaft	1885	1:10560
-	957m NW	Unspecified Old Shafts	1885	1:10560
-	961m N	Unspecified Old Shaft	1885	1:10560
-	968m SW	Old Coal Shafts	1938	1:10560
-	968m SW	Old Coal Shafts	1920	1:10560
-	968m SW	Old Coal Shafts	1919	1:10560
-	968m SW	Old Coal Shafts	1901	1:10560
-	969m SE	Unspecified Shafts	1885	1:10560
-	970m SW	Old Coal Shafts	1919	1:10560
-	970m SW	Old Coal Shafts	1901	1:10560
-	972m SW	Old Coal Shafts	1920	1:10560
-	974m SE	Unspecified Shafts	1885	1:10560
-	974m SW	Unspecified Old Shaft	1885	1:10560
-	974m N	Old Coal Shafts	1920	1:10560
-	977m SW	Unspecified Old Shafts	1885	1:10560
-	978m N	Unspecified Old Shaft	1885	1:10560
-	980m SE	Old Coal Shafts	1901	1:10560
-	981m N	Old Coal Shafts	1938	1:10560
-	982m N	Old Coal Shafts	1919	1:10560
-	982m N	Old Coal Shafts	1901	1:10560
-	984m SE	Unspecified Old Shaft	1885	1:10560
-	996m NW	Coal Pit	1885	1:10560
-	999m N	Unspecified Old Shaft	1938	1:10560
-	999m N	Unspecified Old Shaft	1920	1:10560
-	999m N	Unspecified Old Shaft	1919	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground mining extents

Records within 500m

18

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.

Features are displayed on the Mining and ground workings map on [page 172 >](#)

ID	Location	Mineral	Mineral type
B	On site		Ironstone
H	18m N		Ironstone
H	97m NW		Ironstone
N	102m SE		Ironstone
R	218m SE		Ironstone
Z	249m S	Unspecified	Ironstone
V	280m NW		Ironstone
AB	296m W		Ironstone
AD	309m S		Ironstone
AD	334m S	Stone	Fireclay
AF	340m W		Ironstone
AI	353m E		Ironstone
AK	375m NW		Ironstone
AI	391m SE		Ironstone
AP	430m NW		Ironstone
AV	468m SE		Ironstone
AW	471m NE		Ironstone
AD	496m S		Ironstone

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

93

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

Features are displayed on the Mining and ground workings map on [page 172 >](#)

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
D	On site	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
I	30m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
D	33m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
5	176m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
T	178m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	202m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	214m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	237m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
Z	246m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AA	248m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AE	275m NW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
U	283m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	294m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
S	297m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	299m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	300m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	301m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AH	309m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	313m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	337m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	345m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
9	349m N	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.



ID	Location	Name	Commodity	Class	Likelihood
S	349m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
10	350m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
T	352m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
11	360m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AH	405m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	406m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
I	419m SW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
14	420m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
16	421m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
AG	428m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AN	432m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
17	454m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
20	466m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AN	486m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	496m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
22	524m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	550m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
24	562m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
AG	562m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
BG	570m N	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
27	600m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
29	618m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	631m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
30	646m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
31	646m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
BW	647m NW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	678m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
CA	683m SW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
BR	688m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	699m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	707m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	719m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	728m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	731m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	732m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	753m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	755m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	767m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	779m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	785m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	789m SW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	790m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	790m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	791m W	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	796m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	820m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	823m NW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	833m SW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	833m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	836m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	851m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	867m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	880m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	893m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	895m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	938m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	942m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	945m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	947m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	952m N	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	955m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	959m E	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	959m W	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	963m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	972m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	972m W	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	975m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	976m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	986m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	988m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

1

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



Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	26
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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.

Features are displayed on the Mining and ground workings map on [page 172 >](#)

ID	Location	Mineral type	Mineral
2	On site	Metals	Ironstone
B	On site	Metals	Ironstone
E	On site	Metals	Ironstone
J	50m N	Metals	Ironstone
H	50m NW	Metals	Ironstone
L	61m SE	Metals	Ironstone
3	62m W	Metals	Ironstone
H	88m NW	Metals	Ironstone
P	119m W	Metals	Ironstone
R	147m SE	Metals	Ironstone
S	173m E	Metals	Ironstone
V	236m N	Metals	Ironstone
AB	251m W	Metals	Ironstone
AD	263m S	Metals	Ironstone
AF	293m W	Metals	Ironstone



ID	Location	Mineral type	Mineral
AI	311m E	Metals	Ironstone
AK	329m NW	Metals	Ironstone
AI	347m SE	Metals	Ironstone
12	369m SE	Metals	Ironstone
AP	384m NW	Metals	Ironstone
AQ	387m SE	Metals	Ironstone
13	414m N	Metals	Ironstone
AV	422m SE	Metals	Ironstone
AW	429m NE	Metals	Ironstone
AD	453m S	Metals	Ironstone
18	455m SE	Metals	Ironstone

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

7

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

Location	Mineral type
280m NE	Unspecified
318m NW	Unspecified
362m NW	Unspecified
402m NW	Unspecified
409m SE	Unspecified
422m SE	Metals
470m SE	Metals

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

1

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.

Location	Mineral
233m S	Ironstone

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

5

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.

Location	Mineral
On site	Coal
On site	Ironstone
On site	Coal
116m NW	Coal
399m N	Ironstone

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.13 Brine areas

Records on site	0
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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
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Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0
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Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0
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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.

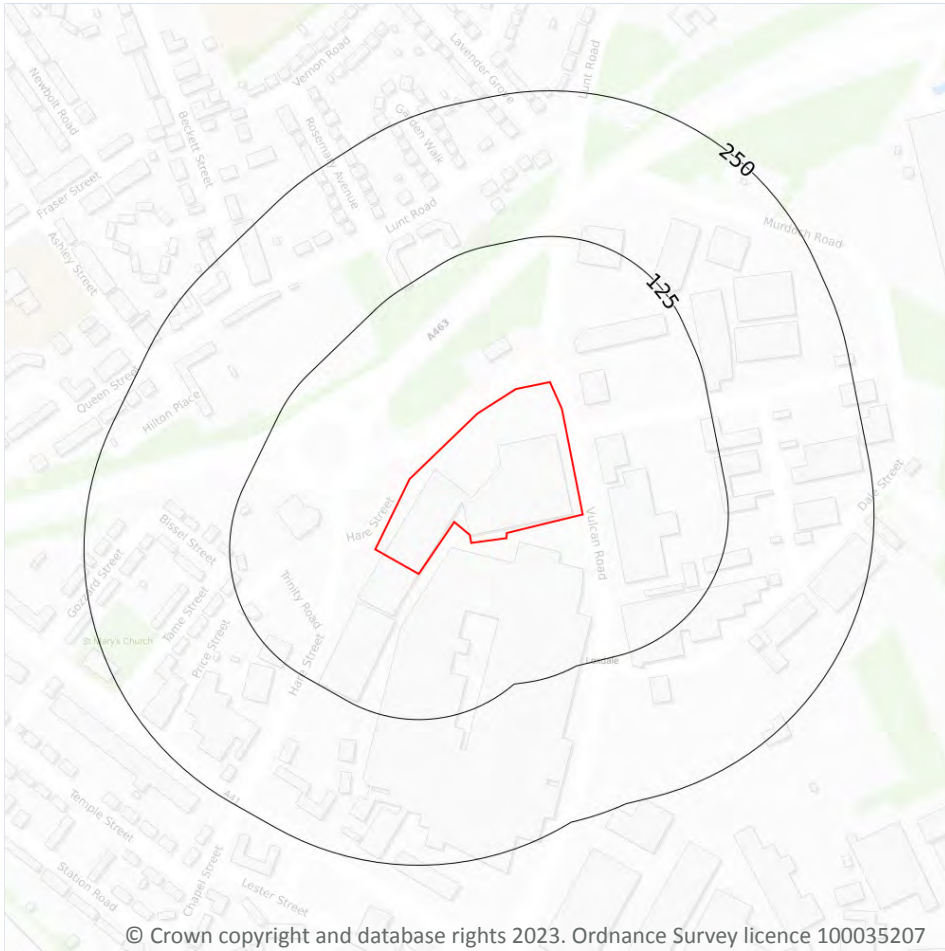
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 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 208 >](#)

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

4

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 km². 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 km²; 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 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 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 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
26m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
33m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

14

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 km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	16	2.8	198	136	1.3	91	141	43	32
On site	17	3	220	151	1.7	106	170	52	36



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	17	3	216	148	1.7	107	173	52	36
On site	19	3.3	248	170	2.5	134	226	67	42
3m E	19	3.3	240	165	2.4	130	219	65	40
9m SW	17	3	214	147	1.5	99	158	48	35
10m E	21	3.7	275	189	3.4	164	287	84	47
19m SW	16	2.8	206	142	1.4	95	149	45	34
26m NE	25	4.4	353	243	5.8	234	439	131	60
36m S	18	3.2	228	157	1.8	109	178	54	38
36m SW	17	3	221	152	1.6	102	163	50	37
40m NE	25	4.4	354	243	6.1	239	466	134	62
48m W	17	3	223	153	1.7	106	168	52	36
49m N	22	3.8	295	203	3.8	177	312	95	49

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

1

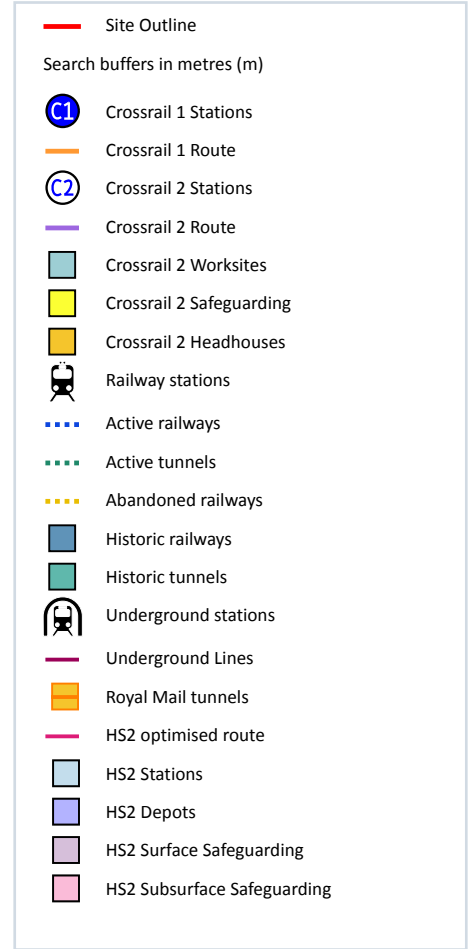
The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

Location	Arsenic (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Lead (mg/kg)	Tin (mg/kg)	Sample Type
12m W	15.4	1.3	89.5	139.0	42.1	196.3	31.8	Topsoil

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

10

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 212 >](#)

Location	Land Use	Year of mapping	Mapping scale
On site	Tramway Sidings	1887	2500
On site	Tramway Sidings	1885	10560
On site	Tramway Sidings	1886	10560
207m NE	Railway Sidings	1920	10560
207m NE	Railway Sidings	1938	10560
212m NE	Railway Sidings	1919	10560
214m NE	Railway Sidings	1938	10560
214m NE	Railway Sidings	1919	10560
216m NE	Railway Sidings	1919	2500
228m NE	Tramway Sidings	1938	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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Site Details:

395817.0528155768,296390.43
012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



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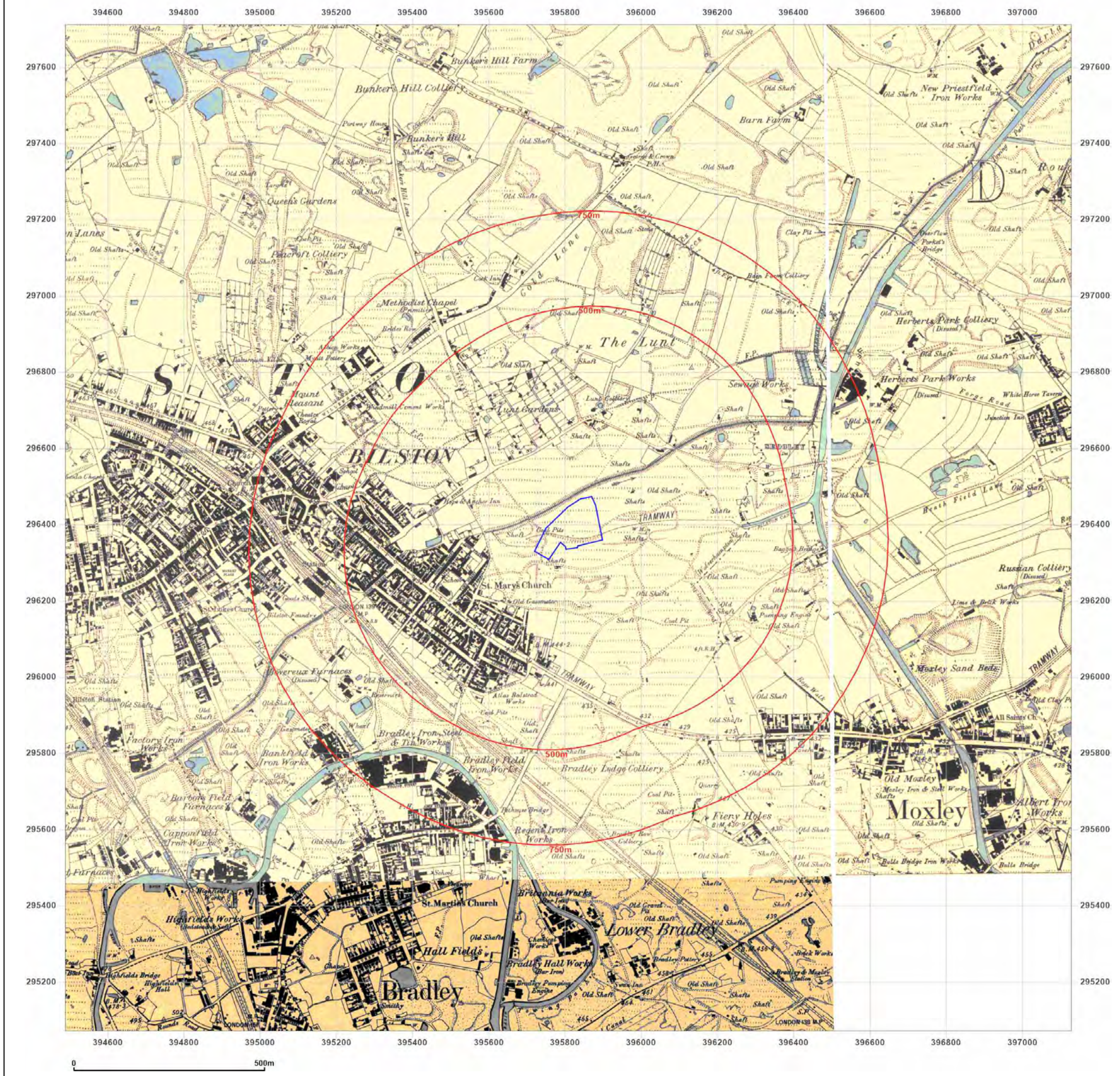


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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

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Edition N/A
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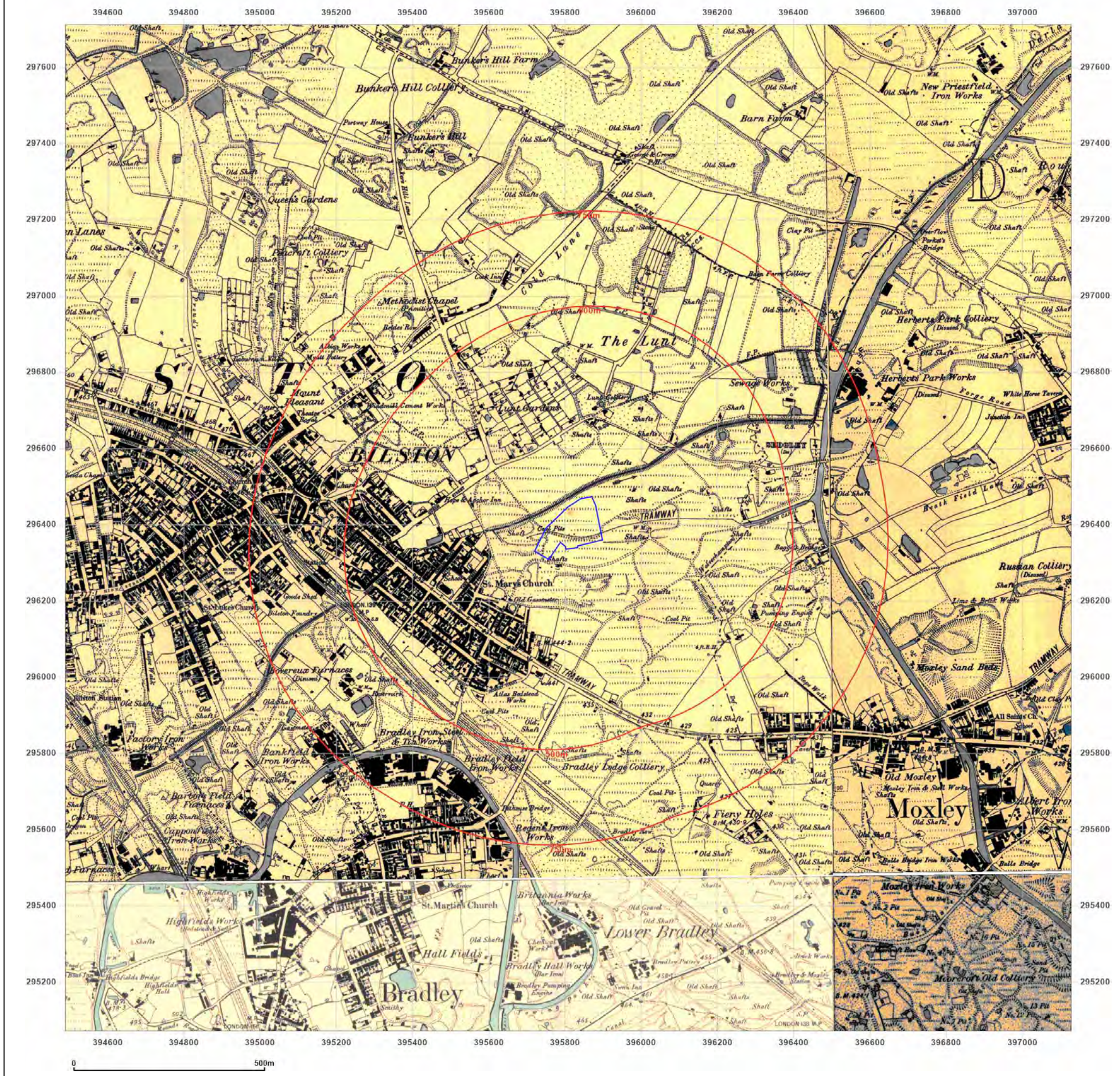


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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

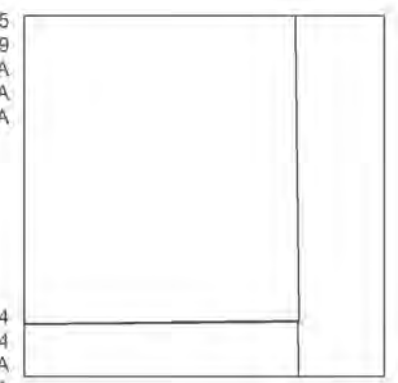
Map date: 1914-1919

Scale: 1:10,560

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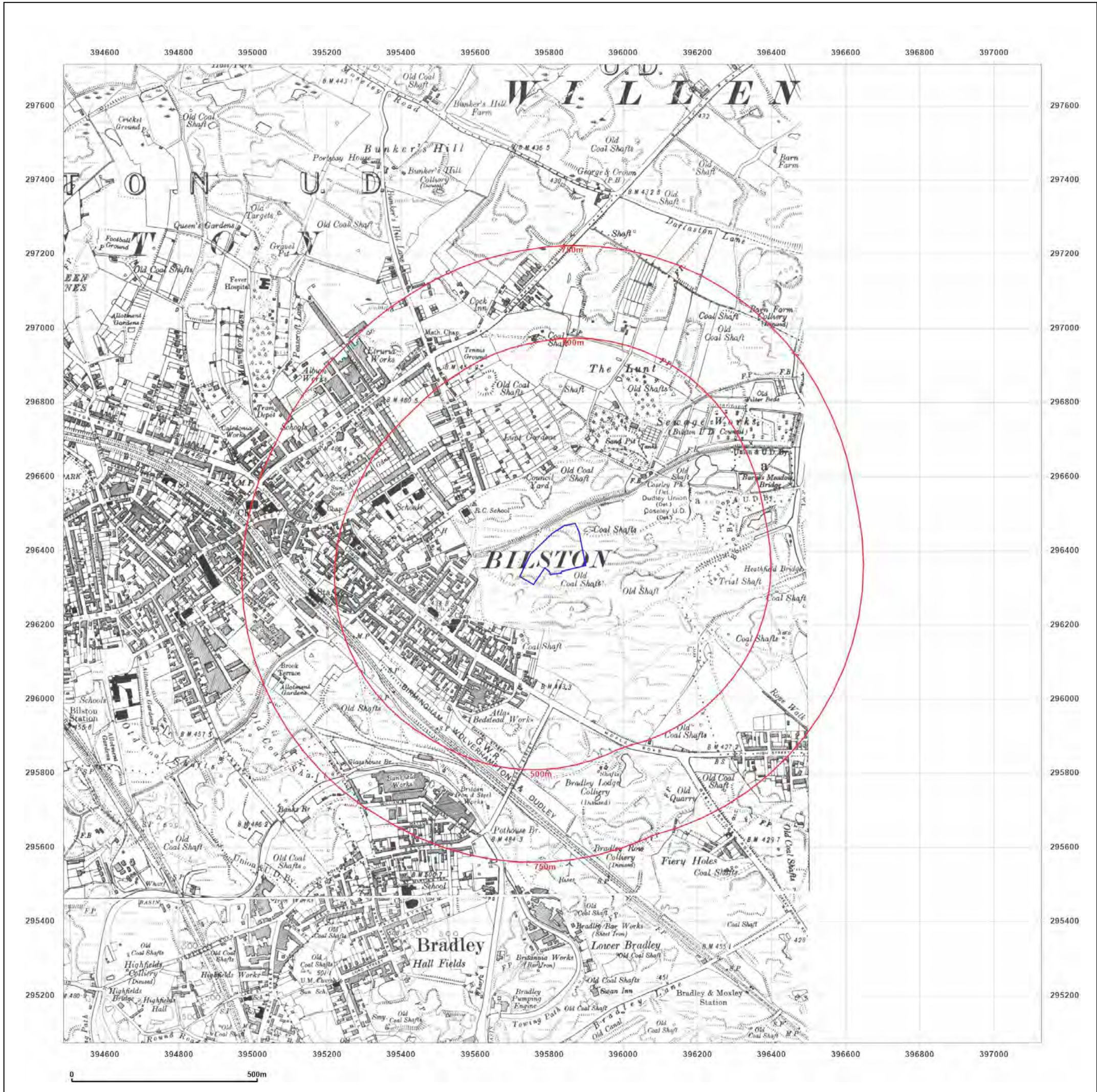


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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1919-1921

Scale: 1:10,560

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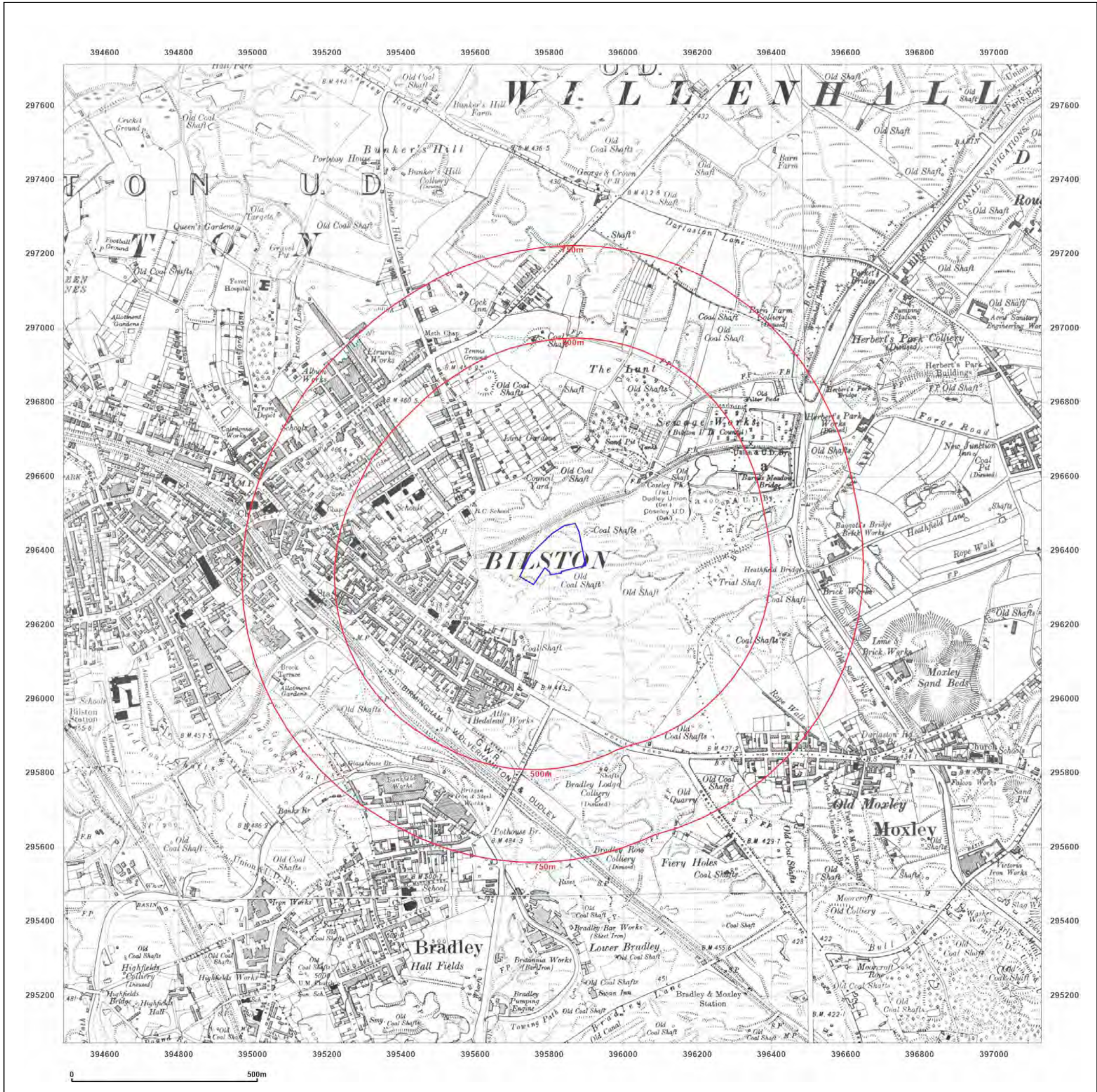


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Grid Ref: 395808, 296391

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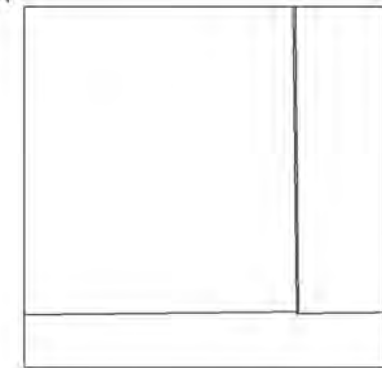
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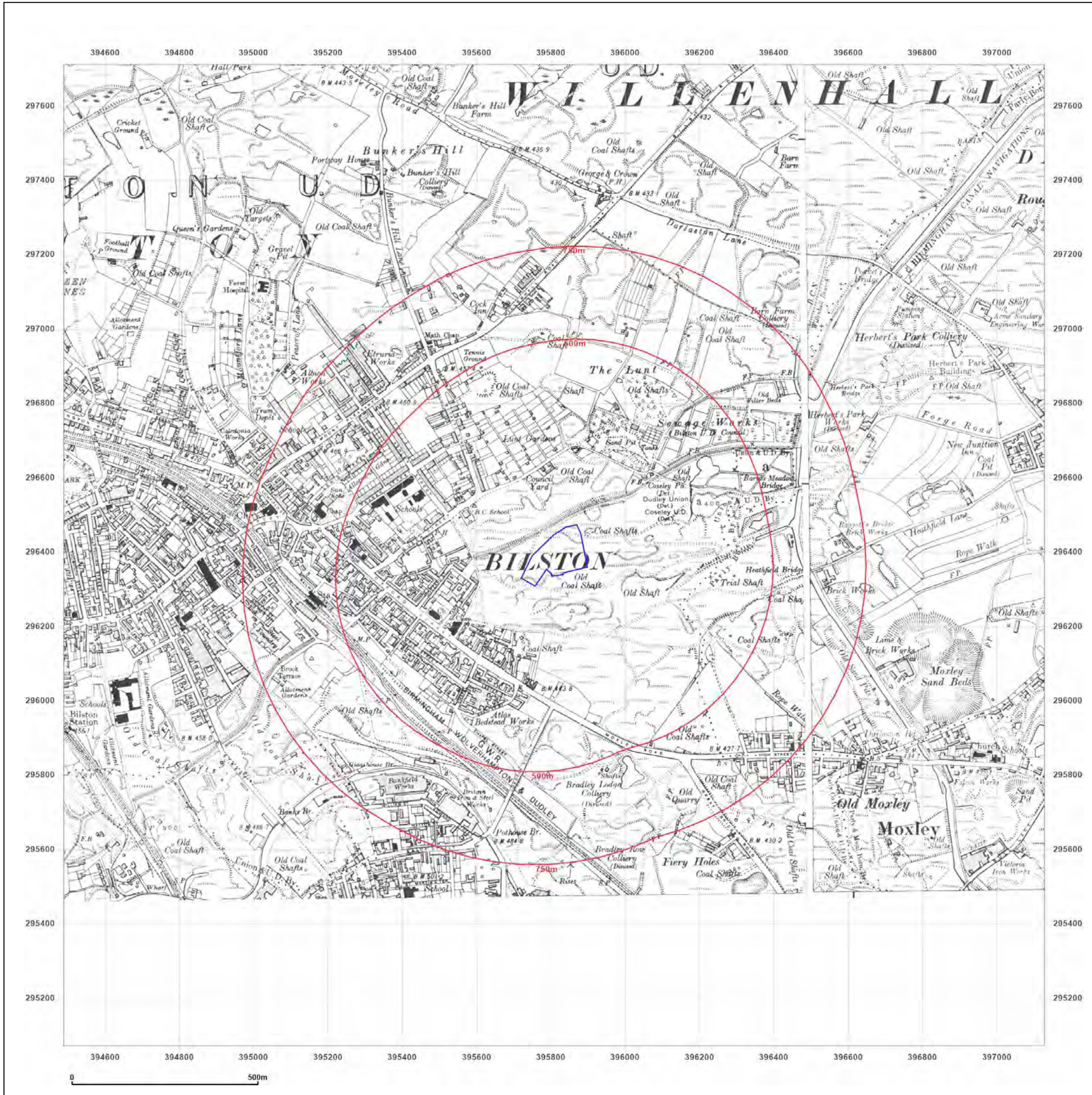


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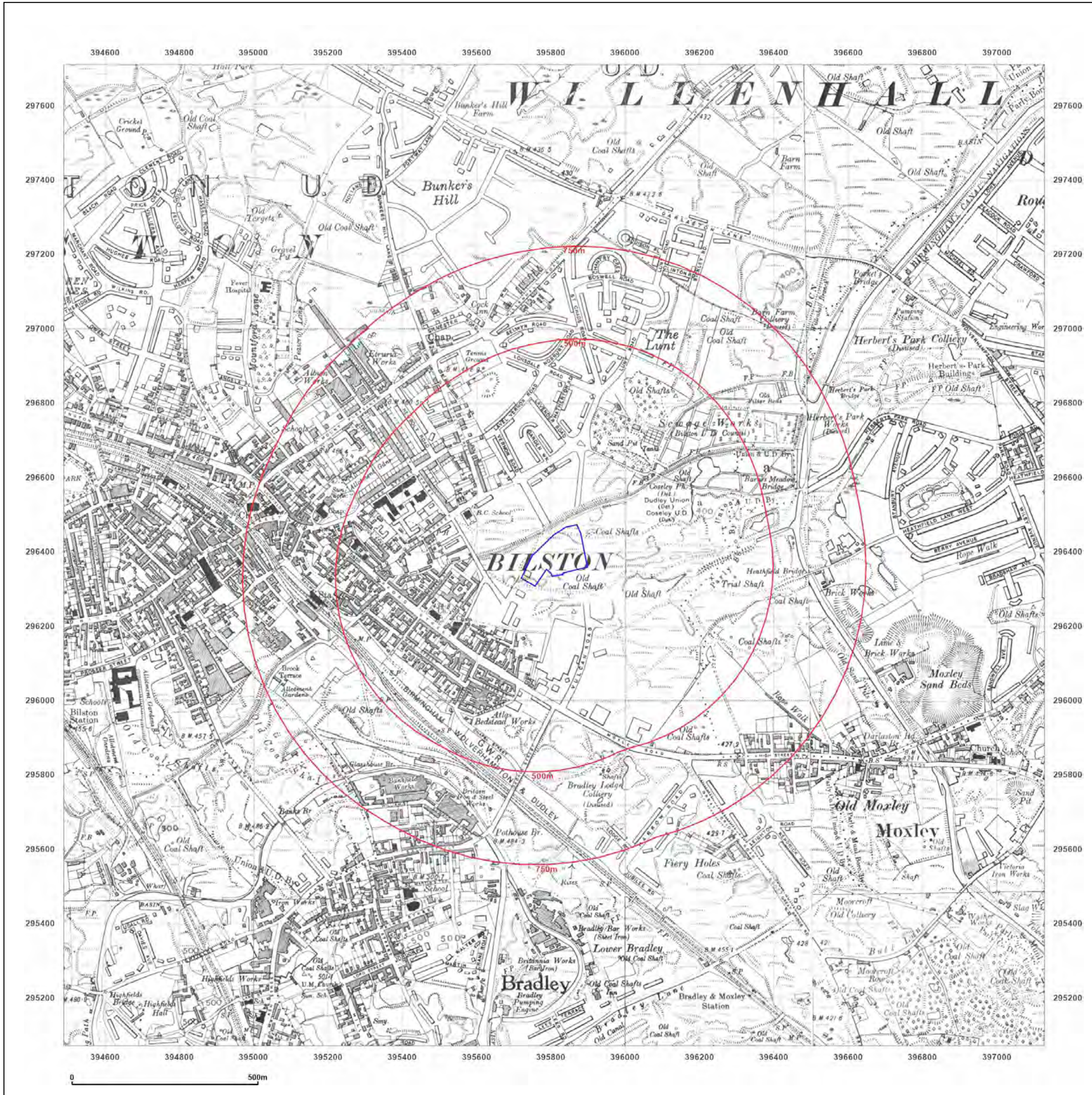


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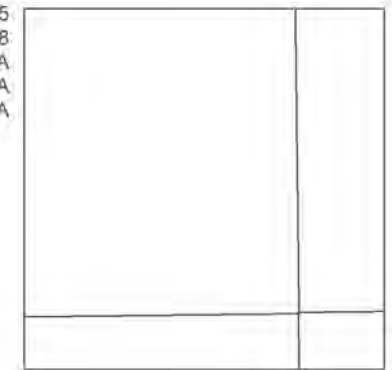
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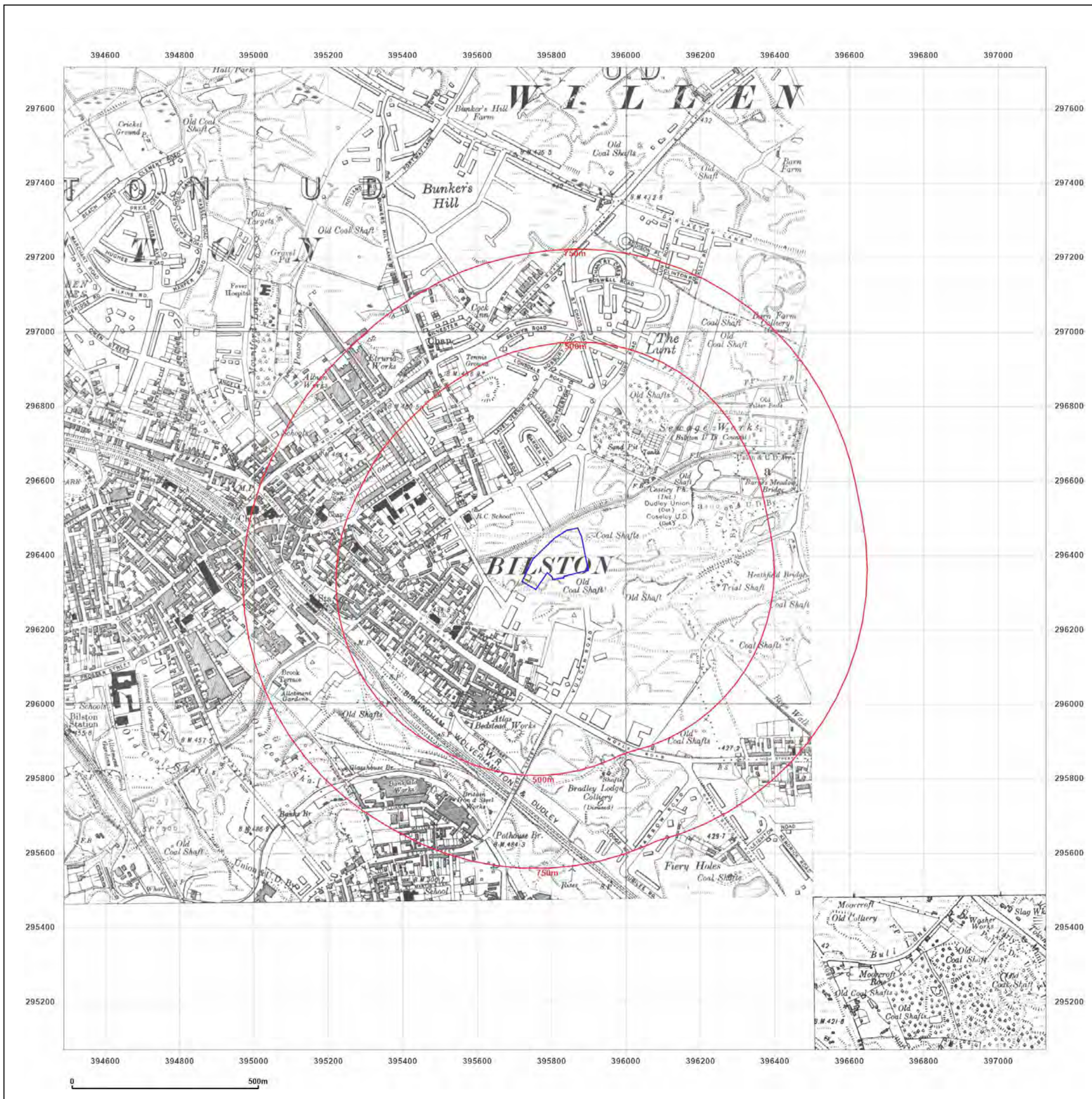


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Map Name: Provisional

Map date: 1953-1955

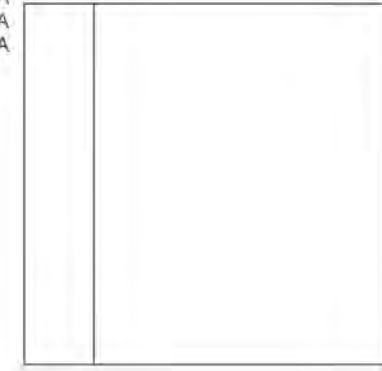
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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: Provisional

Map date: 1968

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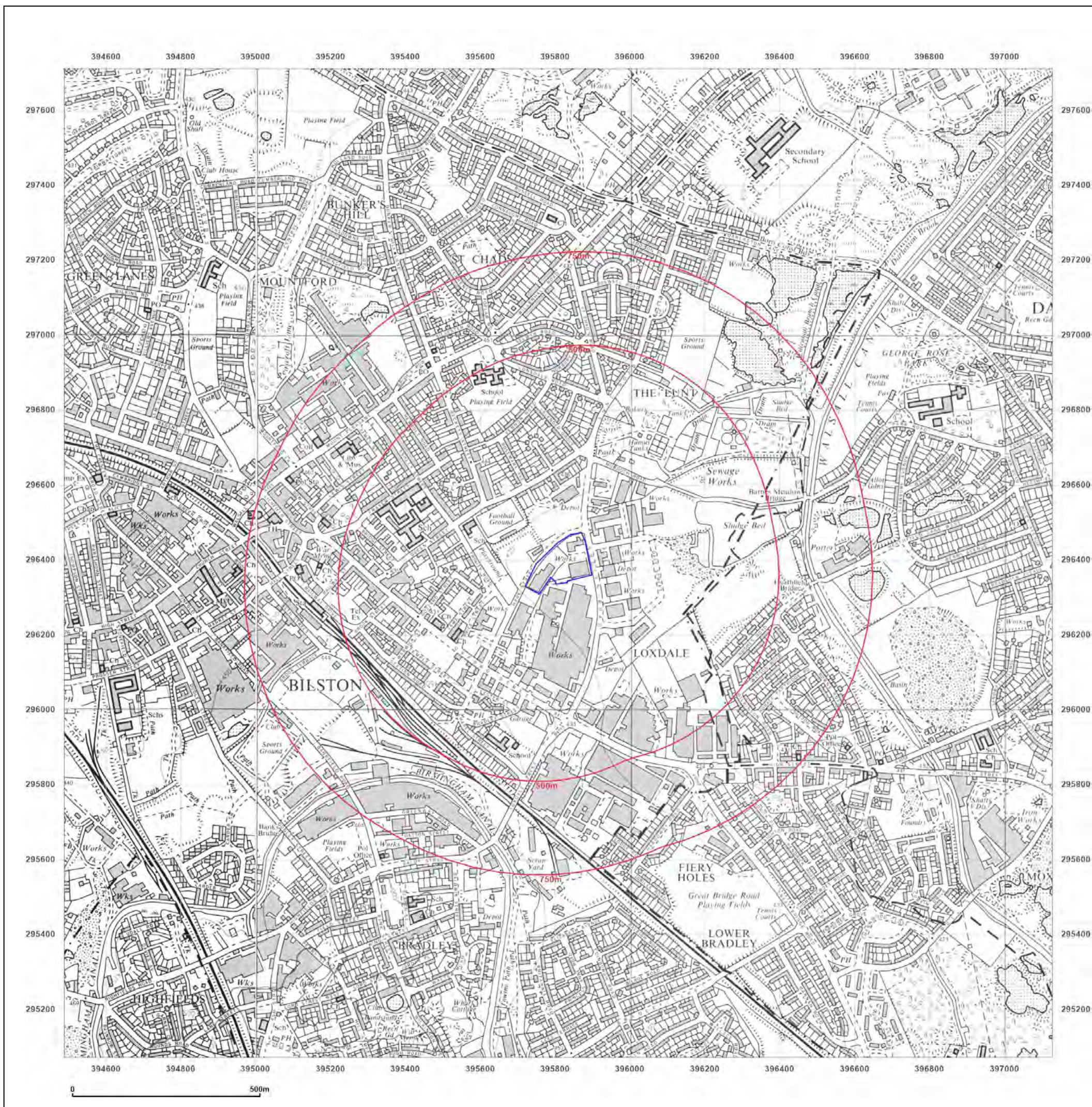


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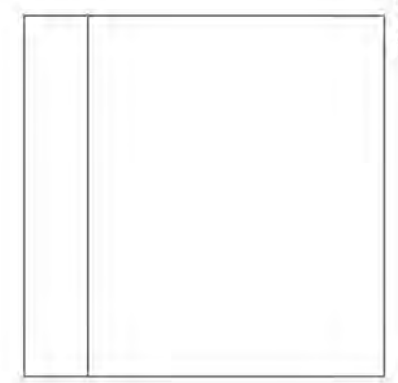
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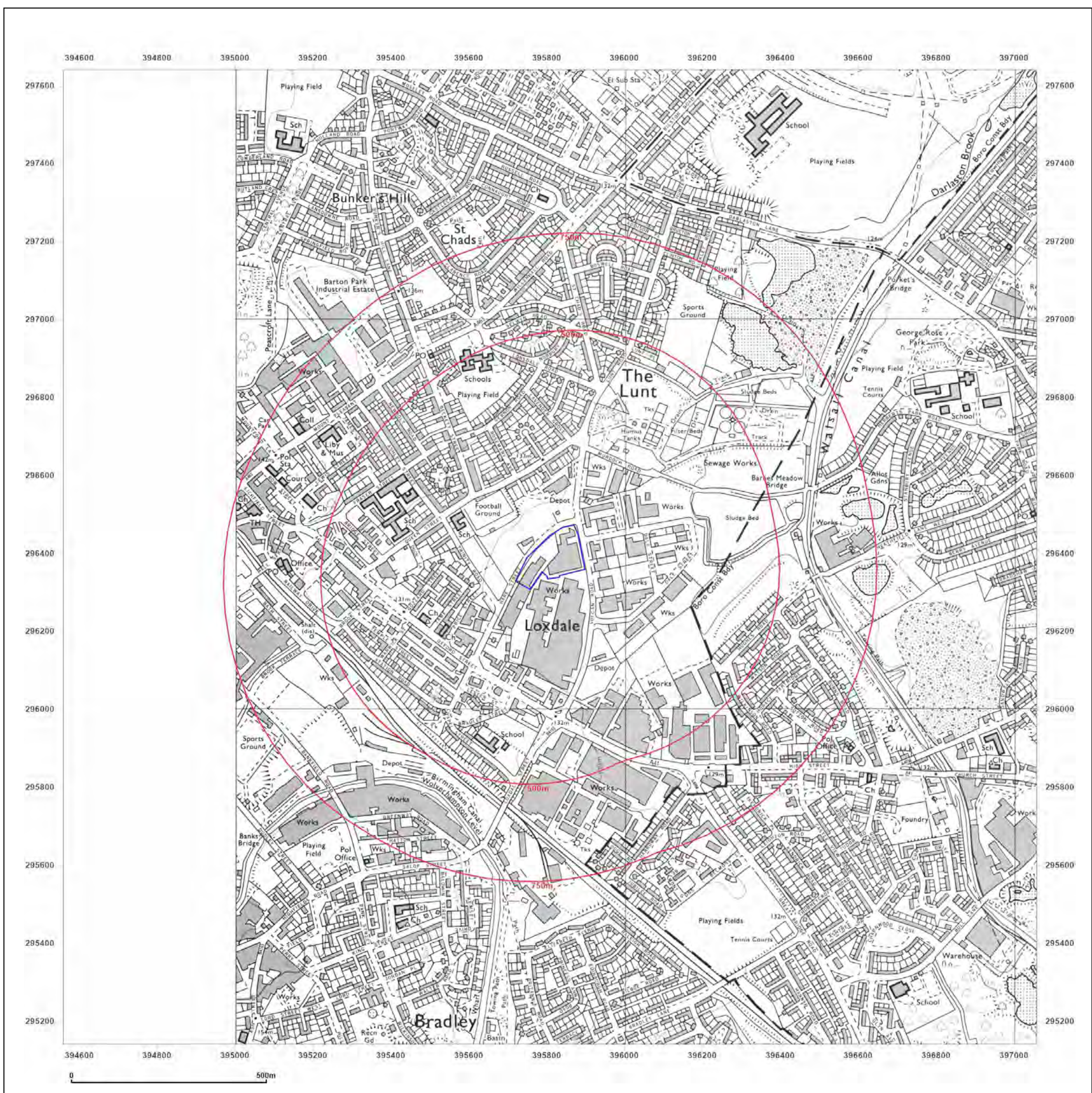


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Map date: 1988-1993

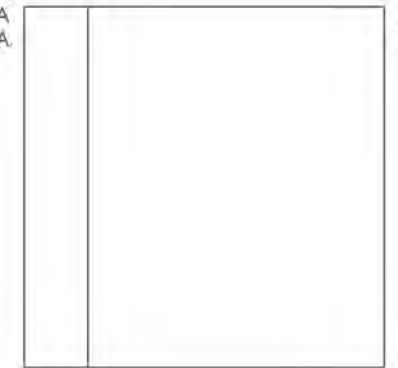
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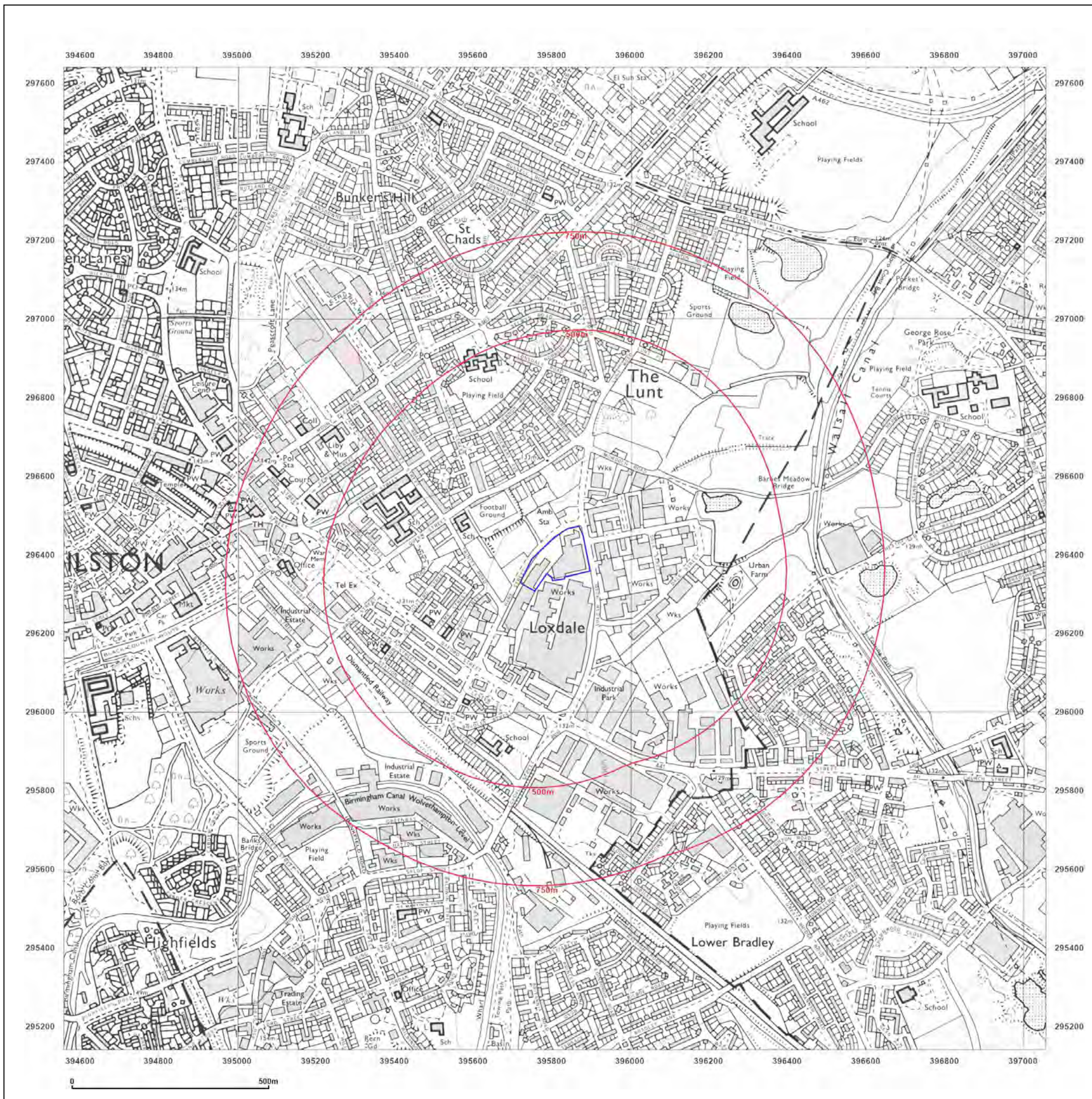


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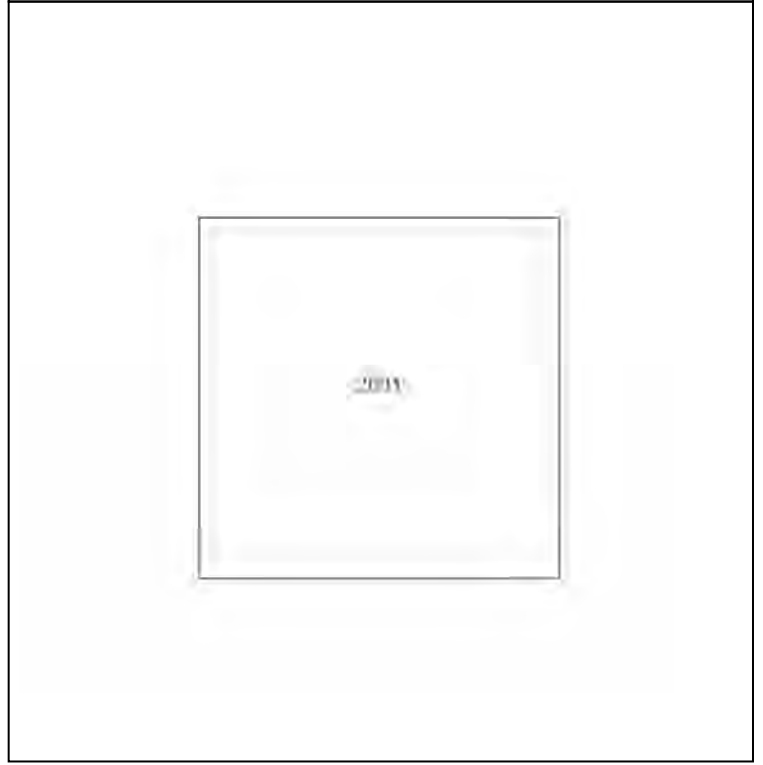
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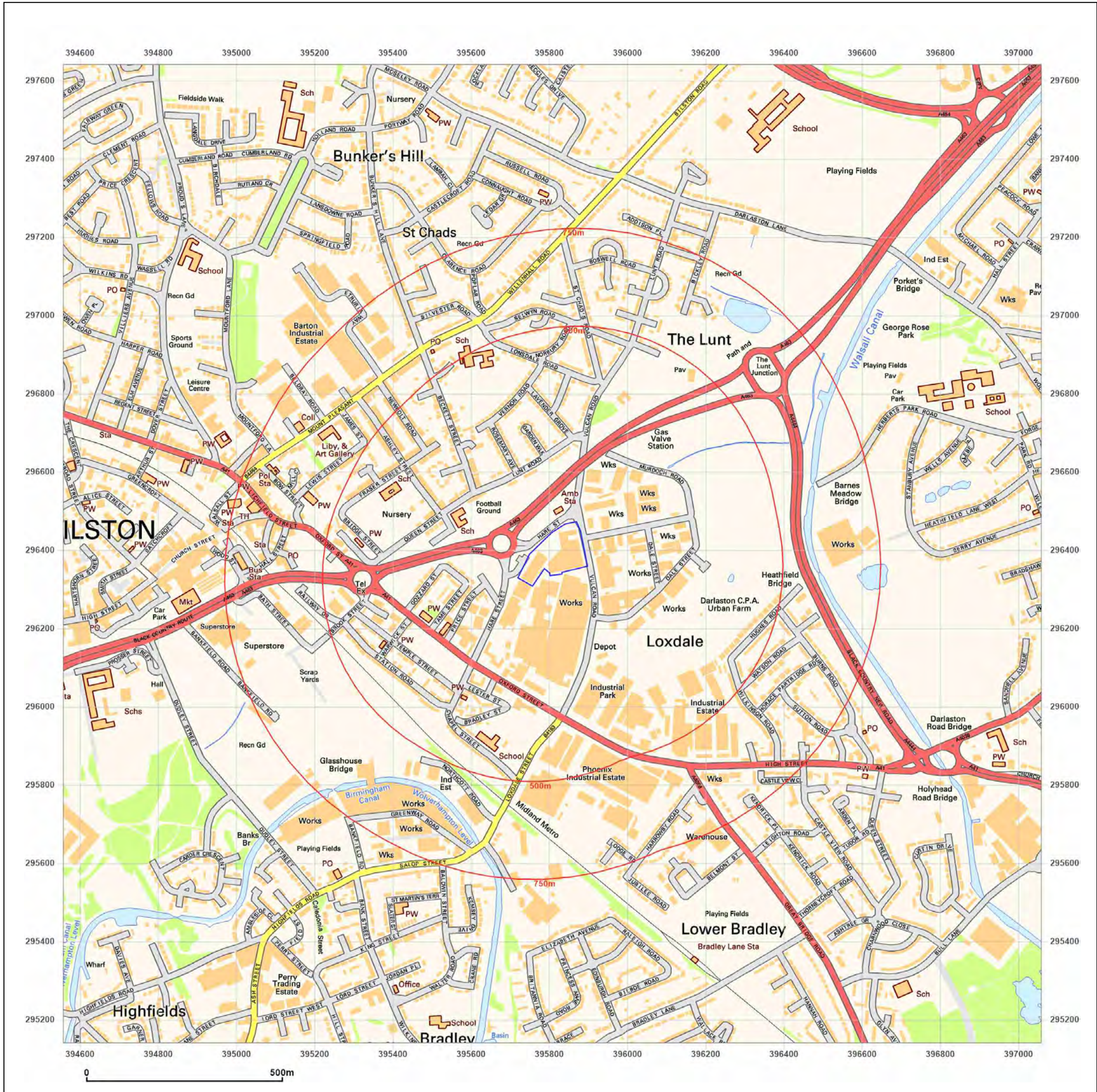


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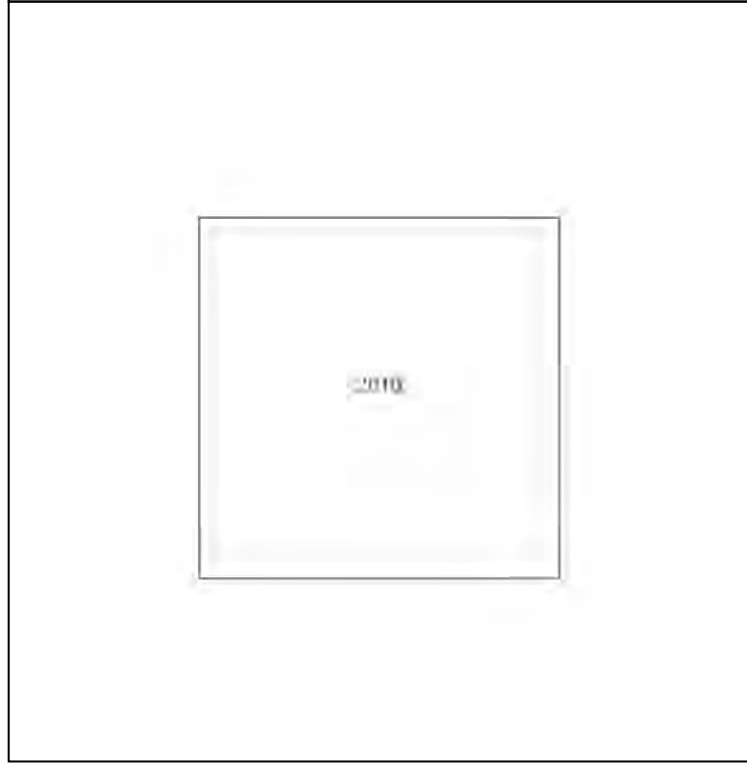
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Grid Ref: 395808, 296391

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

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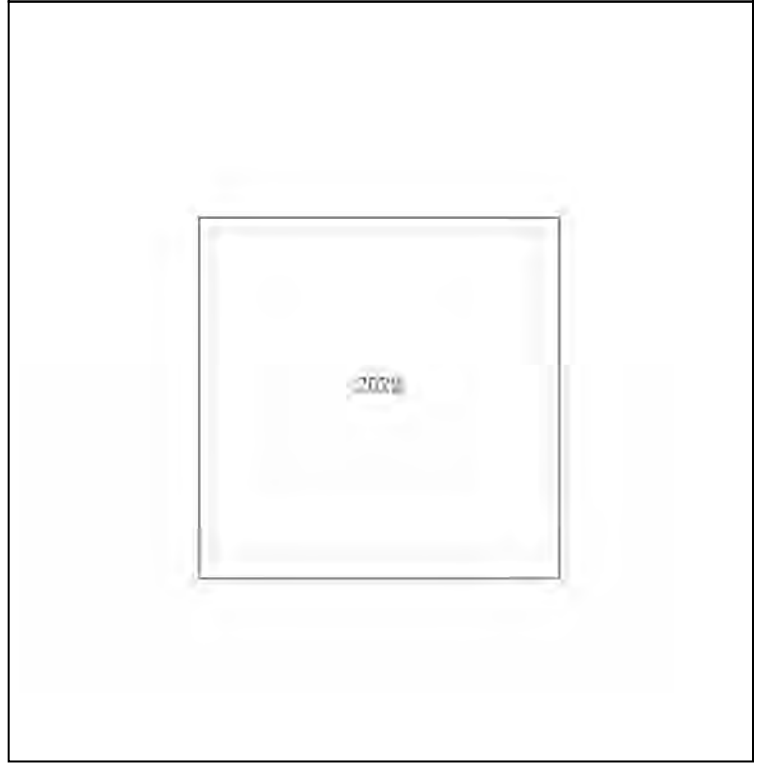
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Site Details:
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 012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
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Map date: 2023
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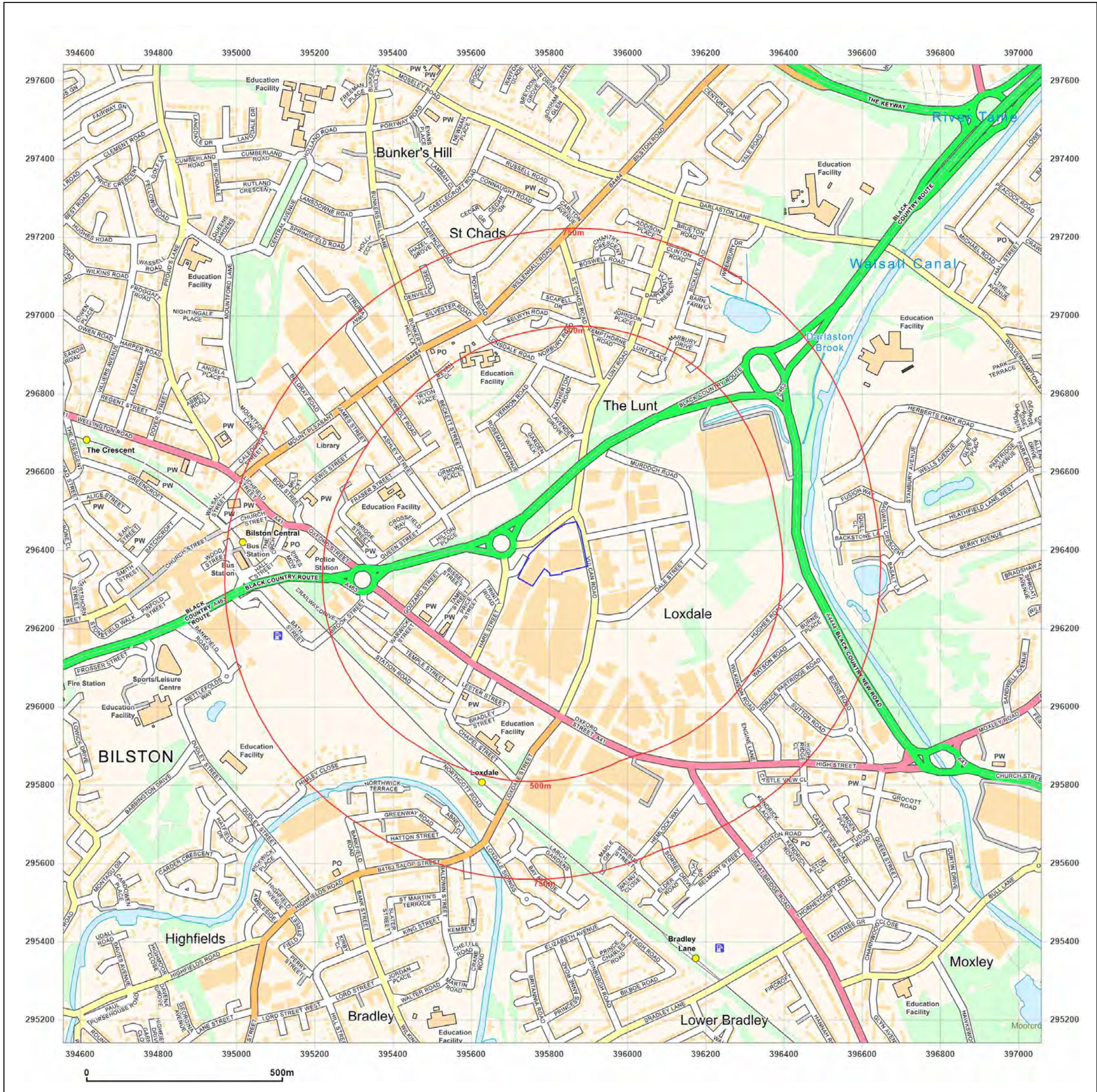
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APPENDIX 2 GROUNDSURE ENVIRO INSIGHTS REPORT – DALE STREET

396012 , 296517,

Order Details

Date: 20/03/2024
Your ref: VR-2370_CE-PO-2141
Our Ref: GS-EDR-FKU-AMC-QZ1

Site Details

Location: 396012 296517
Area: 0.36 ha
Authority: [City of Wolverhampton Council](#) ↗



Summary of findings

[p. 2 >](#)

Aerial image

[p. 9 >](#)

OS MasterMap site plan

[p.14 >](#)

groundsure.com/insightuserguide ↗

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
15 >	1.1 >	Historical industrial land uses >	10	26	202	266	-
34 >	1.2 >	Historical tanks >	0	1	19	25	-
36 >	1.3 >	Historical energy features >	0	0	8	8	-
37	1.4	Historical petrol stations	0	0	0	0	-
37 >	1.5 >	Historical garages >	0	2	9	4	-
38	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
39 >	2.1 >	Historical industrial land uses >	14	34	275	348	-
64 >	2.2 >	Historical tanks >	0	2	25	46	-
66 >	2.3 >	Historical energy features >	0	0	16	11	-
68	2.4	Historical petrol stations	0	0	0	0	-
68 >	2.5 >	Historical garages >	0	3	12	6	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
70	3.1	Active or recent landfill	0	0	0	0	-
70	3.2	Historical landfill (BGS records)	0	0	0	0	-
71 >	3.3 >	Historical landfill (LA/mapping records) >	0	2	0	0	-
71 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	2	3	-
72 >	3.5 >	Historical waste sites >	0	0	2	2	-
73 >	3.6 >	Licensed waste sites >	0	4	3	1	-
76 >	3.7 >	Waste exemptions >	0	1	3	12	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
78 >	4.1 >	Recent industrial land uses >	1	8	39	-	-
81 >	4.2 >	Current or recent petrol stations >	0	0	1	1	-
82	4.3	Electricity cables	0	0	0	0	-
82	4.4	Gas pipelines	0	0	0	0	-
82	4.5	Sites determined as Contaminated Land	0	0	0	0	-



82	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
82	4.7	Regulated explosive sites	0	0	0	0	-
83	4.8	Hazardous substance storage/usage	0	0	0	0	-
83 >	4.9 >	Historical licensed industrial activities (IPC) >	0	0	0	6	-
84 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	35	-
90 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	2	-
90	4.12	Radioactive Substance Authorisations	0	0	0	0	-
90 >	4.13 >	Licensed Discharges to controlled waters >	0	0	7	0	-
92	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
92 >	4.15 >	Pollutant release to public sewer >	0	1	0	0	-
92 >	4.16 >	List 1 Dangerous Substances >	0	0	0	1	-
92 >	4.17 >	List 2 Dangerous Substances >	0	0	0	4	-
93 >	4.18 >	Pollution Incidents (EA/NRW) >	0	1	13	6	-
95 >	4.19 >	Pollution inventory substances >	0	0	0	4	-
97 >	4.20 >	Pollution inventory waste transfers >	0	0	0	1	-
98	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
99 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
101 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
102 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
103	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
103	5.5	Groundwater vulnerability- local information	None (within 0m)				
105 >	5.6 >	Groundwater abstractions >	0	0	0	0	16
109 >	5.7 >	Surface water abstractions >	0	0	0	0	1
109	5.8	Potable abstractions	0	0	0	0	0
110	5.9	Source Protection Zones	0	0	0	0	-
110	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
111 >	6.1 >	Water Network (OS MasterMap) >	0	0	1	-	-



112 >	6.2 >	Surface water features >	0	0	1	-	-
112 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
112 >	6.4 >	WFD Surface water bodies >	0	0	1	-	-
113 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
114 >	7.1 >	Risk of flooding from rivers and the sea >	Medium (within 50m)				
115	7.2	Historical Flood Events	0	0	0	-	-
115	7.3	Flood Defences	0	0	0	-	-
115	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
115	7.5	Flood Storage Areas	0	0	0	-	-
116 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
117 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
118 >	8.1 >	Surface water flooding >	1 in 30 year, 0.3m - 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
120 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
121	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
122	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
122	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
122	10.4	Special Protection Areas (SPA)	0	0	0	0	0
122	10.5	National Nature Reserves (NNR)	0	0	0	0	0
123 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
123	10.7	Designated Ancient Woodland	0	0	0	0	0
123	10.8	Biosphere Reserves	0	0	0	0	0
123	10.9	Forest Parks	0	0	0	0	0
124	10.10	Marine Conservation Zones	0	0	0	0	0
124	10.11	Green Belt	0	0	0	0	0
124	10.12	Proposed Ramsar sites	0	0	0	0	0



124	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
124	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
125	10.15	Nitrate Sensitive Areas	0	0	0	0	0
125 >	10.16 >	Nitrate Vulnerable Zones >	1	0	0	1	2
126 >	10.17 >	SSSI Impact Risk Zones >	1	-	-	-	-
127	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
128	11.1	World Heritage Sites	0	0	0	-	-
128	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
128	11.3	National Parks	0	0	0	-	-
128	11.4	Listed Buildings	0	0	0	-	-
129	11.5	Conservation Areas	0	0	0	-	-
129	11.6	Scheduled Ancient Monuments	0	0	0	-	-
129	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
130 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
131	12.2	Open Access Land	0	0	0	-	-
131	12.3	Tree Felling Licences	0	0	0	-	-
131	12.4	Environmental Stewardship Schemes	0	0	0	-	-
131	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
132	13.1	Priority Habitat Inventory	0	0	0	-	-
132	13.2	Habitat Networks	0	0	0	-	-
133 >	13.3 >	Open Mosaic Habitat >	0	0	2	-	-
133	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
134 >	14.1 >	10k Availability >	Identified (within 500m)				
135 >	14.2 >	Artificial and made ground (10k) >	1	0	0	4	-
137 >	14.3 >	Superficial geology (10k) >	1	1	3	3	-



138	14.4	Landslip (10k)	0	0	0	0	-
139 >	14.5 >	Bedrock geology (10k) >	1	2	3	10	-
140 >	14.6 >	Bedrock faults and other linear features (10k) >	0	2	4	13	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
142 >	15.1 >	50k Availability >	Identified (within 500m)				
143 >	15.2 >	Artificial and made ground (50k) >	1	0	1	2	-
144 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
145 >	15.4 >	Superficial geology (50k) >	1	0	6	4	-
146 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
146	15.6	Landslip (50k)	0	0	0	0	-
146	15.7	Landslip permeability (50k)	None (within 50m)				
147 >	15.8 >	Bedrock geology (50k) >	1	1	2	10	-
148 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
149 >	15.10 >	Bedrock faults and other linear features (50k) >	0	2	7	17	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
151 >	16.1 >	BGS Boreholes >	0	2	101	-	-
Page	Section	Natural ground subsidence >					
157 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
158 >	17.2 >	Running sands >	Low (within 50m)				
160 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
162 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
163 >	17.5 >	Landslides >	Very low (within 50m)				
164 >	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
166 >	18.1 >	BritPits >	0	0	0	1	-
167 >	18.2 >	Surface ground workings >	6	16	171	-	-
174 >	18.3 >	Underground workings >	0	6	38	67	170
184 >	18.4 >	Underground mining extents >	0	0	4	9	-
185 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-



186 >	18.6 >	Non-coal mining >	1	2	11	28	43
195 >	18.7 >	JPB mining areas >	Identified (within 0m)				
196 >	18.8 >	The Coal Authority non-coal mining >	0	1	9	19	-
197 >	18.9 >	Researched mining >	0	0	1	4	-
198 >	18.10 >	Mining record office plans >	0	0	0	1	-
198 >	18.11 >	BGS mine plans >	2	0	1	2	-
198 >	18.12 >	Coal mining >	Identified (within 0m)				
199	18.13	Brine areas	None (within 0m)				
199	18.14	Gypsum areas	None (within 0m)				
199	18.15	Tin mining	None (within 0m)				
199	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
200	19.1	Natural cavities	0	0	0	0	-
200	19.2	Mining cavities	0	0	0	0	0
200	19.3	Reported recent incidents	0	0	0	0	-
200	19.4	Historical incidents	0	0	0	0	-
201	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
202 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
204 >	21.1 >	BGS Estimated Background Soil Chemistry >	10	4	-	-	-
205 >	21.2 >	BGS Estimated Urban Soil Chemistry >	4	2	-	-	-
205	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
206	22.1	Underground railways (London)	0	0	0	-	-
206	22.2	Underground railways (Non-London)	0	0	0	-	-
207	22.3	Railway tunnels	0	0	0	-	-
207 >	22.4 >	Historical railway and tunnel features >	0	1	9	-	-
207	22.5	Royal Mail tunnels	0	0	0	-	-



208	22.6	Historical railways	0	0	0	-	-
208	22.7	Railways	0	0	0	-	-
208	22.8	Crossrail 1	0	0	0	0	-
208	22.9	Crossrail 2	0	0	0	0	-
208	22.10	HS2	0	0	0	0	-



Recent aerial photograph



Capture Date: 30/04/2022

Site Area: 0.36ha



Recent site history - 2019 aerial photograph



Capture Date: 14/09/2019

Site Area: 0.36ha



Recent site history - 2013 aerial photograph

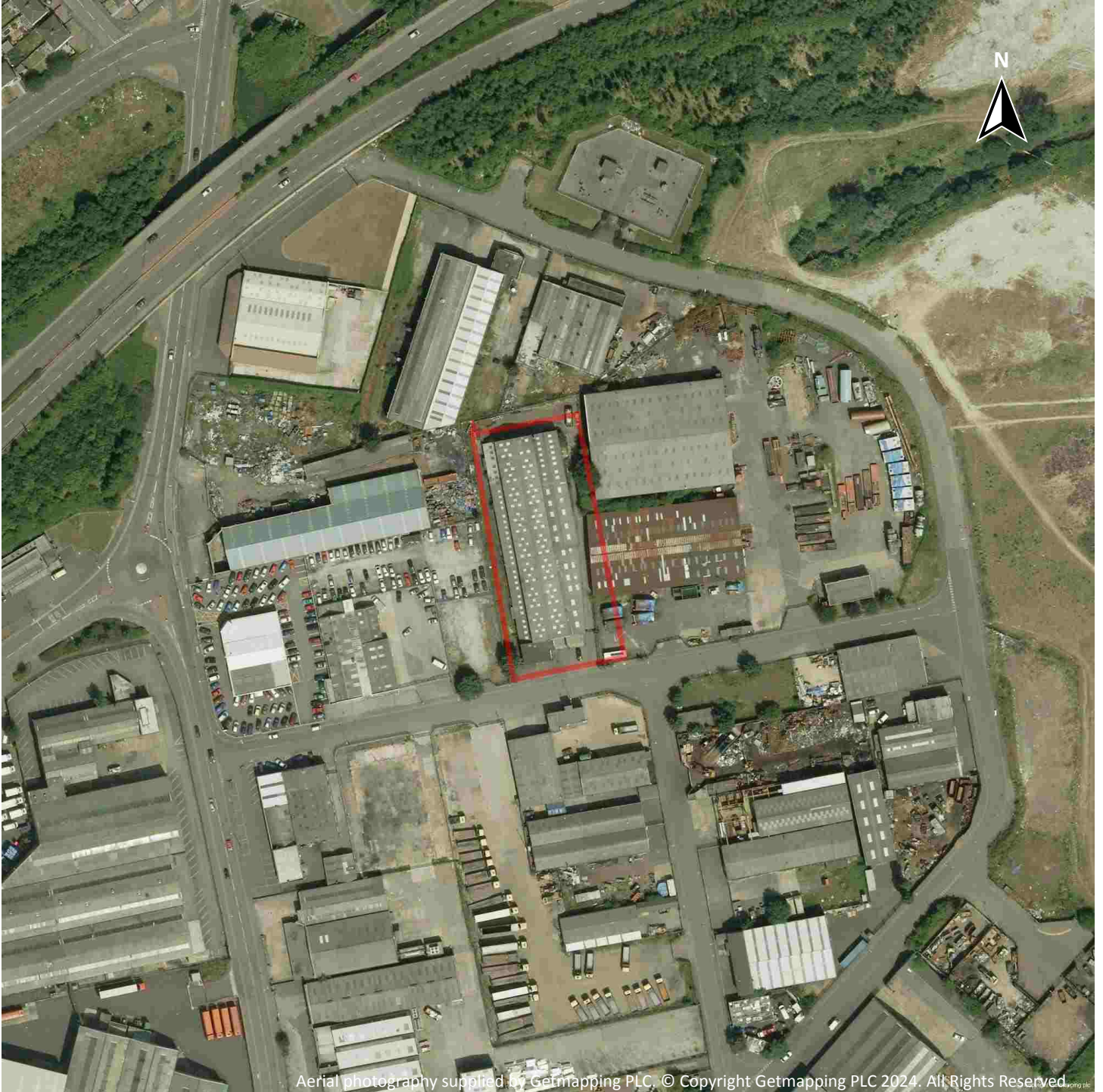


Capture Date: 09/07/2013

Site Area: 0.36ha



Recent site history - 2006 aerial photograph



Capture Date: 16/07/2006

Site Area: 0.36ha



Recent site history - 1999 aerial photograph

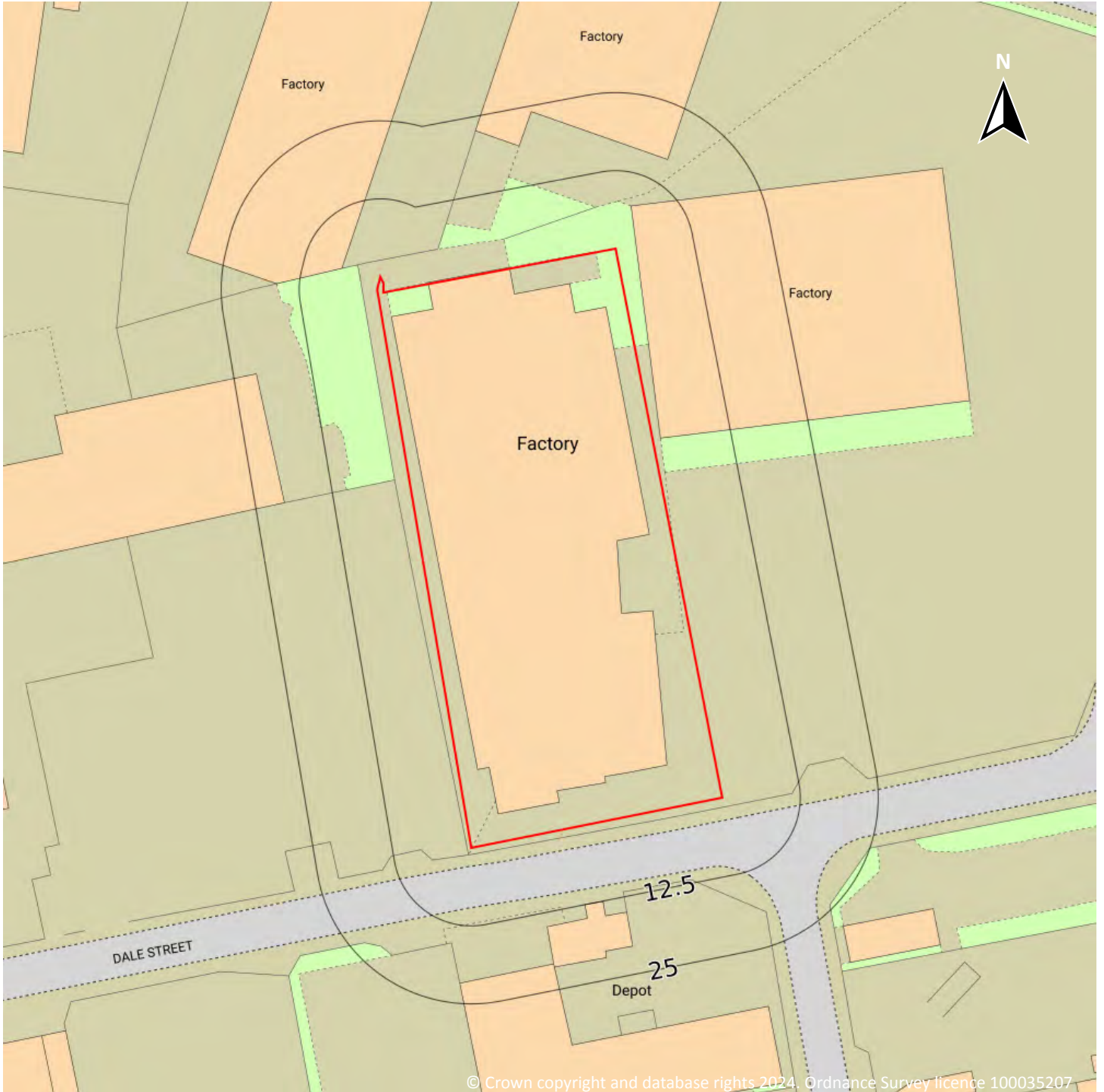


Capture Date: 27/07/1999

Site Area: 0.36ha



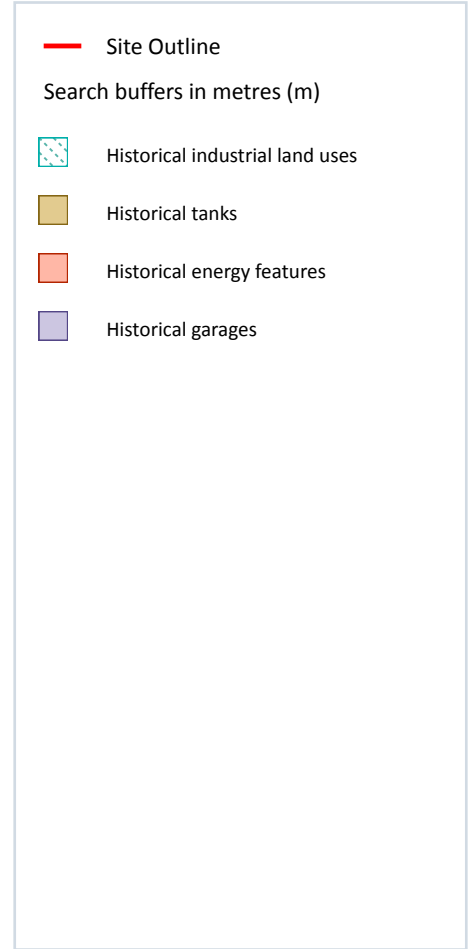
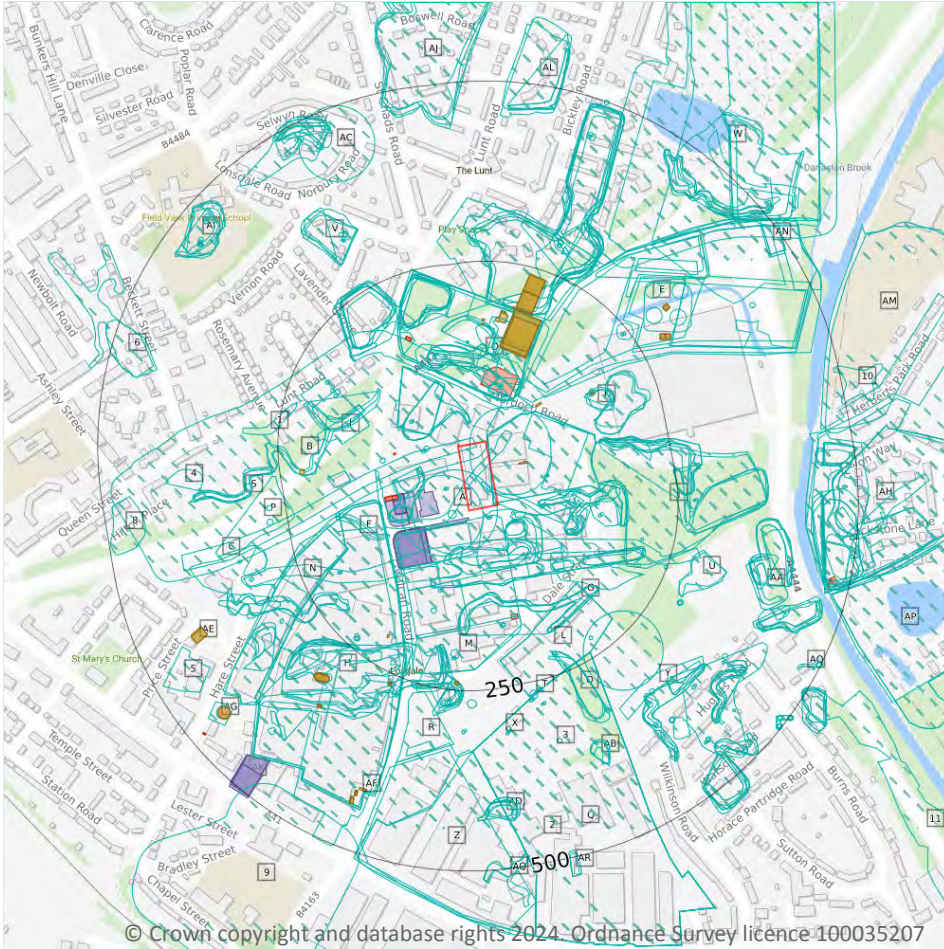
OS MasterMap site plan



Site Area: 0.36ha



1 Past land use



1.1 Historical industrial land uses

Records within 500m **504**

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

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

ID	Location	Land use	Dates present	Group ID
A	On site	Sand Pit	1955	996281



ID	Location	Land use	Dates present	Group ID
A	On site	Sand Pit	1955	996282
A	On site	Sludge Bed	1968	1009085
A	On site	Unspecified Works	1978	1063487
A	On site	Coal Shafts	1920	1083759
A	On site	Unspecified Works	1988 - 1993	1096720
A	On site	Unspecified Works	1968 - 1974	1112749
A	On site	Coal Shafts	1919	1155658
B	On site	Unspecified Yard	1919 - 1920	1127980
C	On site	Cuttings	1919 - 1938	1145336
A	7m S	Unspecified Heap	1885	1039989
A	12m S	Unspecified Shafts	1886	1066247
A	13m SE	Unspecified Works	1988 - 1993	1041872
A	13m S	Unspecified Shafts	1885	1088064
A	17m S	Unspecified Works	1968	1059983
A	18m SW	Coal Shafts	1919	1054552
A	22m SE	Unspecified Old Shafts	1885	993081
A	23m W	Unspecified Shafts	1886	1138018
A	25m W	Unspecified Shafts	1885	1055329
A	26m SE	Unspecified Ground Workings	1886	1133276
A	28m N	Unspecified Pit	1938	1095174
A	28m N	Unspecified Pit	1919	1127931
A	28m N	Unspecified Pit	1901 - 1938	1123386
A	29m SE	Unspecified Heap	1901 - 1920	1137207
A	29m SE	Unspecified Ground Workings	1938	1059727
A	29m SE	Unspecified Ground Workings	1919	1143963
A	32m SE	Unspecified Heap	1955	1080428
A	32m SE	Coal Shafts	1938	993516
A	39m SE	Refuse Heap	1968 - 1974	1068292



ID	Location	Land use	Dates present	Group ID
A	40m NW	Unspecified Shaft	1901	1009414
A	40m NW	Unspecified Works	1988 - 1993	1079743
A	40m NW	Unspecified Works	1978	1139598
A	41m NW	Unspecified Works	1974	1127779
A	44m NW	Unspecified Shafts	1886	1145091
A	45m S	Tramway Sidings	1885 - 1886	1143531
A	46m NW	Unspecified Shafts	1885	1113127
A	51m S	Unspecified Ground Workings	1955	1140449
D	51m N	Colliery	1885 - 1886	1150627
A	52m NE	Sludge Beds	1955	1022432
A	53m W	Unspecified Ground Workings and Heaps	1938	1112002
A	53m W	Unspecified Ground Workings and Heaps	1919	1152347
A	54m S	Unspecified Ground Workings	1901 - 1938	1061566
A	55m W	Unspecified Heap	1901 - 1938	1070461
A	56m SE	Unspecified Ground Workings	1938	1121691
A	56m SE	Unspecified Ground Workings	1919	1152586
A	57m SE	Unspecified Ground Workings	1919 - 1938	1143785
A	58m SE	Unspecified Old Shafts	1885	1099702
D	60m N	Disused Colliery	1901	1015519
D	60m N	Sewage Works	1920 - 1938	1077244
A	60m SE	Unspecified Old Shafts	1886	1118818
E	61m N	Sewage Works	1919	1114785
D	62m N	Sewage Works	1938	1122343
E	62m N	Sewage Works	1919	1040747
D	66m N	Unspecified Shafts	1885	1005706
D	68m N	Unspecified Pit	1901	1030688
D	69m N	Unspecified Ground Workings	1919	998841
D	69m N	Unspecified Shafts	1886	1005707



ID	Location	Land use	Dates present	Group ID
A	70m NW	Unspecified Shafts	1886	1127987
A	71m NW	Unspecified Shafts	1885	1088249
A	71m E	Unspecified Old Shafts	1885	1147935
A	73m S	Unspecified Shafts	1885	1005708
D	74m N	Cuttings	1920 - 1938	1121342
A	74m E	Unspecified Old Shafts	1886	1135549
D	76m N	Cuttings	1919	1077407
D	77m N	Unspecified Shafts	1885	1128431
A	77m S	Unspecified Shafts	1886	1005711
D	79m N	Unspecified Shafts	1886	1145788
A	79m SW	Refuse Heap	1919 - 1920	1069001
A	79m SW	Coal Shafts	1938	1140653
D	79m NE	Railway Sidings	1919 - 1938	1087837
A	79m SE	Unspecified Works	1978	1021044
A	80m NW	Unspecified Shafts	1886	1061666
A	81m NW	Unspecified Shafts	1885	1094088
D	82m NE	Railway Sidings	1919	1116394
A	84m SW	Unspecified Depot	1968	1012750
A	89m S	Unspecified Pit	1955	1030693
A	89m SW	Unspecified Heap	1955	1002128
A	90m E	Unspecified Heap	1901	1125407
D	90m N	Unspecified Pit	1901	1030687
A	97m S	Unspecified Works	1968 - 1974	1093861
D	99m N	Sand Pit	1919 - 1920	1153828
A	100m SE	Unspecified Pit	1955	1030694
D	101m N	Sand Pit	1938	1120205
D	101m N	Sand Pit	1919	1146062
E	102m NE	Sewage Works	1978	1049120



ID	Location	Land use	Dates present	Group ID
A	103m W	Coal Shaft	1901	1021248
D	104m N	Refuse Heap	1938	1020256
A	106m SE	Unspecified Ground Workings	1901	1087975
D	107m N	Unspecified Pit	1955	1030690
D	110m N	Unspecified Shafts	1886	1119512
D	110m N	Unspecified Shafts	1885	1124304
A	111m SE	Unspecified Pit	1955	1055933
A	111m SE	Unspecified Pit	1901 - 1938	1091573
D	112m N	Unspecified Ground Workings	1886	998843
E	114m NE	Filter Beds	1978	1009821
A	114m S	Unspecified Shafts	1886	1126656
F	115m SW	Unspecified Ground Workings	1901 - 1938	1114949
A	116m S	Unspecified Shafts	1885	1107164
G	117m S	Refuse Heap	1919	1154535
F	117m SW	Unspecified Ground Workings	1919	1103777
G	117m S	Refuse Heap	1938	1069596
G	117m S	Refuse Heap	1919	1155009
D	118m N	Unspecified Heap	1885	1038393
H	118m SW	Unspecified Works	1978	1068893
G	119m S	Refuse Heap	1920 - 1938	1060049
H	120m SW	Unspecified Works	1974	1151806
H	120m SW	Unspecified Works	1968	1052758
H	120m SW	Unspecified Works	1988 - 1993	1062266
I	126m NW	Unspecified Depot	1968 - 1978	1115910
I	126m NW	Unspecified Ground Workings	1886	1117289
A	127m E	Unspecified Heap	1885	1154895
I	129m NW	Unspecified Heap	1885	1002131
D	130m N	Unspecified Heap	1955	1061646



ID	Location	Land use	Dates present	Group ID
D	131m N	Unspecified Tanks	1968 - 1978	1043326
H	132m SW	Tube Works	1955	1004185
A	133m E	Unspecified Shafts	1885	1057514
A	136m E	Unspecified Shafts	1886	1089824
B	138m NW	Ground Workings and Refuse Heap	1919	1007367
D	139m N	Unspecified Shafts	1886	1005705
J	139m E	Sludge Bed	1968	1038740
J	139m E	Sludge Bed	1974 - 1978	1147864
A	139m SE	Unspecified Pit	1955	1100305
A	139m SE	Unspecified Pit	1919	1096909
D	139m N	Unspecified Tanks	1938	1079208
D	139m N	Unspecified Tanks	1920	1139989
A	140m SE	Unspecified Pit	1920 - 1938	1057617
I	140m NW	Unspecified Ground Workings	1901 - 1919	1102886
A	140m E	Unspecified Shafts	1885	1073445
D	142m N	Unspecified Tanks	1919	1121389
D	142m N	Unspecified Tanks	1938	1036856
A	143m E	Unspecified Shafts	1886	1061628
A	143m S	Coal Shaft	1901	1021249
K	150m NE	Unspecified Ground Workings	1978	1037776
K	150m NE	Unspecified Heap	1974	1002114
K	153m NE	Unspecified Pit	1901 - 1919	1076382
K	154m NE	Unspecified Pit	1885	1153592
J	154m E	Unspecified Pit	1885	1061248
L	154m SE	Unspecified Works	1988 - 1993	1057143
L	154m SE	Unspecified Works	1978	1143994
K	154m NE	Unspecified Pit	1886	1051547
C	155m W	Ambulance Station	1988 - 1993	1109663



ID	Location	Land use	Dates present	Group ID
J	155m E	Unspecified Ground Workings	1886	1149578
K	155m NE	Unspecified Ground Workings	1968	1085394
M	157m S	Unspecified Works	1978	1103042
K	157m NE	Unspecified Shaft	1885	1044707
K	160m NE	Unspecified Old Shaft	1919	1098649
K	160m NE	Unspecified Shaft	1886	1073561
K	161m NE	Unspecified Old Shaft	1919 - 1938	1036560
J	161m E	Unspecified Ground Workings	1938	1050418
J	161m E	Unspecified Ground Workings	1919	1140558
G	162m S	Unspecified Old Shaft	1919 - 1938	1089726
G	162m S	Unspecified Old Shaft	1919	1145365
J	162m E	Unspecified Ground Workings	1955	1111295
J	166m E	Unspecified Ground Workings	1919	1126886
D	166m N	Unspecified Tanks	1968 - 1974	1039223
D	173m NW	Unspecified Heap	1938	1107073
D	174m NW	Unspecified Heap	1885	1054712
D	174m NW	Unspecified Heap	1988 - 1993	1060777
D	174m NW	Unspecified Heap	1968 - 1978	1132475
D	174m NW	Unspecified Heap	1885	1085749
D	174m N	Unspecified Ground Workings	1886	998844
N	176m SW	Unspecified Works	1968	1060977
D	176m NW	Unspecified Heap	1901	1146142
H	177m SW	Unspecified Commercial/Industrial	1974	995880
D	178m NW	Unspecified Heap	1919 - 1920	1047363
I	179m NW	Old Coal Shaft	1901 - 1919	1129168
B	179m W	Refuse Heap	1919	1020231
D	180m N	Unspecified Heap	1938 - 1955	1056825
D	181m N	Unspecified Heap	1919	1085025



ID	Location	Land use	Dates present	Group ID
I	181m NW	Unspecified Shafts	1885 - 1886	1136196
D	183m N	Unspecified Heap	1938	1046183
D	183m NW	Unspecified Heap	1901	1059981
D	183m NW	Unspecified Heap	1919	1086974
D	186m N	Unspecified Heap	1920	1059502
I	186m NW	Old Coal Shaft	1920	992332
D	187m N	Unspecified Ground Workings	1938	1070275
D	187m N	Unspecified Ground Workings	1919	1089952
D	187m N	Unspecified Ground Workings	1901	1051457
D	188m NW	Unspecified Heap	1920	1108115
I	188m NW	Council Yard	1919	1003917
D	188m NW	Ground Workings and Refuse Heap	1919	1007372
H	189m S	Unspecified Ground Workings	1919	1104991
H	190m S	Unspecified Ground Workings	1901 - 1919	1038957
D	191m N	Unspecified Heap	1885	1082791
M	192m S	Unspecified Ground Workings	1886	1147411
D	193m N	Unspecified Tanks	1968 - 1978	1054884
M	193m S	Unspecified Ground Workings	1938	1056286
M	193m S	Unspecified Heap	1885	1002127
M	193m S	Unspecified Pit	1901	1030692
H	193m S	Unspecified Ground Workings	1920	1142299
M	194m S	Unspecified Ground Workings	1938	1081901
D	194m N	Unspecified Ground Workings	1886	1059485
N	195m SW	Coal Pits	1886	1107515
N	198m SW	Coal Pits	1885	1147801
I	199m NW	Unspecified Shafts	1885 - 1886	1062304
H	203m SW	Unspecified Heap	1885	1077622
M	204m S	Unspecified Old Shafts	1886	1077981



ID	Location	Land use	Dates present	Group ID
A	204m E	Unspecified Shafts	1885	1005709
M	205m S	Unspecified Old Shafts	1885	1145132
H	206m S	Unspecified Ground Workings	1886	1155283
A	208m SE	Unspecified Shafts	1885 - 1886	1080345
H	209m SW	Unspecified Ground Workings	1901 - 1938	1086185
L	211m SE	Unspecified Old Shaft	1885 - 1886	1132651
H	213m SW	Unspecified Ground Workings	1938	1103633
H	213m SW	Unspecified Ground Workings	1919	1146137
O	217m SE	Unspecified Heap	1938	1095096
O	217m SE	Unspecified Heap	1919	1155082
H	218m SW	Unspecified Heap	1901 - 1919	1072082
O	218m SE	Unspecified Heap	1901 - 1938	1065278
O	222m S	Unspecified Heap	1886	1071691
L	223m SE	Old Coal Shafts	1901	1025994
D	228m N	Unspecified Heap	1938	1098518
D	230m N	Unspecified Ground Workings	1919	1098681
H	230m SW	Old Coal Shaft	1919	1057115
H	230m SW	Unspecified Ground Workings	1938	1105536
1	231m W	Unspecified Ground Workings	1901	998846
H	232m SW	Old Coal Shaft	1938	1094745
H	233m SW	Old Coal Shaft	1920 - 1938	1123642
E	234m NE	Unspecified Heap	1901	1002116
M	234m S	Unspecified Heap	1901 - 1919	1117673
E	238m NE	Sewage Works	1968 - 1974	1045813
M	238m S	Unspecified Heap	1938	1052478
E	239m NE	Unspecified Shaft	1885	1109367
P	240m W	Unspecified Heap	1955	1002129
E	241m NE	Unspecified Shaft	1886	1147309



ID	Location	Land use	Dates present	Group ID
2	242m SE	Unspecified Works	1974	1051045
Q	242m SE	Unspecified Works	1988	1050839
Q	242m SE	Unspecified Commercial/Industrial	1993	1050953
Q	242m SE	Unspecified Works	1968	1057641
Q	242m SE	Unspecified Works	1978	1075769
H	243m SW	Unspecified Ground Workings	1901	1137904
M	246m S	Unspecified Ground Workings	1886	1105862
A	246m SE	Unspecified Shafts	1885	1005710
E	247m NE	Sewage Works	1955	1083839
D	248m NE	Unspecified Heap	1968 - 1978	1036145
J	248m E	Unspecified Pit	1920 - 1938	1126539
J	248m E	Unspecified Pit	1919	1062217
M	248m S	Unspecified Heap	1885	1129405
H	253m SW	Unspecified Ground Workings	1919	1122732
R	259m S	Unspecified Depot	1978	1116972
J	259m E	Unspecified Ground Workings	1919	1098478
S	260m W	Unspecified Ground Workings	1919	1070694
T	261m S	Unspecified Old Shafts	1886	1043841
T	262m S	Unspecified Pit	1901	1030699
S	262m W	Unspecified Ground Workings	1920 - 1938	1063325
M	262m S	Unspecified Pit	1901	1030696
T	263m S	Unspecified Old Shafts	1885	1132282
M	263m S	Unspecified Old Shafts	1886	1117293
D	266m NE	Unspecified Heap	1955	1105785
M	266m S	Unspecified Old Shafts	1885	1035267
P	269m W	Coal Shafts	1901	993512
J	270m E	Unspecified Pit	1901 - 1919	1036918
P	271m W	Coal Shafts	1901	993515



ID	Location	Land use	Dates present	Group ID
E	271m NE	Unspecified Tanks	1968 - 1978	1039775
J	271m E	Unspecified Shafts	1885	1005726
T	272m S	Unspecified Old Shafts	1886	1101400
U	273m SE	Unspecified Pit	1974	1030686
T	273m S	Unspecified Old Shafts	1885	1122182
J	273m E	Unspecified Shafts	1886	1005725
E	275m NE	Sewage Works	1886	1089866
U	276m SE	Unspecified Ground Workings	1968	998831
E	280m NE	Unspecified Ground Workings	1919	998840
E	280m NE	Unspecified Tank	1955	1017714
T	281m S	Unspecified Old Shafts	1886	1111175
D	281m N	Unspecified Old Shafts	1919	1069342
D	281m N	Unspecified Old Shafts	1938	1139564
T	282m S	Unspecified Old Shafts	1885	1106583
U	283m SE	Trial Shaft	1919 - 1938	1110944
U	284m SE	Trial Shaft	1919	1072949
U	284m SE	Trial Shaft	1938	1083602
D	287m N	Unspecified Old Shafts	1920	1104776
E	287m NE	Sewage Works	1885	1103369
D	288m N	Unspecified Old Shafts	1938	1131871
H	288m W	Unspecified Heap	1885	1002130
H	288m W	Unspecified Ground Workings	1886	1071039
S	291m W	Unspecified Ground Workings	1938	1052141
D	291m N	Unspecified Old Shafts	1938	1043984
D	291m N	Unspecified Old Shafts	1919	1144681
H	292m SW	Unspecified Shafts	1885 - 1886	1135821
V	297m NW	Unspecified Heap	1885	1106874
H	298m SW	Unspecified Tanks	1968 - 1974	1128665



ID	Location	Land use	Dates present	Group ID
V	298m NW	Unspecified Ground Workings	1886	998845
H	299m SW	Unspecified Shafts	1885 - 1886	1043560
D	301m N	Unspecified Heap	1938	1036146
E	302m NE	Unspecified Tank	1955	1017713
V	303m NW	Unspecified Heap	1919	1142096
M	303m S	Unspecified Shaft	1886	1073980
W	305m NE	Disused Colliery	1919 - 1920	1095904
X	305m S	Old Coal Shafts	1901	1025992
M	306m S	Unspecified Shaft	1885	1052361
D	306m N	Unspecified Heap	1919	1102807
E	306m NE	Unspecified Tank	1955	1017715
V	307m NW	Unspecified Heap	1920	1052630
X	311m S	Coal Pit	1886	1005094
H	312m SW	Unspecified Heap	1885 - 1886	1036709
X	312m S	Coal Pit	1885	1005095
H	313m SW	Coal Pits	1885 - 1886	1051400
E	315m NE	Sludge Beds	1978	1022433
H	315m SW	Unspecified Ground Workings	1901 - 1920	1138470
H	316m SW	Unspecified Ground Workings	1919	1078682
Y	318m SE	Unspecified Heap	1974	1002115
O	321m SE	Unspecified Old Shaft	1886	1003600
V	322m NW	Unspecified Shaft	1886	1127133
H	323m W	Unspecified Shaft	1885 - 1886	1062469
Z	324m S	Industrial Park	1988 - 1993	1094550
R	324m S	Unspecified Depot	1968 - 1974	1072501
V	324m NW	Unspecified Shaft	1885	1061124
V	327m NW	Old Coal Shafts	1901	1025979
V	327m NW	Unspecified Shaft	1919	1063257



ID	Location	Land use	Dates present	Group ID
V	328m NW	Unspecified Shaft	1919 - 1920	1102049
W	328m NE	Disused Colliery	1938	1038245
E	330m NE	Unspecified Tank	1955	1017712
Y	332m SE	Unspecified Tanks	1901	1010305
Z	333m S	Engineering Works	1955	1008413
Y	333m SE	Unspecified Ground Workings	1920 - 1938	1125271
Z	334m S	Unspecified Commercial/Industrial	1978	1068250
3	335m S	Old Coal Shafts	1901	1025993
Y	336m SE	Unspecified Ground Workings	1919	1096178
Y	336m SE	Unspecified Ground Workings	1938	1129310
Y	336m SE	Unspecified Pit	1919	1030702
Y	336m SE	Unspecified Pit	1938	1080046
Y	339m SE	Unspecified Pit	1920	1126980
Y	344m SE	Unspecified Tanks	1901	1010306
Y	345m SE	Unspecified Pit	1919	1123313
H	352m SW	Unspecified Pit	1955	1030697
AA	354m E	Unspecified Pit	1885 - 1886	1091639
AB	354m SE	Unspecified Heap	1938	1059571
AB	354m SE	Unspecified Heap	1919	1102705
AB	356m SE	Unspecified Ground Workings	1920 - 1938	1096343
E	357m NE	Sewage Works	1901	1098147
AB	357m SE	Unspecified Heap	1919	1070544
AA	357m E	Unspecified Pit	1901	1136830
4	357m W	Unspecified Pit	1885 - 1886	1091989
AA	357m E	Unspecified Ground Workings	1919	1155578
AA	359m E	Unspecified Pit	1955	1091473
AA	359m E	Unspecified Ground Workings	1919	1061636
AA	359m E	Unspecified Ground Workings	1938	1099253



ID	Location	Land use	Dates present	Group ID
W	360m NE	Colliery	1901	1037640
AA	360m E	Unspecified Pit	1920 - 1938	1100888
Y	361m SE	Unspecified Heap	1885	1046945
Y	369m SE	Unspecified Old Shafts	1885	1150249
Y	369m SE	Unspecified Old Shafts	1886	1110301
Y	373m SE	Unspecified Old Shaft	1885 - 1886	1135073
Y	375m SE	Old Coal Shafts	1901	1026008
Y	379m SE	Unspecified Old Shafts	1885	1084491
Y	380m SE	Coal Shafts	1919	1087211
Y	381m SE	Coal Shafts	1919 - 1938	1051529
Y	381m SE	Unspecified Old Shafts	1886	1074609
Y	381m SE	Unspecified Ground Workings	1919	1050149
Y	382m SE	Coal Pit	1901 - 1919	1142743
Y	384m SE	Pumping Engine	1885 - 1886	1070981
Y	385m SE	Unspecified Ground Workings	1920 - 1938	1144520
Y	386m SE	Unspecified Ground Workings	1938	1045068
Y	386m SE	Unspecified Ground Workings	1919	1057103
Y	387m SE	Unspecified Ground Workings	1886	1123694
Y	387m SE	Unspecified Ground Workings	1886	1119216
H	388m SW	Unspecified Ground Workings	1919	998824
AA	389m SE	Unspecified Pit	1920	1144212
AA	393m SE	Unspecified Pit	1968 - 1974	1092500
AA	394m SE	Unspecified Pit	1938	1127420
AA	395m SE	Unspecified Pit	1919	1113478
AC	398m NW	Coal Shaft	1920	1148877
AD	401m S	Unspecified Heap	1919	1035534
AD	401m S	Unspecified Heap	1938	1149988
AA	404m SE	Unspecified Ground Workings	1919	1071902



ID	Location	Land use	Dates present	Group ID
AA	404m SE	Unspecified Ground Workings	1938	1090906
AD	404m S	Unspecified Ground Workings	1920	1038468
H	405m SW	Coal Shaft	1919 - 1920	1147168
AD	405m S	Unspecified Ground Workings	1886	1123030
AD	405m S	Unspecified Heaps	1885	1021719
AD	407m S	Unspecified Heap	1919	1034600
AA	408m SE	Unspecified Pit	1978	1140411
E	412m NE	Old Coal Shaft	1901	992329
5	420m SW	Unspecified Works	1968	1021045
AG	422m SW	Unspecified Commercial/Industrial	1886	995879
AH	427m E	Pottery Works	1955	1009759
AH	428m E	Unspecified Works	1988 - 1993	1079933
W	430m NE	Unspecified Ground Workings	1920 - 1938	1081256
6	431m W	Unspecified Ground Workings	1886	998847
AG	431m SW	Old Gasometer	1885 - 1886	1044392
Y	433m SE	Unspecified Shaft	1886	1009449
AI	433m NW	Unspecified Ground Workings	1920 - 1938	1129652
AI	433m NW	Unspecified Heap	1919	1136320
AI	433m NW	Unspecified Heap	1919	1045329
AI	433m NW	Unspecified Heap	1938 - 1955	1087593
Y	434m SE	Coal Shafts	1919 - 1938	1107050
Y	434m SE	Old Coal Shaft	1901	992333
W	435m NE	Unspecified Ground Workings	1938	1072494
W	435m NE	Unspecified Ground Workings	1919	1076730
AH	435m E	Unspecified Ground Workings	1938	998834
AH	435m E	Unspecified Works	1978	1133828
W	436m NE	Unspecified Ground Workings	1919	1103473
AH	436m E	Unspecified Pit	1920	1030706



ID	Location	Land use	Dates present	Group ID
Y	436m SE	Unspecified Old Shaft	1885	1003599
AJ	436m N	Unspecified Heap	1885	1135928
Y	437m SE	Unspecified Shaft	1886	1009448
7	437m W	Unspecified Heap	1885	1002041
AH	437m E	Pottery	1968 - 1974	1144285
AJ	442m N	Unspecified Ground Workings	1886	998842
D	442m N	Old Coal Shaft	1919 - 1938	1076935
AC	442m NW	Unspecified Heap	1885	1082415
W	443m NE	Clay Pit	1901	1019000
AI	443m NW	Unspecified Ground Workings	1886	1090629
D	444m N	Unspecified Shaft	1885 - 1886	1072933
AH	445m E	Unspecified Heap	1938	1117316
8	446m W	Refuse Heap	1901	1020230
AI	446m NW	Unspecified Heap	1885	1047319
AH	446m E	Unspecified Heap	1886	1048584
AH	447m E	Unspecified Heap	1919	1037138
D	447m N	Old Coal Shaft	1919	1151038
W	447m NE	Unspecified Pit	1955	1030685
Y	447m SE	Unspecified Ground Workings	1938	1065874
Y	447m SE	Unspecified Ground Workings	1919	1089288
AI	449m NW	Unspecified Old Shaft	1885 - 1886	1087902
Y	450m SE	Unspecified Heap	1920 - 1938	1069749
AH	450m E	Unspecified Pit	1938	1033903
AL	450m N	Unspecified Heap	1885 - 1886	1092650
AC	450m NW	Unspecified Heap	1955	1099960
AI	451m NW	Old Coal Shafts	1919	1097767
AI	451m NW	Unspecified Tank	1920 - 1938	1131127
AC	451m NW	Railway Sidings	1919 - 1920	1114398



ID	Location	Land use	Dates present	Group ID
AJ	451m N	Unspecified Heaps	1901 - 1919	1062244
AH	451m E	Brick Works	1913	1121783
AH	451m E	Brick Works	1921	1099335
AH	451m E	Brick Works	1901	1140133
AH	452m E	Unspecified Ground Workings	1901	1078876
AH	452m E	Unspecified Ground Workings	1921	1082350
AC	452m NW	Unspecified Ground Workings	1886	1156714
AI	452m NW	Old Coal Shafts	1901	1082398
AH	452m E	Unspecified Ground Workings	1913	1146702
AI	454m NW	Old Coal Shafts	1919	1036876
AJ	454m N	Unspecified Heap	1919 - 1920	1127373
AC	454m NW	Railway Sidings	1919	1127137
AH	455m E	Unspecified Ground Workings	1921	1112651
AH	455m E	Unspecified Ground Workings	1901 - 1913	1132486
W	455m NE	Colliery	1885 - 1886	1076308
AH	456m E	Unspecified Ground Workings	1885	1128800
Y	456m SE	Unspecified Ground Workings	1886	1070674
AH	456m E	Unspecified Pit	1955	1083252
AH	457m E	Unspecified Ground Workings	1886	1072606
AH	457m E	Unspecified Pit	1886	1038403
AH	458m E	Unspecified Pit	1885	1034038
Y	459m SE	Unspecified Heap	1920	1072522
AM	460m E	Unspecified Disused Works	1938	1078874
AL	461m N	Unspecified Ground Workings	1938	1074567
AL	461m N	Unspecified Ground Workings	1919	1096667
W	461m NE	Unspecified Ground Workings	1886	1084250
Y	462m SE	Unspecified Heap	1938	1043045
W	462m NE	Unspecified Heap	1885 - 1974	1108592



ID	Location	Land use	Dates present	Group ID
AL	463m N	Unspecified Heap	1919 - 1920	1094262
AL	464m N	Unspecified Heap	1901	1090786
9	464m SW	Bedstead Works	1938	1087575
AI	464m NW	Old Coal Shafts	1919	1112487
AI	464m NW	Unspecified Tank	1920 - 1938	1127272
Y	465m SE	Unspecified Heap	1885 - 1901	1133946
AI	465m NW	Old Coal Shafts	1901	1141173
AH	465m E	Railway Sidings	1901	1125027
AM	466m E	Unspecified Disused Works	1886	1089071
AC	466m NW	Unspecified Pit	1919	1030666
AI	467m NW	Old Coal Shafts	1919	1063237
AN	469m NE	Old Filter Beds	1919 - 1938	1154992
Y	470m SE	Unspecified Heap	1919	1081068
AC	472m NW	Unspecified Ground Workings	1920	1044367
AO	473m SE	Unspecified Ground Workings	1886	998832
AN	473m NE	Old Filter Beds	1938	1077608
AN	473m NE	Old Filter Beds	1919	1128905
AC	474m NW	Unspecified Ground Workings	1919	1094306
AC	474m NW	Unspecified Old Shaft	1885 - 1886	1125302
AC	477m NW	Old Coal Shaft	1919	992331
AP	477m E	Brick Works	1921	1122281
AC	479m NW	Coal Shaft	1919	1067780
AH	479m E	Unspecified Old Shaft	1885	1139411
AP	480m E	Brick Works	1901 - 1913	1048154
AP	480m E	Brick Works	1938	1075136
AH	480m E	Railway Sidings	1955	1105964
AH	481m E	Unspecified Old Shaft	1886	1068508
AQ	483m S	Unspecified Ground Workings	1919	1048865



ID	Location	Land use	Dates present	Group ID
AQ	483m S	Unspecified Ground Workings	1919 - 1920	1130452
AO	486m SE	Coal Shafts	1938	1102891
AO	486m SE	Coal Shafts	1920	1115829
AO	487m SE	Coal Shafts	1919	1136880
AO	487m SE	Coal Shafts	1938	1034838
AO	487m SE	Coal Shafts	1919	1106938
AR	491m S	Unspecified Heap	1920 - 1938	1130903
AO	492m SE	Unspecified Old Shafts	1886	993079
W	493m NE	Railway Sidings	1901	994068
10	493m E	Refuse Heap	1921	1020262
AO	493m SE	Coal Shafts	1919	1149475
AO	494m SE	Coal Shafts	1938	1059001
AO	494m SE	Coal Shafts	1919	1155057
AR	494m S	Unspecified Heap	1919	1122321
AO	494m SE	Coal Shafts	1919	993517
AO	494m SE	Old Coal Shafts	1901	1026010
AO	494m SE	Coal Shaft	1919 - 1920	1058701
AO	494m SE	Coal Shaft	1938	1091654
AO	495m SE	Unspecified Pit	1938	1112925
AO	495m SE	Unspecified Pit	1901 - 1920	1123453
AO	496m SE	Unspecified Pit	1938	1155824
D	496m N	Coal Shaft	1920	1021246
AO	497m SE	Unspecified Pit	1885	1084916
AO	498m SE	Coal Shafts	1919	1036279
11	499m SE	Unspecified Ground Workings	1885 - 1886	1155263
AO	500m SE	Coal Shafts	1919	1131593
AO	500m SE	Coal Shafts	1938	1156523

This data is sourced from Ordnance Survey / Groundsure.



1.2 Historical tanks

Records within 500m

45

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

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

ID	Location	Land use	Dates present	Group ID
A	39m E	Tanks	1995	165748
D	85m NE	Unspecified Tank	1938	153923
D	127m N	Humus Tanks	1938	166969
D	129m N	Humus Tanks	1964 - 1965	167413
D	136m N	Tanks	1919	157362
K	160m NE	Unspecified Tank	1903 - 1919	164006
D	161m N	Tanks	1938	157358
D	166m N	Tanks	1965	167958
D	168m N	Tanks	1938	157359
D	179m N	Tanks	1964	160687
D	187m N	Settling Tanks	1938	155950
D	187m N	Unspecified Tank	1938	153924
D	189m N	Unspecified Tank	1965	165088
D	189m N	Unspecified Tank	1964	162816
H	205m SW	Unspecified Tank	1970	153702
D	213m N	Unspecified Tank	1964	158101
D	214m N	Unspecified Tank	1965	159989
B	216m W	Unspecified Tank	1982	153703
M	238m S	Unspecified Tank	1970 - 1995	165519
M	239m S	Unspecified Tank	-	149526
H	262m SW	Unspecified Tank	1970 - 1995	159430



ID	Location	Land use	Dates present	Group ID
H	262m SW	Unspecified Tank	-	149460
E	280m NE	Tanks	1938	157361
E	281m NE	Unspecified Tank	1964 - 1965	163085
E	287m NE	Unspecified Tank	1964 - 1965	165739
H	301m SW	Tanks	1965 - 1970	159679
H	301m SW	Tanks	1979 - 1995	160722
H	302m SW	Tanks	-	149579
E	308m NE	Unspecified Tank	1938	153914
E	308m NE	Tanks	1964 - 1965	166101
H	339m SW	Unspecified Tank	1991 - 1995	162902
H	340m SW	Unspecified Tank	-	149461
H	340m SW	Unspecified Tank	1970 - 1979	161709
AE	401m SW	Tanks	1979 - 1995	164314
AE	402m SW	Tanks	-	149429
AF	412m S	Tanks	-	149400
AF	418m S	Tanks	-	149528
AF	419m S	Tanks	1979	158593
AF	419m S	Tanks	1991	167199
AF	419m S	Tanks	1970	158880
AF	421m S	Tanks	1995	163718
AF	421m S	Tanks	1995	167750
AF	428m S	Tanks	1979 - 1995	160740
AF	430m S	Tanks	-	149527
AG	432m SW	Old Gasometer	1887	156057

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

16

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

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

ID	Location	Land use	Dates present	Group ID
D	70m N	Gas Valve Station	1995	96279
A	87m W	Electricity Substation	1995	94936
A	93m W	Electricity Substation	-	85603
A	94m W	Electricity Substation	1979	96274
A	94m W	Electricity Substation	1970 - 1995	88964
G	153m S	Electricity Substation	1988 - 1995	94847
D	158m NW	Electricity Substation	1995	93732
D	158m NW	Electricity Substation	1982	95860
H	302m SW	Gas Governor	1995	92252
H	303m SW	Gas Governor	1991	87654
AG	432m SW	Old Gasometer	1887	87458
AH	469m E	Electricity Substation	1988	86932
AH	471m E	Electricity Substation	1989	86931
AH	473m E	Electricity Substation	1995	96058
AG	479m SW	Gas Governor	1995	91325
AG	479m SW	Gas Governor	1991	90889

This data is sourced from Ordnance Survey / Groundsure.



1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

15

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

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

ID	Location	Land use	Dates present	Group ID
A	10m S	Garage	1995	29757
A	42m SW	Garage	1995	30212
A	65m SW	Garage	1979 - 1991	31538
A	66m SW	Garage	1965	29916
A	66m SW	Garage	-	27968
A	66m SW	Garage	1995	29196
A	71m SW	Garage	1979	29165
A	72m SW	Garage	1965 - 1970	30621
A	84m SW	Garage	-	27910
A	86m SW	Garage	1995	31889
A	86m SW	Garage	1991	28801
AK	443m SW	Garage	1991	29770
AK	443m SW	Garage	1965	28548
AK	444m SW	Garage	1965 - 1970	30296



ID	Location	Land use	Dates present	Group ID
AK	467m SW	Garage	1995	30421

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

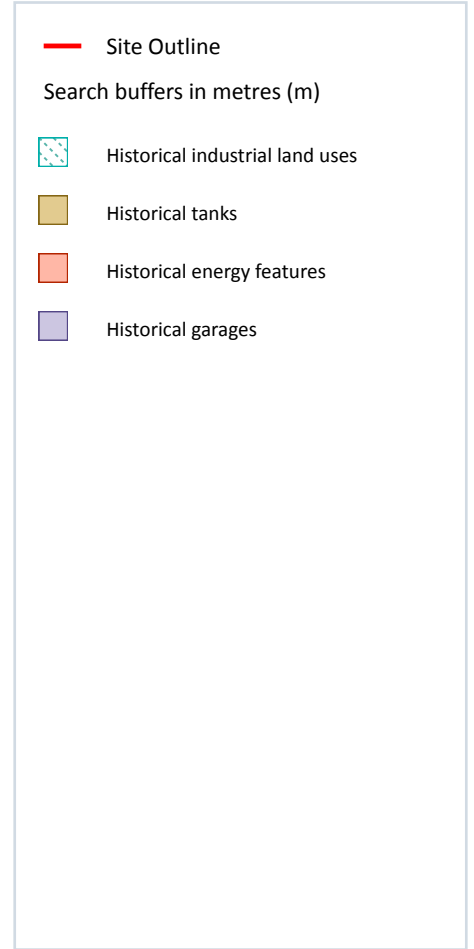
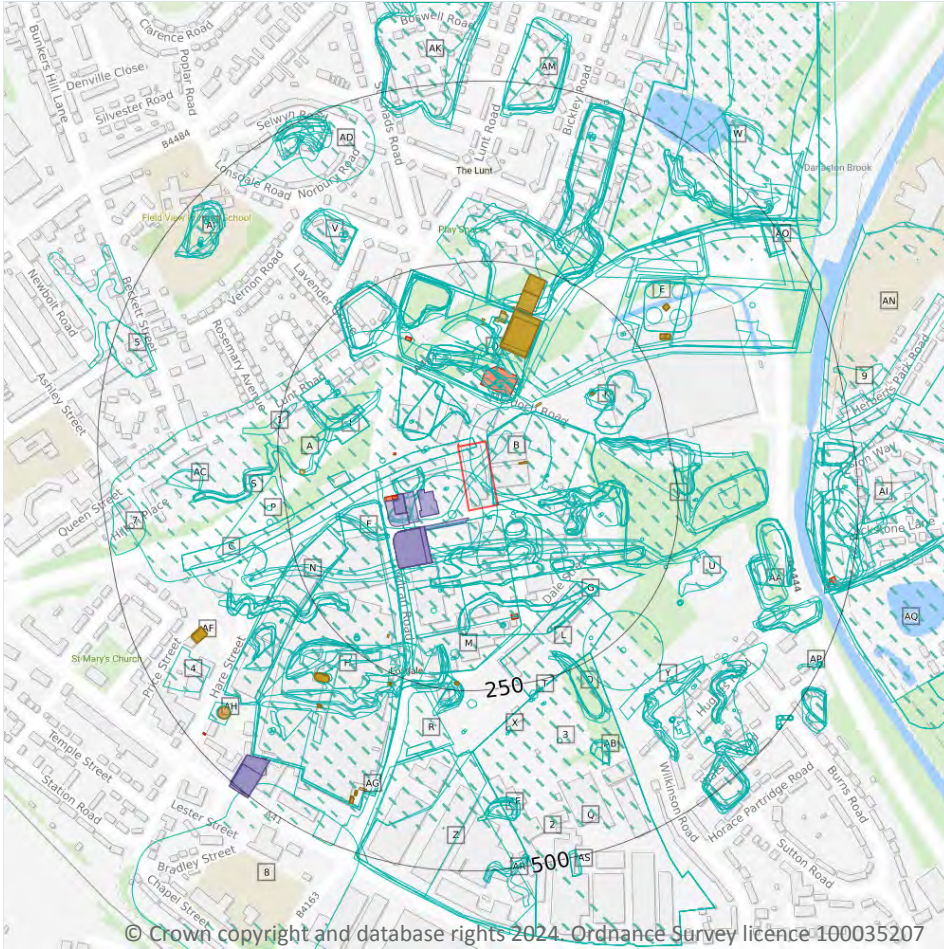
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Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

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



2 Past land use - un-grouped



2.1 Historical industrial land uses

Records within 500m

671

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 39](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Yard	1920	1127980
B	On site	Sludge Bed	1968	1009085
B	On site	Sand Pit	1955	996281

ID	Location	Land Use	Date	Group ID
B	On site	Sand Pit	1955	996282
B	On site	Coal Shafts	1920	1083759
B	On site	Coal Shafts	1919	1155658
B	On site	Unspecified Works	1968	1112749
B	On site	Unspecified Works	1974	1112749
B	On site	Unspecified Works	1993	1096720
B	On site	Unspecified Works	1978	1063487
B	On site	Unspecified Works	1988	1096720
C	On site	Cuttings	1938	1145336
C	On site	Cuttings	1920	1145336
C	On site	Cuttings	1919	1145336
B	7m S	Unspecified Heap	1885	1039989
B	12m S	Unspecified Shafts	1886	1066247
B	13m SE	Unspecified Works	1993	1041872
B	13m SE	Unspecified Works	1988	1041872
B	13m S	Unspecified Shafts	1885	1088064
B	17m S	Unspecified Works	1968	1059983
B	18m SW	Coal Shafts	1919	1054552
B	22m SE	Unspecified Old Shafts	1885	993081
B	23m W	Unspecified Shafts	1886	1138018
B	25m W	Unspecified Shafts	1885	1055329
B	26m SE	Unspecified Ground Workings	1886	1133276
B	28m N	Unspecified Pit	1938	1095174
B	28m N	Unspecified Pit	1919	1127931
B	28m N	Unspecified Pit	1920	1123386
B	28m N	Unspecified Pit	1938	1123386
B	28m N	Unspecified Pit	1919	1123386
B	28m N	Unspecified Pit	1901	1123386



ID	Location	Land Use	Date	Group ID
B	29m SE	Unspecified Heap	1901	1137207
B	29m SE	Unspecified Ground Workings	1938	1059727
B	29m SE	Unspecified Ground Workings	1919	1143963
B	32m SE	Unspecified Heap	1955	1080428
B	32m SE	Unspecified Heap	1920	1137207
B	32m SE	Coal Shafts	1938	993516
B	32m SE	Unspecified Heap	1919	1137207
B	39m SE	Refuse Heap	1968	1068292
B	39m SE	Refuse Heap	1974	1068292
B	40m NW	Unspecified Shaft	1901	1009414
B	40m NW	Unspecified Works	1993	1079743
B	40m NW	Unspecified Works	1978	1139598
B	40m NW	Unspecified Works	1988	1079743
B	41m NW	Unspecified Works	1974	1127779
B	44m NW	Unspecified Shafts	1886	1145091
B	45m S	Tramway Sidings	1885	1143531
B	46m NW	Unspecified Shafts	1885	1113127
B	50m S	Tramway Sidings	1886	1143531
B	51m S	Unspecified Ground Workings	1955	1140449
D	51m N	Colliery	1886	1150627
B	52m NE	Sludge Beds	1955	1022432
B	53m W	Unspecified Ground Workings and Heaps	1938	1112002
B	53m W	Unspecified Ground Workings and Heaps	1919	1152347
B	54m S	Unspecified Ground Workings	1920	1061566
B	54m S	Unspecified Ground Workings	1938	1061566
B	54m S	Unspecified Ground Workings	1919	1061566
B	54m S	Unspecified Ground Workings	1901	1061566
B	55m W	Unspecified Heap	1920	1070461



ID	Location	Land Use	Date	Group ID
B	55m W	Unspecified Heap	1938	1070461
B	55m W	Unspecified Heap	1919	1070461
B	55m W	Unspecified Heap	1901	1070461
B	56m SE	Unspecified Ground Workings	1938	1121691
B	56m SE	Unspecified Ground Workings	1919	1152586
D	56m N	Colliery	1885	1150627
B	57m SE	Unspecified Ground Workings	1920	1143785
B	58m SE	Unspecified Ground Workings	1938	1143785
B	58m SE	Unspecified Ground Workings	1919	1143785
B	58m SE	Unspecified Old Shafts	1885	1099702
D	60m N	Sewage Works	1920	1077244
D	60m N	Sewage Works	1938	1077244
D	60m N	Disused Colliery	1901	1015519
B	60m SE	Unspecified Old Shafts	1886	1118818
E	61m N	Sewage Works	1919	1114785
D	62m N	Sewage Works	1938	1122343
E	62m N	Sewage Works	1919	1040747
D	66m N	Unspecified Shafts	1885	1005706
D	68m N	Unspecified Pit	1901	1030688
D	69m N	Unspecified Ground Workings	1919	998841
D	69m N	Unspecified Shafts	1886	1005707
B	70m NW	Unspecified Shafts	1886	1127987
B	71m NW	Unspecified Shafts	1885	1088249
B	71m E	Unspecified Old Shafts	1885	1147935
B	73m S	Unspecified Shafts	1885	1005708
D	74m N	Cuttings	1938	1121342
D	74m N	Cuttings	1920	1121342
B	74m E	Unspecified Old Shafts	1886	1135549



ID	Location	Land Use	Date	Group ID
D	76m N	Cuttings	1919	1077407
D	77m N	Unspecified Shafts	1885	1128431
B	77m S	Unspecified Shafts	1886	1005711
D	79m N	Unspecified Shafts	1886	1145788
B	79m SW	Refuse Heap	1920	1069001
B	79m SW	Coal Shafts	1938	1140653
D	79m NE	Railway Sidings	1920	1087837
D	79m NE	Railway Sidings	1938	1087837
B	79m SE	Unspecified Works	1978	1021044
B	80m NW	Unspecified Shafts	1886	1061666
B	81m SW	Refuse Heap	1919	1069001
B	81m NW	Unspecified Shafts	1885	1094088
D	82m NE	Railway Sidings	1919	1116394
D	83m NE	Railway Sidings	1938	1087837
D	83m NE	Railway Sidings	1919	1087837
B	84m SW	Unspecified Depot	1968	1012750
B	89m S	Unspecified Pit	1955	1030693
B	89m SW	Unspecified Heap	1955	1002128
B	90m E	Unspecified Heap	1901	1125407
D	90m N	Unspecified Pit	1901	1030687
B	97m S	Unspecified Works	1968	1093861
B	97m S	Unspecified Works	1974	1093861
D	99m N	Sand Pit	1920	1153828
B	100m SE	Unspecified Pit	1955	1030694
D	100m N	Sand Pit	1919	1153828
D	101m N	Sand Pit	1938	1120205
D	101m N	Sand Pit	1919	1146062
E	102m NE	Sewage Works	1978	1049120



ID	Location	Land Use	Date	Group ID
B	103m W	Coal Shaft	1901	1021248
D	104m N	Refuse Heap	1938	1020256
B	106m SE	Unspecified Ground Workings	1901	1087975
D	107m N	Unspecified Pit	1955	1030690
D	110m N	Unspecified Shafts	1886	1119512
D	110m N	Unspecified Shafts	1885	1124304
B	111m SE	Unspecified Pit	1955	1055933
B	111m SE	Unspecified Pit	1920	1091573
B	111m SE	Unspecified Pit	1938	1091573
B	111m SE	Unspecified Pit	1919	1091573
B	111m SE	Unspecified Pit	1901	1091573
D	112m N	Unspecified Ground Workings	1886	998843
E	114m NE	Filter Beds	1978	1009821
B	114m S	Unspecified Shafts	1886	1126656
F	115m SW	Unspecified Ground Workings	1920	1114949
F	115m SW	Unspecified Ground Workings	1938	1114949
F	115m SW	Unspecified Ground Workings	1919	1114949
F	115m SW	Unspecified Ground Workings	1901	1114949
B	116m S	Unspecified Shafts	1885	1107164
G	117m S	Refuse Heap	1919	1154535
F	117m SW	Unspecified Ground Workings	1919	1103777
G	117m S	Refuse Heap	1938	1069596
G	117m S	Refuse Heap	1919	1155009
D	118m N	Unspecified Heap	1885	1038393
H	118m SW	Unspecified Works	1978	1068893
G	119m S	Refuse Heap	1920	1060049
G	119m S	Refuse Heap	1938	1060049
H	120m SW	Unspecified Works	1974	1151806



ID	Location	Land Use	Date	Group ID
H	120m SW	Unspecified Works	1968	1052758
H	120m SW	Unspecified Works	1993	1062266
H	120m SW	Unspecified Works	1988	1062266
I	126m NW	Unspecified Depot	1968	1115910
I	126m NW	Unspecified Depot	1974	1115910
I	126m NW	Unspecified Depot	1978	1115910
I	126m NW	Unspecified Ground Workings	1886	1117289
B	127m E	Unspecified Heap	1885	1154895
I	129m NW	Unspecified Heap	1885	1002131
D	130m N	Unspecified Heap	1955	1061646
D	131m N	Unspecified Tanks	1968	1043326
D	131m N	Unspecified Tanks	1974	1043326
D	131m N	Unspecified Tanks	1978	1043326
H	132m SW	Tube Works	1955	1004185
B	133m E	Unspecified Shafts	1885	1057514
B	136m E	Unspecified Shafts	1886	1089824
A	138m NW	Ground Workings and Refuse Heap	1919	1007367
D	139m N	Unspecified Shafts	1886	1005705
J	139m E	Sludge Bed	1968	1038740
J	139m E	Sludge Bed	1974	1147864
J	139m E	Sludge Bed	1978	1147864
B	139m SE	Unspecified Pit	1955	1100305
B	139m SE	Unspecified Pit	1919	1096909
D	139m N	Unspecified Tanks	1920	1139989
D	139m N	Unspecified Tanks	1938	1079208
B	140m SE	Unspecified Pit	1920	1057617
B	140m SE	Unspecified Pit	1938	1057617
I	140m NW	Unspecified Ground Workings	1919	1102886



ID	Location	Land Use	Date	Group ID
I	140m NW	Unspecified Ground Workings	1901	1102886
B	140m E	Unspecified Shafts	1885	1073445
D	142m N	Unspecified Tanks	1938	1036856
D	142m N	Unspecified Tanks	1919	1121389
D	142m N	Unspecified Tanks	1919	1121389
B	143m E	Unspecified Shafts	1886	1061628
B	143m S	Coal Shaft	1901	1021249
K	150m NE	Unspecified Ground Workings	1978	1037776
K	150m NE	Unspecified Heap	1974	1002114
K	153m NE	Unspecified Pit	1919	1076382
K	153m NE	Unspecified Pit	1901	1076382
K	154m NE	Unspecified Pit	1885	1153592
J	154m E	Unspecified Pit	1885	1061248
L	154m SE	Unspecified Works	1993	1057143
L	154m SE	Unspecified Works	1978	1143994
L	154m SE	Unspecified Works	1988	1057143
K	154m NE	Unspecified Pit	1886	1051547
C	155m W	Ambulance Station	1993	1109663
C	155m W	Ambulance Station	1988	1109663
J	155m E	Unspecified Ground Workings	1886	1149578
K	155m NE	Unspecified Ground Workings	1968	1085394
M	157m S	Unspecified Works	1978	1103042
K	157m NE	Unspecified Shaft	1885	1044707
K	160m NE	Unspecified Old Shaft	1919	1098649
K	160m NE	Unspecified Shaft	1886	1073561
K	161m NE	Unspecified Old Shaft	1920	1036560
K	161m NE	Unspecified Old Shaft	1938	1036560
J	161m E	Unspecified Ground Workings	1938	1050418



ID	Location	Land Use	Date	Group ID
J	161m E	Unspecified Ground Workings	1919	1140558
G	162m S	Unspecified Old Shaft	1938	1089726
G	162m S	Unspecified Old Shaft	1919	1089726
G	162m S	Unspecified Old Shaft	1919	1145365
J	162m E	Unspecified Ground Workings	1955	1111295
K	162m NE	Unspecified Old Shaft	1938	1036560
K	162m NE	Unspecified Old Shaft	1919	1036560
G	163m S	Unspecified Old Shaft	1938	1089726
G	163m S	Unspecified Old Shaft	1920	1089726
J	166m E	Unspecified Ground Workings	1919	1126886
D	166m N	Unspecified Tanks	1968	1039223
D	166m N	Unspecified Tanks	1974	1039223
D	173m NW	Unspecified Heap	1938	1107073
D	174m NW	Unspecified Heap	1885	1054712
D	174m NW	Unspecified Heap	1968	1132475
D	174m NW	Unspecified Heap	1974	1132475
D	174m NW	Unspecified Heap	1993	1060777
D	174m NW	Unspecified Heap	1978	1132475
D	174m NW	Unspecified Heap	1988	1060777
D	174m NW	Unspecified Heap	1885	1085749
D	174m N	Unspecified Ground Workings	1886	998844
N	176m SW	Unspecified Works	1968	1060977
D	176m NW	Unspecified Heap	1901	1146142
H	177m SW	Unspecified Commercial/Industrial	1974	995880
D	178m NW	Unspecified Heap	1920	1047363
D	178m NW	Unspecified Heap	1919	1047363
I	179m NW	Old Coal Shaft	1919	1129168
I	179m NW	Old Coal Shaft	1901	1129168



ID	Location	Land Use	Date	Group ID
A	179m W	Refuse Heap	1919	1020231
I	180m NW	Old Coal Shaft	1919	1129168
D	180m N	Unspecified Heap	1955	1056825
D	181m N	Unspecified Heap	1938	1056825
D	181m N	Unspecified Heap	1919	1085025
I	181m NW	Unspecified Shafts	1886	1136196
I	182m NW	Unspecified Shafts	1885	1136196
D	183m N	Unspecified Heap	1938	1046183
D	183m NW	Unspecified Heap	1901	1059981
D	183m NW	Unspecified Heap	1919	1086974
D	186m N	Unspecified Heap	1920	1059502
I	186m NW	Old Coal Shaft	1920	992332
D	187m N	Unspecified Ground Workings	1938	1070275
D	187m N	Unspecified Ground Workings	1919	1089952
I	187m NW	Unspecified Yard	1919	1127980
D	187m N	Unspecified Ground Workings	1901	1051457
D	188m NW	Unspecified Heap	1920	1108115
I	188m NW	Council Yard	1919	1003917
D	188m NW	Ground Workings and Refuse Heap	1919	1007372
H	189m S	Unspecified Ground Workings	1919	1104991
H	190m S	Unspecified Ground Workings	1919	1038957
H	190m S	Unspecified Ground Workings	1901	1038957
D	191m N	Unspecified Heap	1885	1082791
M	192m S	Unspecified Ground Workings	1886	1147411
D	193m N	Unspecified Tanks	1968	1054884
D	193m N	Unspecified Tanks	1974	1054884
D	193m N	Unspecified Tanks	1978	1054884
M	193m S	Unspecified Ground Workings	1938	1056286



ID	Location	Land Use	Date	Group ID
M	193m S	Unspecified Heap	1885	1002127
M	193m S	Unspecified Pit	1901	1030692
H	193m S	Unspecified Ground Workings	1920	1142299
M	194m S	Unspecified Ground Workings	1938	1081901
D	194m N	Unspecified Ground Workings	1886	1059485
N	195m SW	Coal Pits	1886	1107515
N	198m SW	Coal Pits	1885	1147801
I	199m NW	Unspecified Shafts	1885	1062304
I	199m NW	Unspecified Shafts	1886	1062304
H	203m SW	Unspecified Heap	1885	1077622
M	204m S	Unspecified Old Shafts	1886	1077981
B	204m E	Unspecified Shafts	1885	1005709
M	205m S	Unspecified Old Shafts	1885	1145132
H	206m S	Unspecified Ground Workings	1886	1155283
B	208m SE	Unspecified Shafts	1885	1080345
H	209m SW	Unspecified Ground Workings	1901	1086185
B	211m SE	Unspecified Shafts	1886	1080345
L	211m SE	Unspecified Old Shaft	1885	1132651
H	213m SW	Unspecified Ground Workings	1938	1103633
H	213m SW	Unspecified Ground Workings	1919	1146137
H	214m SW	Unspecified Ground Workings	1920	1086185
H	214m SW	Unspecified Ground Workings	1938	1086185
H	214m SW	Unspecified Ground Workings	1919	1086185
O	217m SE	Unspecified Heap	1938	1095096
O	217m SE	Unspecified Heap	1919	1155082
H	218m SW	Unspecified Heap	1919	1072082
H	218m SW	Unspecified Heap	1901	1072082
O	218m SE	Unspecified Heap	1901	1065278



ID	Location	Land Use	Date	Group ID
O	221m SE	Unspecified Heap	1920	1065278
O	221m SE	Unspecified Heap	1938	1065278
O	221m SE	Unspecified Heap	1919	1065278
O	222m S	Unspecified Heap	1886	1071691
L	223m SE	Old Coal Shafts	1901	1025994
D	228m N	Unspecified Heap	1938	1098518
D	230m N	Unspecified Ground Workings	1919	1098681
H	230m SW	Old Coal Shaft	1919	1057115
H	230m SW	Unspecified Ground Workings	1938	1105536
1	231m W	Unspecified Ground Workings	1901	998846
H	231m SW	Unspecified Ground Workings	1938	1105536
H	231m SW	Old Coal Shaft	1919	1057115
H	232m SW	Old Coal Shaft	1938	1094745
H	233m SW	Old Coal Shaft	1938	1123642
H	233m SW	Old Coal Shaft	1920	1123642
E	234m NE	Unspecified Heap	1901	1002116
M	234m S	Unspecified Heap	1919	1117673
M	234m S	Unspecified Heap	1901	1117673
E	238m NE	Sewage Works	1968	1045813
E	238m NE	Sewage Works	1974	1045813
M	238m S	Unspecified Heap	1938	1052478
E	239m NE	Unspecified Shaft	1885	1109367
P	240m W	Unspecified Heap	1955	1002129
E	241m NE	Unspecified Shaft	1886	1147309
2	242m SE	Unspecified Works	1974	1051045
Q	242m SE	Unspecified Works	1968	1057641
Q	242m SE	Unspecified Commercial/Industrial	1993	1050953
Q	242m SE	Unspecified Works	1978	1075769



ID	Location	Land Use	Date	Group ID
Q	242m SE	Unspecified Works	1988	1050839
H	243m SW	Unspecified Ground Workings	1901	1137904
M	246m S	Unspecified Ground Workings	1886	1105862
B	246m SE	Unspecified Shafts	1885	1005710
E	247m NE	Sewage Works	1955	1083839
D	248m NE	Unspecified Heap	1968	1036145
D	248m NE	Unspecified Heap	1974	1036145
D	248m NE	Unspecified Heap	1978	1036145
J	248m E	Unspecified Pit	1920	1126539
J	248m E	Unspecified Pit	1938	1126539
J	248m E	Unspecified Pit	1919	1062217
M	248m S	Unspecified Heap	1885	1129405
H	253m SW	Unspecified Ground Workings	1919	1122732
R	259m S	Unspecified Depot	1978	1116972
J	259m E	Unspecified Ground Workings	1919	1098478
S	260m W	Unspecified Ground Workings	1919	1070694
T	261m S	Unspecified Old Shafts	1886	1043841
T	262m S	Unspecified Pit	1901	1030699
S	262m W	Unspecified Ground Workings	1920	1063325
S	262m W	Unspecified Ground Workings	1938	1063325
M	262m S	Unspecified Pit	1901	1030696
L	263m SE	Unspecified Old Shaft	1886	1132651
T	263m S	Unspecified Old Shafts	1885	1132282
M	263m S	Unspecified Old Shafts	1886	1117293
D	266m NE	Unspecified Heap	1955	1105785
M	266m S	Unspecified Old Shafts	1885	1035267
P	269m W	Coal Shafts	1901	993512
J	270m E	Unspecified Pit	1919	1036918



ID	Location	Land Use	Date	Group ID
P	271m W	Coal Shafts	1901	993515
E	271m NE	Unspecified Tanks	1968	1039775
E	271m NE	Unspecified Tanks	1974	1039775
E	271m NE	Unspecified Tanks	1978	1039775
J	271m E	Unspecified Shafts	1885	1005726
T	272m S	Unspecified Old Shafts	1886	1101400
U	273m SE	Unspecified Pit	1974	1030686
T	273m S	Unspecified Old Shafts	1885	1122182
J	273m E	Unspecified Shafts	1886	1005725
E	275m NE	Sewage Works	1886	1089866
U	276m SE	Unspecified Ground Workings	1968	998831
E	280m NE	Unspecified Ground Workings	1919	998840
E	280m NE	Unspecified Tank	1955	1017714
T	281m S	Unspecified Old Shafts	1886	1111175
D	281m N	Unspecified Old Shafts	1938	1139564
D	281m N	Unspecified Old Shafts	1919	1069342
T	282m S	Unspecified Old Shafts	1885	1106583
U	283m SE	Trial Shaft	1919	1110944
U	284m SE	Trial Shaft	1938	1083602
U	284m SE	Trial Shaft	1919	1072949
U	284m SE	Trial Shaft	1920	1110944
U	284m SE	Trial Shaft	1938	1110944
D	287m N	Unspecified Old Shafts	1920	1104776
E	287m NE	Sewage Works	1885	1103369
D	288m N	Unspecified Old Shafts	1938	1131871
H	288m W	Unspecified Heap	1885	1002130
H	288m W	Unspecified Ground Workings	1886	1071039
S	291m W	Unspecified Ground Workings	1938	1052141



ID	Location	Land Use	Date	Group ID
D	291m N	Unspecified Old Shafts	1938	1043984
D	291m N	Unspecified Old Shafts	1919	1144681
H	292m SW	Unspecified Shafts	1885	1135821
H	292m SW	Unspecified Shafts	1886	1135821
D	294m N	Unspecified Old Shafts	1919	1144681
V	297m NW	Unspecified Heap	1885	1106874
H	298m SW	Unspecified Tanks	1968	1128665
H	298m SW	Unspecified Tanks	1974	1128665
V	298m NW	Unspecified Ground Workings	1886	998845
H	299m SW	Unspecified Shafts	1886	1043560
H	300m SW	Unspecified Shafts	1885	1043560
D	301m N	Unspecified Heap	1938	1036146
E	302m NE	Unspecified Tank	1955	1017713
V	303m NW	Unspecified Heap	1919	1142096
M	303m S	Unspecified Shaft	1886	1073980
V	304m NW	Unspecified Heap	1919	1142096
W	305m NE	Disused Colliery	1920	1095904
X	305m S	Old Coal Shafts	1901	1025992
M	306m S	Unspecified Shaft	1885	1052361
D	306m N	Unspecified Heap	1938	1036146
D	306m N	Unspecified Heap	1919	1102807
J	306m E	Unspecified Pit	1901	1036918
E	306m NE	Unspecified Tank	1955	1017715
V	307m NW	Unspecified Heap	1920	1052630
X	311m S	Coal Pit	1886	1005094
H	312m SW	Unspecified Heap	1886	1036709
X	312m S	Coal Pit	1885	1005095
H	313m SW	Coal Pits	1886	1051400



ID	Location	Land Use	Date	Group ID
E	315m NE	Sludge Beds	1978	1022433
H	315m SW	Unspecified Ground Workings	1919	1138470
H	315m SW	Unspecified Ground Workings	1901	1138470
H	316m SW	Coal Pits	1885	1051400
H	316m SW	Unspecified Ground Workings	1919	1078682
H	316m SW	Unspecified Heap	1885	1036709
Y	318m SE	Unspecified Heap	1974	1002115
H	321m SW	Unspecified Ground Workings	1920	1138470
O	321m SE	Unspecified Old Shaft	1886	1003600
V	322m NW	Unspecified Shaft	1886	1127133
H	323m W	Unspecified Shaft	1886	1062469
Z	324m S	Industrial Park	1988	1094550
H	324m W	Unspecified Shaft	1885	1062469
R	324m S	Unspecified Depot	1968	1072501
R	324m S	Unspecified Depot	1974	1072501
V	324m NW	Unspecified Shaft	1885	1061124
V	327m NW	Old Coal Shafts	1901	1025979
V	327m NW	Unspecified Shaft	1919	1063257
V	328m NW	Unspecified Shaft	1919	1102049
W	328m NE	Disused Colliery	1938	1038245
V	330m NW	Unspecified Shaft	1920	1102049
E	330m NE	Unspecified Tank	1955	1017712
W	331m NE	Disused Colliery	1938	1038245
W	331m NE	Disused Colliery	1919	1095904
Z	332m S	Industrial Park	1993	1094550
Y	332m SE	Unspecified Tanks	1901	1010305
Z	333m S	Engineering Works	1955	1008413
Y	333m SE	Unspecified Ground Workings	1920	1125271



ID	Location	Land Use	Date	Group ID
Y	334m SE	Unspecified Ground Workings	1938	1125271
Z	334m S	Unspecified Commercial/Industrial	1978	1068250
3	335m S	Old Coal Shafts	1901	1025993
Y	336m SE	Unspecified Ground Workings	1938	1129310
Y	336m SE	Unspecified Ground Workings	1919	1096178
Y	336m SE	Unspecified Pit	1919	1030702
Y	336m SE	Unspecified Pit	1938	1080046
D	339m NE	Unspecified Heap	1919	1102807
Y	339m SE	Unspecified Pit	1920	1126980
Y	344m SE	Unspecified Tanks	1901	1010306
Y	345m SE	Unspecified Pit	1919	1123313
H	352m SW	Unspecified Pit	1955	1030697
AA	354m E	Unspecified Pit	1885	1091639
AB	354m SE	Unspecified Heap	1938	1059571
AB	354m SE	Unspecified Heap	1919	1102705
AB	356m SE	Unspecified Ground Workings	1920	1096343
AB	356m SE	Unspecified Ground Workings	1938	1096343
E	357m NE	Sewage Works	1901	1098147
AB	357m SE	Unspecified Heap	1919	1070544
AA	357m E	Unspecified Pit	1901	1136830
AC	357m W	Unspecified Pit	1886	1091989
AA	357m E	Unspecified Ground Workings	1919	1155578
AA	358m E	Unspecified Pit	1886	1091639
AA	359m E	Unspecified Pit	1955	1091473
AA	359m E	Unspecified Ground Workings	1938	1099253
AA	359m E	Unspecified Ground Workings	1919	1061636
AC	360m W	Unspecified Pit	1885	1091989
AA	360m E	Unspecified Ground Workings	1919	1061636



ID	Location	Land Use	Date	Group ID
W	360m NE	Colliery	1901	1037640
AA	360m E	Unspecified Pit	1920	1100888
AA	360m E	Unspecified Pit	1938	1100888
Y	361m SE	Unspecified Heap	1885	1046945
Y	369m SE	Unspecified Old Shafts	1885	1150249
Y	369m SE	Unspecified Old Shafts	1886	1110301
Y	373m SE	Unspecified Old Shaft	1886	1135073
Y	373m SE	Unspecified Old Shaft	1885	1135073
Y	375m SE	Old Coal Shafts	1901	1026008
Y	379m SE	Unspecified Old Shafts	1885	1084491
Y	380m SE	Coal Shafts	1919	1087211
Y	381m SE	Coal Shafts	1938	1051529
Y	381m SE	Coal Shafts	1919	1051529
Y	381m SE	Unspecified Old Shafts	1886	1074609
Y	381m SE	Coal Shafts	1920	1051529
Y	381m SE	Coal Shafts	1938	1051529
Y	381m SE	Unspecified Ground Workings	1919	1050149
Y	382m SE	Coal Pit	1901	1142743
Y	384m SE	Pumping Engine	1885	1070981
Y	385m SE	Unspecified Ground Workings	1920	1144520
Y	385m SE	Unspecified Ground Workings	1938	1144520
Y	385m SE	Coal Pit	1919	1142743
Y	386m SE	Unspecified Ground Workings	1938	1045068
Y	386m SE	Unspecified Ground Workings	1919	1057103
Y	387m SE	Unspecified Ground Workings	1886	1123694
Y	387m SE	Unspecified Ground Workings	1886	1119216
H	388m SW	Unspecified Ground Workings	1919	998824
AA	389m SE	Unspecified Pit	1920	1144212



ID	Location	Land Use	Date	Group ID
Y	391m SE	Pumping Engine	1886	1070981
AA	393m SE	Unspecified Pit	1974	1092500
AA	394m SE	Unspecified Pit	1938	1127420
AA	395m SE	Unspecified Pit	1919	1113478
AA	395m SE	Unspecified Pit	1968	1092500
AD	398m NW	Coal Shaft	1920	1148877
AE	401m S	Unspecified Heap	1938	1149988
AE	401m S	Unspecified Heap	1919	1035534
AE	403m S	Unspecified Heap	1938	1149988
AA	404m SE	Unspecified Ground Workings	1938	1090906
AA	404m SE	Unspecified Ground Workings	1919	1071902
AE	404m S	Unspecified Ground Workings	1920	1038468
H	405m SW	Coal Shaft	1919	1147168
AE	405m S	Unspecified Ground Workings	1886	1123030
AE	405m S	Unspecified Heaps	1885	1021719
AE	407m S	Unspecified Heap	1919	1034600
AA	408m SE	Unspecified Pit	1978	1140411
H	408m SW	Coal Shaft	1920	1147168
H	409m SW	Coal Shaft	1919	1147168
E	412m NE	Old Coal Shaft	1901	992329
4	420m SW	Unspecified Works	1968	1021045
AH	422m SW	Unspecified Commercial/Industrial	1886	995879
AI	427m E	Pottery Works	1955	1009759
AI	428m E	Unspecified Works	1993	1079933
AI	428m E	Unspecified Works	1988	1079933
W	430m NE	Unspecified Ground Workings	1920	1081256
W	430m NE	Unspecified Ground Workings	1938	1081256
5	431m W	Unspecified Ground Workings	1886	998847



ID	Location	Land Use	Date	Group ID
AH	431m SW	Old Gasometer	1886	1044392
Y	433m SE	Unspecified Shaft	1886	1009449
AJ	433m NW	Unspecified Ground Workings	1920	1129652
AJ	433m NW	Unspecified Ground Workings	1938	1129652
AJ	433m NW	Unspecified Heap	1919	1136320
AJ	433m NW	Unspecified Heap	1938	1087593
AJ	433m NW	Unspecified Heap	1919	1045329
AH	433m SW	Old Gasometer	1885	1044392
Y	434m SE	Coal Shafts	1938	1107050
Y	434m SE	Coal Shafts	1919	1107050
Y	434m SE	Old Coal Shaft	1901	992333
Y	434m SE	Coal Shafts	1920	1107050
Y	434m SE	Coal Shafts	1938	1107050
Y	434m SE	Coal Shafts	1919	1107050
W	435m NE	Unspecified Ground Workings	1938	1072494
W	435m NE	Unspecified Ground Workings	1919	1076730
AI	435m E	Unspecified Ground Workings	1938	998834
AI	435m E	Unspecified Works	1978	1133828
W	436m NE	Unspecified Ground Workings	1919	1103473
AI	436m E	Unspecified Pit	1920	1030706
Y	436m SE	Unspecified Old Shaft	1885	1003599
AK	436m N	Unspecified Heap	1885	1135928
Y	437m SE	Unspecified Shaft	1886	1009448
6	437m W	Unspecified Heap	1885	1002041
AI	437m E	Pottery	1968	1144285
AI	437m E	Pottery	1974	1144285
AJ	439m NW	Unspecified Heap	1955	1087593
AK	442m N	Unspecified Ground Workings	1886	998842



ID	Location	Land Use	Date	Group ID
D	442m N	Old Coal Shaft	1938	1076935
D	442m N	Old Coal Shaft	1920	1076935
AD	442m NW	Unspecified Heap	1885	1082415
W	443m NE	Clay Pit	1901	1019000
AJ	443m NW	Unspecified Ground Workings	1886	1090629
D	444m N	Unspecified Shaft	1885	1072933
AI	445m E	Unspecified Heap	1938	1117316
D	446m N	Old Coal Shaft	1938	1076935
D	446m N	Old Coal Shaft	1919	1076935
D	446m N	Unspecified Shaft	1886	1072933
7	446m W	Refuse Heap	1901	1020230
AJ	446m NW	Unspecified Heap	1885	1047319
AI	446m E	Unspecified Heap	1886	1048584
AI	447m E	Unspecified Heap	1938	1117316
AI	447m E	Unspecified Heap	1919	1037138
D	447m N	Old Coal Shaft	1919	1151038
W	447m NE	Unspecified Pit	1955	1030685
Y	447m SE	Unspecified Ground Workings	1938	1065874
Y	447m SE	Unspecified Ground Workings	1919	1089288
AJ	449m NW	Unspecified Old Shaft	1886	1087902
Y	449m SE	Unspecified Ground Workings	1919	1089288
Y	450m SE	Unspecified Heap	1920	1069749
Y	450m SE	Unspecified Heap	1938	1069749
AI	450m E	Unspecified Pit	1938	1033903
AJ	450m NW	Unspecified Old Shaft	1885	1087902
AM	450m N	Unspecified Heap	1885	1092650
AD	450m NW	Unspecified Heap	1955	1099960
AJ	451m NW	Old Coal Shafts	1919	1097767



ID	Location	Land Use	Date	Group ID
AJ	451m NW	Unspecified Tank	1920	1131127
AJ	451m NW	Unspecified Tank	1938	1131127
AD	451m NW	Railway Sidings	1919	1114398
AK	451m N	Unspecified Heaps	1919	1062244
AK	451m N	Unspecified Heaps	1901	1062244
AI	451m E	Brick Works	1913	1121783
AI	451m E	Brick Works	1901	1140133
AI	451m E	Brick Works	1921	1099335
AI	452m E	Unspecified Ground Workings	1901	1078876
AI	452m E	Unspecified Ground Workings	1921	1082350
AD	452m NW	Unspecified Ground Workings	1886	1156714
AD	452m NW	Railway Sidings	1920	1114398
AJ	452m NW	Old Coal Shafts	1901	1082398
AI	452m E	Unspecified Ground Workings	1913	1146702
AM	453m N	Unspecified Heap	1886	1092650
AI	453m E	Unspecified Heap	1938	1117316
AJ	454m NW	Old Coal Shafts	1919	1036876
AK	454m N	Unspecified Heap	1919	1127373
AD	454m NW	Railway Sidings	1919	1127137
AI	455m E	Unspecified Ground Workings	1913	1132486
AI	455m E	Unspecified Ground Workings	1901	1132486
AI	455m E	Unspecified Ground Workings	1921	1112651
W	455m NE	Colliery	1885	1076308
W	455m NE	Colliery	1886	1076308
AI	456m E	Unspecified Ground Workings	1885	1128800
Y	456m SE	Unspecified Ground Workings	1886	1070674
AI	456m E	Unspecified Pit	1955	1083252
AK	457m N	Unspecified Heap	1920	1127373



ID	Location	Land Use	Date	Group ID
AI	457m E	Unspecified Ground Workings	1886	1072606
AI	457m E	Unspecified Pit	1886	1038403
AI	458m E	Unspecified Pit	1885	1034038
Y	459m SE	Unspecified Heap	1920	1072522
AN	460m E	Unspecified Disused Works	1938	1078874
AM	461m N	Unspecified Ground Workings	1938	1074567
AM	461m N	Unspecified Ground Workings	1919	1096667
W	461m NE	Unspecified Ground Workings	1886	1084250
Y	462m SE	Unspecified Heap	1938	1043045
W	462m NE	Unspecified Heap	1885	1108592
AM	463m N	Unspecified Heap	1920	1094262
AM	464m N	Unspecified Heap	1901	1090786
8	464m SW	Bedstead Works	1938	1087575
AJ	464m NW	Old Coal Shafts	1919	1112487
AJ	464m NW	Unspecified Tank	1920	1127272
AJ	464m NW	Unspecified Tank	1938	1127272
AM	465m N	Unspecified Heap	1919	1094262
Y	465m SE	Unspecified Heap	1901	1133946
AJ	465m NW	Old Coal Shafts	1901	1141173
AI	465m E	Railway Sidings	1901	1125027
AN	466m E	Unspecified Disused Works	1886	1089071
AD	466m NW	Unspecified Pit	1919	1030666
AJ	467m NW	Old Coal Shafts	1919	1063237
Y	468m SE	Unspecified Heap	1886	1133946
Y	469m SE	Unspecified Heap	1885	1133946
AO	469m NE	Old Filter Beds	1920	1154992
AO	469m NE	Old Filter Beds	1938	1154992
Y	470m SE	Unspecified Heap	1919	1081068



ID	Location	Land Use	Date	Group ID
AD	472m NW	Unspecified Ground Workings	1920	1044367
AP	473m SE	Unspecified Ground Workings	1886	998832
AO	473m NE	Old Filter Beds	1938	1077608
AO	473m NE	Old Filter Beds	1919	1128905
AD	474m NW	Unspecified Ground Workings	1919	1094306
AD	474m NW	Unspecified Old Shaft	1885	1125302
AD	474m NW	Unspecified Old Shaft	1886	1125302
AO	474m NE	Old Filter Beds	1919	1154992
AD	477m NW	Old Coal Shaft	1919	992331
AQ	477m E	Brick Works	1921	1122281
AD	479m NW	Coal Shaft	1919	1067780
AI	479m E	Unspecified Old Shaft	1885	1139411
AQ	480m E	Brick Works	1938	1075136
AQ	480m E	Brick Works	1913	1048154
AQ	480m E	Brick Works	1901	1048154
AI	480m E	Railway Sidings	1955	1105964
AI	481m E	Unspecified Old Shaft	1886	1068508
AR	483m S	Unspecified Ground Workings	1919	1048865
AR	483m S	Unspecified Ground Workings	1920	1130452
AP	486m SE	Coal Shafts	1920	1115829
AP	486m SE	Coal Shafts	1938	1102891
AR	486m S	Unspecified Ground Workings	1919	1130452
AP	487m SE	Coal Shafts	1919	1136880
AP	487m SE	Coal Shafts	1938	1034838
AP	487m SE	Coal Shafts	1919	1106938
AS	491m S	Unspecified Heap	1920	1130903
AS	491m S	Unspecified Heap	1938	1130903
AP	492m SE	Unspecified Old Shafts	1886	993079



ID	Location	Land Use	Date	Group ID
W	493m NE	Railway Sidings	1901	994068
9	493m E	Refuse Heap	1921	1020262
AP	493m SE	Coal Shafts	1919	1149475
AP	494m SE	Coal Shafts	1938	1059001
AP	494m SE	Coal Shafts	1919	1155057
AS	494m S	Unspecified Heap	1919	1122321
AP	494m SE	Old Coal Shafts	1901	1026010
AP	494m SE	Coal Shaft	1920	1058701
AP	494m SE	Coal Shaft	1938	1091654
AP	494m SE	Coal Shafts	1919	993517
AP	495m SE	Unspecified Pit	1938	1112925
AP	495m SE	Unspecified Pit	1919	1123453
AP	496m SE	Coal Shaft	1938	1091654
AP	496m SE	Coal Shaft	1919	1058701
AP	496m SE	Unspecified Pit	1901	1123453
AP	496m SE	Unspecified Pit	1920	1123453
AP	496m SE	Unspecified Pit	1938	1155824
AP	496m SE	Unspecified Pit	1919	1123453
D	496m N	Coal Shaft	1920	1021246
AP	497m SE	Unspecified Pit	1885	1084916
AP	498m SE	Coal Shafts	1919	1036279
AP	499m SE	Unspecified Ground Workings	1886	1155263
AP	500m SE	Coal Shafts	1938	1156523
AP	500m SE	Coal Shafts	1919	1131593

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m	73
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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 39 >](#)

ID	Location	Land Use	Date	Group ID
B	39m E	Tanks	1995	165748
B	39m E	Tanks	1995	165748
D	85m NE	Unspecified Tank	1938	153923
D	127m N	Humus Tanks	1938	166969
D	129m N	Humus Tanks	1965	167413
D	129m N	Humus Tanks	1964	167413
D	136m N	Tanks	1919	157362
K	160m NE	Unspecified Tank	1903	164006
K	160m NE	Unspecified Tank	1919	164006
D	161m N	Tanks	1938	157358
D	166m N	Tanks	1965	167958
D	168m N	Tanks	1938	157359
D	179m N	Tanks	1964	160687
D	187m N	Settling Tanks	1938	155950
D	187m N	Unspecified Tank	1938	153924
D	189m N	Unspecified Tank	1965	165088
D	189m N	Unspecified Tank	1964	162816
H	205m SW	Unspecified Tank	1970	153702
D	213m N	Unspecified Tank	1964	158101
D	214m N	Unspecified Tank	1965	159989
A	216m W	Unspecified Tank	1982	153703
M	238m S	Unspecified Tank	1979	165519
M	238m S	Unspecified Tank	1991	165519



ID	Location	Land Use	Date	Group ID
M	238m S	Unspecified Tank	1970	165519
M	239m S	Unspecified Tank	1995	165519
M	239m S	Unspecified Tank	1995	165519
M	239m S	Unspecified Tank	-	149526
H	262m SW	Unspecified Tank	1979	159430
H	262m SW	Unspecified Tank	1991	159430
H	262m SW	Unspecified Tank	1970	159430
H	262m SW	Unspecified Tank	1995	159430
H	262m SW	Unspecified Tank	1995	159430
H	262m SW	Unspecified Tank	-	149460
E	280m NE	Tanks	1938	157361
E	281m NE	Unspecified Tank	1965	163085
E	281m NE	Unspecified Tank	1964	163085
E	287m NE	Unspecified Tank	1965	165739
E	288m NE	Unspecified Tank	1964	165739
H	301m SW	Tanks	1965	159679
H	301m SW	Tanks	1979	160722
H	301m SW	Tanks	1991	160722
H	301m SW	Tanks	1965	159679
H	301m SW	Tanks	1970	159679
H	302m SW	Tanks	1995	160722
H	302m SW	Tanks	1995	160722
H	302m SW	Tanks	-	149579
E	308m NE	Unspecified Tank	1938	153914
E	308m NE	Tanks	1965	166101
E	308m NE	Tanks	1964	166101
H	339m SW	Unspecified Tank	1995	162902
H	339m SW	Unspecified Tank	1995	162902



ID	Location	Land Use	Date	Group ID
H	339m SW	Unspecified Tank	1991	162902
H	340m SW	Unspecified Tank	-	149461
H	340m SW	Unspecified Tank	1970	161709
H	340m SW	Unspecified Tank	1979	161709
AF	401m SW	Tanks	1979	164314
AF	401m SW	Tanks	1991	164314
AF	402m SW	Tanks	-	149429
AF	402m SW	Tanks	1995	164314
AF	402m SW	Tanks	1995	164314
AG	412m S	Tanks	-	149400
AG	418m S	Tanks	-	149528
AG	419m S	Tanks	1979	158593
AG	419m S	Tanks	1991	167199
AG	419m S	Tanks	1970	158880
AG	421m S	Tanks	1995	167750
AG	421m S	Tanks	1995	163718
AG	428m S	Tanks	1979	160740
AG	428m S	Tanks	1991	160740
AG	430m S	Tanks	-	149527
AG	430m S	Tanks	1995	160740
AG	430m S	Tanks	1995	160740
AH	432m SW	Old Gasometer	1887	156057

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

27

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 39](#) >

ID	Location	Land Use	Date	Group ID
D	70m N	Gas Valve Station	1995	96279
D	70m N	Gas Valve Station	1995	96279
B	87m W	Electricity Substation	1995	94936
B	87m W	Electricity Substation	1995	94936
B	93m W	Electricity Substation	-	85603
B	94m W	Electricity Substation	1979	96274
B	94m W	Electricity Substation	1970	88964
B	94m W	Electricity Substation	1995	88964
B	94m W	Electricity Substation	1995	88964
B	95m W	Electricity Substation	1991	88964
G	153m S	Electricity Substation	1988	94847
G	154m S	Electricity Substation	1995	94847
G	154m S	Electricity Substation	1995	94847
D	158m NW	Electricity Substation	1995	93732
D	158m NW	Electricity Substation	1995	93732
D	158m NW	Electricity Substation	1982	95860
H	302m SW	Gas Governor	1995	92252
H	302m SW	Gas Governor	1995	92252
H	303m SW	Gas Governor	1991	87654
AH	432m SW	Old Gasometer	1887	87458
AI	469m E	Electricity Substation	1988	86932
AI	471m E	Electricity Substation	1989	86931
AI	473m E	Electricity Substation	1995	96058
AI	473m E	Electricity Substation	1995	96058
AH	479m SW	Gas Governor	1995	91325
AH	479m SW	Gas Governor	1995	91325
AH	479m SW	Gas Governor	1991	90889



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

21

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 39 >](#)

ID	Location	Land Use	Date	Group ID
B	10m S	Garage	1995	29757
B	42m SW	Garage	1995	30212
B	42m SW	Garage	1995	30212
B	65m SW	Garage	1979	31538
B	65m SW	Garage	1991	31538
B	66m SW	Garage	1965	29916
B	66m SW	Garage	-	27968
B	66m SW	Garage	1995	29196
B	71m SW	Garage	1979	29165
B	72m SW	Garage	1965	30621
B	72m SW	Garage	1970	30621
B	84m SW	Garage	-	27910
B	86m SW	Garage	1995	31889
B	86m SW	Garage	1995	31889
B	86m SW	Garage	1991	28801

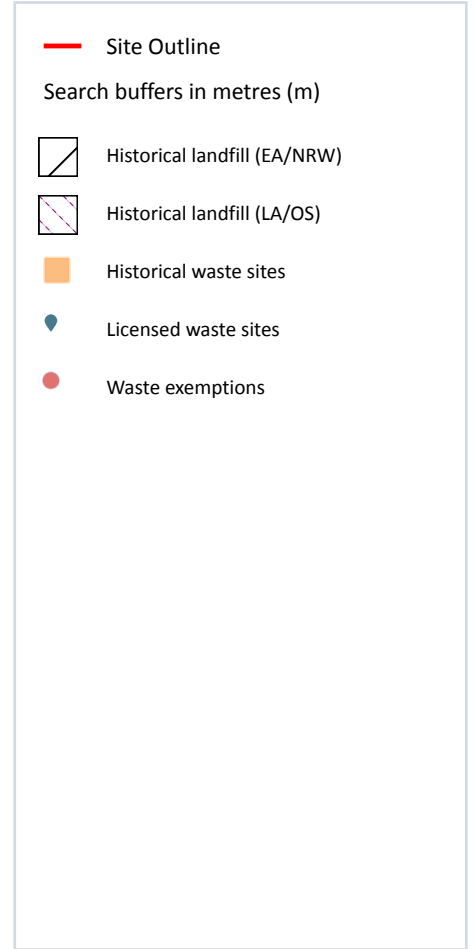
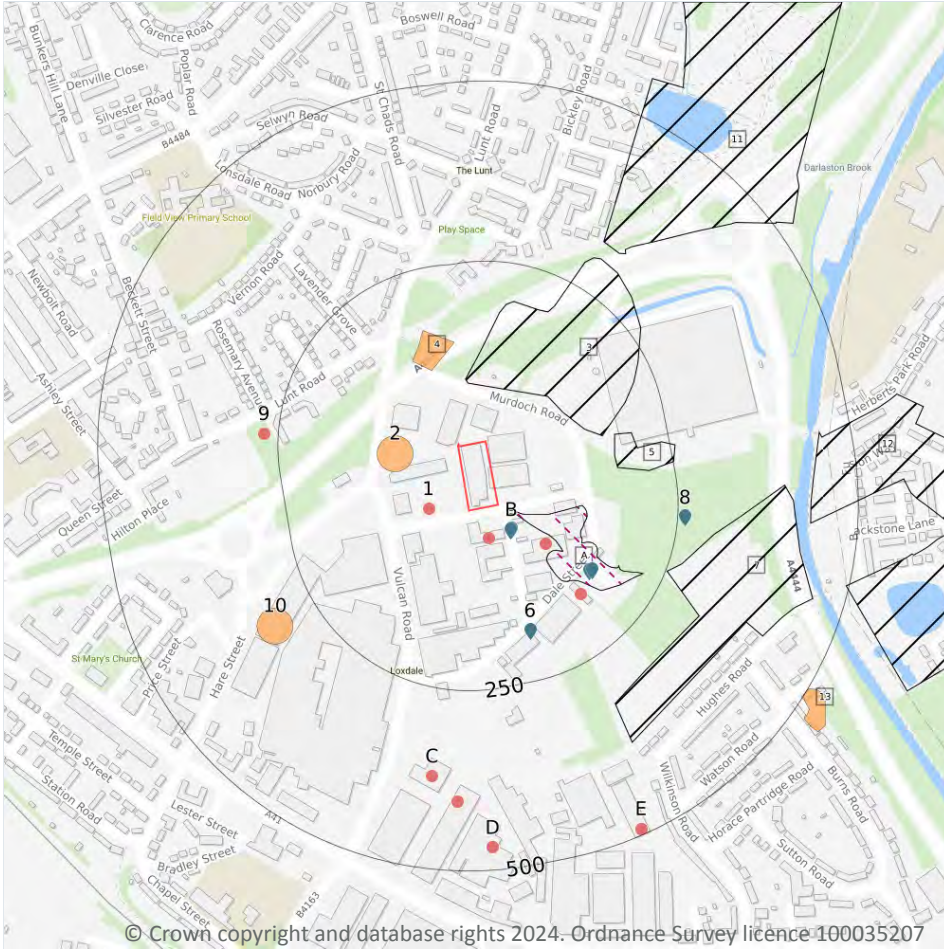


ID	Location	Land Use	Date	Group ID
AL	443m SW	Garage	1991	29770
AL	443m SW	Garage	1965	28548
AL	444m SW	Garage	1965	30296
AL	444m SW	Garage	1970	30296
AL	467m SW	Garage	1995	30421
AL	467m SW	Garage	1995	30421

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

2

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

Features are displayed on the Waste and landfill map on [page 70 >](#)

ID	Location	Site address	Source	Data type
A	15m SE	Refuse Tip	1964 mapping	Polygon
A	16m SE	Refuse Tip	1964 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

5

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 70 >](#)

ID	Location	Details		
3	75m N	Site Address: The Lunt Sewage Works, Off The Black Country Route, Bilston, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: 644/829, LF/23 Waste Type: Industrial, Liquid sludge Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Severn Trent Water First Recorded 01/09/1982 Last Recorded: 01/12/1986
5	171m E	Site Address: Dale Street, Dale Street, Bilston, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: 644/2013, 4600/9406 Waste Type: - Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: - First Recorded - Last Recorded: -



ID	Location	Details		
7	252m SE	Site Address: Hughes Road Landfill Site, Hughes Road, Moxley, Walsall, West Midlands Licence Holder Address: -	Waste Licence: - Site Reference: SL/178, WAL514, 644/488 Waste Type: Commercial, Household Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: Midland Earthmoving Company Limited Licence Holder: - First Recorded: - Last Recorded: -
11	320m NE	Site Address: Parkhill - Darlaston Lane Landfill Site, Darlaston Lane, Wolverhampton, Bilston, West Midlands Licence Holder Address: Fernhill Road, Nr Newport, Sutton, Shropshire	Waste Licence: Yes Site Reference: NYCC/340, 0700/NYCC340, NE3964 Waste Type: - Environmental Permitting Regulations (Waste) Reference: YP3/L/WAL001 Licence Issue: 08/06/1978 Licence Surrender: 18/08/2010	Operator: Parkhill - Darlaston Lane Landfill Site Licence Holder: Parkhill - Darlaston Lane Landfill Site First Recorded: - Last Recorded: -
12	434m E	Site Address: Heathfield Lane West, Heathfield Lane, Moxley, Walsall Licence Holder Address: -	Waste Licence: Yes Site Reference: SL/111, 644/78 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: BD1/L/GEO001 Licence Issue: 11/10/1977 Licence Surrender: -	Operator: - Licence Holder: George Ward (Moxley) Limited First Recorded 31/12/1908 Last Recorded: -

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

3.5 Historical waste sites

Records within 500m	4
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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 70 >](#)

ID	Location	Address	Further Details	Date
2	63m W	Site Address: Former Starr Road, Transport De, Vulcan Road, Bilston, West Midlands, WV14 7LF	Type of Site: Scrap Yard (Conversion) Planning application reference: 13/01194/FUL Description: Scheme comprises change of use to scrap yard with associated office units and weighbridge. Data source: Historic Planning Application Data Type: Point	10/02/2014



ID	Location	Address	Further Details	Date
4	109m NW	Site Address: N/A	Type of Site: Scrap Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1982
10	288m SW	Site Address: Bilston Stove & Steel Co, Hare Street, BILSTON, West Midlands, WV14 7DX	Type of Site: Waste Treatment (Conversion) Planning application reference: 00/1037 Description: Change of use from manufacturing to waste management activities. Construction - brick, brick cladding walls; pitched roof. An application (ref: 00/1037) for Detailed Planning permission was withdrawn from Wolverhampton Borough Council. Tender details currently unavailable. Detailed plans were withdrawn October, 2000. (22/11/2000) Data source: Historic Planning Application Data Type: Point	-
13	499m SE	Site Address: N/A	Type of Site: Refuse Pit Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1887

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

3.6 Licensed waste sites

Records within 500m

8

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

Features are displayed on the Waste and landfill map on [page 70 >](#)

ID	Location	Details		
B	39m SE	Site Name: Bilston Metal Recycling Ltd Site Address: Dale Street, Biltson, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIL014 EPR reference: EA/EPR/MP3898VG/A001 Operator: Bilston Metal Recycling Ltd Waste Management licence No: 101979 Annual Tonnage: 74999	Issue Date: 24/09/2010 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked



ID	Location	Details		
B	39m SE	Site Name: B & A Metals Midlands Ltd Site Address: Land/ Premises At, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 631012 EPR reference: EA/EPR/YP3896FQ Operator: B & A Metals Midlands Limited Waste Management licence No: 42225 Annual Tonnage: 24999	Issue Date: 27/04/1992 Effective Date: 27/04/1992 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
B	39m SE	Site Name: Bilston Metal Recycling Ltd Site Address: Dale Street, Bilston, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: 75kte Metal Recycling Site Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 645897 EPR reference: EA/EPR/MP3898VG Operator: Bilston Metal Recycling Limited Waste Management licence No: 101979 Annual Tonnage: 74999	Issue Date: 24/09/2010 Effective Date: 24/09/2010 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Revoked
B	40m SE	Site Name: R Slater Metals Ltd Site Address: Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Type of Site: Metal Recycling Site (mixed MRS's) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: SLA003 EPR reference: - Operator: R Slater Metals Ltd Waste Management licence No: 42225 Annual Tonnage: 0	Issue Date: 27/04/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	157m SE	Site Name: Farmers Scrap Metal Ltd Site Address: Unit 2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 652071 EPR reference: EA/EPR/HB3707TG Operator: Farmers Scrap Metal Limited Waste Management licence No: 100431 Annual Tonnage: 4999	Issue Date: 22/01/2009 Effective Date: 22/01/2009 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued



ID	Location	Details		
A	159m SE	Site Name: P E Metals Ltd Site Address: Yard 3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 636128 EPR reference: EA/EPR/RP3496FK Operator: P E Metals Limited Waste Management licence No: 42194 Annual Tonnage: 5000	Issue Date: 14/06/1991 Effective Date: 14/06/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
6	180m S	Site Name: Sita - Dale Street Site Address: Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 632982 EPR reference: EA/EPR/HP3596FP Operator: Shukco 350 Limited Waste Management licence No: 41810 Annual Tonnage: 72800	Issue Date: 09/06/1988 Effective Date: 09/06/1988 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered
8	260m E	Site Name: Cooksey Reclamation Ltd Site Address: Unit 2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste T Stn Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: COO037 EPR reference: EA/EPR/CB3135RF/A001 Operator: Cooksey Reclamation Ltd Waste Management licence No: 100431 Annual Tonnage: 4999	Issue Date: 22/01/2009 Effective Date: - 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
16

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 70 >](#)

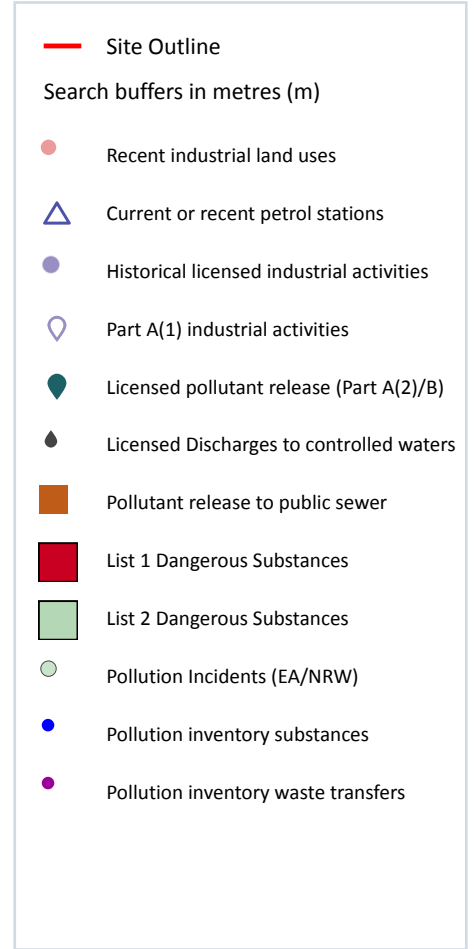
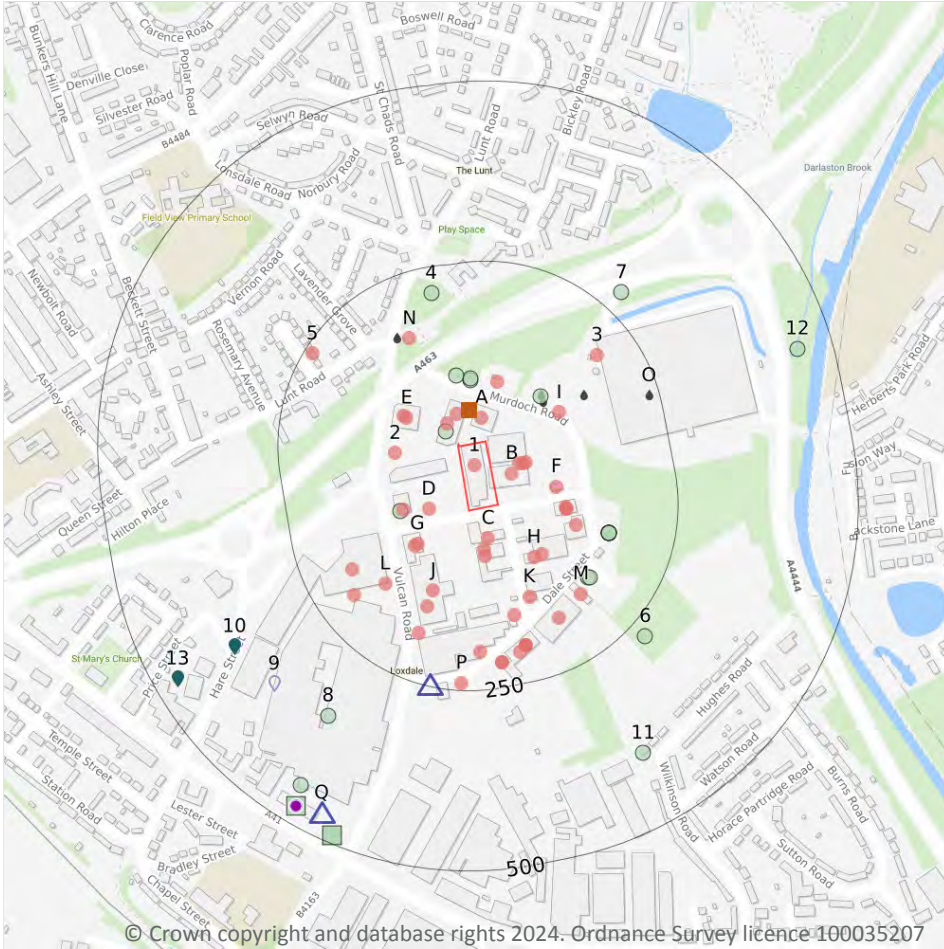
ID	Location	Site	Reference	Category	Sub-Category	Description
B	43m S	DALE STREET, BILSTON, WV14 7JY	WEX235988	Using waste exemption	Not on a farm	Use of waste in construction
1	55m SW	UNIT 1, DALE STREET, BILSTON, WV14 7JY	WEX148865	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	86m SE	DALE HOUSE, DALE STREET, BILSTON, WOLVERHAMPTON, WV14 7JY	WEX124406	Storing waste exemption	Not on a farm	Storage of waste in a secure place
A	169m SE	Unit 3, Dale Street, Bilston, Wolverhampton, WV147JY	WEX245227	Using waste exemption	Not on a farm	Use of waste in construction
9	270m W	-	WEX355709	Disposing of waste exemption	Not on a farm	Burning waste in the open
C	373m S	Oxford Street Industrial Park Unit C Vulcan Road BILSTON West Midlands WV14 7LF	EPR/VE5282YJ /A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
C	405m S	OXFORD STREET INDUSTRIAL PARK, VULCAN ROAD, BILSTON, WV14 7LF	WEX229415	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	405m S	OXFORD STREET INDUSTRIAL PARK, VULCAN ROAD, BILSTON, WV14 7LF	WEX085000	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	469m S	-	WEX349509	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
D	469m S	-	WEX349509	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	469m S	-	WEX349509	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	469m S	-	WEX230831	Storing waste exemption	Not on a Farm	Storage of waste in a secure place



ID	Location	Site	Reference	Category	Sub-Category	Description
D	469m S	-	WEX230831	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
D	469m S	-	WEX230831	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	492m SE	Unit 1, Bilston Industrial Estate Oxford Street Bilston West Midlands WV14 7EG	EPR/AH0813Q B/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
E	492m SE	Unit 1, Bilston Industrial Estate Oxford Street Bilston West Midlands WV14 7EG	EPR/AH0813Q B/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place

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

4 Current industrial land use



4.1 Recent industrial land uses

Records within 250m

48

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID	Location	Company	Address	Activity	Category
1	On site	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
B	27m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
A	33m N	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features

ID	Location	Company	Address	Activity	Category
A	33m NW	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
B	40m E	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
A	42m N	D S Willetts Stainless Ltd	-, Murdoch Road, Wolverhampton, West Midlands, WV14 7HG	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
C	43m S	E Aston & Son Ltd	-, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Distribution and Haulage	Transport, Storage and Delivery
B	45m E	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
B	49m E	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features
D	55m SW	Rebecca Louise Logistics	Land East of Auto Sales, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JW	Distribution and Haulage	Transport, Storage and Delivery
C	57m S	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
C	66m S	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
E	81m NW	Parker Precision	-, Vulcan Road, Wolverhampton, West Midlands, WV14 7HW	Precision Engineers	Engineering Services
A	84m N	Gas Valve Station	West Midlands, WV14	Gas Features	Infrastructure and Facilities
F	84m E	Beck & Pollitzer	-, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7HQ	Construction Completion Services	Construction Services
G	85m SW	Jungle Juice Hydroponics	Flat 1 Smart Building, Vulcan Road, Wolverhampton, West Midlands, WV14 7HT	Horticultural Equipment	Industrial Products
E	85m NW	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
2	88m W	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
H	88m SE	J R Wooddisse & Co Ltd	J R Wooddisse and Company, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7LE	Disability and Mobility Equipment	Consumer Products
D	90m SW	Autosales Ltd	-, Vulcan Road, Wolverhampton, West Midlands, WV14 7JW	New Vehicles	Motoring
G	90m SW	Smart Car Detailing	Smart Building, Vulcan Road, Bilston, West Midlands, WV14 7JW	Vehicle Cleaning Services	Personal, Consumer and Other Services



ID	Location	Company	Address	Activity	Category
H	92m SE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
F	93m E	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
F	96m E	Orson Equipment Ltd	Orson Equipment, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Vehicle Repair, Testing and Servicing	Repair and Servicing
F	96m E	The Turner Gear & Engineering Company	Orson Equipment, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Industrial Engineers	Engineering Services
I	110m NE	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
F	112m SE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
J	121m S	Ramsay	Ramsay Rubber, Vulcan Road, Wolverhampton, West Midlands, WV14 7HT	Seals, Tapes, Taps and Valves	Industrial Products
K	134m SE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
J	145m S	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
L	154m SW	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
K	155m S	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
N	162m NW	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
M	169m SE	Chemi Black & Phosphate	Express House, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Metals Manufacturers, Fabricators and Stockholders	Industrial Products
M	178m SE	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
L	181m SW	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
J	183m S	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
3	195m NE	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
K	197m S	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
L	198m SW	Electricity Sub Station	West Midlands, WV14	Electrical Features	Infrastructure and Facilities
K	199m S	Cooper Mobile	3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Vehicle Repair, Testing and Servicing	Repair and Servicing
K	199m S	P E Metals Ltd	3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Scrap Metal Merchants	Recycling Services
K	199m S	Cooper Group UK	3, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Vehicle Repair, Testing and Servicing	Repair and Servicing
K	206m S	Works	West Midlands, WV14	Unspecified Works Or Factories	Industrial Features
K	215m S	Omega Scaffolding Solutions Ltd	2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	Construction and Tool Hire	Hire Services
K	215m S	Joint Welding & Fabrications Ltd	2, Dale Street, Bilston, Wolverhampton, West Midlands, WV14 7JY	General Construction Supplies	Industrial Products
5	239m NW	A B Waste Collection	27, Garden Walk, Wolverhampton, West Midlands, WV14 7HU	Recycling, Reclamation and Disposal	Recycling Services
P	239m S	Tank	West Midlands, WV14	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID	Location	Company	Address	LPG	Status
P	247m S	GULF	Vulcan Road, Bilston, West Midlands, WV14 7JW	Not Applicable	Obsolete
Q	466m SW	OBSOLETE	Oxford Street, Bilston, Wolverhampton, West Midlands, WV14 7EA	Not Applicable	Obsolete

This data is sourced from Experian.



4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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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
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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
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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

6

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.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID	Location	Details	
Q	475m SW	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: AS5423	Original Permit Number: IPCAIRAPP Date Approved: 29-12-1995 Effective Date: 1-1-1996 Status: Superseded By Variation
Q	475m SW	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BA1451	Original Permit Number: IPCMINVAR Date Approved: 26-7-1999 Effective Date: 26-7-1999 Status: Superseded By Variation
Q	475m SW	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BD2080	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
Q	475m SW	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BG9625	Original Permit Number: IPCMINVAR Date Approved: 9-9-1999 Effective Date: 13-9-1999 Status: Superseded By Variation
Q	475m SW	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BI5876	Original Permit Number: IPCMINVAR Date Approved: 17-7-2000 Effective Date: 17-7-2000 Status: Superseded By Variation



ID	Location	Details	
Q	475m SW	Operator: Mueller Europe Ltd Address: Oxford Street, Bilston, West Midlands, WV14 7DS Process: Non-ferrous Metals Permit Number: BK3522	Original Permit Number: IPCMAJVAR Date Approved: 23-4-2001 Effective Date: 30-4-2001 Status: Revoked - Now Ippc

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 78 >](#)

ID	Location	Details	
9	361m SW	Operator: E.ON CONNECTING ENERGIES LIMITED Installation Name: Mueller Europe Ltd Process: ASSOCIATED PROCESS Permit Number: XP3805PY Original Permit Number: XP3805PY	EPR Reference: EPR/XP3805PY Issue Date: 23/10/2019 Effective Date: 23/10/2019 Last date noted as effective: 23/11/2023 Status: Effective
Q	475m SW	Operator: MUELLER EUROPE LIMITED Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BJ9843IH Original Permit Number: BJ9843IH	EPR Reference: EPR/BJ9843IH Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 23/11/2023 Status: Effective
Q	475m SW	Operator: MUELLER EUROPE LIMITED Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BJ9843IH Original Permit Number: BJ9843IH	EPR Reference: EPR/BJ9843IH Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 23/11/2023 Status: Effective
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BX1292 Original Permit Number: BJ9843	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS



ID	Location	Details	
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: BILSTON COPPER SHAFT FURNACE Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: GP3139QS Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 03/12/2018 Status: DETERMINATION
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BX1292 Original Permit Number: BJ9843	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BJ9843 Original Permit Number: BJ9843	EPR Reference: - Issue Date: 31/03/2003 Effective Date: 31/03/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: - Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BJ9843 Original Permit Number: BJ9843	EPR Reference: - Issue Date: 31/03/2003 Effective Date: 31/03/2003 Last date noted as effective: 01/10/2004 Status: SUPERSEDED BY PAS
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: BILSTON COPPER SHAFT FURNACE Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: ZP3236QW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 24/10/2019 Effective Date: 24/10/2019 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
Q	475m SW	Operator: MUELLER EUROPE LTD Installation Name: BILSTON COPPER SHAFT FURNACE Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: ZP3236QW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 24/10/2019 Effective Date: 24/10/2019 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
Q	475m SW	Operator: Mueller Europe Limited Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: LP3805BR Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 21/03/2023 Status: Effective



ID	Location	Details	
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: CP3238JE Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 01/02/2018 Effective Date: 01/02/2018 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: GP3139QS Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 06/11/2018 Effective Date: 06/11/2018 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: PP3232JV Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 04/06/2018 Effective Date: 04/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: RP3532ST Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: LP3036XX Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/08/2008 Effective Date: 08/08/2008 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: PP3232JV Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 04/06/2018 Effective Date: 04/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: RP3532ST Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: TP3433AW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/04/2015 Effective Date: 08/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: NON-FERROUS METALS; MELTING CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS AND FOR ALLOYS A VESSEL WITH A DESIGN HOLDING CAPACITY OF 5 TONNES OR MORE. Permit Number: ZP3236QW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 24/10/2019 Effective Date: 24/10/2019 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: BX1292IY Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 26/01/2004 Effective Date: 26/01/2004 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Limited Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: LP3805BR Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 29/04/2021 Effective Date: 29/04/2021 Last date noted as effective: 21/03/2023 Status: Effective
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: LP3036XX Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/08/2008 Effective Date: 08/08/2008 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: PP3232JV Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 04/06/2018 Effective Date: 04/06/2018 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: BX1292IY Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 26/01/2004 Effective Date: 26/01/2004 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: CP3238JE Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 01/02/2018 Effective Date: 01/02/2018 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: EP3137FT Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 07/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: GP3139QS Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 06/11/2018 Effective Date: 06/11/2018 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: CP3238JE Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 01/02/2018 Effective Date: 01/02/2018 Last date noted as effective: 21/03/2023 Status: Superseded



ID	Location	Details	
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: EP3137FT Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 07/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS Permit Number: EP3137FT Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 02/02/2012 Effective Date: 07/02/2012 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: LP3036XX Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/08/2008 Effective Date: 08/08/2008 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: RP3532ST Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: NON-FERROUS METALS; MELTING WITH CAPACITY => 5T Permit Number: TP3433AW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/04/2015 Effective Date: 08/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded
Q	475m SW	Operator: Mueller Europe Ltd Installation Name: Bilston Copper Shaft Furnace EPR/BJ9843IH Process: SOLVENT EMISSIONS DIRECTVE; ACTIVITIES EXCEEDING SOLVENT THRESHOLD Permit Number: TP3433AW Original Permit Number: BJ9843IH	EPR Reference: - Issue Date: 08/04/2015 Effective Date: 08/04/2015 Last date noted as effective: 21/03/2023 Status: Superseded

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



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

Records within 500m
2

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 78 >](#)

ID	Location	Address	Details	
10	375m SW	Vehicle Services Limited, Hare Street, Bilston, Wolverhampton, WV14 7DX	Process: Combustion & Incineration Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
13	466m SW	SS Concrete Mix Ltd, Price Street, Bilston, WV14 7EE	Process: Use of Bulk Cement Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements 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
7

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

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID	Location	Address	Details	
I	96m NE	LUNT ROAD CSO, LUNT ROAD, BILSTON, WEST MIDLANDS, WV14 7HF	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: EPRHB3896EB Permit Version: 1 Receiving Water: DARLASTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 09/08/2018 Effective Date: 09/08/2018 Revocation Date: -



ID	Location	Address	Details	
I	99m NE	QUEEN STREET CSO, WV14 7HG	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC1609 Permit Version: 1 Receiving Water: BILSTON BROOK	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
I	150m NE	LUNT ROAD, WV14 7HQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: TSC1179 Permit Version: 1 Receiving Water: BILSTON BROOK REM	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 12/08/2011
N	171m NW	DOCK MEADOW CSO, WILLINGWORTH CLOSE, BILSTON, WEST MIDLANDS, WV14 9YQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/08/07832/O Permit Version: 1 Receiving Water: BILSTON/DARLASTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 20/09/1979 Effective Date: 20/09/1979 Revocation Date: 30/03/2010
N	171m NW	DOCK MEADOW CSO, WILLINGWORTH CLOSE, BILSTON, WEST MIDLANDS, WV14 9YQ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: T/08/07832/O Permit Version: 2 Receiving Water: BILSTON/DARLASTON BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 02/02/2010 Effective Date: 31/03/2010 Revocation Date: 07/08/2018
O	235m NE	CITADEL JUNCTION, BLACK COUNTRY NEW ROAD, DARLASTON	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/08/35168/T Permit Version: 1 Receiving Water: DARLASTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/01/1998 Effective Date: 13/01/1998 Revocation Date: 30/09/1998
O	235m NE	CITADEL JUNCTION, BLACK COUNTRY NEW ROAD, DARLASTON	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: T/08/35168/T Permit Version: 1 Receiving Water: DARLASTON BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 13/01/1998 Effective Date: 13/01/1998 Revocation Date: 30/09/1998

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

1

Discharges of Special Category Effluents to the public sewer.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID	Location	Address	Details	
A	47m N	MF HAWKINS AND SONS (ELECTROPLATERS) LTD, MURDOCK ROAD, MURDOCK ROAD, BILSTON, WEST MIDLANDS, WV14 7HG	Permission reference: AG5013 Local Authority: WOLVERHAMPTON METROPOLITAN BOROUGH COUNCIL First received date: 01/06/2001	Last received date: 01/01/2018 Status: DEAD (APPLICATION)

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

4.16 List 1 Dangerous Substances

Records within 500m

1

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.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID	Location	Name	Status	Receiving Water	Authorised Substances
Q	476m SW	Mueller Europe Ltd, Bilston	Not Active	-	Cadmium

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

4.17 List 2 Dangerous Substances

Records within 500m

4

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.

Features are displayed on the Current industrial land use map on [page 78 >](#)



ID	Location	Name	Status	Receiving Water	Authorised Substances
Q	476m SW	Mueller Europe Limited, Bilston, Wv14 7ds	Active	Upper Tame To Conf Rea	Copper, Lead, pH, Zinc
Q	489m S	Wednesbury Tube & Fittings Co	Active	River Tame	Copper, Zinc
Q	489m S	Wednesbury Tube & Fittings Co	Active	River Tame	Copper, Zinc
Q	489m S	Wednesbury Tube And Fittings Company Limited, Oxfo	Active	-	Copper, Zinc

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

20

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 78 >](#)

ID	Location	Details	
A	25m NW	Incident Date: 27/09/2003 Incident Identification: 192849 Pollutant: Atmospheric Pollutants and Effects:Specific Waste Materials Pollutant Description: Smoke:Tyres	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
A	87m N	Incident Date: 19/08/2001 Incident Identification: 30473 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
A	89m N	Incident Date: 12/07/2001 Incident Identification: 22372 Pollutant: Inert Materials and Wastes Pollutant Description: Other Inert Material or Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
D	94m SW	Incident Date: 22/02/2002 Incident Identification: 60108 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	96m N	Incident Date: 12/08/2002 Incident Identification: 99447 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Natural Organic Material	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
I	98m NE	Incident Date: 06/01/2009 Incident Identification: 644348 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 1 (Major) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)
F	159m SE	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
F	159m SE	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Atmospheric Pollutants and Effects:Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Smoke:Commercial Waste:Household Waste:Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
F	159m SE	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
F	159m SE	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
F	159m SE	Incident Date: 22/07/2002 Incident Identification: 93572 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Smoke	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
M	159m SE	Incident Date: 09/07/2003 Incident Identification: 172218 Pollutant: Atmospheric Pollutants and Effects:Contaminated Water Pollutant Description: Fumes:Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
M	162m SE	Incident Date: 20/05/2003 Incident Identification: 159667 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Other General Biodegradable Material or Waste	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
4	213m N	Incident Date: 19/04/2003 Incident Identification: 152519 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)



ID	Location	Details	
6	273m SE	Incident Date: 22/05/2002 Incident Identification: 80567 Pollutant: Pollutant Not Identified Pollutant Description: Not Identified	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
7	279m NE	Incident Date: 17/09/2003 Incident Identification: 190739 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
8	344m SW	Incident Date: 04/07/2001 Incident Identification: 13576 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Dust	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
11	398m SE	Incident Date: 04/07/2002 Incident Identification: 89368 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
Q	447m SW	Incident Date: 19/12/2001 Incident Identification: 48971 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Fumes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
12	451m E	Incident Date: 17/04/2003 Incident Identification: 152176 Pollutant: Sewage Materials Pollutant Description: Grey Water	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m

4

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.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID: Q, Location: 476m SW, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:



Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Copper	10kg	56.9kg

ID: Q, Location: 476m SW, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Particulate matter - total	10000kg	Below Reporting Threshold
Air	Dioxins and furans (PCDDs/PCDFs) - as WHO TEQ	1e-5kg	Below Reporting Threshold
Air	Nitrous oxide	10000kg	Below Reporting Threshold
Air	Chlorine and inorganic chlorine compounds - as HCl	10000kg	Below Reporting Threshold

ID: Q, Location: 476m SW, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon monoxide	100000kg	120319kg

ID: Q, Location: 476m SW, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Controlled Waters	Copper	20kg	28kg

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



4.20 Pollution inventory waste transfers

Records within 500m
1

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.

Features are displayed on the Current industrial land use map on [page 78 >](#)

ID: Q, Location: 476m SW, Permit: BJ9843IH
 Operator: Mueller Europe Limited
 Activity: NON-FERROUS METALS; MELTING WITH CAPACITY >4T/D LEAD/CADMIUM OR 20T/D OTHERS
 Address: Bilston Copper Shaft Furnace OXFORD STREET WEST MIDLANDS WV14 7DS
 Sector: Metals, Sub-sector: Non-Ferrous
 Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	48.85	absolute value	07 02 13	waste plastic	No
R4	Recycling/reclamation of metals and metal compounds	52.07	absolute value	10 06 02	dross and skimmings from primary and secondary production	No
R4	Recycling/reclamation of metals and metal compounds	20.36	absolute value	12 01 04	non-ferrous metal dust and particles	No
R3	Recycling/Reclamation of organic substances which are not used as solvents (including composting and other biological transformatin processes)	1.2	absolute value	15 01 02	plastic packaging	No
R4	Recycling/reclamation of metals and metal compounds	71.64	absolute value	16 11 04	other linings and refractories from metallurgical processes other than those mentioned in 16 11 03	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	5.31	absolute value	20 01 01	paper and cardboard	No



Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	152.27	absolute value	20 01 38	wood other than that mentioned in 20 01 37	No
D5	Specially engineered landfill (eg placement into lined discrete cells which are capped and isolated from one another and the environment, etc)	75.1	absolute value	20 01 40	metals	No
D1	Deposit into or onto land (eg landfill, etc.)	131.4	absolute value	20 03 01	mixed municipal waste	No
R7	recovery of components used for pollution abatement	28.7	absolute value	10 06 06	solid wastes from gas treatment	Yes
R9	Oil e-refining or other reuses of oil	8.74	absolute value	12 01 09	machining emulsions and solutions free of halogens	Yes
R4	Recycling/reclamation of metals and metal compounds	8.95	absolute value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R9	Oil e-refining or other reuses of oil	215.62	absolute value	13 08 02	other emulsions	Yes
D1	Deposit into or onto land (eg landfill, etc.)	9.78	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes

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

4.21 Pollution inventory radioactive waste

Records within 500m

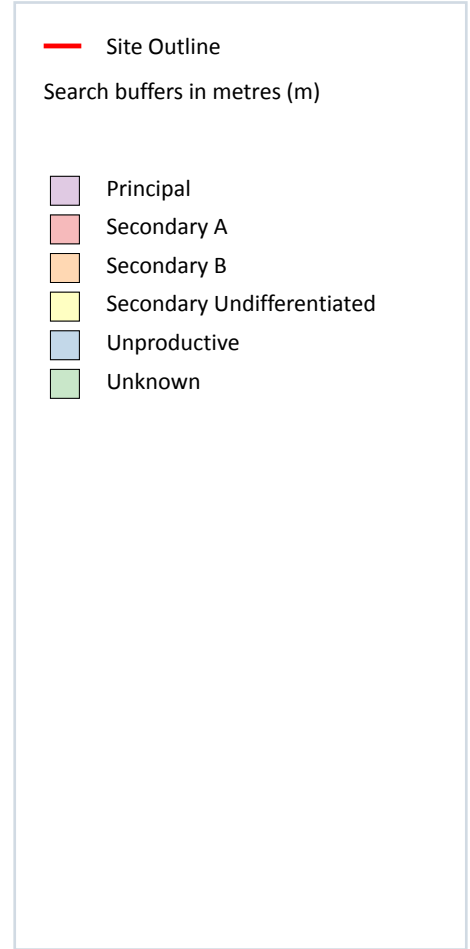
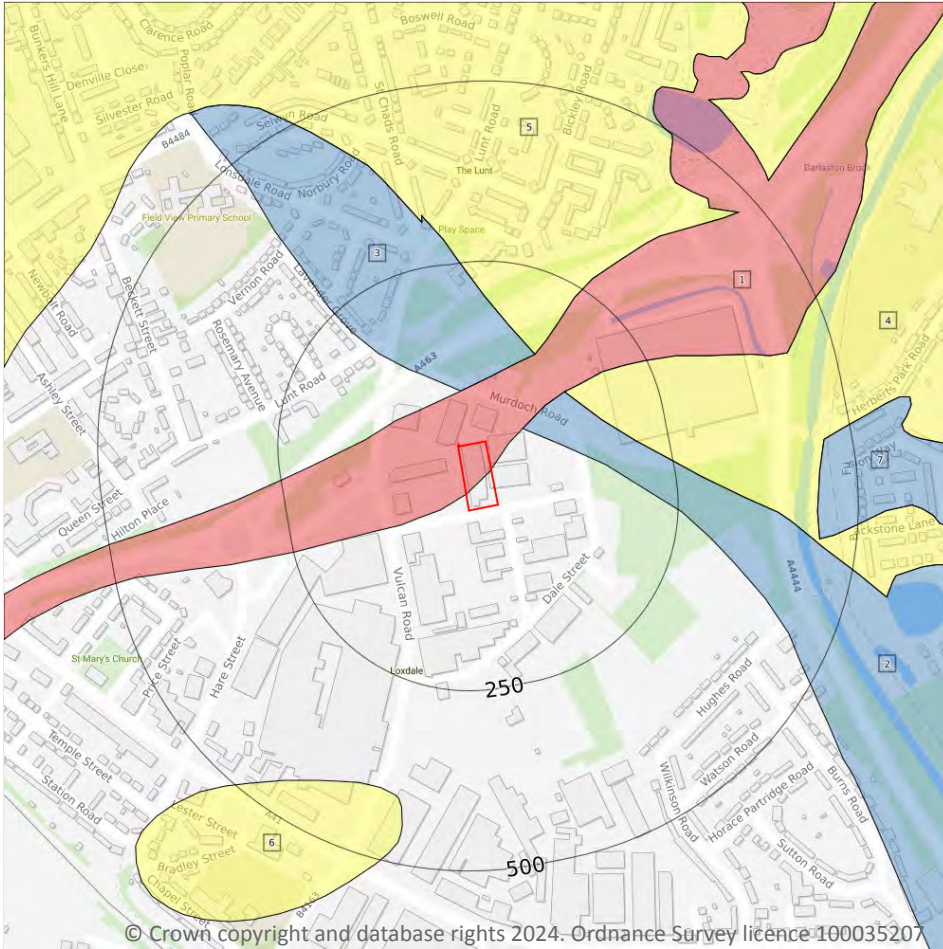
0

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

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



5 Hydrogeology - Superficial aquifer



5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 99 >](#)

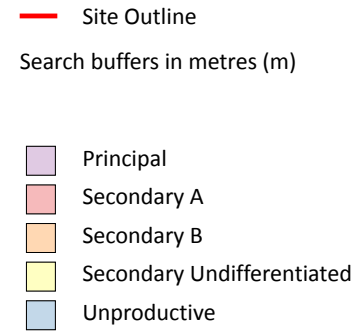
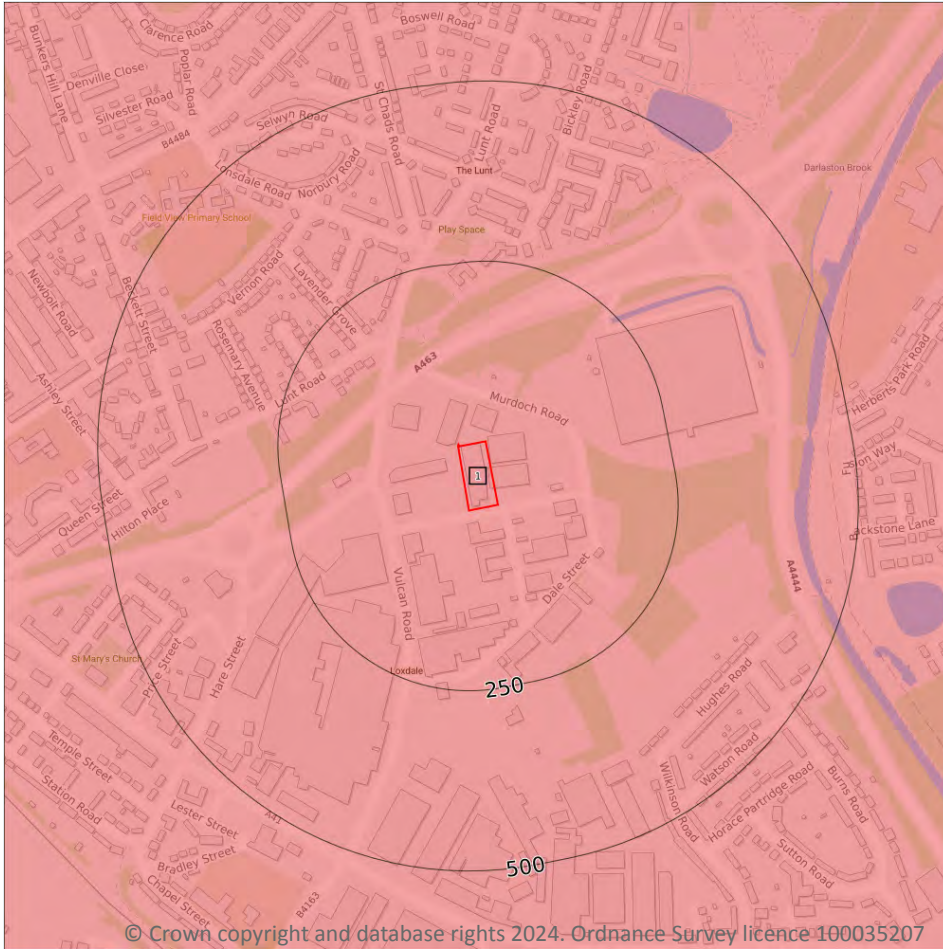
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	54m NE	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

ID	Location	Designation	Description
3	74m N	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
4	129m NE	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
5	139m NE	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
6	403m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	443m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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



Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

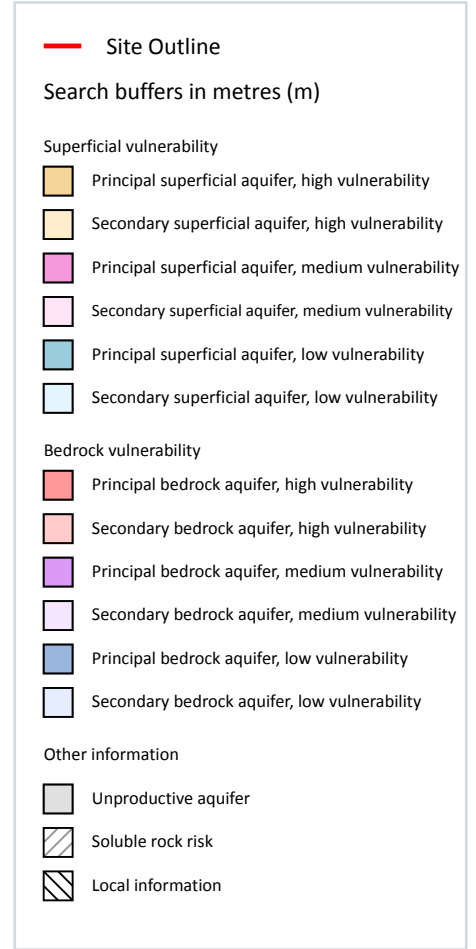
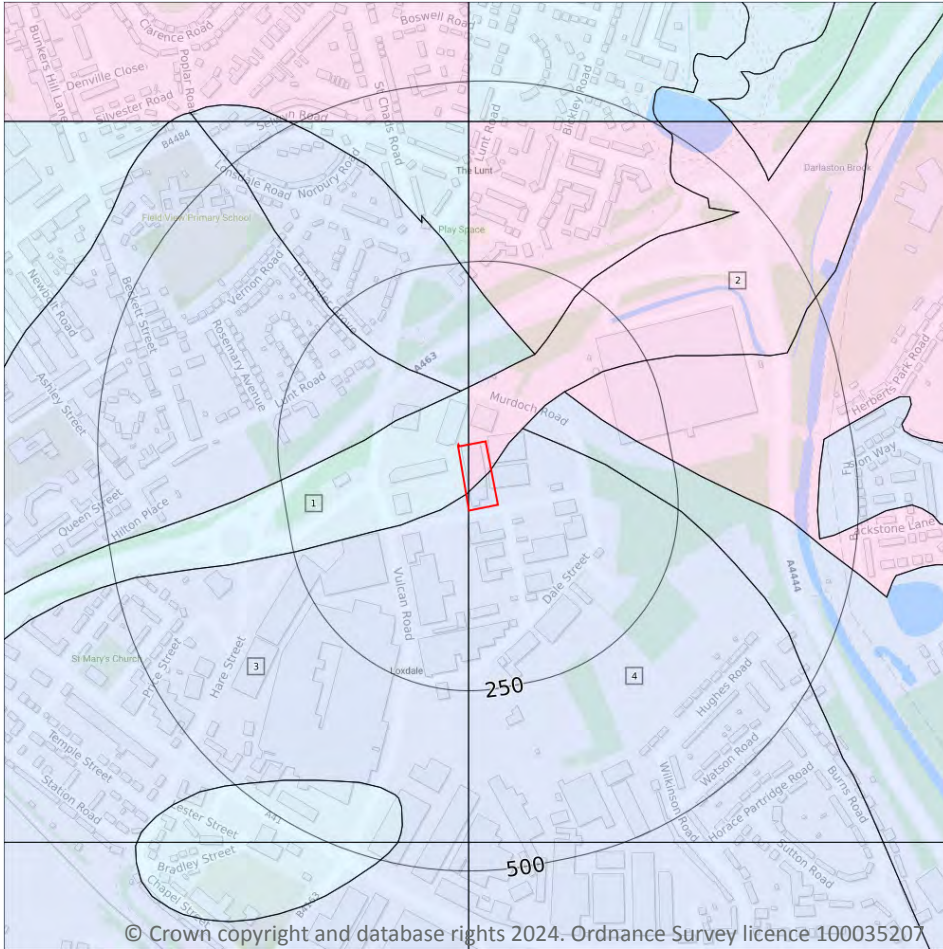
Features are displayed on the Bedrock aquifer map on [page 101 >](#)

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

4

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 102 >](#)



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: Medium Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: <40% Dilution value: 300-550mm/year	Vulnerability: - Aquifer type: - Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low 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



5.6 Groundwater abstractions

Records within 2000m

16

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 105 >](#)



ID	Location	Details	
-	867m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: HERBERT'S PARK SHAFT 2 - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 396700 Northing: 297100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	867m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: HERBERT'S PARK SHAFT 1 - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 396700 Northing: 297100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	882m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E") HERBERT'S PARK SHAFT 2 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396710 Northing: 297110	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	882m NE	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E")HERBERT'S PARK SHAFT 1 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396710 Northing: 297110	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	884m NE	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E")HERBERT'S PARK SHAFT 1 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396714 Northing: 297109	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -



ID	Location	Details	
-	893m NE	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "E") HERBERT'S PARK SHAFT 2 - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 396718 Northing: 297119	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1006m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: HAWKINS SHAFT - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 395700 Northing: 295500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1011m S	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "D") HAWKINS SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395688 Northing: 295498	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1015m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "D") HAWKINS SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395700 Northing: 295490	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	1038m S	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "B") BOAT DOCK SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395647 Northing: 295484	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -



ID	Location	Details	
-	1040m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: BOAT DOCK SHAFT - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 395600 Northing: 295500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1041m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "B") BOAT DOCK SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395650 Northing: 295480	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -
-	1322m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply to a Canal for Throughflow Direct Source: Groundwater Midlands Region Point: BRADLEY SHAFT - CANAL FEEDER Data Type: Point Name: BRITISH WATERWAYS BOARD Easting: 395600 Northing: 295200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 100 Version Start Date: 19/08/1967 Version End Date: -
-	1325m S	Status: Active Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "A") BRADLEY SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395652 Northing: 295181	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32732 Original Application No: NPS/WR/012546 Original Start Date: 19/08/1967 Expiry Date: - Issue No: 103 Version Start Date: 27/03/2014 Version End Date: -
-	1327m S	Status: Historical Licence No: 03/28/08/0140 Details: Supply To A Canal For Throughflow Direct Source: Groundwater Midlands Region Point: (POINT "A") BRADLEY SHAFT - CANAL FEEDER Data Type: Point Name: Canal and River Trust Easting: 395650 Northing: 295180	Annual Volume (m ³): 9092000 Max Daily Volume (m ³): 32731.2 Original Application No: - Original Start Date: 19/08/1967 Expiry Date: - Issue No: 102 Version Start Date: 18/04/2008 Version End Date: -



ID	Location	Details	
-	1729m SW	Status: Historical Licence No: 03/28/08/0193 Details: Non-Evaporative Cooling Direct Source: Groundwater Midlands Region Point: CAPPONFIELD WORKS,BILSTON - MINESHAFT Data Type: Point Name: METABRASIVE LIMITED Easting: 394500 Northing: 295600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/01/1971 Expiry Date: - Issue No: 100 Version Start Date: 07/08/1980 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

1

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 105 >](#)

ID	Location	Details	
-	1294m SE	Status: Historical Licence No: 03/28/08/0063 Details: Non-Evaporative Cooling Direct Source: Surface Water Midlands Region Point: GLYNWED STEEL LTD PREMISES - BIRMINGHAM CANAL Data Type: Point Name: Canal and River Trust Easting: 396900 Northing: 295500	Annual Volume (m ³): 50000 Max Daily Volume (m ³): 137 Original Application No: - Original Start Date: 22/09/1965 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2008 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

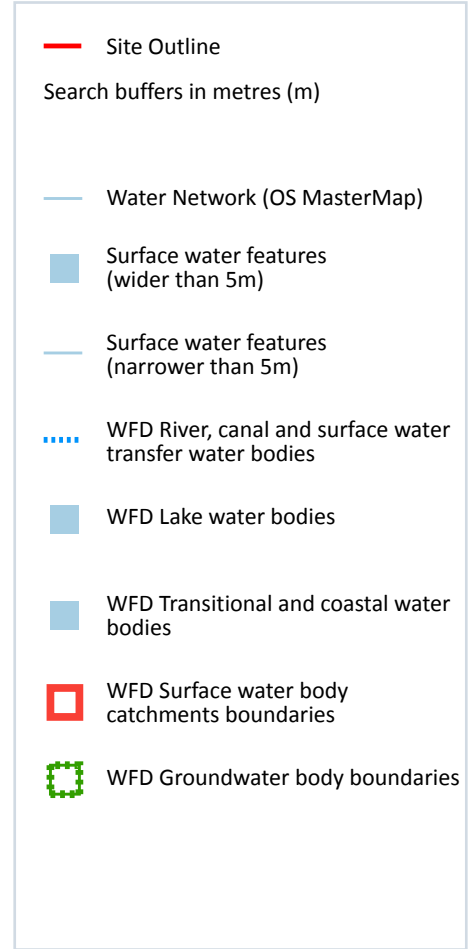
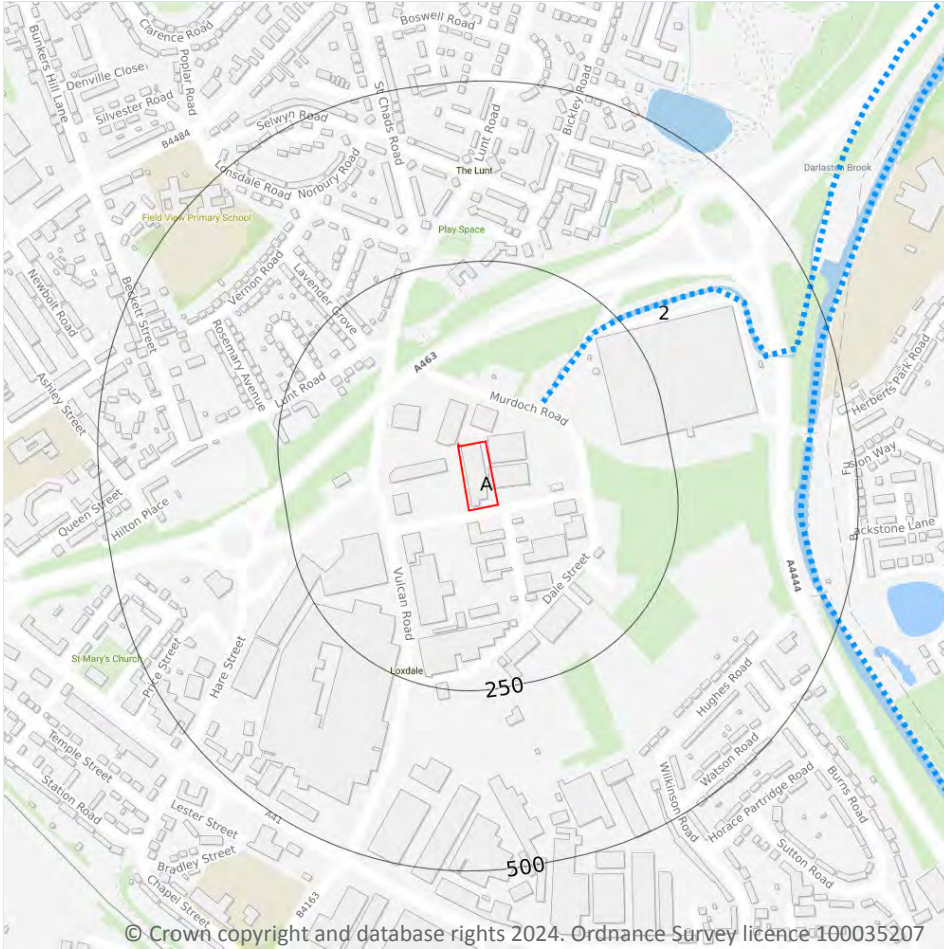
0

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



6.1 Water Network (OS MasterMap)

Records within 250m

1

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

Features are displayed on the Hydrology map on [page 111](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
2	97m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Darlaston Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

1

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 111 >](#)

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on [page 111 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Tame (W/ton Arm) source to conf Oldbury	GB104028046930	Tame Upper Rivers	Tame Anker and Mease

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 111 >](#)



ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	96m NE	River	Tame (W/ton Arm) source to conf Oldbury	GB104028046930 ↗	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.

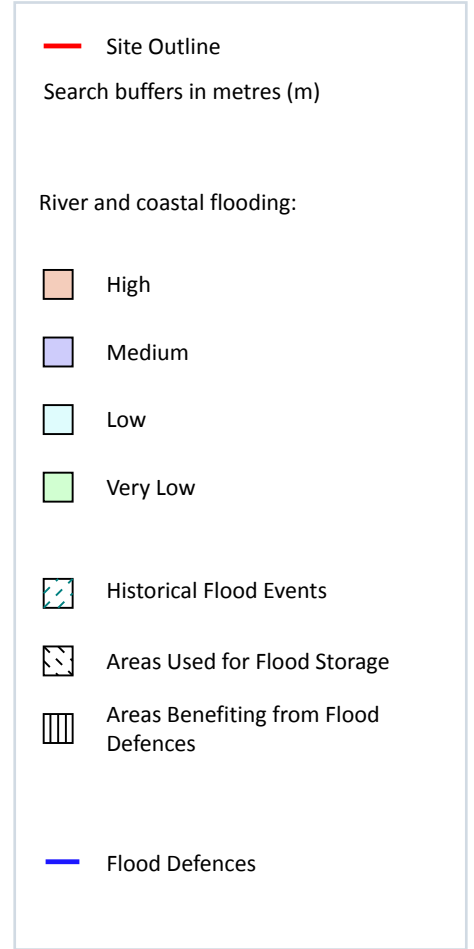
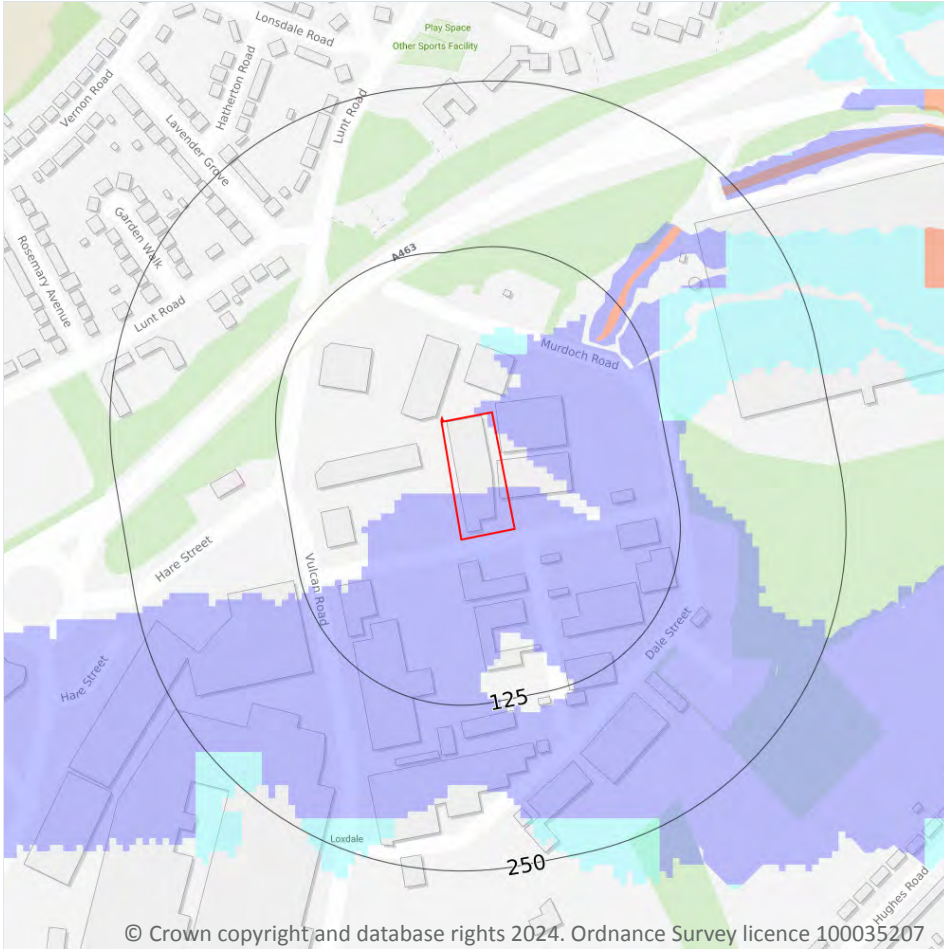
Features are displayed on the Hydrology map on [page 111](#) >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Tame Anker Mease - Coal Measures Black Country	GB40402G992400 ↗	Good	Good	Good	2019

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



7 River and coastal flooding



7.1 Risk of flooding from rivers and the sea

Records within 50m

2

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).

Features are displayed on the River and coastal flooding map on [page 114 >](#)

Distance	Flood risk category
On site	Medium
0 - 50m	Medium

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

7.2 Historical Flood Events

Records within 250m **0**

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

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

7.3 Flood Defences

Records within 250m **0**

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m **0**

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

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

7.5 Flood Storage Areas

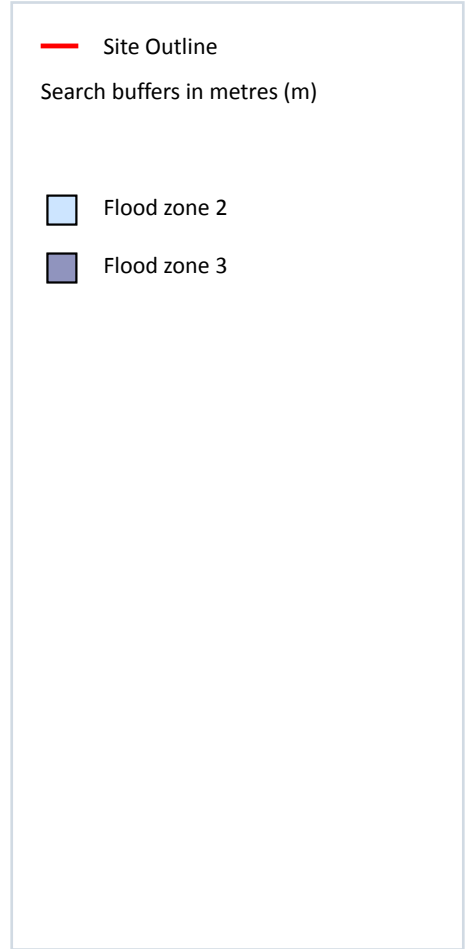
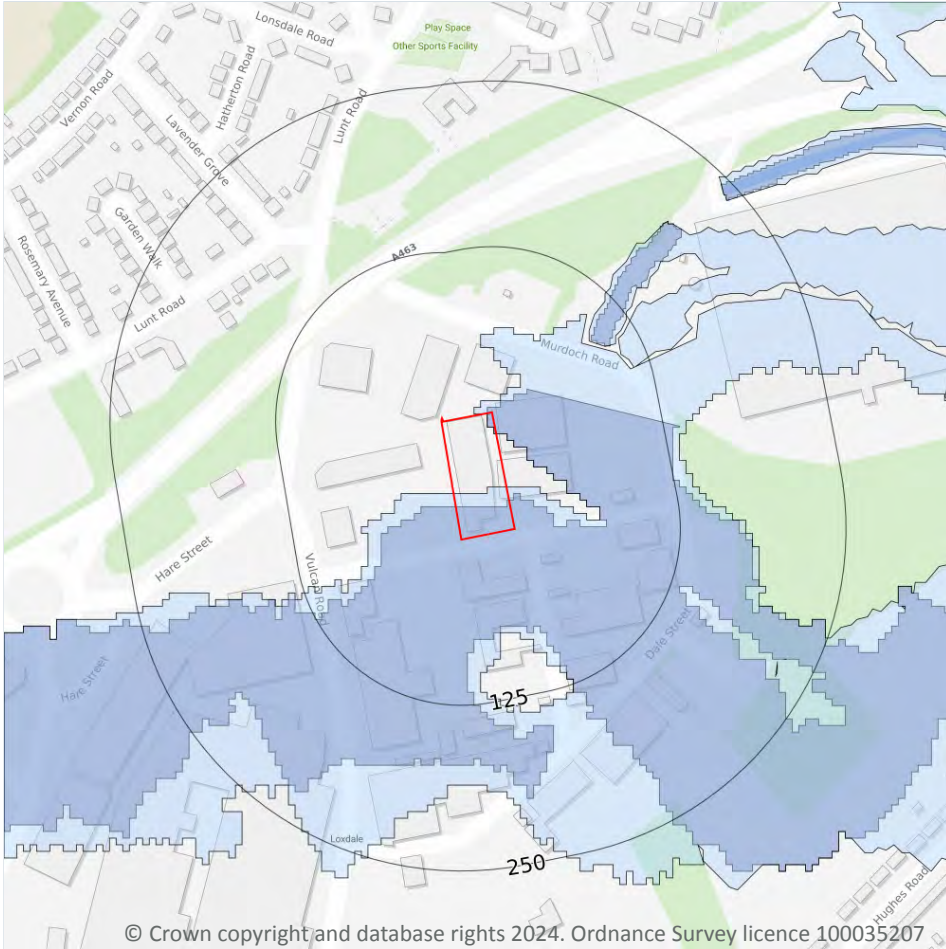
Records within 250m **0**

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

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



River and coastal flooding - Flood Zones



7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on [page 114 >](#)

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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

7.7 Flood Zone 3

Records within 50m

1

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

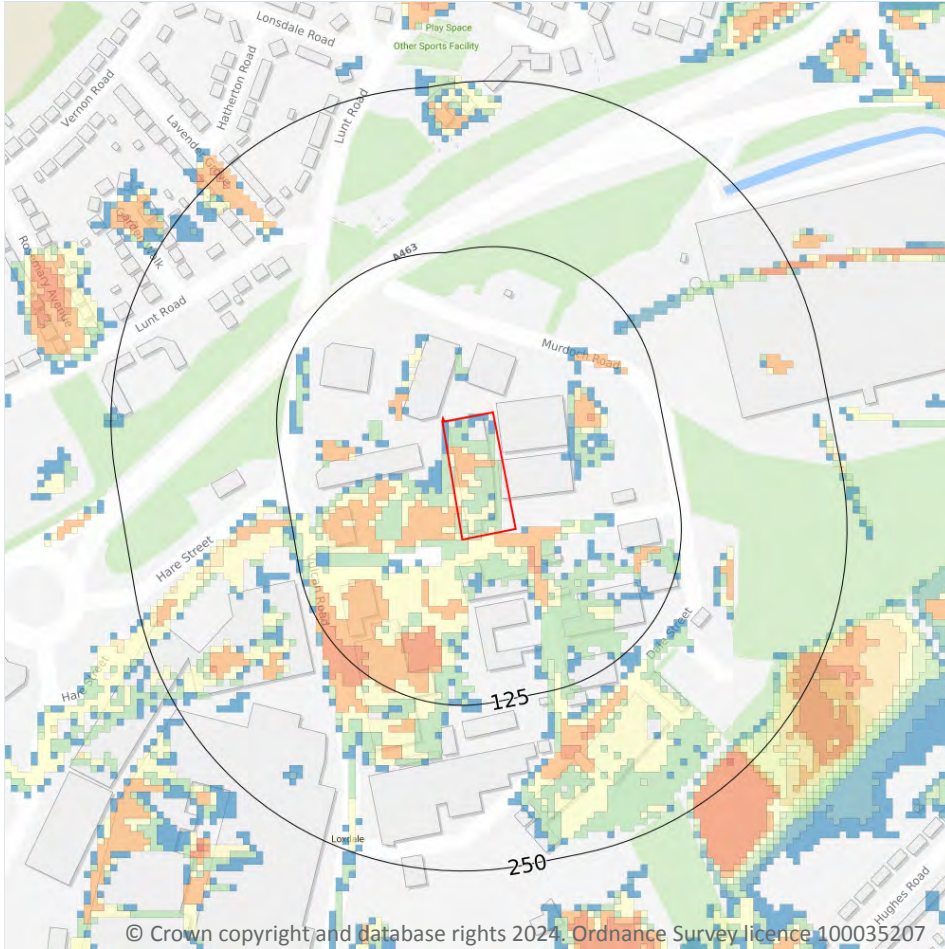
Features are displayed on the River and coastal flooding map on [page 114](#) >

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



8.1 Surface water flooding

Highest risk on site

1 in 30 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 118 >](#)

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.

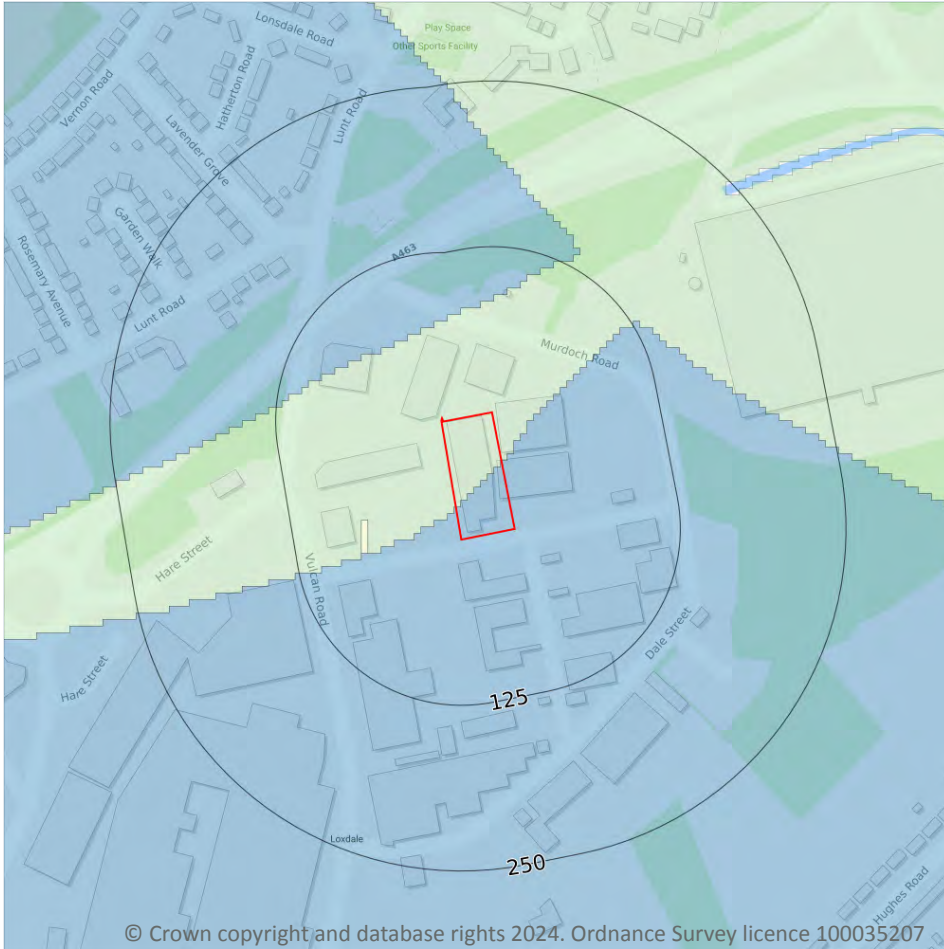
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.1m and 0.3m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

Features are displayed on the Groundwater flooding map on [page 120](#) >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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



10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m

0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m

0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m

0

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

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



10.6 Local Nature Reserves (LNR)

Records within 2000m

2

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 121 >](#)

ID	Location	Name	Data source
1	1322m SE	Moorcroft Wood	Natural England
-	1470m SE	Moorcroft Wood	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

0

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

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

0

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

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.



10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m

4

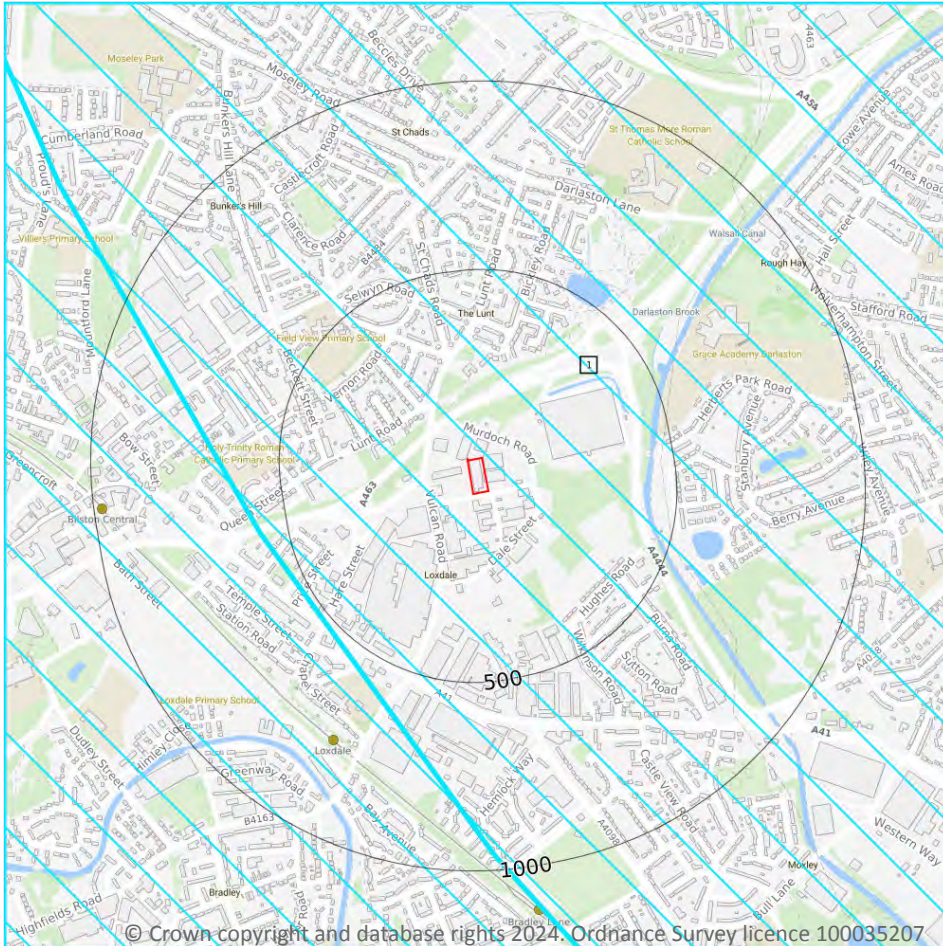
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
On site	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
478m S	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
1893m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing
1967m W	River Trent (source to confluence with Derwent)	Surface Water	308	Existing

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



SSSI Impact Zones and Units



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 126 >](#)

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



This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

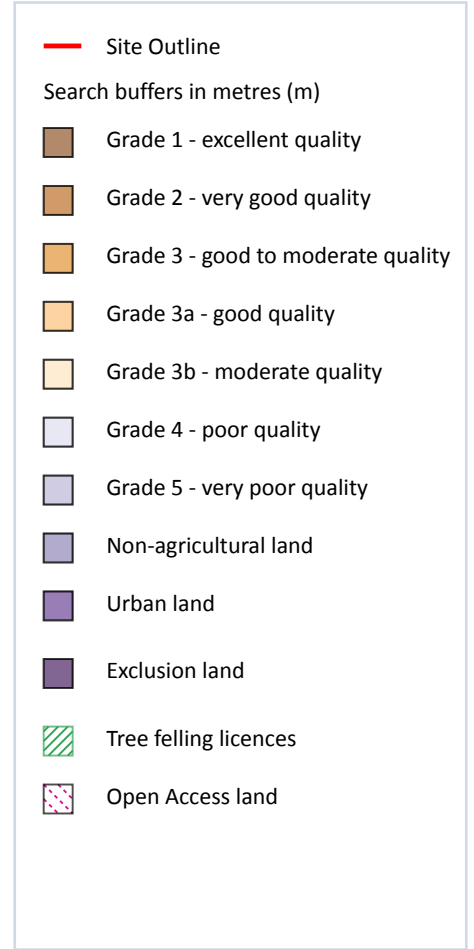
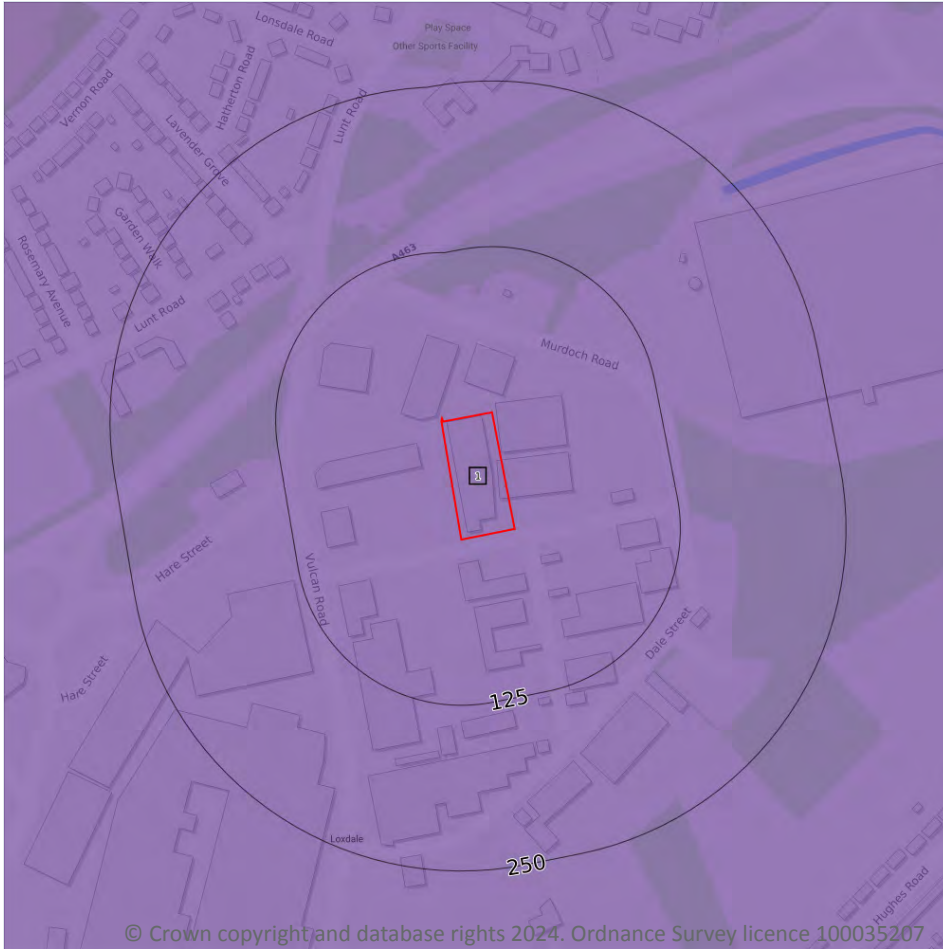
0

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

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



12 Agricultural designations



12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on [page 130](#) >

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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

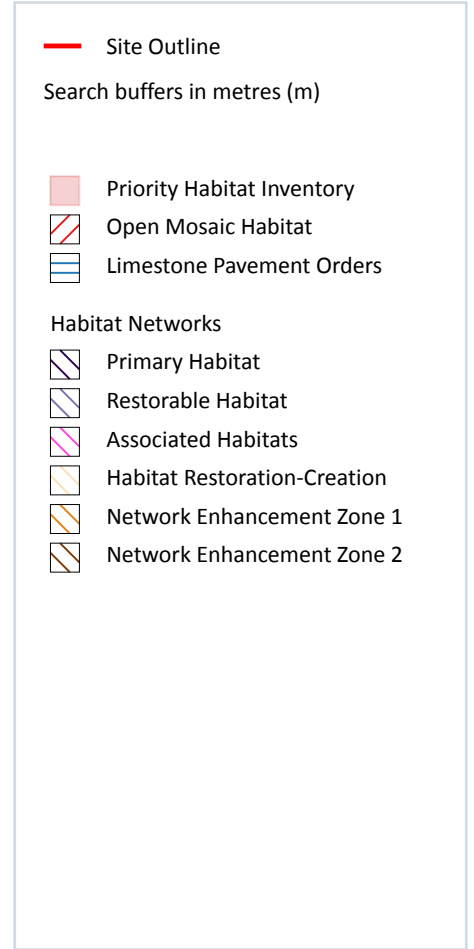
0

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

This data is sourced from Natural England.



13 Habitat designations



13.1 Priority Habitat Inventory

Records within 250m

0

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

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.



13.3 Open Mosaic Habitat

Records within 250m

2

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

Features are displayed on the Habitat designations map on [page 132 >](#)

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	131m E	NLUD Ref: 463500143; HLD ref: EAHLD1823 0, EAHLD2416 3	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	Environment Agency Historic Landfill Sites
2	150m NW	NLUD Ref: 463500522	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

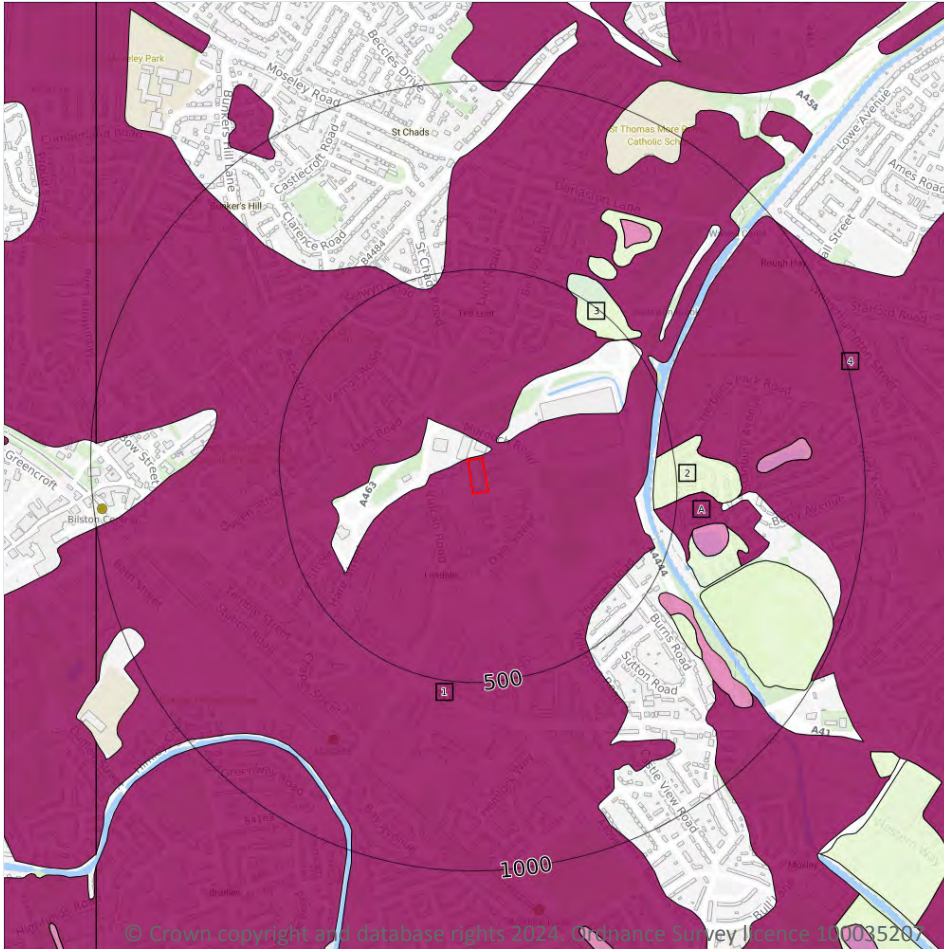
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 134 >](#)

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SO99NE

This data is sourced from the British Geological Survey.



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



— Site Outline

Search buffers in metres (m)

- Reclaimed ground
- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

14.2 Artificial and made ground (10k)

Records within 500m 5

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on [page 135 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	437m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	440m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	442m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

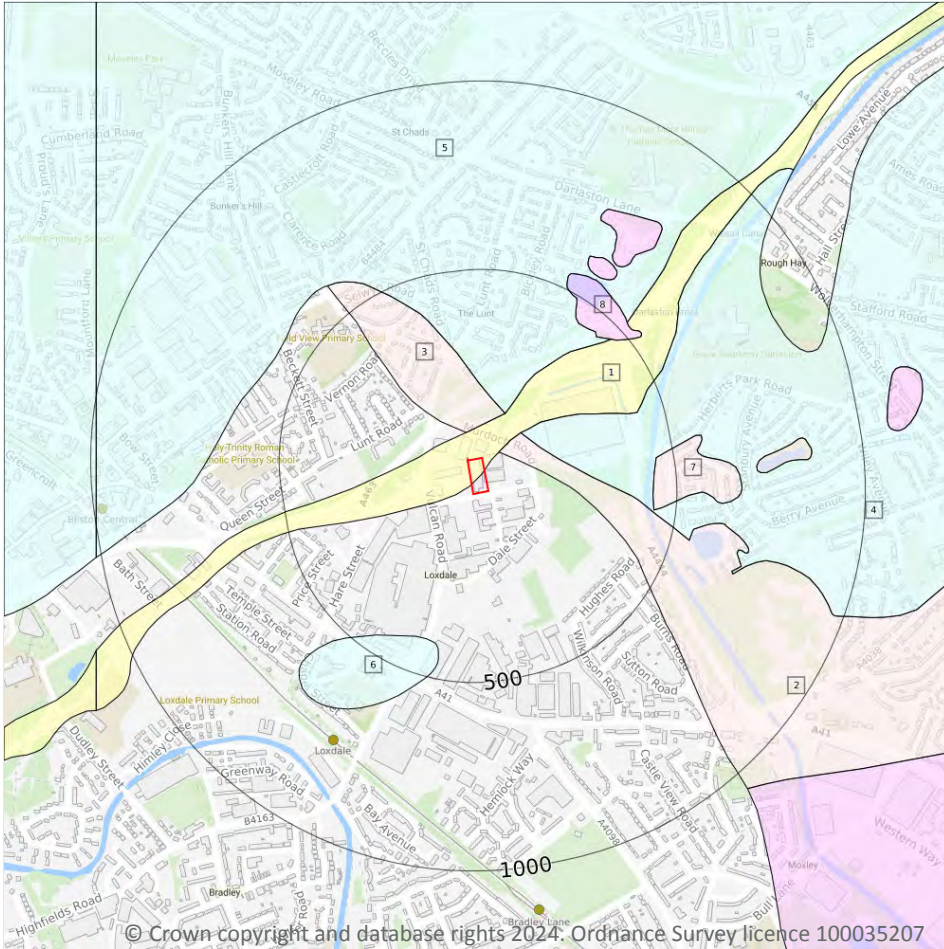


ID	Location	LEX Code	Description	Rock description
4	454m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



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

14.3 Superficial geology (10k)

Records within 500m

8

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 137](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XSV	Alluvium - Sand And Gravel	Sand And Gravel
2	48m NE	GLLD-XCZ	Glaciolacustrine Deposits - Clay And Silt	Clay And Silt
3	72m N	GLLD-XCZ	Glaciolacustrine Deposits - Clay And Silt	Clay And Silt
4	123m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
5	133m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	403m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
7	437m E	GLLD-XCZ	Glaciolacustrine Deposits - Clay And Silt	Clay And Silt
8	440m 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

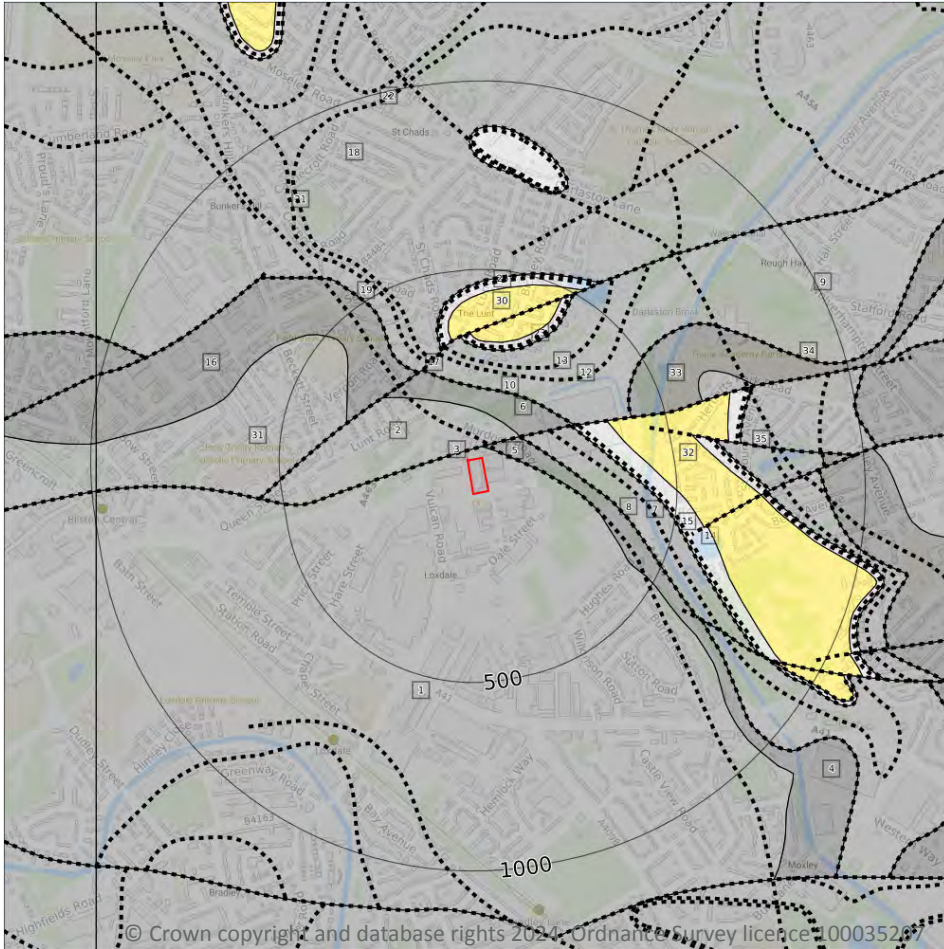
0

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

16

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 139](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
2	24m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
4	29m N	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
6	108m NE	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age
7	115m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
9	183m N	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
14	251m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	264m NW	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age
18	266m NW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
23	288m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	297m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
29	309m N	NMCR-SDST	New Mine Coal Rock - Sandstone	Langsettian Sub-age
30	317m N	NMCR-SDST	New Mine Coal Rock - Sandstone	Langsettian Sub-age
31	336m W	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsoviaian Sub-age - Duckmantian Sub-age
32	345m NE	NMCR-SDST	New Mine Coal Rock - Sandstone	Langsettian Sub-age
33	411m E	THIC-COAL	Thick Coal (south Staffordshire) - Coal	Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

19

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 139](#) >

ID	Location	Category	Description
3	24m NW	FAULT	Normal fault, observed; crossmark on downthrow side
5	38m N	LANDFORM	Buried channel or valley margin
8	115m NE	ROCK	Coal seam, inferred

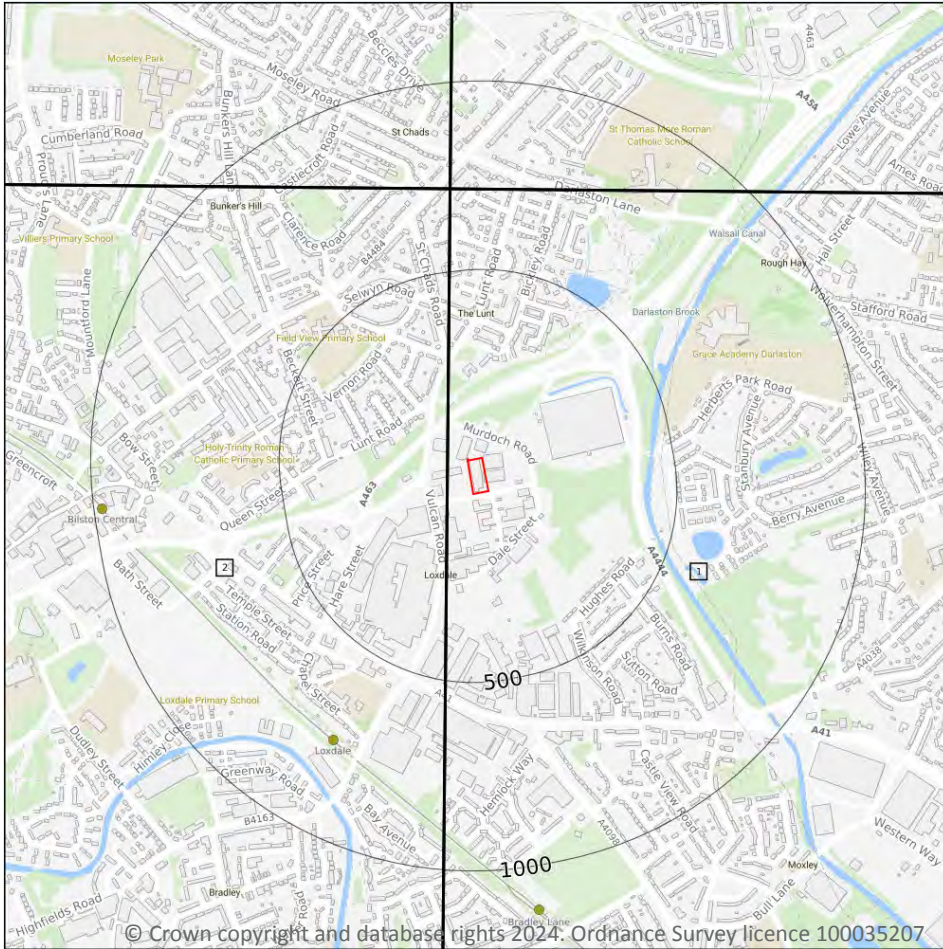


ID	Location	Category	Description
10	183m N	ROCK	Coal seam, inferred
11	194m NE	ROCK	Coal seam, inferred
12	231m N	ROCK	Coal seam, inferred
13	250m N	ROCK	Coal seam, inferred
15	251m NE	FOSSIL_HORIZON	Fossil horizon, marine band
17	264m NW	FAULT	Normal fault, observed; crossmark on downthrow side
19	266m NW	ROCK	Coal seam, inferred
20	269m NE	ROCK	Coal seam, inferred
21	276m N	ROCK	Coal seam, inferred
22	281m N	ROCK	Coal seam, inferred
24	288m N	FOSSIL_HORIZON	Fossil horizon, marine band
25	296m N	ROCK	Coal seam, inferred
27	297m N	FOSSIL_HORIZON	Fossil horizon, marine band
28	305m N	ROCK	Coal seam, inferred
34	411m E	ROCK	Coal seam, inferred
35	452m E	FAULT	Normal fault, inferred; downthrow not specified

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

2

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 142](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW168_birmingham_v4
2	53m NW	Full	Full	Full	Full	EW167_dudley_v4

This data is sourced from the British Geological Survey.



Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Date: 20 March 2024

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



— Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m 4

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 143 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	56m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	443m E	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
4	445m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT



This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

1

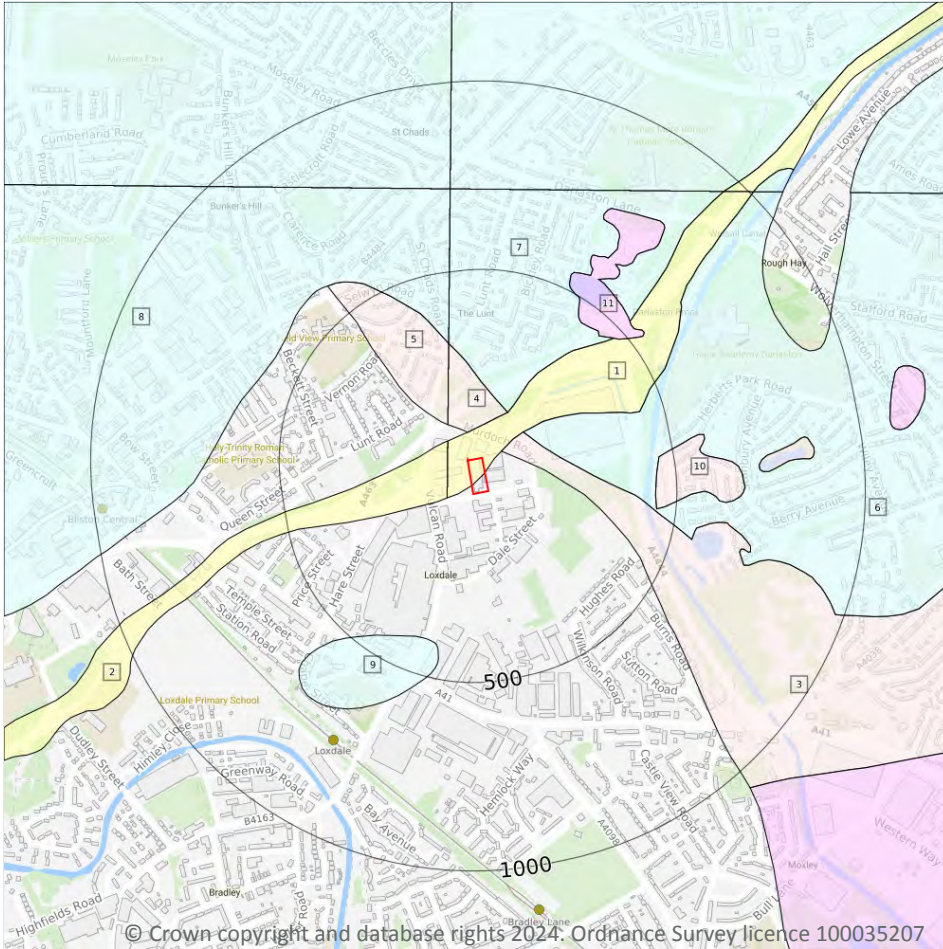
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

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

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

11

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 145 >](#)

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	53m NW	ALV-XSV	ALLUVIUM	SAND AND GRAVEL
3	54m NE	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVANSIAN	CLAY AND SILT
4	73m N	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVANSIAN	CLAY AND SILT



ID	Location	LEX Code	Description	Rock description
5	107m NW	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVENSIAN	CLAY AND SILT
6	129m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
7	139m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
8	313m N	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
9	403m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
10	443m E	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVENSIAN	CLAY AND SILT
11	445m 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	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m

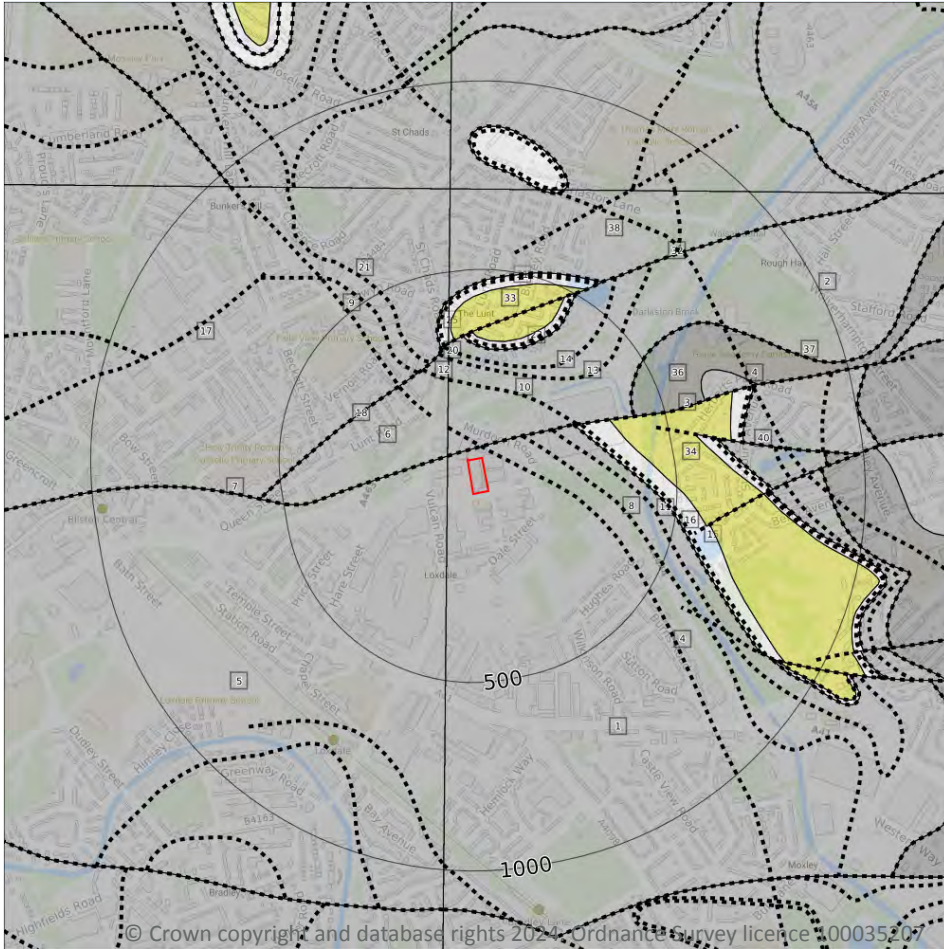
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



- Site Outline
- Search buffers in metres (m)
- Bedrock faults and other linear features (50k)
- Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m

14

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 147](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	24m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
5	53m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	55m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	258m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	264m NW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
23	289m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
25	297m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
30	311m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
31	313m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
33	318m N	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
34	353m NE	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
36	418m E	THIC-COAL	THICK COAL (SOUTH STAFFORDSHIRE) - COAL	WESTPHALIAN
38	426m N	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

1

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

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

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

26

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 147](#) >

ID	Location	Category	Description
3	24m NW	FAULT	Fault, inferred
4	26m N	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
7	55m NW	FAULT	Fault, inferred
8	122m NE	ROCK	Coal seam, inferred
9	140m NW	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
10	186m N	ROCK	Coal seam, inferred
11	201m NE	ROCK	Coal seam, inferred
12	218m N	ROCK	Coal seam, inferred
13	235m N	ROCK	Coal seam, inferred
14	254m N	ROCK	Coal seam, inferred
16	258m NE	FOSSIL_HORIZON	Marine band
18	264m NW	FAULT	Fault, inferred
19	265m NW	ROCK	Coal seam, inferred
20	273m N	ROCK	Coal seam, inferred
21	276m N	ROCK	Coal seam, inferred
22	276m NE	ROCK	Coal seam, inferred
24	289m N	FOSSIL_HORIZON	Marine band
26	297m N	FOSSIL_HORIZON	Marine band
27	297m N	ROCK	Coal seam, inferred
28	299m N	ROCK	Coal seam, inferred
29	305m N	ROCK	Coal seam, inferred
32	313m N	FAULT	Fault, inferred
35	415m N	ROCK	Coal seam, inferred

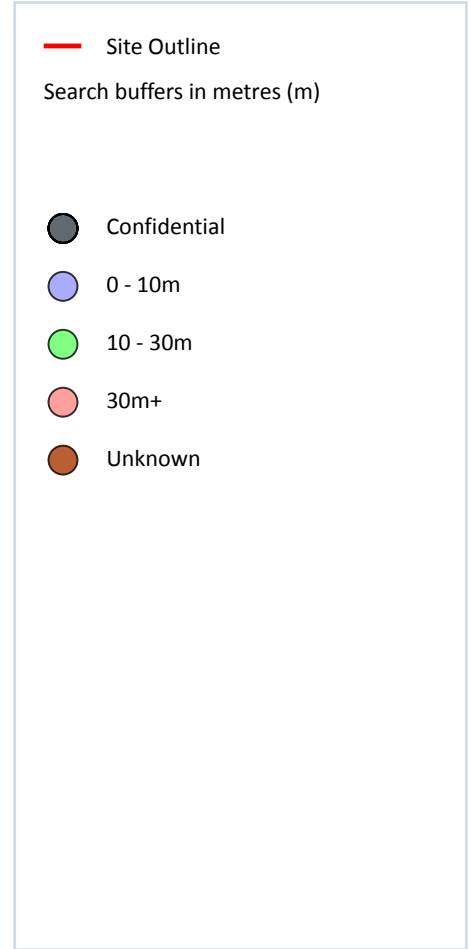
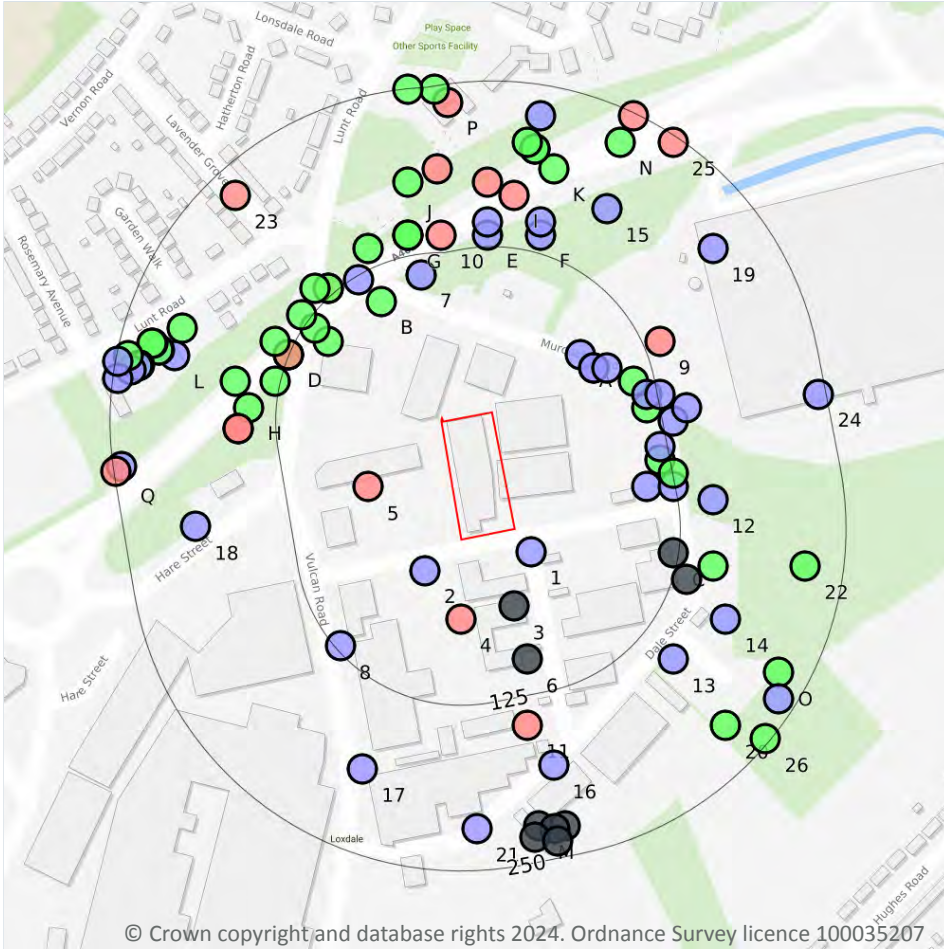


ID	Location	Category	Description
37	418m E	ROCK	Coal seam, inferred
39	426m N	FOSSIL_HORIZON	Marine band
40	459m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



16.1 BGS Boreholes

Records within 250m

103

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 151](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	21m SE	396053 296451	VULCAN ROAD DALE STREET FWS BILSTON 7	7.15	N	287477 ↗
2	36m SW	395973 296437	VULCAN ROAD DALE STREET FWS BILSTON 8	5.05	N	287478 ↗
3	57m S	396040 296410	DALE ST, LOXDAL, BILSTON	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	60m S	396000 296400	BELDAM PACKING & RUBBER CO.	77.72	N	285061 ↗
5	63m W	395930 296500	S S MINE DRAINAGE COMMISSION 54/2	47.0	N	285566 ↗
A	80m NE	396090 296600	BLACK COUNTRY ROUTE - MURDOCH ROAD TP8	4.0	N	17602690 ↗
A	84m NE	396100 296590	BLACK COUNTRY ROUTE - MURDOCH ROAD 1	9.95	N	17602678 ↗
A	84m NE	396100 296590	BLACK COUNTRY ROUTE - MURDOCH ROAD TP7	4.2	N	17602689 ↗
A	93m NE	396110 296590	BLACK COUNTRY ROUTE - MURDOCH ROAD TP9	3.0	N	17602691 ↗
6	98m S	396050 296370	DALE ST, LOXDALE, BILSTON	-	Y	N/A
B	100m NW	395940 296640	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V1	16.0	N	17602669 ↗
A	104m E	396140 296500	BLACK COUNTRY ROUTE - MURDOCH ROAD TP2	2.4	N	17602684 ↗
B	104m NW	395900 296610	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V2	16.0	N	17602670 ↗
A	109m NE	396130 296580	BLACK COUNTRY ROUTE - MURDOCH ROAD 2	10.1	N	17602679 ↗
7	110m N	395970 296660	BLACK COUNTRY ROUTE - LUNT GROUND TREATMENT GT1	9.5	N	17602697 ↗
A	115m E	396140 296560	BLACK COUNTRY ROUTE - MURDOCH ROAD 5	12.0	N	17602682 ↗
A	117m NE	396140 296570	BLACK COUNTRY ROUTE - MURDOCH ROAD TP6	4.3	N	17602688 ↗
A	117m E	396150 296520	LUNT SEWAGE WORKS C2	11.5	N	287343 ↗
B	118m NW	395890 296620	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA1	16.5	N	17602717 ↗
A	119m E	396150 296530	BLACK COUNTRY ROUTE - MURDOCH ROAD 4	8.0	N	17602681 ↗
C	121m E	396160 296450	DALE STREET BILSTON 2	-	Y	N/A
8	122m SW	395909 296380	VULCAN ROAD DALE STREET FWS BILSTON 2	6.0	N	287472 ↗
B	122m NW	395923 296656	BLACK COUNTRY ROUTE BCR106A	10.0	N	17602780 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
A	123m E	396160 296500	BLACK COUNTRY ROUTE - MURDOCH ROAD TP1	3.1	N	17602683 ↗
A	125m E	396160 296510	BLACK COUNTRY ROUTE - MURDOCH ROAD 3	10.45	N	17602680 ↗
D	126m NW	395870 296600	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA3A	16.5	N	17602719 ↗
D	126m NW	395870 296600	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA2	16.5	N	17602718 ↗
D	126m NW	395870 296600	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE R26	60.0	N	17602662 ↗
A	127m NE	396150 296570	BLACK COUNTRY ROUTE - MURDOCH ROAD TP5	2.4	N	17602687 ↗
D	129m NW	395860 296580	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V3	18.0	N	17602671 ↗
B	131m NW	395900 296650	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE B107	48.0	N	17602797 ↗
B	131m NW	395900 296650	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V5	16.0	N	17602673 ↗
B	132m NW	395880 296630	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA4	16.5	N	17602720 ↗
A	133m E	396160 296550	BLACK COUNTRY ROUTE - MURDOCH ROAD TP4	1.3	N	17602686 ↗
E	134m N	396020 296690	BLACK COUNTRY ROUTE - LUNT GROUND TREATMENT GT2	8.5	N	17602699 ↗
C	135m SE	396170 296430	DALE STREET BILSTON 1	-	Y	N/A
B	137m NW	395890 296650	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE BSA5	17.5	N	17602721 ↗
9	137m NE	396150 296610	BARNES MEADOW 1	100.0	N	286029 ↗
10	138m N	395985 296690	LUNT COLLIERY ENGINE PIT	92.35	N	285537 ↗
D	139m NW	395860 296610	BLACK COUNTRY ROUTE - VULCAN ROAD BRIDGE V4	11.5	N	17602672 ↗
F	139m N	396060 296690	BLACK COUNTRY ROUTE - LUNT GROUND TREATMENT GT3B	2.6	N	17602702 ↗
B	140m NW	395930 296680	BLACK COUNTRY ROUTE - LUNT INTERCEPTOR TANK IT1	16.8	N	17602715 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
G	141m N	395960 296690	BLACK COUNTRY ROUTE 425A	14.0	N	17602816 ↗
G	141m N	395960 296690	BLACK COUNTRY ROUTE - LUNT INTERCEPTOR TANK IT2	16.0	N	17602716 ↗
E	144m N	396020 296700	LUNT SEWAGE WORKS C4	10.0	N	287345 ↗
A	145m E	396170 296560	BLACK COUNTRY ROUTE - MURDOCH ROAD TP10	3.6	N	17602692 ↗
H	146m W	395840 296560	BLACK COUNTRY ROUTE 424C	12.5	N	17602815 ↗
11	147m S	396050 296320	WALLBUB COLLIERY NO.7 PIT	124.36	N	285055 ↗
F	148m N	396060 296700	BLACK COUNTRY ROUTE - LUNT GROUND TREATMENT GT3	2.6	N	17602701 ↗
12	151m E	396190 296490	BLACK COUNTRY ROUTE - MURDOCH ROAD TP3	0.4	N	17602685 ↗
C	152m E	396190 296440	DALE ST, BILSTON 1	11.5	N	285814 ↗
H	154m W	395832 296544	BILSTON BLACK COUNTRY RD 107	48.0	N	287362 ↗
H	154m W	395832 296544	BLACK COUNTRY ROUTE - BILSTON B106	47.14	N	17602795 ↗
13	155m SE	396160 296370	DALE ST, BILSTON 2	1.0	N	285815 ↗
H	158m W	395830 296580	BLACK COUNTRY ROUTE 424A	14.5	N	17602813 ↗
I	165m N	396040 296720	BLACK COUNTRY ROUTE - LUNT BCSR R20	60.0	N	17602658 ↗
14	173m SE	396200 296400	LUNT SEWAGE WORKS C1	9.3	N	287342 ↗
I	174m N	396020 296730	LUNT COLLIERY, SS MD 55/1	88.4	N	285538 ↗
15	176m NE	396110 296710	BLACK COUNTRY ROUTE - LUNT BCSR 3	2.0	N	17602724 ↗
J	180m N	395960 296730	BLACK COUNTRY ROUTE BCR107A	13.45	N	17602781 ↗
16	181m S	396070 296290	VULCAN ROAD DALE STREET FWS BILSTON 6	3.0	N	287476 ↗
J	188m N	395982 296740	BILSTON BLACK COUNTRY RD B108	59.0	N	287363 ↗
17	189m S	395926 296287	VULCAN ROAD DALE STREET FWS BILSTON 3	5.55	N	287473 ↗
K	190m N	396070 296740	BLACK COUNTRY ROUTE - LUNT BCSR 2	30.0	N	17602723 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
18	196m W	395800 296470	BLACK COUNTRY ROUTE - HARE STREET ROUNDABOUT HS3	6.5	N	17602695 ↗
K	201m N	396056 296755	BLACK COUNTRY ROUTE BCR108	11.95	N	17602782 ↗
K	201m N	396056 296755	BLACK COUNTRY ROUTE BCR108A	23.0	N	17602783 ↗
K	206m N	396050 296760	BLACK COUNTRY ROUTE - LUNT BCSR 1	30.0	N	17602722 ↗
L	207m W	395784 296599	25-35 LUNT ROAD BILSTON 5	6.45	N	15534685 ↗
19	207m NE	396190 296680	LUNT SEWAGE WORKS C5	10.0	N	287346 ↗
L	207m NW	395790 296620	BLACK COUNTRY ROUTE 424B	10.5	N	17602814 ↗
20	218m SE	396200 296320	DALE ST, BILSTON 3	11.0	N	285816 ↗
21	219m S	396012 296242	VULCAN ROAD DALE STREET FWS BILSTON 5	6.5	N	287475 ↗
L	219m W	395773 296603	25-35 LUNT ROAD BILSTON 7	8.95	N	15534688 ↗
L	220m W	395772 296603	25-35 LUNT ROAD BILSTON RH 1	29.0	N	15534667 ↗
22	221m E	396260 296440	SHAFTS FROM MR HENSONS STANDARD	17.5	N	285802 ↗
M	224m S	396059 296244	DALE STREET BILSTON T3	-	Y	N/A
L	225m W	395768 296608	25-35 LUNT ROAD BILSTON 6	10.45	N	15534686 ↗
N	226m NE	396120 296760	BLACK COUNTRY ROUTE - LUNT BCSR 4	30.0	N	17602725 ↗
L	226m W	395767 296608	25-35 LUNT ROAD BILSTON RH 2	29.0	N	15534669 ↗
K	227m N	396060 296780	WILLENHALL SEWERAGE 1	2.74	N	284779 ↗
O	227m SE	396240 296360	DALE ST, BILSTON 4	11.0	N	285817 ↗
M	227m S	396079 296244	DALE STREET BILSTON T5	-	Y	N/A
M	228m S	396071 296242	DALE STREET BILSTON T2	-	Y	N/A
23	229m NW	395830 296720	LUNT COLLIERY, A SHAFT	67.06	N	285536 ↗
M	231m S	396056 296236	DALE STREET BILSTON T4	-	Y	N/A

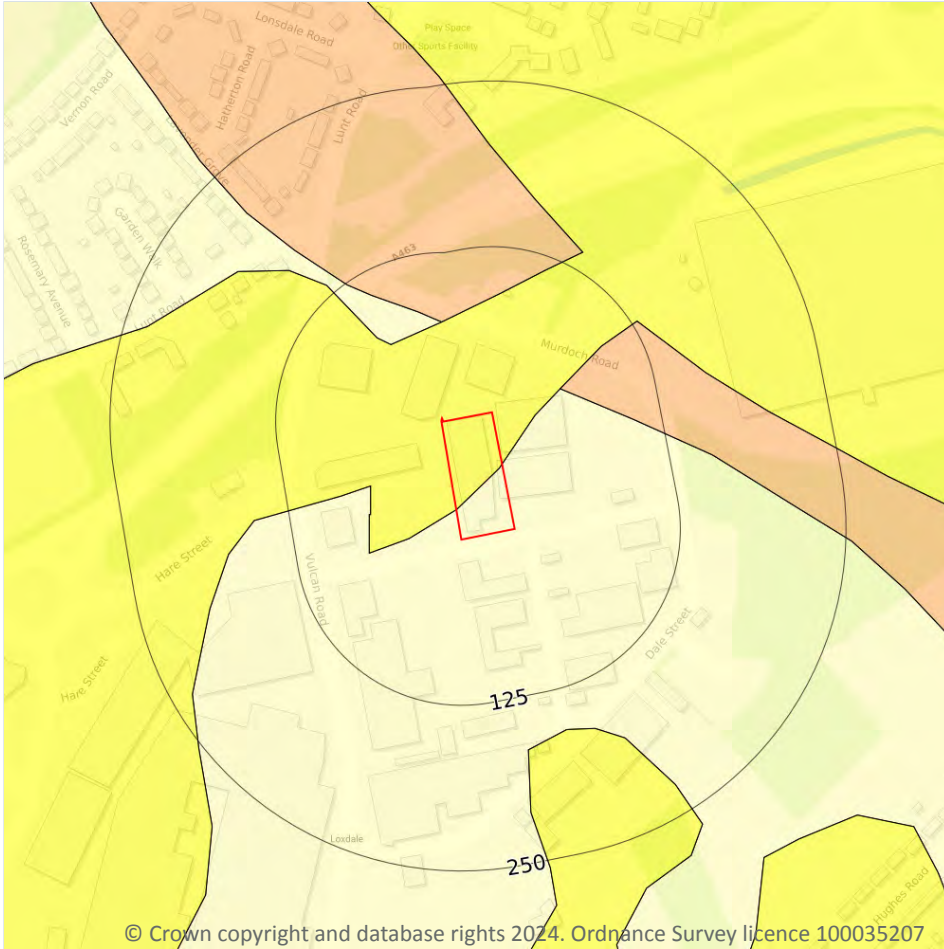


ID	Location	Grid reference	Name	Length	Confidential	Web link
L	231m W	395758 296592	25-35 LUNT ROAD BILSTON RH 4	19.8	N	15534673 ↗
L	233m W	395756 296591	25-35 LUNT ROAD BILSTON 8	4.5	N	15534690 ↗
P	236m N	395990 296790	LUNT ROAD BH6	36.0	N	287324 ↗
M	237m S	396073 296233	DALE STREET BILSTON T1	-	Y	N/A
O	237m SE	396240 296340	BILSTON LINK ROAD 65	3.04	N	284843 ↗
L	238m W	395751 296588	25-35 LUNT ROAD BILSTON 9	4.2	N	15534691 ↗
L	241m W	395749 296599	25-35 LUNT ROAD BILSTON RH 3	29.0	N	15534671 ↗
Q	244m W	395744 296515	BLACK COUNTRY ROUTE BCR106	9.05	N	17602779 ↗
24	245m E	396270 296570	LUNT SEWAGE WORKS C3	10.0	N	287344 ↗
25	245m NE	396160 296760	BLACK COUNTRY ROUTE - LUNT BCSR R23	60.0	N	17602659 ↗
L	247m W	395741 296582	25-35 LUNT ROAD BILSTON 10	4.0	N	15534692 ↗
26	247m SE	396230 296310	BILSTON LINK ROAD C.21, WILLENHALL	21.33	N	284999 ↗
P	248m N	395980 296800	LUNT ROAD BH5	28.0	N	287323 ↗
N	248m NE	396130 296780	BLACK COUNTRY ROUTE - LUNT BCSR 9	31.3	N	17602730 ↗
Q	248m W	395740 296512	BLACK COUNTRY ROUTE - BILSTON B105	45.11	N	17602794 ↗
L	249m W	395741 296595	25-35 LUNT ROAD BILSTON 4	8.95	N	15534683 ↗
P	250m N	395960 296800	LUNT ROAD BH4	28.0	N	287322 ↗

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



— Site Outline

Search buffers in metres (m)

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

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17.1 Shrink swell clays

Records within 50m

2

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).

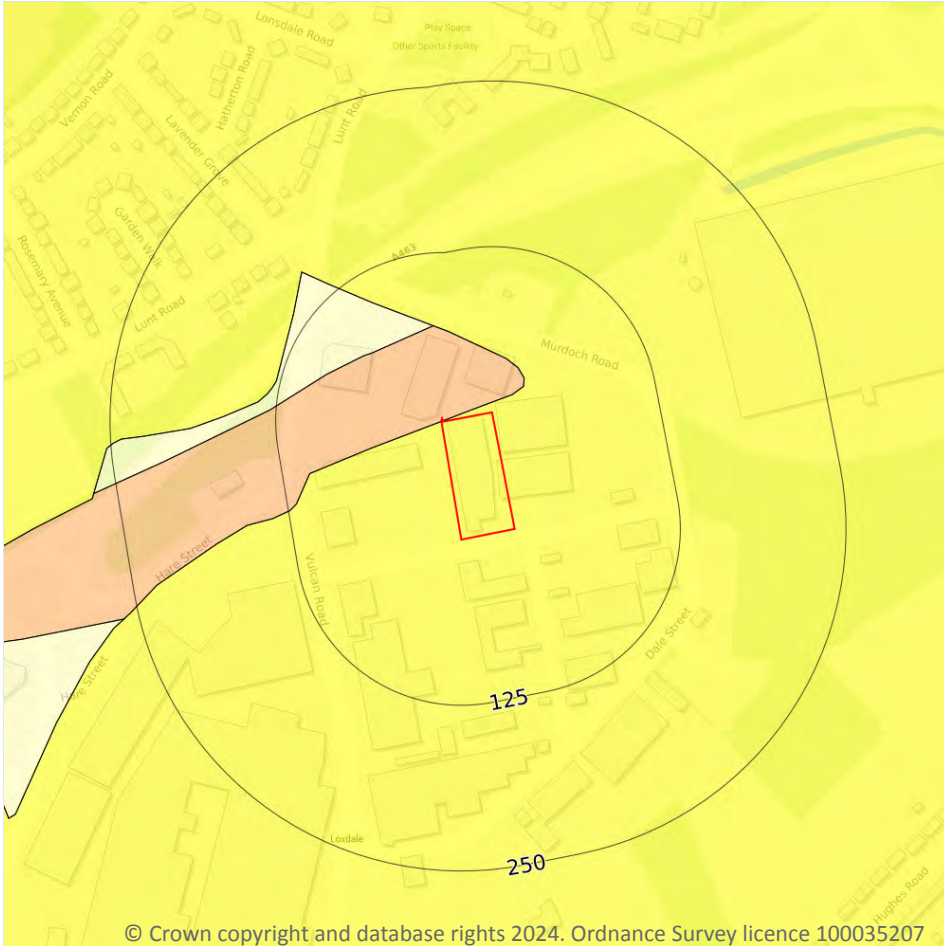
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 157 >](#)

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



— Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m

2

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 158 >](#)

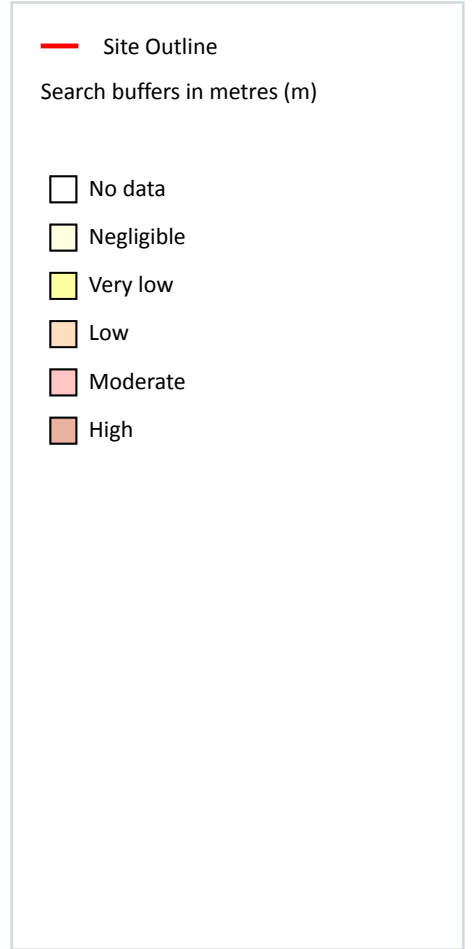
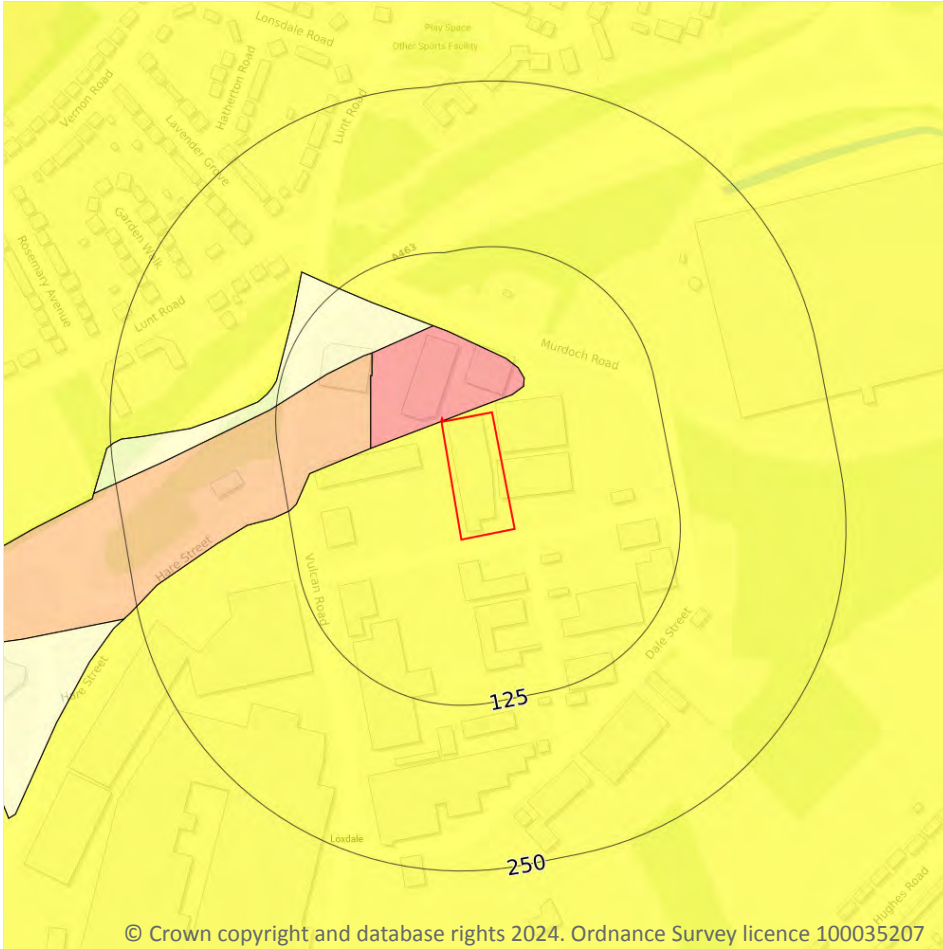
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

Location	Hazard rating	Details
On site	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



17.3 Compressible deposits

Records within 50m

2

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 160 >](#)

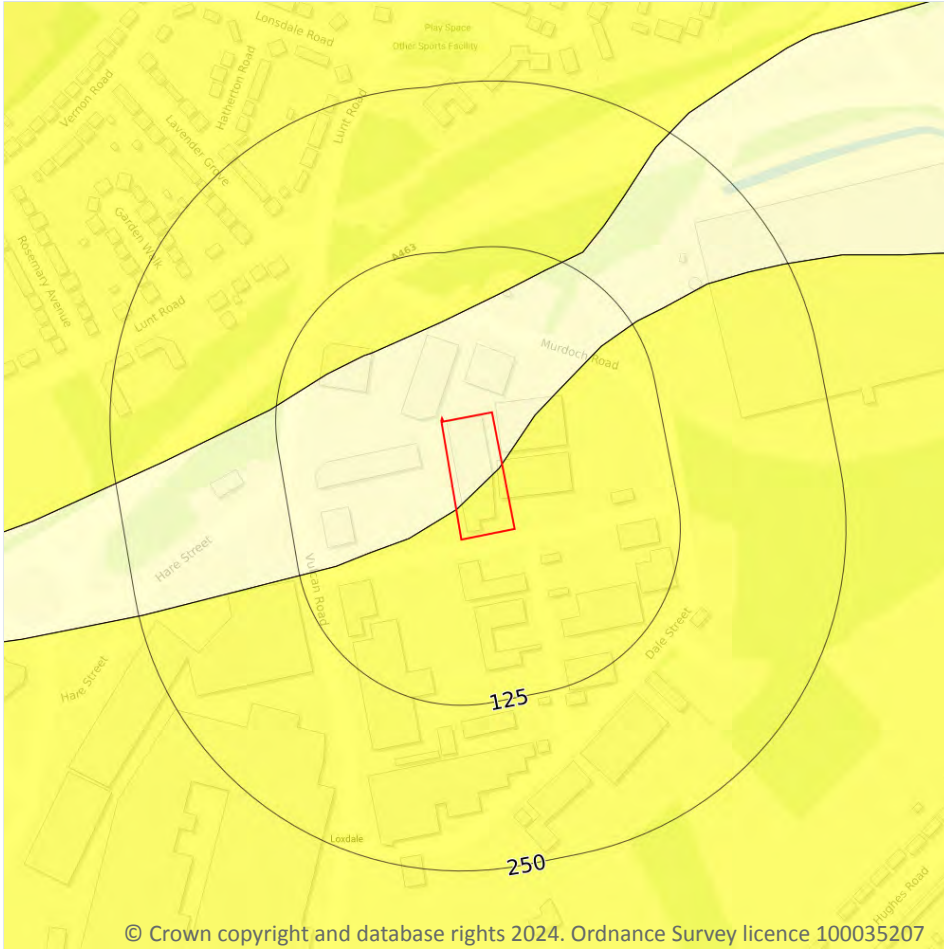
Location	Hazard rating	Details
On site	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

Location	Hazard rating	Details
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

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

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17.4 Collapsible deposits

Records within 50m

2

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.

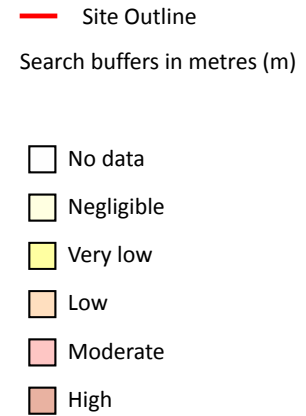
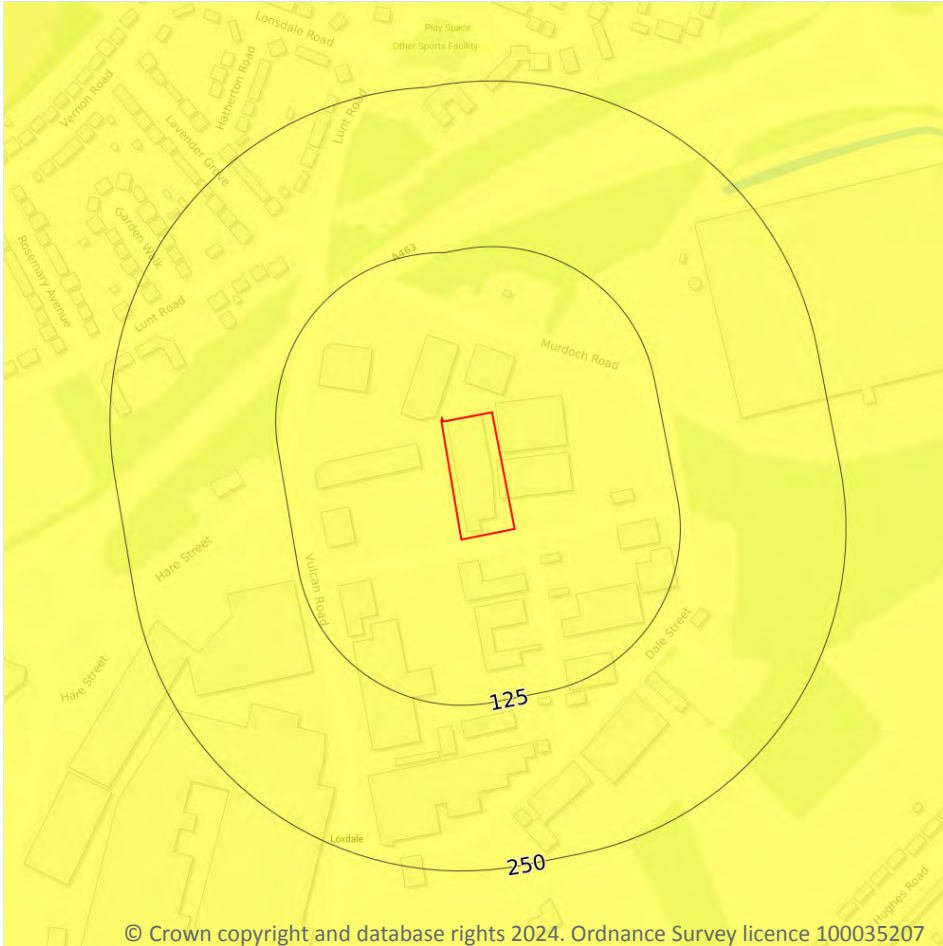
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 162 >](#)

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
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



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.

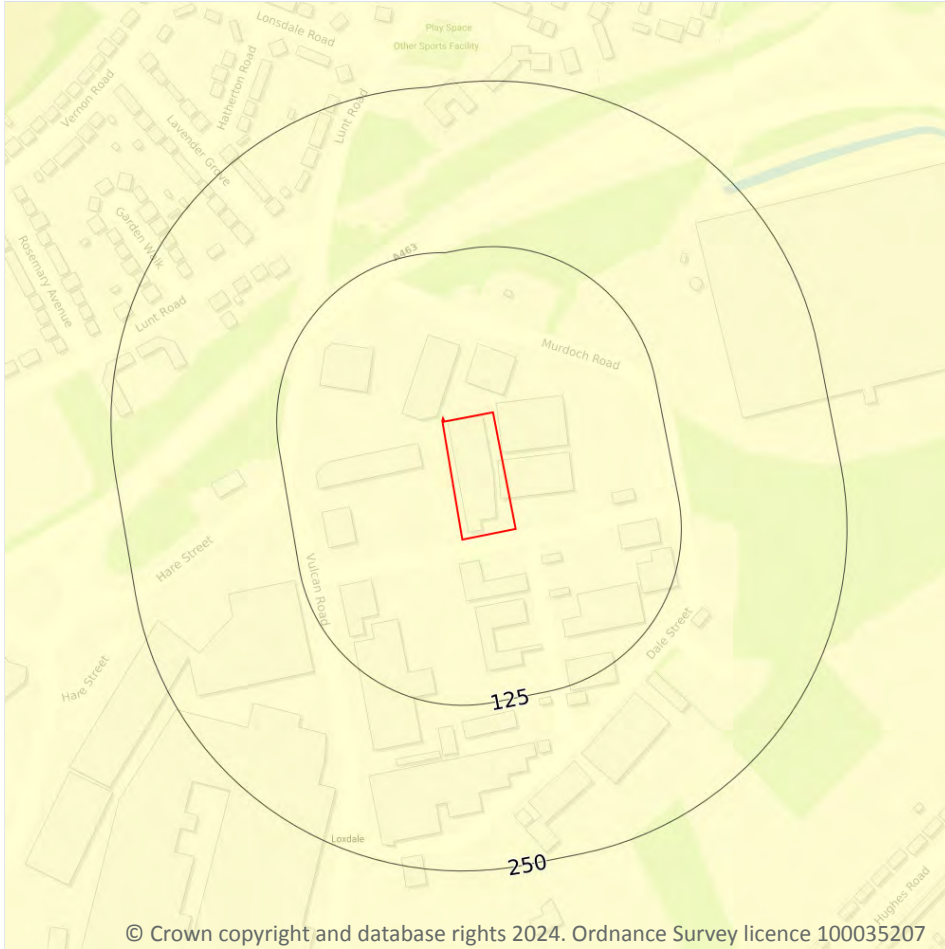
Features are displayed on the Natural ground subsidence - Landslides map on [page 163](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

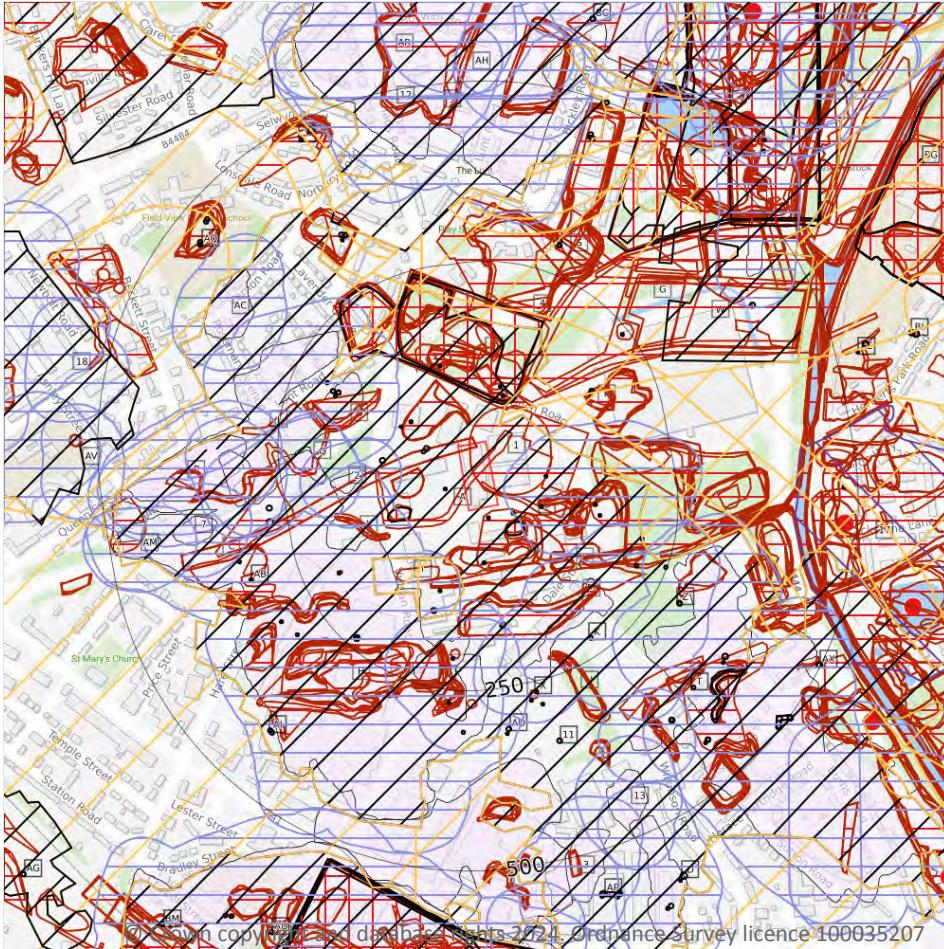
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 164](#) >

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



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

18.1 BritPits

Records within 500m

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 166](#) >



ID	Location	Details	Description
V	482m E	Name: Baggot's Bridge Brick Works Address: Catherine Cross, Darlaston, WALSALL, West Midlands Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	193
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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 166](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Sludge Bed	1968	1:10560
A	On site	Sand Pit	1955	1:10560
B	On site	Sand Pit	1955	1:10560
C	On site	Cuttings	1938	1:10560
C	On site	Cuttings	1920	1:10560
C	On site	Cuttings	1919	1:10560
B	7m S	Unspecified Heap	1885	1:10560
B	26m SE	Unspecified Ground Workings	1886	1:10560
A	28m N	Unspecified Pit	1938	1:10560
A	28m N	Unspecified Pit	1919	1:10560
A	28m N	Unspecified Pit	1938	1:10560
A	28m N	Unspecified Pit	1920	1:10560
A	28m N	Unspecified Pit	1919	1:10560
A	28m N	Unspecified Pit	1901	1:10560
B	29m SE	Unspecified Heap	1901	1:10560
B	29m SE	Unspecified Ground Workings	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	29m SE	Unspecified Ground Workings	1919	1:10560
B	32m SE	Unspecified Heap	1955	1:10560
B	32m SE	Unspecified Heap	1920	1:10560
B	32m SE	Unspecified Heap	1919	1:10560
E	39m SE	Refuse Heap	1968	1:10560
E	39m SE	Refuse Heap	1974	1:10000
B	51m S	Unspecified Ground Workings	1955	1:10560
F	51m N	Colliery	1886	1:10560
B	52m NE	Sludge Beds	1955	1:10560
B	54m S	Unspecified Ground Workings	1938	1:10560
B	54m S	Unspecified Ground Workings	1920	1:10560
B	54m S	Unspecified Ground Workings	1919	1:10560
B	54m S	Unspecified Ground Workings	1901	1:10560
A	55m W	Unspecified Heap	1938	1:10560
A	55m W	Unspecified Heap	1920	1:10560
A	55m W	Unspecified Heap	1919	1:10560
A	55m W	Unspecified Heap	1901	1:10560
E	56m SE	Unspecified Ground Workings	1938	1:10560
E	56m SE	Unspecified Ground Workings	1919	1:10560
F	56m N	Colliery	1885	1:10560
E	57m SE	Unspecified Ground Workings	1920	1:10560
E	58m SE	Unspecified Ground Workings	1938	1:10560
E	58m SE	Unspecified Ground Workings	1919	1:10560
F	60m N	Sewage Works	1938	1:10560
F	60m N	Sewage Works	1920	1:10560
F	60m N	Disused Colliery	1901	1:10560
G	61m N	Sewage Works	1919	1:10560
F	62m N	Sewage Works	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
G	62m N	Sewage Works	1919	1:10560
F	68m N	Unspecified Pit	1901	1:10560
F	69m N	Unspecified Ground Workings	1919	1:10560
F	74m N	Cuttings	1938	1:10560
F	74m N	Cuttings	1920	1:10560
F	76m N	Cuttings	1919	1:10560
A	79m SW	Refuse Heap	1920	1:10560
A	81m SW	Refuse Heap	1919	1:10560
B	89m S	Unspecified Pit	1955	1:10560
I	89m SW	Unspecified Heap	1955	1:10560
E	90m E	Unspecified Heap	1901	1:10560
F	90m N	Unspecified Pit	1901	1:10560
F	99m N	Sand Pit	1920	1:10560
E	100m SE	Unspecified Pit	1955	1:10560
F	100m N	Sand Pit	1919	1:10560
F	101m N	Sand Pit	1938	1:10560
F	101m N	Sand Pit	1919	1:10560
G	102m NE	Sewage Works	1978	1:10000
F	104m N	Refuse Heap	1938	1:10560
E	106m SE	Unspecified Ground Workings	1901	1:10560
F	107m N	Unspecified Pit	1955	1:10560
E	111m SE	Unspecified Pit	1955	1:10560
E	111m SE	Unspecified Pit	1938	1:10560
E	111m SE	Unspecified Pit	1920	1:10560
E	111m SE	Unspecified Pit	1919	1:10560
E	111m SE	Unspecified Pit	1901	1:10560
F	112m N	Unspecified Ground Workings	1886	1:10560
G	114m NE	Filter Beds	1978	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
L	115m SW	Unspecified Ground Workings	1938	1:10560
L	115m SW	Unspecified Ground Workings	1920	1:10560
L	115m SW	Unspecified Ground Workings	1919	1:10560
L	115m SW	Unspecified Ground Workings	1901	1:10560
M	117m S	Refuse Heap	1919	1:10560
L	117m SW	Unspecified Ground Workings	1919	1:10560
M	117m S	Refuse Heap	1938	1:10560
M	117m S	Refuse Heap	1919	1:10560
F	118m N	Unspecified Heap	1885	1:10560
M	119m S	Refuse Heap	1938	1:10560
M	119m S	Refuse Heap	1920	1:10560
O	126m NW	Unspecified Ground Workings	1886	1:10560
E	127m E	Unspecified Heap	1885	1:10560
O	129m NW	Unspecified Heap	1885	1:10560
F	130m N	Unspecified Heap	1955	1:10560
E	139m E	Sludge Bed	1968	1:10560
E	139m E	Sludge Bed	1974	1:10000
E	139m E	Sludge Bed	1978	1:10000
E	139m SE	Unspecified Pit	1955	1:10560
E	139m SE	Unspecified Pit	1919	1:10560
E	140m SE	Unspecified Pit	1938	1:10560
E	140m SE	Unspecified Pit	1920	1:10560
O	140m NW	Unspecified Ground Workings	1919	1:10560
O	140m NW	Unspecified Ground Workings	1901	1:10560
R	150m NE	Unspecified Ground Workings	1978	1:10000
R	150m NE	Unspecified Heap	1974	1:10000
R	153m NE	Pond	1955	1:10560
R	153m NE	Pond	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
R	153m NE	Pond	1920	1:10560
R	153m NE	Unspecified Pit	1919	1:10560
R	153m NE	Unspecified Pit	1901	1:10560
R	154m NE	Unspecified Pit	1885	1:10560
E	154m E	Pond	1988	1:10000
E	154m E	Unspecified Pit	1885	1:10560
R	154m NE	Unspecified Pit	1886	1:10560
R	155m NE	Pond	1938	1:10560
R	155m NE	Pond	1919	1:10560
E	155m E	Unspecified Ground Workings	1886	1:10560
R	155m NE	Unspecified Ground Workings	1968	1:10560
E	161m E	Unspecified Ground Workings	1938	1:10560
E	161m E	Unspecified Ground Workings	1919	1:10560
E	162m E	Unspecified Ground Workings	1955	1:10560
E	166m E	Unspecified Ground Workings	1919	1:10560
F	173m NW	Unspecified Heap	1938	1:10560
F	174m NW	Unspecified Heap	1885	1:10560
F	174m NW	Unspecified Heap	1968	1:10560
F	174m NW	Unspecified Heap	1974	1:10000
F	174m NW	Unspecified Heap	1993	1:10000
F	174m NW	Unspecified Heap	1978	1:10000
F	174m NW	Unspecified Heap	1988	1:10000
F	174m NW	Unspecified Heap	1885	1:10560
F	174m N	Unspecified Ground Workings	1886	1:10560
F	176m NW	Unspecified Heap	1901	1:10560
F	178m NW	Unspecified Heap	1920	1:10560
F	178m NW	Unspecified Heap	1919	1:10560
Q	179m W	Refuse Heap	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	180m N	Unspecified Heap	1955	1:10560
F	181m N	Unspecified Heap	1938	1:10560
F	181m N	Unspecified Heap	1919	1:10560
4	183m N	Unspecified Heap	1938	1:10560
F	183m NW	Unspecified Heap	1901	1:10560
F	183m NW	Unspecified Heap	1919	1:10560
S	186m N	Unspecified Heap	1920	1:10560
S	187m N	Unspecified Ground Workings	1938	1:10560
S	187m N	Unspecified Ground Workings	1919	1:10560
S	187m N	Unspecified Ground Workings	1901	1:10560
F	188m NW	Unspecified Heap	1920	1:10560
H	189m S	Unspecified Ground Workings	1919	1:10560
H	190m S	Unspecified Ground Workings	1919	1:10560
H	190m S	Unspecified Ground Workings	1901	1:10560
S	191m N	Unspecified Heap	1885	1:10560
N	192m S	Unspecified Ground Workings	1886	1:10560
N	193m S	Unspecified Ground Workings	1938	1:10560
N	193m S	Unspecified Heap	1885	1:10560
N	193m S	Unspecified Pit	1901	1:10560
H	193m S	Unspecified Ground Workings	1920	1:10560
N	194m S	Unspecified Ground Workings	1938	1:10560
S	194m N	Unspecified Ground Workings	1886	1:10560
H	195m SW	Coal Pits	1886	1:10560
H	198m SW	Coal Pits	1885	1:10560
H	203m SW	Unspecified Heap	1885	1:10560
H	206m S	Unspecified Ground Workings	1886	1:10560
H	209m SW	Unspecified Ground Workings	1901	1:10560
H	213m SW	Unspecified Ground Workings	1938	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	213m SW	Unspecified Ground Workings	1919	1:10560
H	214m SW	Unspecified Ground Workings	1938	1:10560
H	214m SW	Unspecified Ground Workings	1920	1:10560
H	214m SW	Unspecified Ground Workings	1919	1:10560
U	217m SE	Unspecified Heap	1938	1:10560
U	217m SE	Unspecified Heap	1919	1:10560
H	218m SW	Unspecified Heap	1919	1:10560
H	218m SW	Unspecified Heap	1901	1:10560
U	218m SE	Unspecified Heap	1901	1:10560
U	221m SE	Unspecified Heap	1938	1:10560
U	221m SE	Unspecified Heap	1920	1:10560
U	221m SE	Unspecified Heap	1919	1:10560
U	222m S	Unspecified Heap	1886	1:10560
S	228m N	Unspecified Heap	1938	1:10560
S	230m N	Unspecified Ground Workings	1919	1:10560
H	230m SW	Unspecified Ground Workings	1938	1:10560
H	231m SW	Unspecified Ground Workings	1938	1:10560
J	231m W	Unspecified Ground Workings	1901	1:10560
G	234m NE	Unspecified Heap	1901	1:10560
N	234m S	Unspecified Heap	1919	1:10560
N	234m S	Unspecified Heap	1901	1:10560
V	235m SE	Canal	1885	1:10560
V	236m E	Canal	1886	1:10560
W	238m NE	Sewage Works	1968	1:10560
W	238m NE	Sewage Works	1974	1:10000
N	238m S	Unspecified Heap	1938	1:10560
Q	240m W	Unspecified Heap	1955	1:10560
H	243m SW	Unspecified Ground Workings	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
N	246m S	Unspecified Ground Workings	1886	1:10560
5	247m NE	Sewage Works	1955	1:10560
S	248m NE	Unspecified Heap	1968	1:10560
S	248m NE	Unspecified Heap	1974	1:10000
S	248m NE	Unspecified Heap	1978	1:10000
E	248m E	Unspecified Pit	1938	1:10560
E	248m E	Unspecified Pit	1920	1:10560
E	248m E	Unspecified Pit	1919	1:10560
N	248m S	Unspecified Heap	1885	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m

281

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

Features are displayed on the Mining and ground workings map on [page 166](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	13m S	Unspecified Shafts	1885	1:10560
B	22m SE	Unspecified Old Shafts	1885	1:10560
A	25m W	Unspecified Shafts	1885	1:10560
B	32m SE	Coal Shafts	1938	1:10560
A	40m NW	Unspecified Shaft	1901	1:10560
A	46m NW	Unspecified Shafts	1885	1:10560
F	56m N	Colliery	1885	1:10560
B	58m SE	Unspecified Old Shafts	1885	1:10560
F	60m N	Disused Colliery	1901	1:10560
F	66m N	Unspecified Shafts	1885	1:10560
A	71m NW	Unspecified Shafts	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	71m E	Unspecified Old Shafts	1885	1:10560
B	73m S	Unspecified Shafts	1885	1:10560
F	77m N	Unspecified Shafts	1885	1:10560
A	79m SW	Coal Shafts	1938	1:10560
A	81m NW	Unspecified Shafts	1885	1:10560
A	103m W	Coal Shaft	1901	1:10560
F	110m N	Unspecified Shafts	1885	1:10560
I	116m S	Unspecified Shafts	1885	1:10560
E	133m E	Unspecified Shafts	1885	1:10560
E	140m E	Unspecified Shafts	1885	1:10560
I	143m S	Coal Shaft	1901	1:10560
R	157m NE	Unspecified Shaft	1885	1:10560
R	160m NE	Unspecified Old Shaft	1919	1:10560
R	161m NE	Unspecified Old Shaft	1938	1:10560
R	161m NE	Unspecified Old Shaft	1920	1:10560
M	162m S	Unspecified Old Shaft	1919	1:10560
M	163m S	Unspecified Old Shaft	1938	1:10560
M	163m S	Unspecified Old Shaft	1920	1:10560
O	179m NW	Old Coal Shaft	1919	1:10560
O	179m NW	Old Coal Shaft	1901	1:10560
O	182m NW	Unspecified Shafts	1885	1:10560
O	186m NW	Old Coal Shaft	1920	1:10560
H	198m SW	Coal Pits	1885	1:10560
O	199m NW	Unspecified Shafts	1885	1:10560
E	204m E	Unspecified Shafts	1885	1:10560
N	205m S	Unspecified Old Shafts	1885	1:10560
E	208m SE	Unspecified Shafts	1885	1:10560
K	223m SE	Old Coal Shafts	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
H	231m SW	Old Coal Shaft	1919	1:10560
H	233m SW	Old Coal Shaft	1938	1:10560
H	233m SW	Old Coal Shaft	1920	1:10560
G	239m NE	Unspecified Shaft	1885	1:10560
E	246m SE	Unspecified Shafts	1885	1:10560
X	263m S	Unspecified Old Shafts	1885	1:10560
N	266m S	Unspecified Old Shafts	1885	1:10560
Q	269m W	Coal Shafts	1901	1:10560
Q	271m W	Coal Shafts	1901	1:10560
E	271m E	Unspecified Shafts	1885	1:10560
X	273m S	Unspecified Old Shafts	1885	1:10560
X	282m S	Unspecified Old Shafts	1885	1:10560
Z	283m SE	Trial Shaft	1919	1:10560
Z	284m SE	Trial Shaft	1938	1:10560
Z	284m SE	Trial Shaft	1920	1:10560
S	287m N	Unspecified Old Shafts	1920	1:10560
S	288m N	Unspecified Old Shafts	1938	1:10560
H	292m SW	Unspecified Shafts	1885	1:10560
S	294m N	Unspecified Old Shafts	1919	1:10560
H	300m SW	Unspecified Shafts	1885	1:10560
AD	305m S	Old Coal Shafts	1901	1:10560
N	306m S	Unspecified Shaft	1885	1:10560
AD	312m S	Coal Pit	1885	1:10560
AB	316m SW	Coal Pits	1885	1:10560
AB	324m W	Unspecified Shaft	1885	1:10560
F	324m NW	Unspecified Shaft	1885	1:10560
F	327m NW	Old Coal Shafts	1901	1:10560
F	327m NW	Unspecified Shaft	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
S	328m NE	Disused Colliery	1938	1:10560
F	330m NW	Unspecified Shaft	1920	1:10560
11	335m S	Old Coal Shafts	1901	1:10560
S	360m NE	Colliery	1901	1:10560
T	369m SE	Unspecified Old Shafts	1885	1:10560
T	373m SE	Unspecified Old Shaft	1885	1:10560
T	375m SE	Old Coal Shafts	1901	1:10560
T	379m SE	Unspecified Old Shafts	1885	1:10560
T	380m SE	Coal Shafts	1919	1:10560
T	381m SE	Coal Shafts	1938	1:10560
T	381m SE	Coal Shafts	1920	1:10560
T	382m SE	Coal Pit	1901	1:10560
T	385m SE	Coal Pit	1919	1:10560
AI	408m SW	Coal Shaft	1920	1:10560
AI	409m SW	Coal Shaft	1919	1:10560
W	412m NE	Old Coal Shaft	1901	1:10560
T	434m SE	Old Coal Shaft	1901	1:10560
T	434m SE	Coal Shafts	1938	1:10560
T	434m SE	Coal Shafts	1920	1:10560
T	434m SE	Coal Shafts	1919	1:10560
T	436m SE	Unspecified Old Shaft	1885	1:10560
S	442m N	Old Coal Shaft	1938	1:10560
S	442m N	Old Coal Shaft	1920	1:10560
S	444m N	Unspecified Shaft	1885	1:10560
S	447m N	Old Coal Shaft	1919	1:10560
AQ	450m NW	Unspecified Old Shaft	1885	1:10560
AQ	451m NW	Old Coal Shafts	1919	1:10560
AQ	452m NW	Old Coal Shafts	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
S	455m NE	Colliery	1885	1:10560
AQ	464m NW	Old Coal Shafts	1919	1:10560
AQ	465m NW	Old Coal Shafts	1901	1:10560
Y	474m NW	Unspecified Old Shaft	1885	1:10560
V	479m E	Unspecified Old Shaft	1885	1:10560
Y	479m NW	Coal Shaft	1919	1:10560
T	486m SE	Coal Shafts	1938	1:10560
T	486m SE	Coal Shafts	1920	1:10560
T	487m SE	Coal Shafts	1919	1:10560
T	493m SE	Coal Shafts	1919	1:10560
AX	494m SE	Old Coal Shafts	1901	1:10560
AX	494m SE	Coal Shaft	1938	1:10560
AX	494m SE	Coal Shaft	1920	1:10560
AX	494m SE	Coal Shafts	1919	1:10560
S	496m N	Coal Shaft	1920	1:10560
T	498m SE	Coal Shafts	1919	1:10560
22	521m S	Disused Colliery	1901	1:10560
BB	521m S	Disused Colliery	1919	1:10560
23	521m S	Disused Colliery	1920	1:10560
BB	522m S	Disused Colliery	1938	1:10560
BB	528m S	Colliery	1885	1:10560
AE	529m E	Unspecified Old Shaft	1885	1:10560
S	533m NE	Coal Shaft	1938	1:10560
S	534m NE	Coal Shaft	1919	1:10560
AE	540m E	Unspecified Old Shaft	1913	1:10560
AE	540m E	Unspecified Old Shaft	1901	1:10560
AE	540m E	Unspecified Old Shafts	1921	1:10560
AP	555m S	Old Coal Shafts	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
S	556m NE	Unspecified Old Shafts	1885	1:10560
AP	556m S	Old Coal Shafts	1938	1:10560
AP	556m S	Old Coal Shafts	1920	1:10560
AP	557m S	Old Coal Shafts	1919	1:10560
AP	560m S	Unspecified Old Shafts	1885	1:10560
AP	562m S	Old Coal Shafts	1938	1:10560
AP	562m S	Old Coal Shafts	1919	1:10560
AP	562m S	Old Coal Shafts	1901	1:10560
S	563m NE	Disused Colliery	1919	1:10560
AP	566m S	Unspecified Old Shafts	1885	1:10560
S	568m NE	Unspecified Old Shafts	1885	1:10560
D	571m SE	Old Coal Shafts	1901	1:10560
D	578m SE	Unspecified Old Shaft	1885	1:10560
BH	580m NE	Disused Colliery	1913	1:10560
BH	580m NE	Disused Colliery	1901	1:10560
BH	580m NE	Disused Colliery	1885	1:10560
BH	580m NE	Disused Colliery	1921	1:10560
BH	600m NE	Disused Colliery	1938	1:10560
BH	600m NE	Disused Colliery	1938	1:10560
BC	601m N	Old Coal Shaft	1901	1:10560
D	603m SE	Old Coal Shafts	1901	1:10560
D	605m SE	Unspecified Old Shafts	1885	1:10560
BI	606m E	Unspecified Old Shafts	1921	1:10560
BI	611m E	Unspecified Old Shafts	1913	1:10560
-	624m N	Unspecified Old Shaft	1885	1:10560
-	629m N	Coal Shaft	1901	1:10560
AU	643m SW	Unspecified Old Shaft	1885	1:10560
AU	650m SW	Coal Pits	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	652m S	Unspecified Shafts	1938	1:10560
-	652m S	Unspecified Shafts	1920	1:10560
AU	653m SW	Coal Pits	1885	1:10560
-	655m S	Unspecified Shafts	1919	1:10560
-	655m S	Unspecified Shafts	1885	1:10560
-	661m S	Unspecified Shafts	1919	1:10560
-	661m S	Unspecified Shafts	1885	1:10560
-	673m S	Unspecified Shafts	1885	1:10560
-	698m N	Unspecified Shaft	1920	1:10560
-	699m S	Unspecified Shafts	1885	1:10560
-	700m N	Unspecified Shaft	1919	1:10560
-	700m N	Unspecified Shaft	1901	1:10560
-	709m SW	Unspecified Shaft	1885	1:10560
BM	713m SW	Coal Pits	1885	1:10560
BG	717m NE	Unspecified Old Shaft	1885	1:10560
-	747m S	Old Coal Shaft	1920	1:10560
-	748m S	Old Coal Shafts	1901	1:10560
-	752m S	Old Coal Shaft	1919	1:10560
-	755m S	Unspecified Old Shafts	1885	1:10560
-	755m S	Unspecified Old Shafts	1885	1:10560
-	768m SE	Unspecified Old Shafts	1949	1:10560
-	769m S	Coal Pit	1885	1:10560
-	784m SE	Unspecified Old Shafts	1949	1:10560
-	789m NW	Old Coal Shafts	1901	1:10560
-	789m NW	Old Coal Shafts	1901	1:10560
-	790m N	Unspecified Old Shaft	1885	1:10560
-	790m SW	Disused Colliery and Brick Works	1901	1:10560
-	793m N	Unspecified Old Shaft	1920	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	794m N	Unspecified Old Shaft	1919	1:10560
-	794m N	Unspecified Shaft	1901	1:10560
AG	795m SW	Unspecified Old Shafts	1919	1:10560
-	797m NW	Unspecified Old Shafts	1885	1:10560
-	800m NW	Old Coal Shafts	1901	1:10560
-	808m NW	Unspecified Old Shafts	1885	1:10560
-	809m S	Unspecified Shaft	1885	1:10560
-	809m NW	Old Coal Shafts	1901	1:10560
-	811m W	Colliery	1885	1:10560
-	832m S	Disused Colliery	1920	1:10560
-	833m S	Old Coal Shafts	1919	1:10560
-	837m S	Disused Colliery	1919	1:10560
-	837m SE	Unspecified Old Shaft	1885	1:10560
-	841m S	Colliery	1885	1:10560
-	842m NE	Unspecified Old Shaft	1885	1:10560
-	843m W	Unspecified Disused Shaft	1974	1:10000
-	846m W	Unspecified Disused Shaft	1978	1:10000
-	846m SW	Unspecified Old Shafts	1919	1:10560
-	847m SW	Unspecified Old Shafts	1938	1:10560
-	848m SE	Colliery	1885	1:10560
-	848m SW	Unspecified Old Shafts	1920	1:10560
-	848m SW	Unspecified Old Shafts	1885	1:10560
-	850m N	Unspecified Shaft	1885	1:10560
-	853m SW	Unspecified Old Shafts	1919	1:10560
-	855m SW	Unspecified Old Shafts	1885	1:10560
-	880m N	Unspecified Old Shaft	1938	1:10560
-	880m N	Unspecified Old Shaft	1920	1:10560
-	880m N	Unspecified Old Shaft	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	883m N	Old Coal Shafts	1920	1:10560
-	883m N	Unspecified Shaft	1901	1:10560
-	884m NE	Unspecified Disused Shaft	1968	1:10560
-	884m NE	Unspecified Disused Shaft	1974	1:10000
-	885m SE	Old Coal Shafts	1920	1:10560
-	888m SE	Old Coal Shafts	1919	1:10560
-	888m SE	Old Coal Shafts	1901	1:10560
-	888m N	Unspecified Old Shaft	1885	1:10560
-	890m N	Old Coal Shafts	1938	1:10560
-	891m N	Old Coal Shafts	1919	1:10560
-	891m N	Old Coal Shafts	1901	1:10560
-	895m W	Unspecified Shafts	1885	1:10560
-	901m S	Unspecified Shafts	1885	1:10560
-	908m NW	Disused Colliery	1919	1:10560
-	908m NW	Colliery	1901	1:10560
-	911m S	Unspecified Shafts	1885	1:10560
-	912m S	Coal Shaft	1901	1:10560
-	916m N	Unspecified Old Shaft	1885	1:10560
-	919m S	Unspecified Old Shafts	1885	1:10560
-	920m E	Disused Coal Pit	1913	1:10560
-	920m E	Coal Pit	1901	1:10560
-	920m E	Disused Coal Pit	1921	1:10560
-	934m N	Old Coal Shafts	1920	1:10560
-	937m SE	Old Coal Shafts	1901	1:10560
-	939m N	Old Coal Shafts	1901	1:10560
-	940m E	Unspecified Old Shaft	1885	1:10560
-	940m SE	Unspecified Shafts	1885	1:10560
-	942m S	Unspecified Old Shaft	1885	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	942m N	Old Coal Shafts	1938	1:10560
-	943m E	Unspecified Shafts	1913	1:10560
-	943m E	Unspecified Old Shaft	1901	1:10560
-	943m E	Unspecified Shafts	1921	1:10560
-	943m SE	Unspecified Old Shaft	1885	1:10560
-	944m N	Old Coal Shafts	1919	1:10560
-	944m SE	Old Coal Shafts	1920	1:10560
-	944m NW	Unspecified Shaft	1885	1:10560
-	946m SE	Old Coal Shafts	1901	1:10560
-	951m S	Old Coal Shafts	1901	1:10560
-	951m S	Coal Shafts	1938	1:10560
-	952m S	Coal Shafts	1920	1:10560
-	952m SE	Unspecified Shafts	1885	1:10560
-	952m SE	Old Coal Shafts	1919	1:10560
-	953m S	Old Coal Shafts	1901	1:10560
-	954m S	Coal Shafts	1938	1:10560
-	958m S	Coal Shafts	1919	1:10560
-	959m S	Unspecified Shafts	1885	1:10560
-	960m S	Unspecified Shafts	1885	1:10560
-	960m S	Coal Shafts	1919	1:10560
-	962m E	Unspecified Shafts	1921	1:10560
-	964m E	Disused Colliery	1885	1:10560
-	965m NW	Unspecified Shaft	1885	1:10560
-	973m NW	Old Coal Shaft	1938	1:10560
-	973m NW	Old Coal Shaft	1920	1:10560
-	973m NW	Old Coal Shaft	1919	1:10560
-	973m NW	Old Coal Shaft	1901	1:10560
-	973m SW	Old Coal Shafts	1919	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	975m W	Unspecified Shafts	1885	1:10560
-	978m NW	Unspecified Old Shafts	1885	1:10560
-	980m S	Coal Shaft	1901	1:10560
-	981m E	Unspecified Old Shaft	1938	1:10560
-	981m E	Unspecified Old Shaft	1913	1:10560
-	981m E	Unspecified Old Shaft	1901	1:10560
-	981m E	Unspecified Old Shaft	1921	1:10560
-	981m E	Unspecified Old Shaft	1938	1:10560
-	981m E	Unspecified Old Shafts	1938	1:10560
-	981m E	Unspecified Old Shafts	1913	1:10560
-	981m E	Unspecified Old Shafts	1901	1:10560
-	981m E	Unspecified Old Shafts	1921	1:10560
-	981m E	Unspecified Old Shafts	1938	1:10560
-	982m E	Unspecified Shaft	1885	1:10560
-	985m NW	Unspecified Old Shaft	1885	1:10560
-	987m S	Old Colliery	1885	1:10560
-	989m S	Unspecified Old Shaft	1885	1:10560
-	995m E	Unspecified Old Shaft	1885	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	13
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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.

Features are displayed on the Mining and ground workings map on [page 166](#) >

ID	Location	Mineral	Mineral type
H	128m SW		Ironstone
P	133m W		Ironstone



ID	Location	Mineral	Mineral type
K	162m SE		Ironstone
3	171m S		Ironstone
T	260m SE		Ironstone
P	286m W		Ironstone
AC	335m NW		Ironstone
AH	347m N		Ironstone
AF	351m S	Unspecified	Ironstone
T	367m SE		Ironstone
S	431m NE		Ironstone
D	477m SE		Ironstone
AU	500m S		Ironstone

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	1
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Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining and ground workings map on [page 166](#) >

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
17	412m E	Baggots Bridge	Clay, shale, sand (moulding)	Surface mineral working	Valid	9/2/48

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

85

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

Features are displayed on the Mining and ground workings map on [page 166](#) >

ID	Location	Name	Commodity	Class	Likelihood
D	On site	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
E	29m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	44m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
I	74m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
I	95m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
G	114m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
E	122m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
E	151m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	169m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	184m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	186m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
E	196m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	217m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	222m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
V	258m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	264m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
Y	265m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
6	270m NE	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
F	273m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	276m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
F	280m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	289m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
8	303m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	311m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AF	317m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
10	329m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	339m SW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AE	353m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AL	359m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
Y	367m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
14	369m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	371m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AJ	381m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
15	381m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
16	383m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	391m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AO	420m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	421m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AS	448m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AT	450m W	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
19	472m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
S	490m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
21	512m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
BF	546m NW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
24	547m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
26	566m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
27	576m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AZ	589m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
28	594m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
29	599m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AW	606m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
31	610m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
33	624m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AZ	626m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	658m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
35	666m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AW	689m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	690m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AG	719m SW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	724m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	728m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	730m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
BO	735m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	745m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	756m N	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	790m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	806m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
44	807m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	813m W	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
47	818m NE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	834m S	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	842m E	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	858m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	872m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	883m E	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	885m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	892m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	892m SE	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	899m E	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.



ID	Location	Name	Commodity	Class	Likelihood
-	946m NW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	960m NW	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	985m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	986m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
-	986m SW	Black country	Ironstone	E	Underground mining is known or considered likely within or very close to the area. The location, extent and nature of mining should be considered in any site investigation. Potential for difficult ground conditions should be considered.
-	989m W	Not available	Iron Ore (Bedded)	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk .



This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

29

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.

Features are displayed on the Mining and ground workings map on [page 166 >](#)

ID	Location	Mineral type	Mineral
E	11m SE	Metals	Ironstone
H	72m SW	Metals	Ironstone
2	83m W	Metals	Ironstone
J	90m NW	Metals	Ironstone
K	103m SE	Metals	Ironstone
N	124m S	Metals	Ironstone
Q	137m W	Metals	Ironstone
T	216m SE	Metals	Ironstone
P	240m W	Metals	Ironstone
P	244m W	Metals	Ironstone
AC	289m NW	Metals	Ironstone
7	299m W	Metals	Ironstone
9	305m N	Metals	Ironstone
T	322m SE	Metals	Ironstone
12	348m N	Metals	Ironstone
13	363m SE	Metals	Ironstone
AM	379m W	Metals	Ironstone
S	389m NE	Metals	Ironstone
AP	421m S	Metals	Ironstone
AH	426m N	Metals	Ironstone



ID	Location	Mineral type	Mineral
D	433m SE	Metals	Ironstone
AU	453m S	Metals	Ironstone
AV	463m W	Metals	Ironstone
18	468m W	Metals	Ironstone
AH	479m N	Metals	Ironstone
AH	479m N	Metals	Ironstone
AR	481m N	Metals	Ironstone
AH	482m N	Metals	Ironstone
AV	495m W	Metals	Ironstone

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

5

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

Location	Mineral type
154m N	Unspecified
419m NW	Unspecified
436m NE	Unspecified
445m S	Unspecified
461m S	Metals

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

1

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.

Location	Mineral
336m S	Ironstone

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

5

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.

Location	Mineral
On site	Coal
On site	Coal
94m SW	Ironstone
291m W	Coal
357m NW	Ironstone

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.13 Brine areas

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

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

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

18.14 Gypsum areas

Records on site	0
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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.

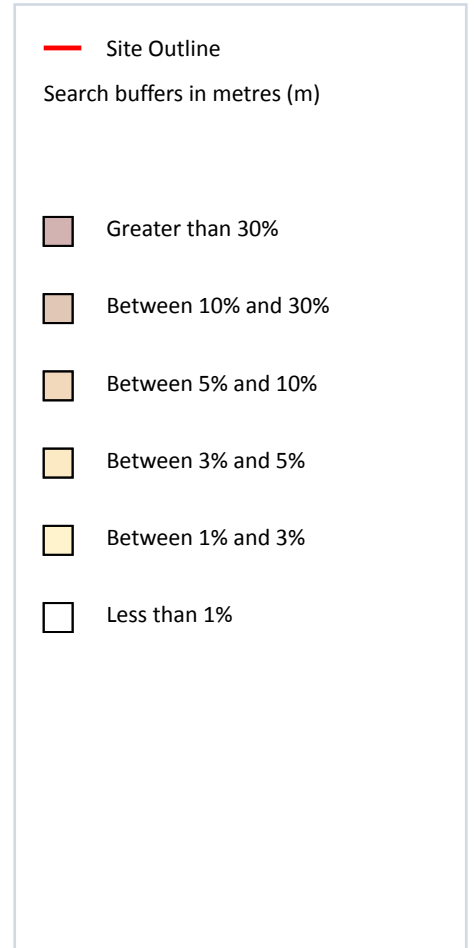
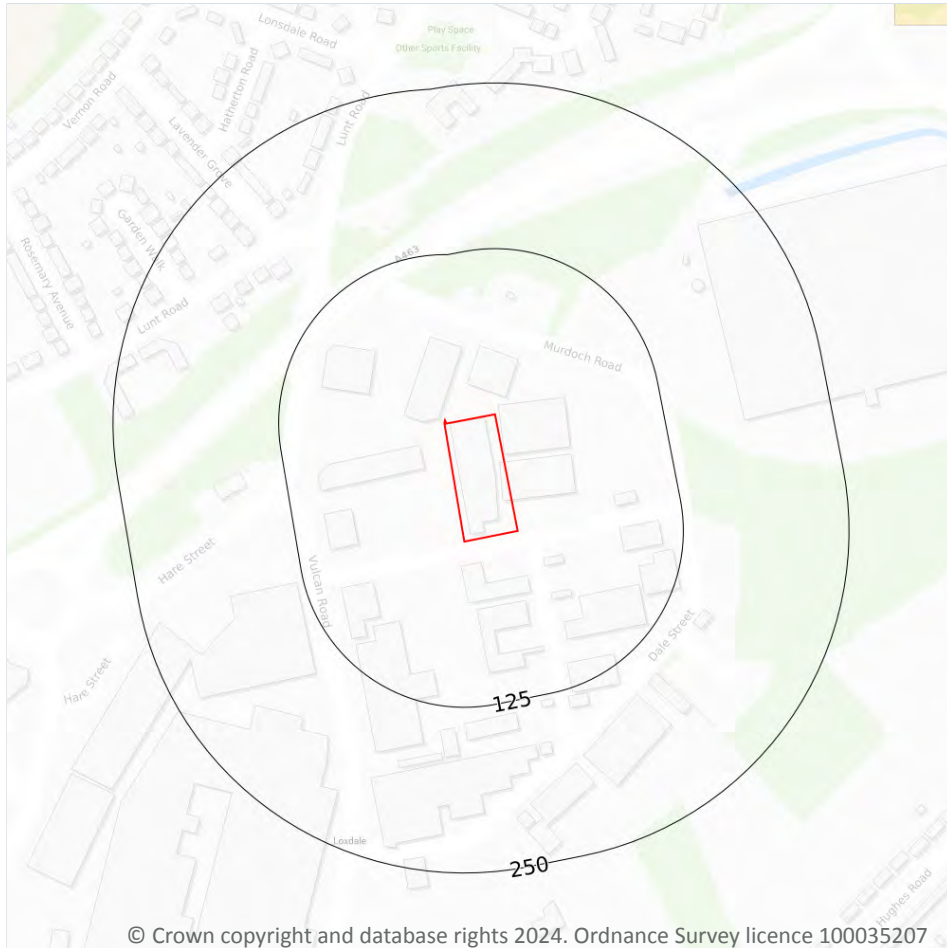
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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



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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 202 >](#)

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

14

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 km². 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 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	40 - 60 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
24m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
28m N	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg



Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
28m N	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 - 2.2 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg
33m N	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	90 - 120 mg/kg	30 - 45 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	6
---------------------------	----------

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 km²).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	21	3.7	275	189	3.4	164	287	84	47
On site	21	3.7	269	185	3.5	168	291	84	47
On site	23	4	296	203	4.5	197	365	102	53
On site	25	4.4	354	243	6.1	239	466	134	62
44m N	23	4	293	201	4.7	205	374	104	53
47m N	30	5.3	443	304	10.1	327	684	198	78

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

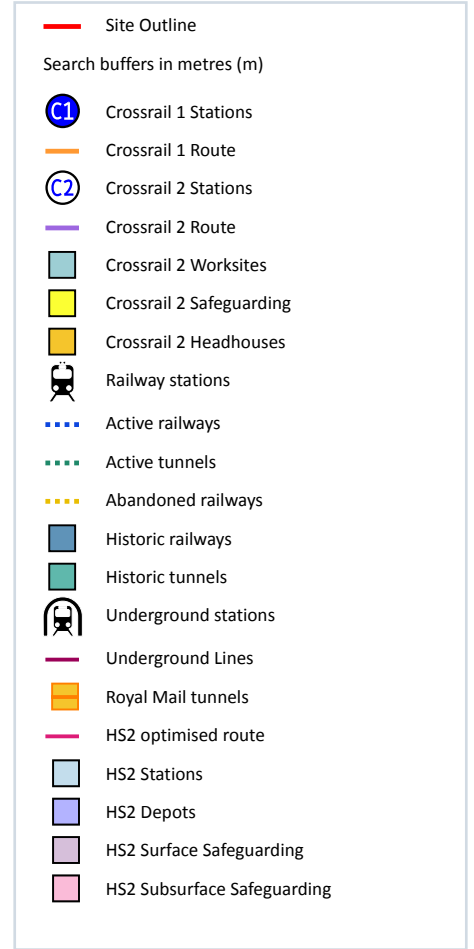
Records within 50m	0
---------------------------	----------

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 km².

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

10

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 206 >](#)

Location	Land Use	Year of mapping	Mapping scale
45m S	Tramway Sidings	1885	10560
50m S	Tramway Sidings	1886	10560
51m S	Tramway Sidings	1887	2500
79m NE	Railway Sidings	1920	10560
79m NE	Railway Sidings	1938	10560
82m NE	Railway Sidings	1919	10560
83m NE	Railway Sidings	1938	10560
83m NE	Railway Sidings	1919	10560
96m N	Tramway Sidings	1938	2500
103m N	Railway Sidings	1919	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m

0

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



This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m **0**

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m **0**

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m **0**

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m **0**

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m **0**

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

This data is sourced from HS2 Ltd.



Data providers

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

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Site Details:

395817.0528155768,296390.43
012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1885

Scale: 1:10,560

Printed at: 1:10,560



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Revised 1885
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1885
Edition N/A
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Levelled N/A

Surveyed 1885
Revised N/A
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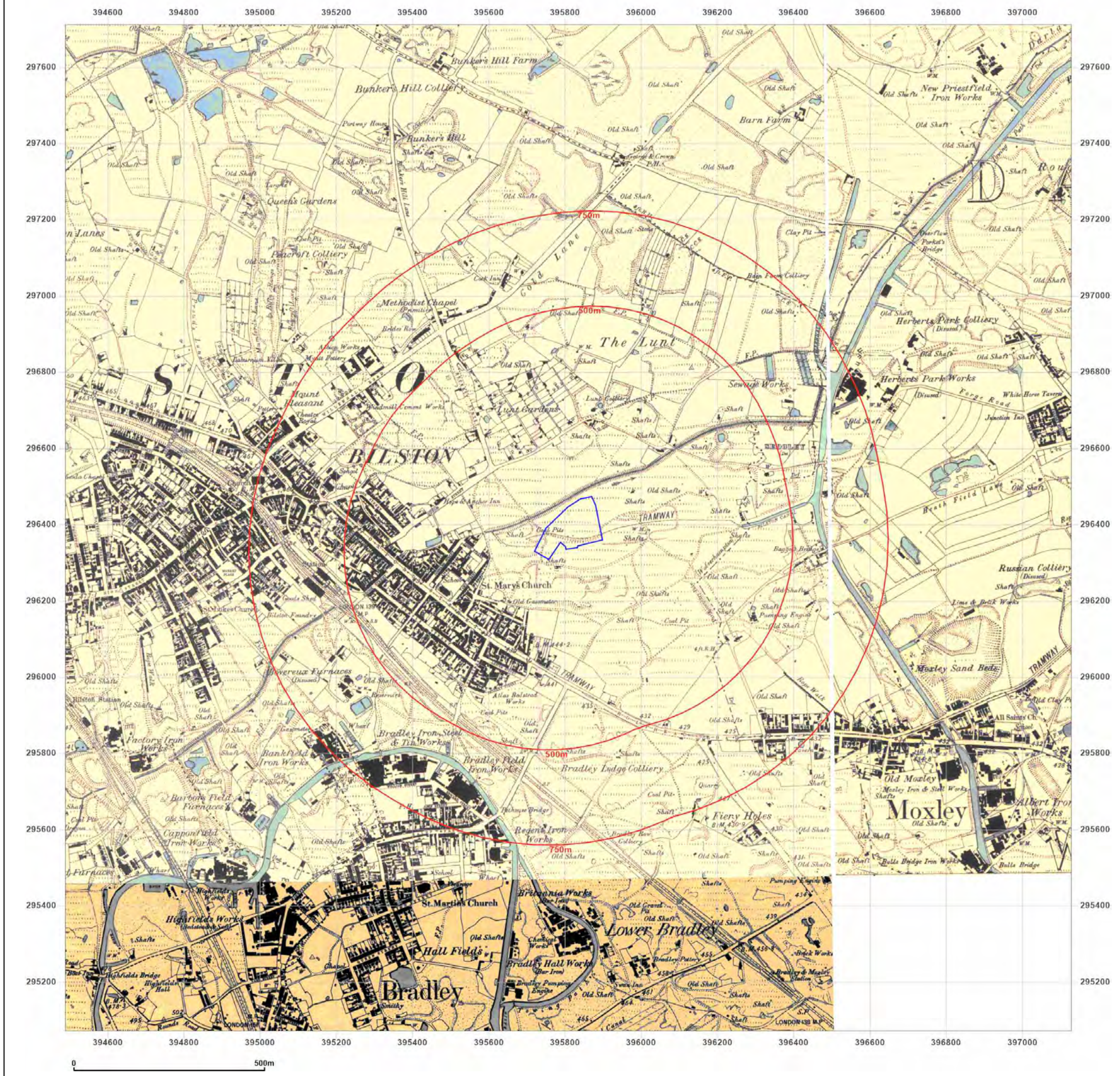


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Site Details:

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012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1885-1889

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1888
Revised N/A
Edition N/A
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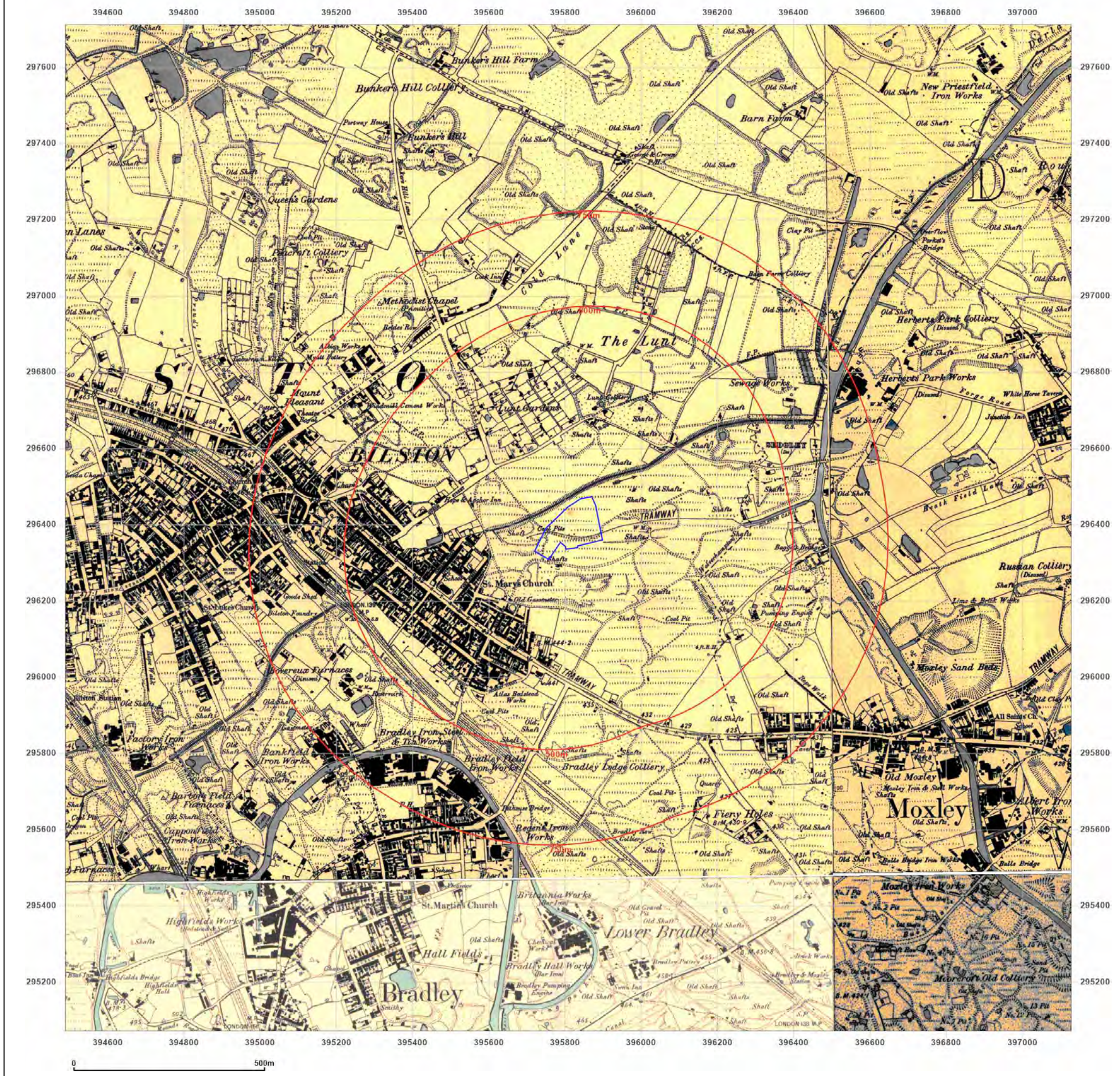


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Site Details:

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012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1901-1902

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1884 Revised 1901 Edition N/A Copyright N/A Levelled N/A	Surveyed 1888 Revised 1902 Edition N/A Copyright N/A Levelled N/A

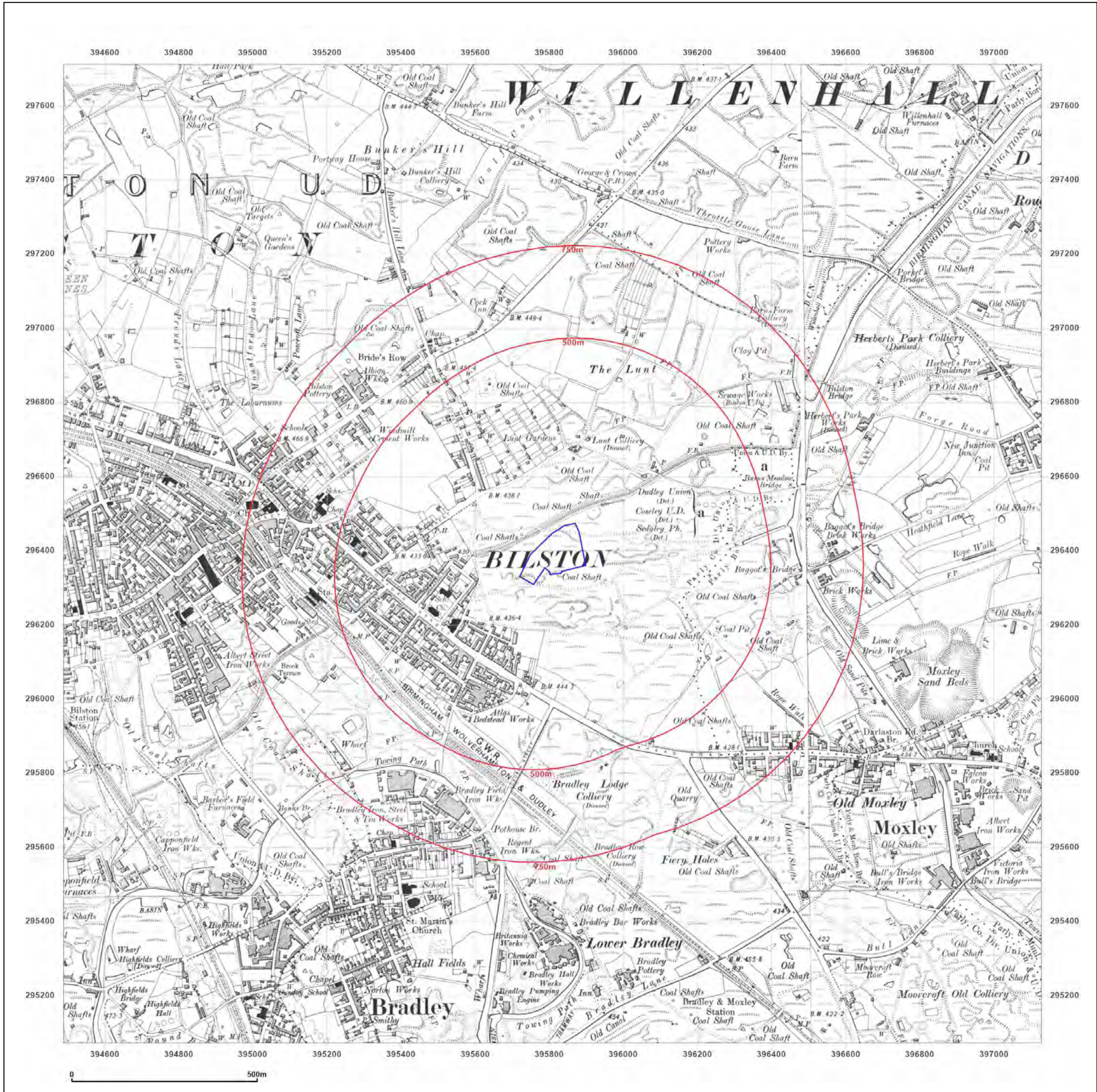


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012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

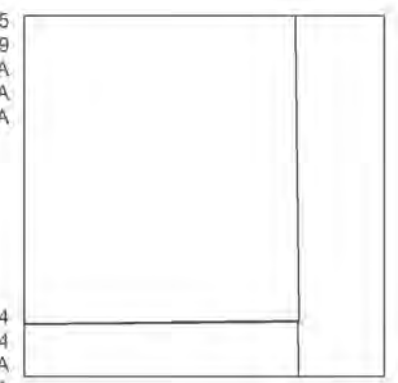
Map date: 1914-1919

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Surveyed 1884
Revised 1914
Edition N/A
Copyright N/A
Levelled N/A

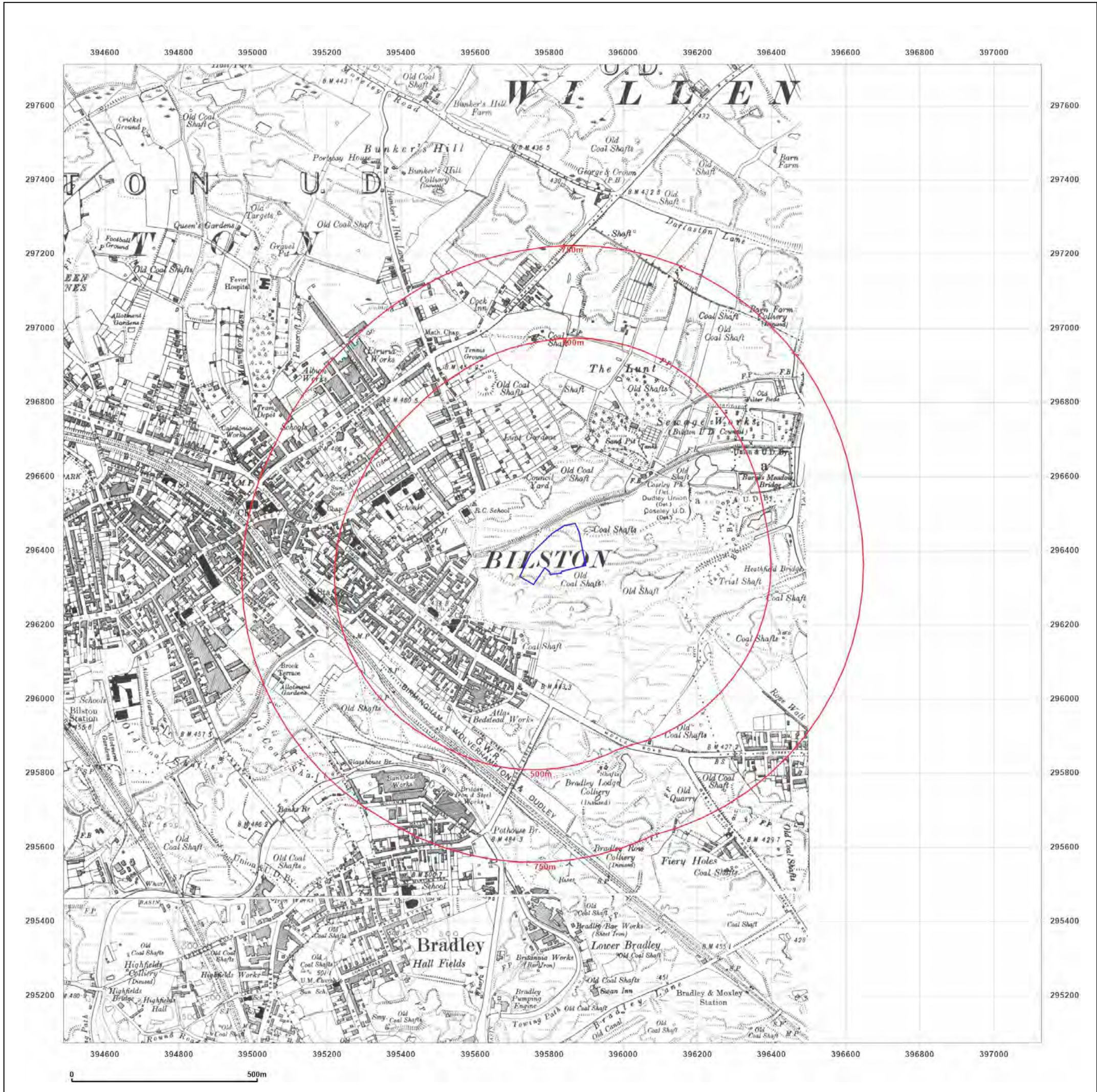


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012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1919-1921

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885 Revised 1919 Edition N/A Copyright N/A Levelled N/A	Surveyed 1888 Revised 1913 Edition 1920 Copyright N/A Levelled 1913
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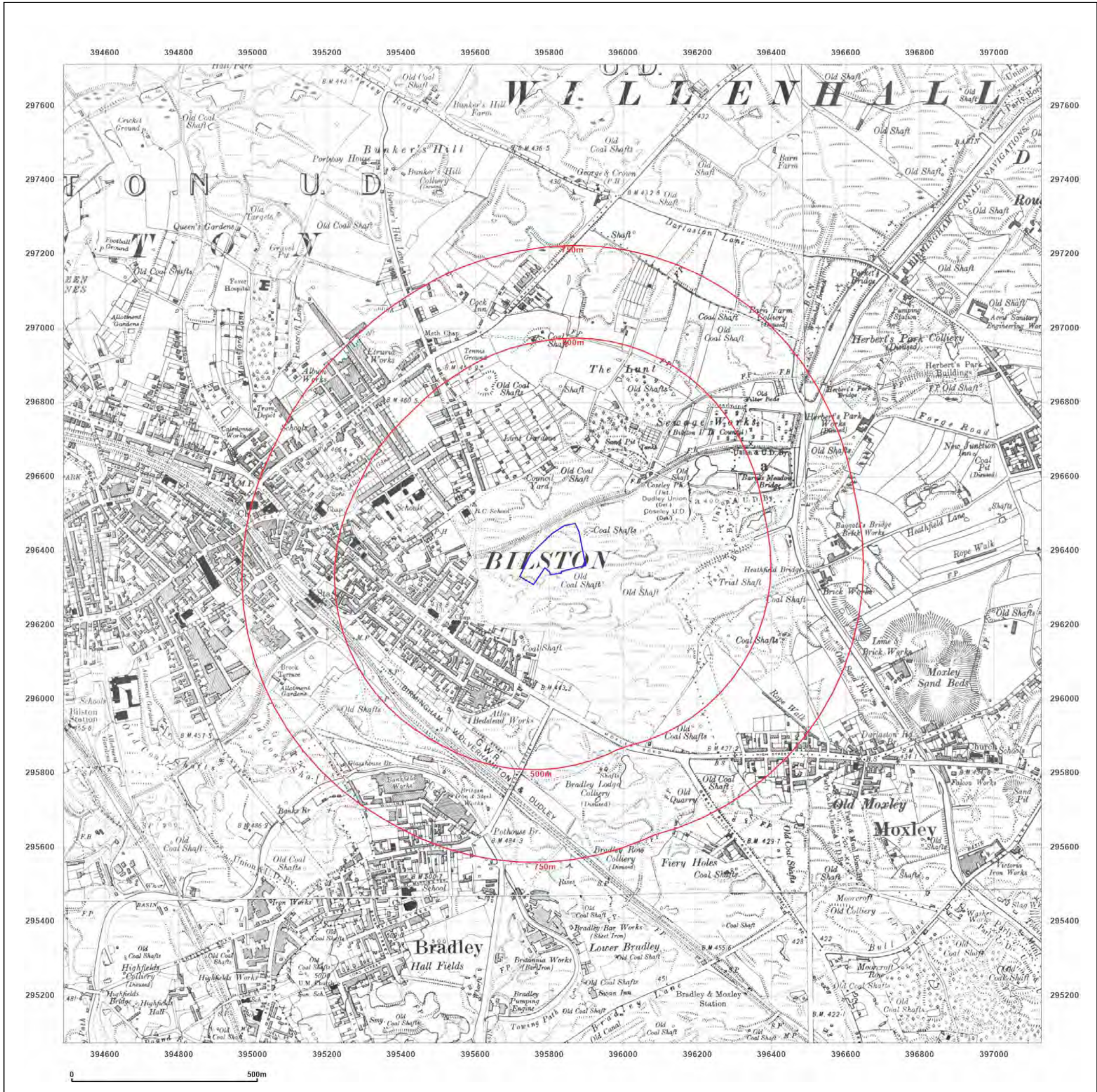


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Site Details:

395817.0528155768,296390.43
012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1920-1921

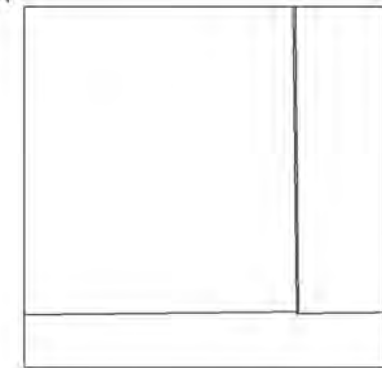
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Surveyed 1885
Revised 1920
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1885
Revised 1921
Edition N/A
Copyright N/A
Levelled N/A

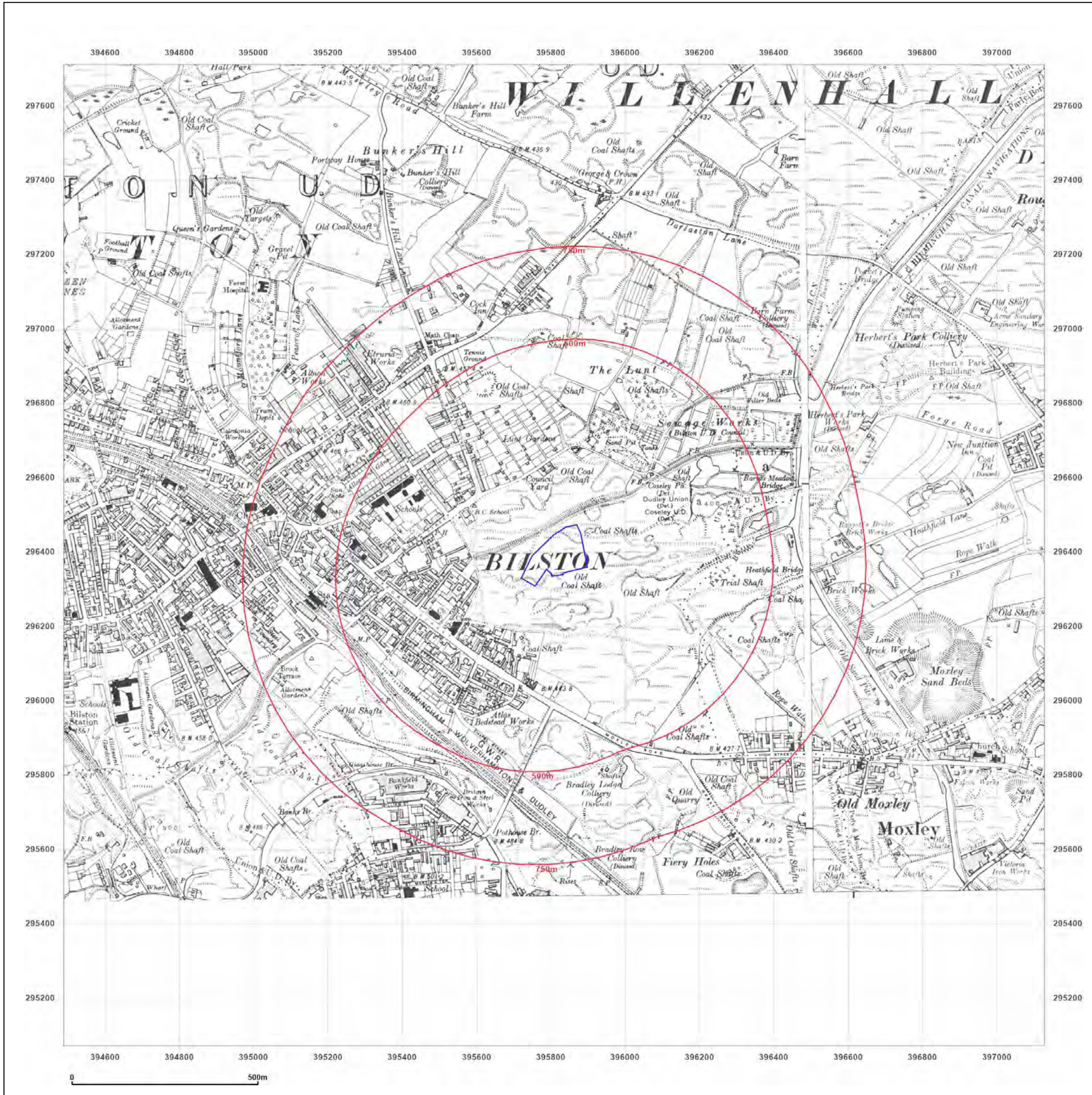


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Site Details:

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Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1885 Revised 1938 Edition N/A Copyright N/A Levelled N/A		Surveyed 1938 Revised 1938 Edition N/A Copyright N/A Levelled N/A
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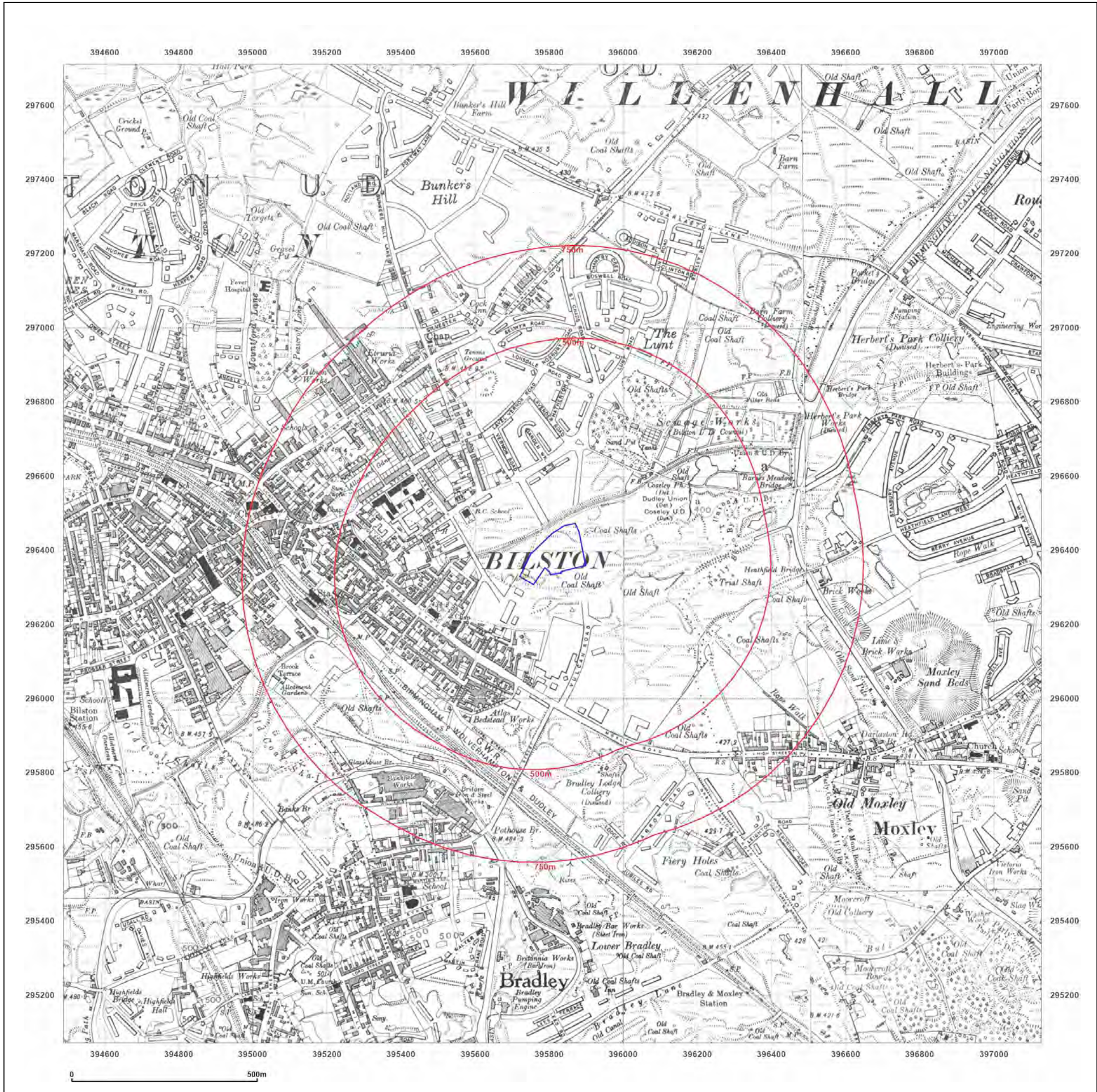


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Site Details:

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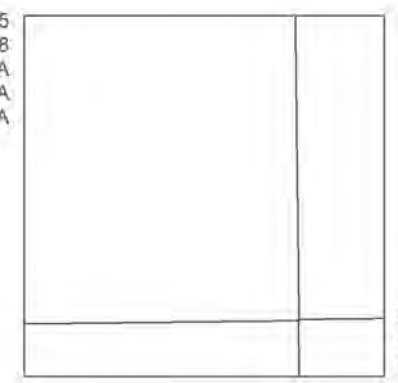
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Surveyed 1885
Revised 1938
Edition N/A
Copyright N/A
Levelled N/A



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

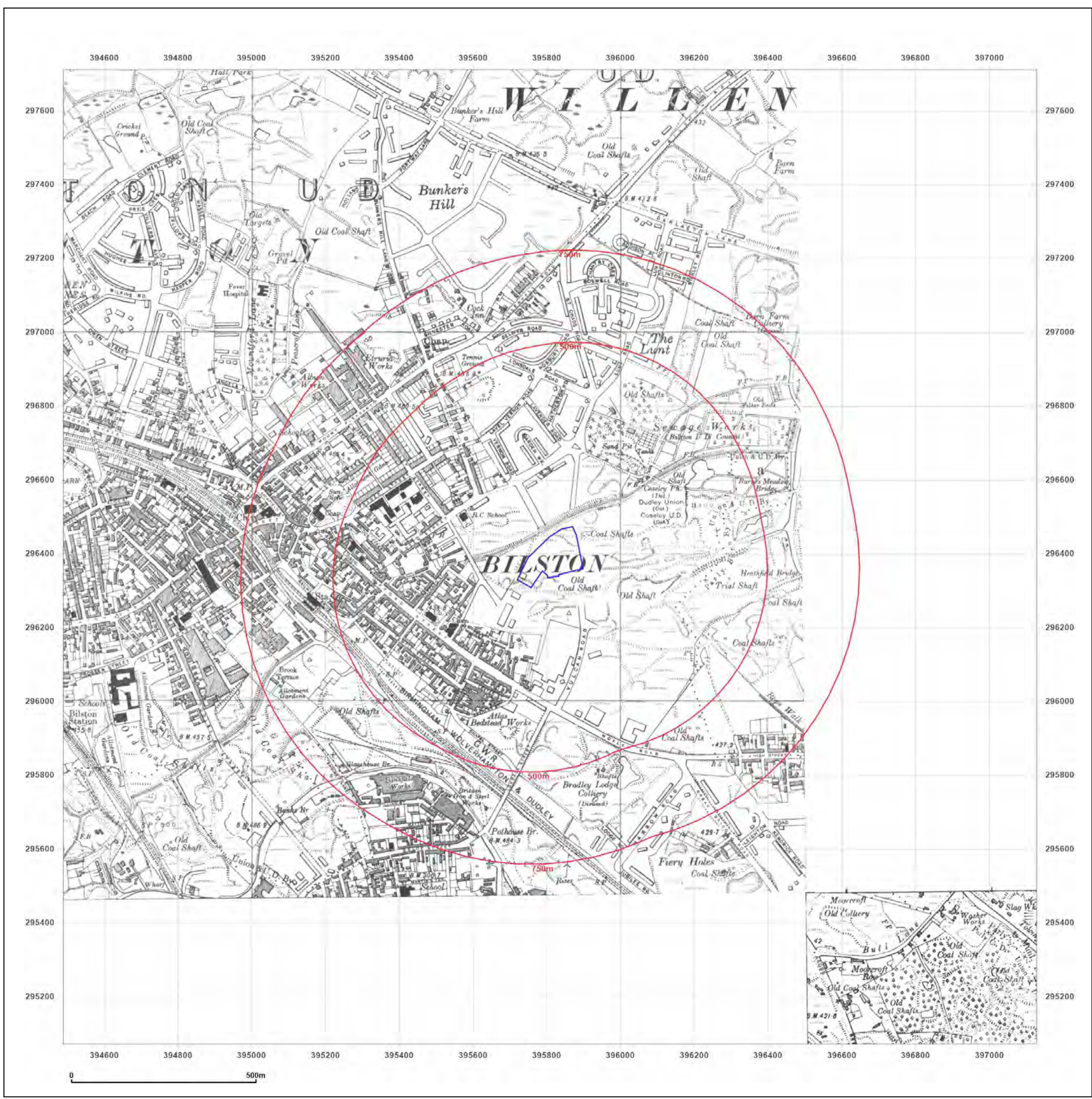


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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: Provisional

Map date: 1953-1955

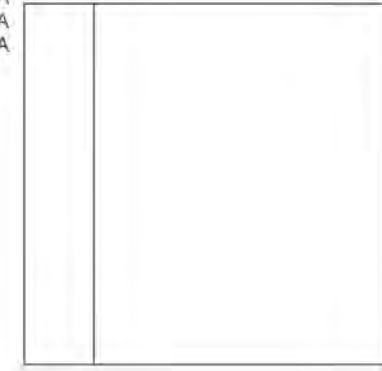
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Surveyed 1953
Revised 1953
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1949
Revised 1955
Edition N/A
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Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: National Grid

Map date: 1974

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1965

Surveyed 1972
Revised 1974
Edition N/A
Copyright 1974
Levelled 1973

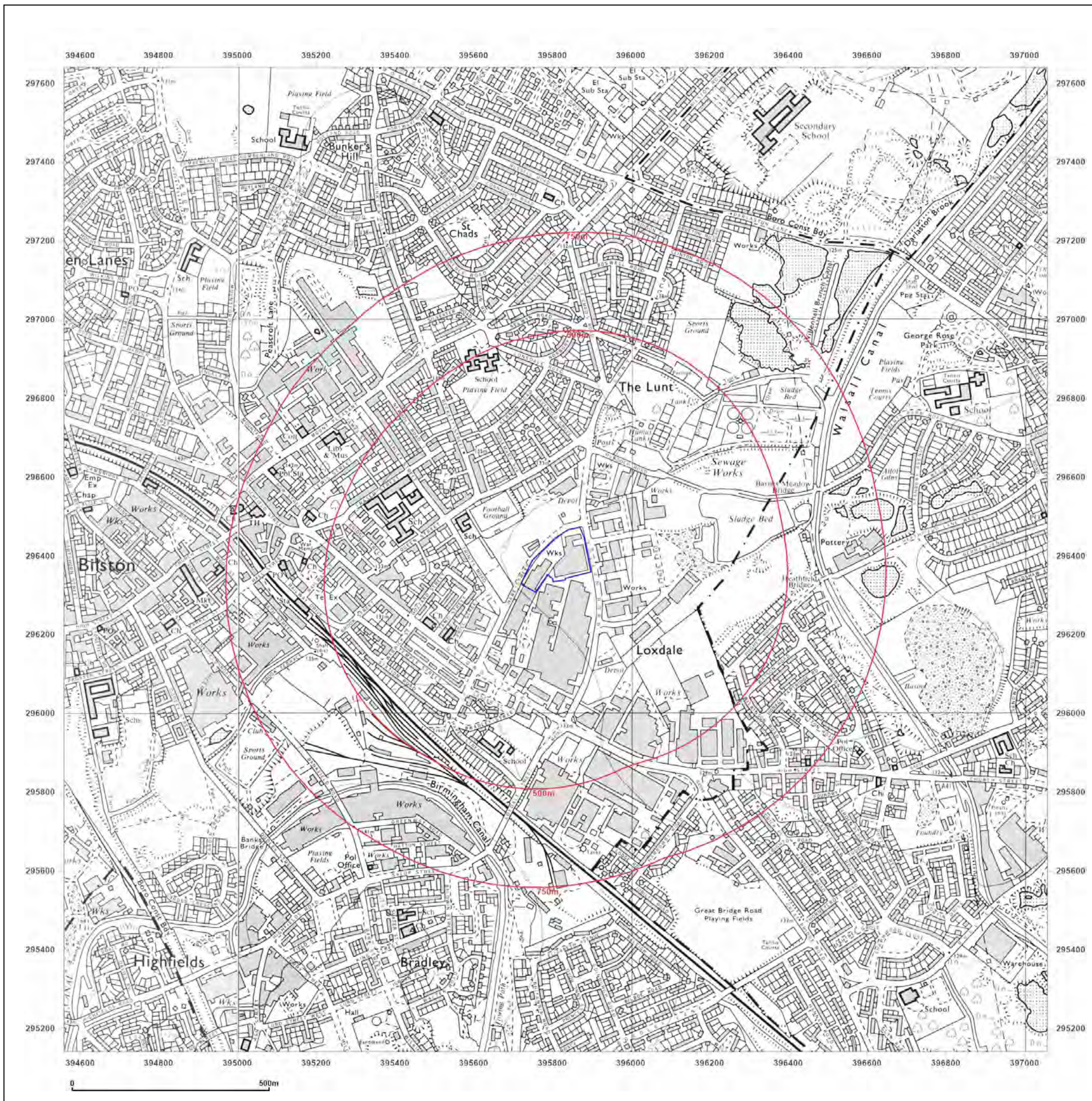


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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: National Grid

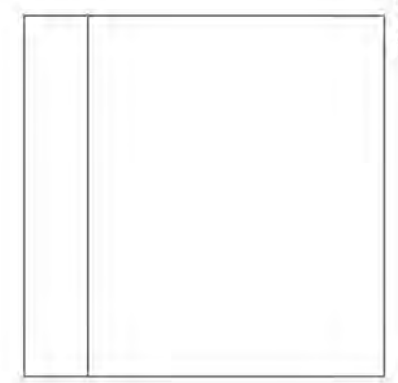
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Surveyed 1977
Revised 1980
Edition N/A
Copyright 1980
Levelled 1978

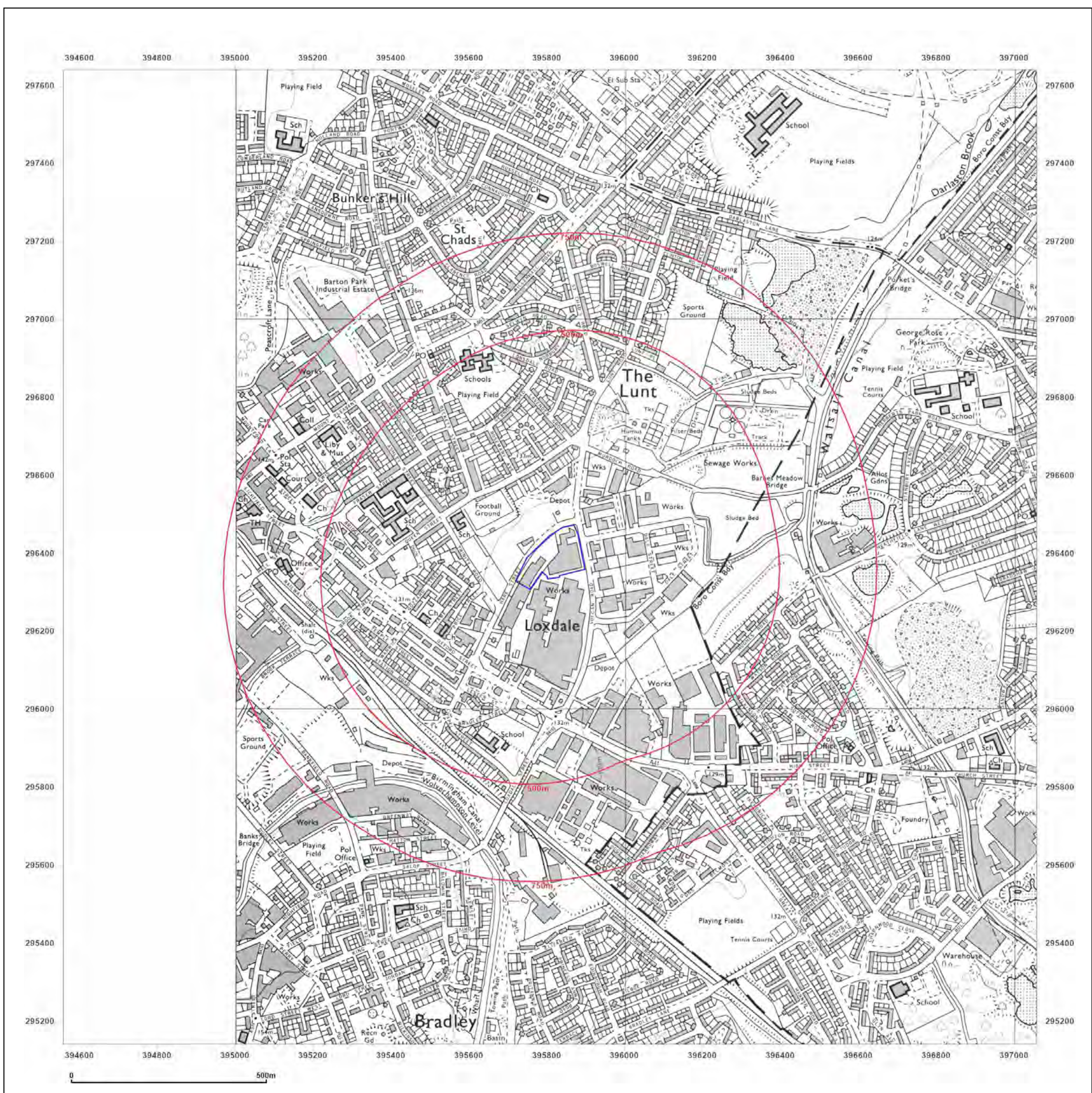


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Site Details:

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012822705

Client Ref: VR-2370_CE-PO-1851
Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: National Grid

Map date: 1988-1993

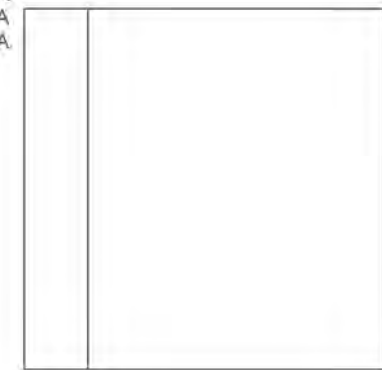
Scale: 1:10,000

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Surveyed 1982
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1987
Revised 1988
Edition N/A
Copyright N/A
Levelled N/A

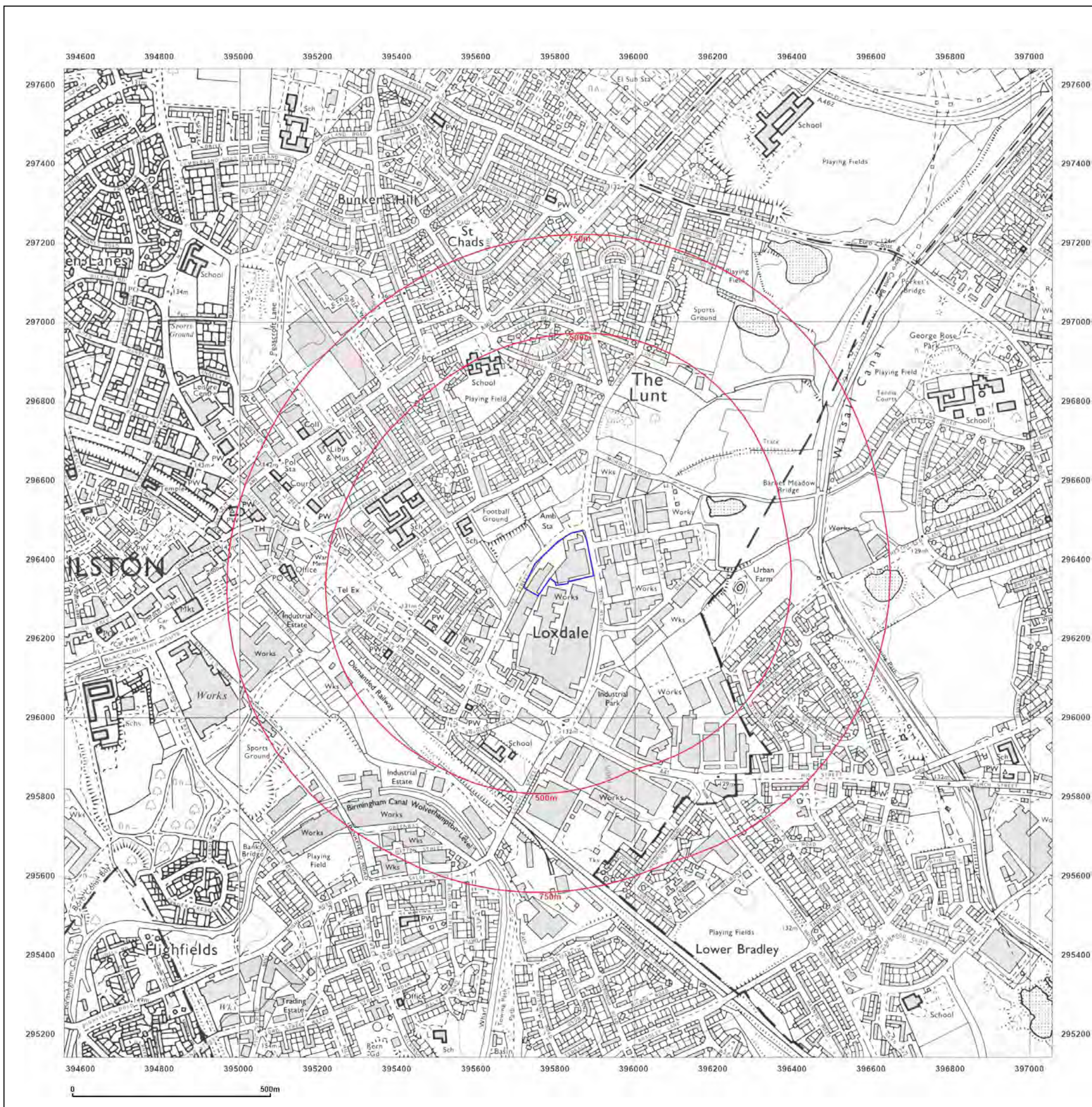


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Site Details:

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Grid Ref: 395808, 296391

Map Name: National Grid

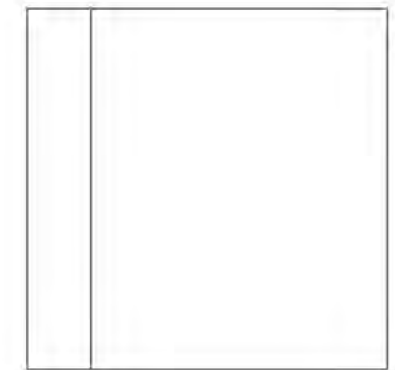
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Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1891
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

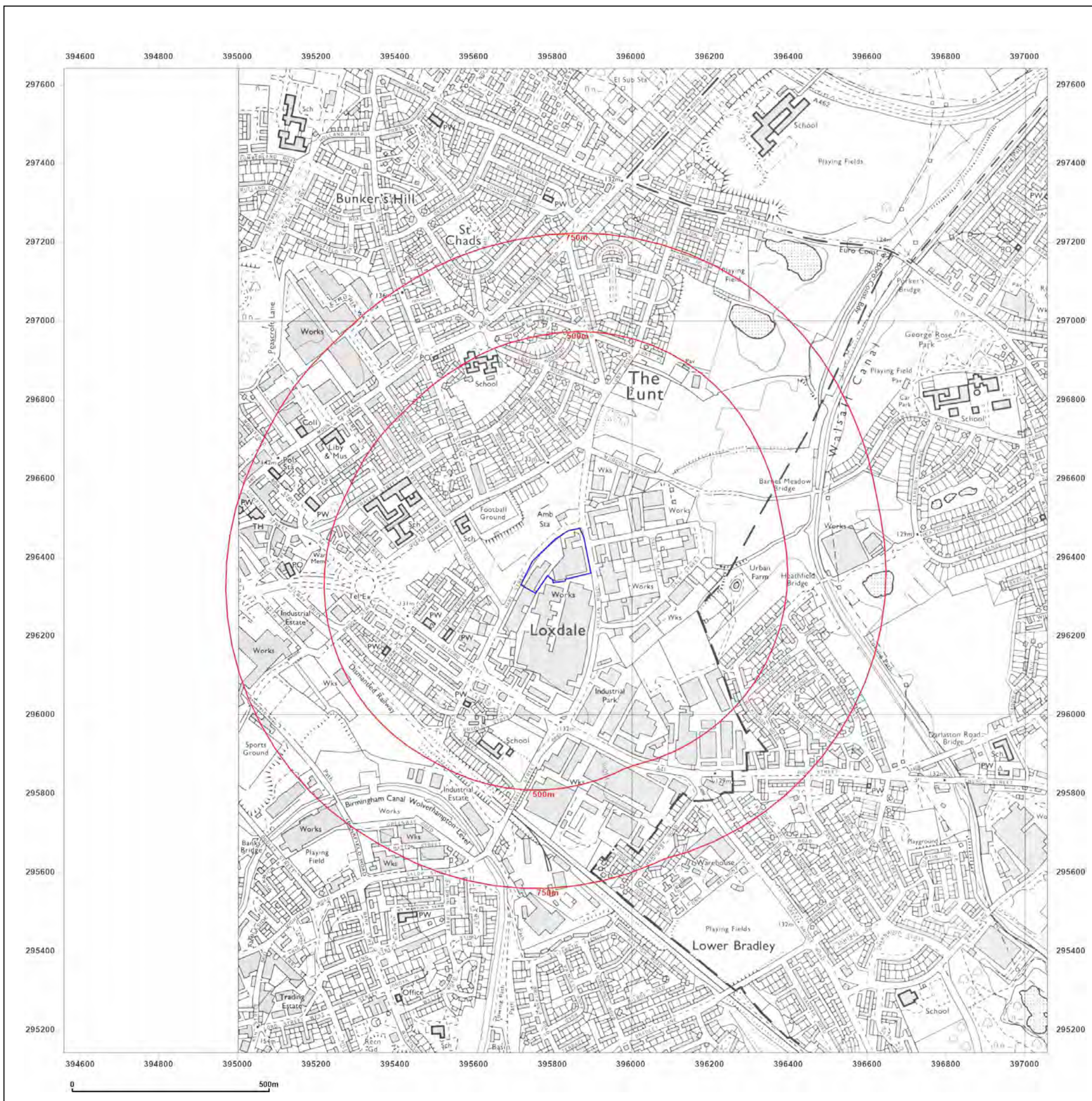


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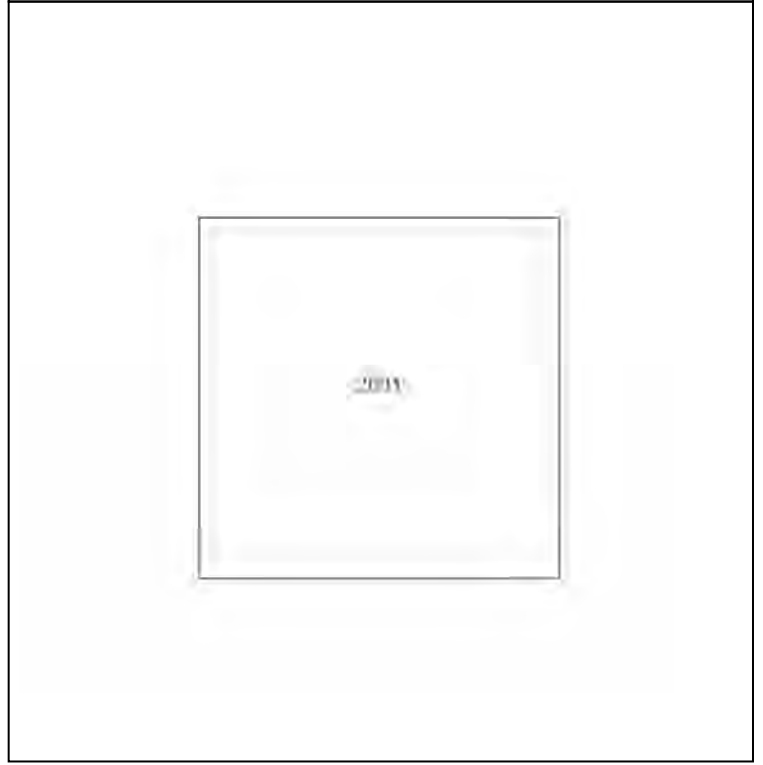
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Report Ref:	GS-VVH-6P9-4NN-TLH
Grid Ref:	395808, 296391
Map Name:	National Grid
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Printed at:	1:10,000

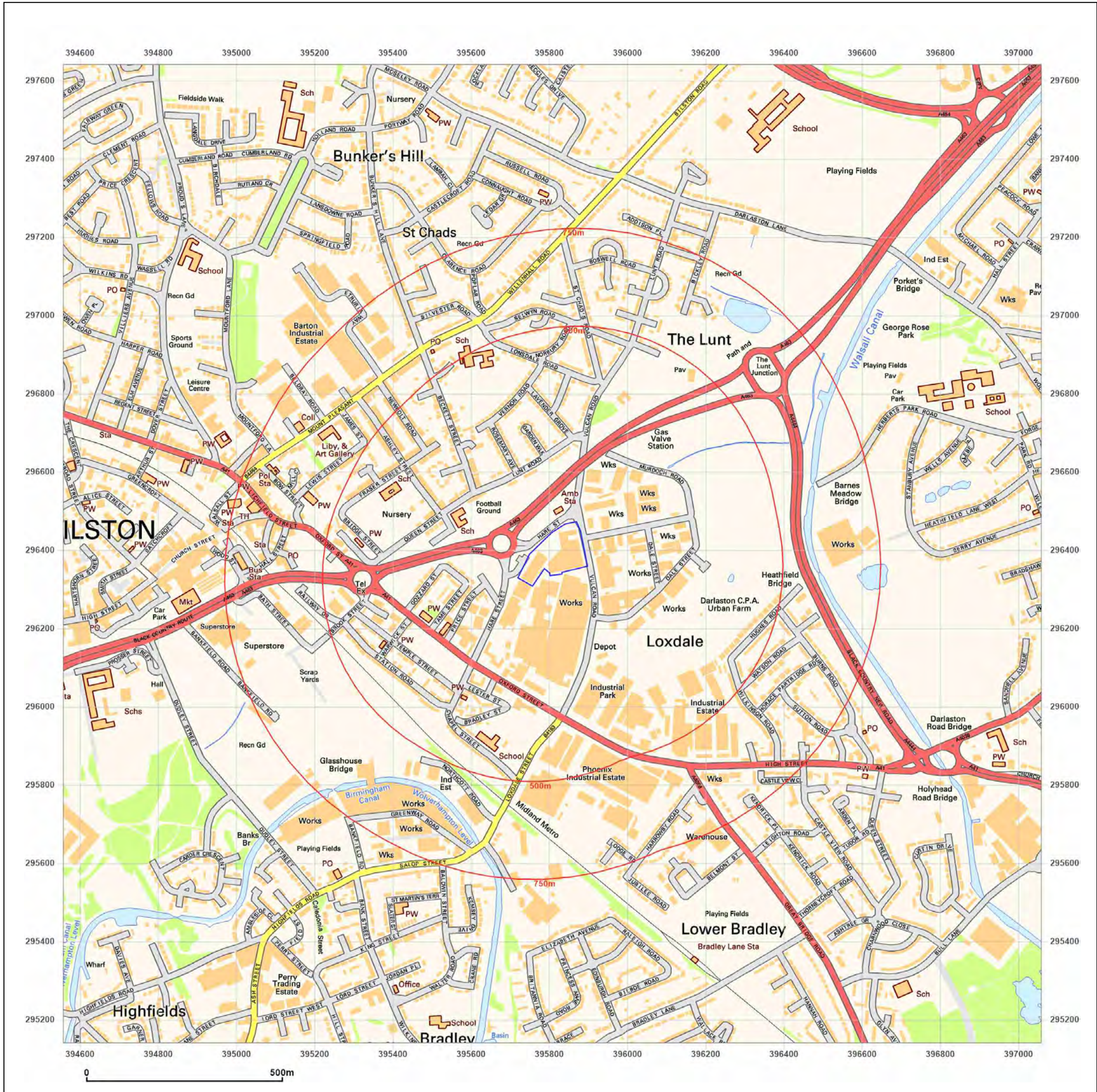


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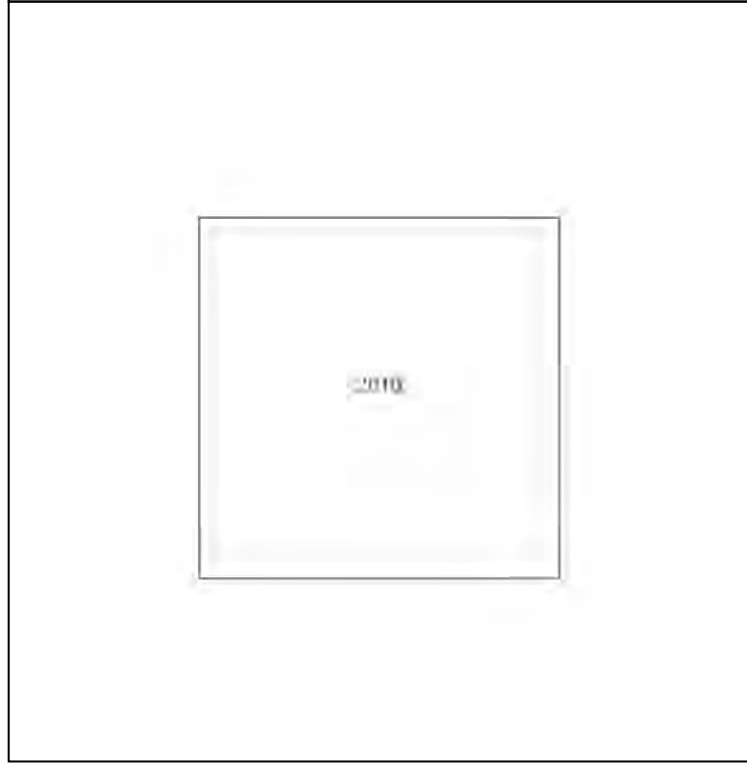
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Report Ref: GS-VVH-6P9-4NN-TLH
Grid Ref: 395808, 296391

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



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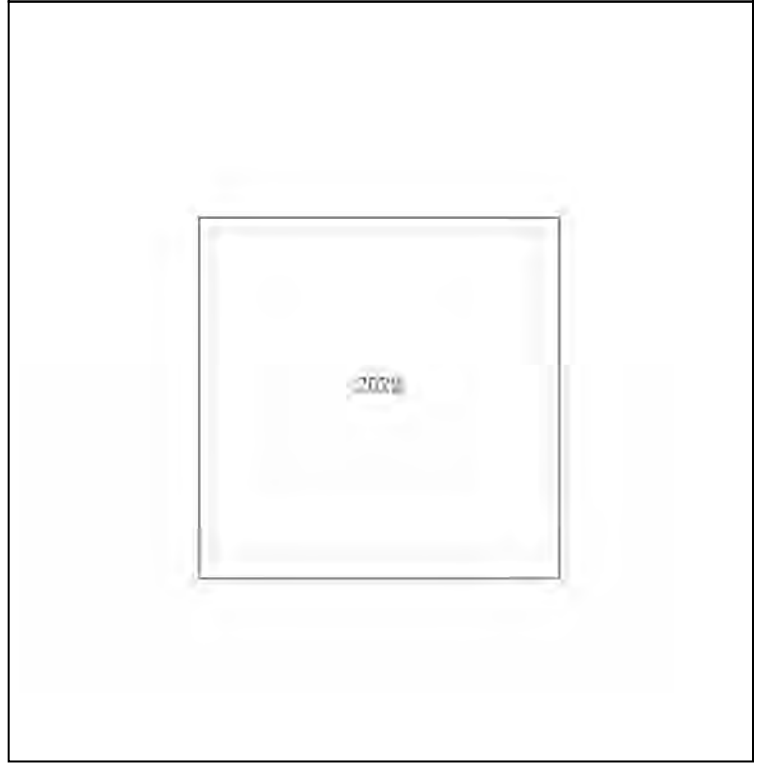
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Client Ref: VR-2370_CE-PO-1851
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Grid Ref: 395808, 296391

Map Name: National Grid
Map date: 2023
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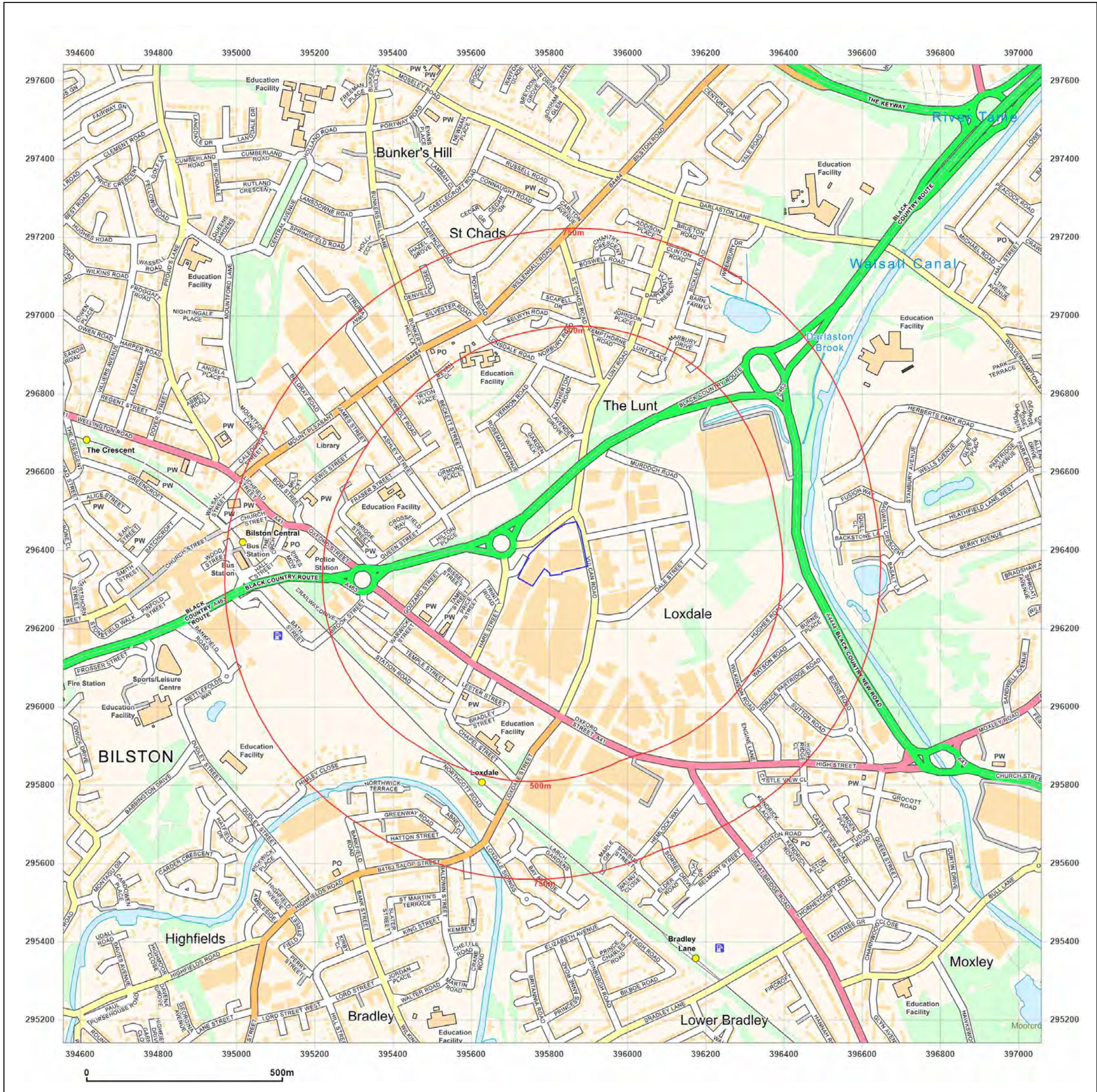
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APPENDIX 3 SITE PHOTOS



Plate 1 VIEW OF SITE SURFACING



Plate 2 MATERIAL INTAKE AREA



Plate 3 WASTE STORAGE AREA AND CLEAR DRAINS

