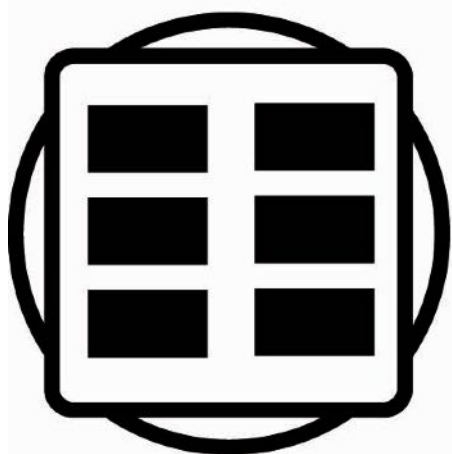




Mugen Geo Ltd.

PHASE 1 DESK STUDY & GEO-ENVIRONMENTAL APPRAISAL

**22 STATION ROAD
BATLEY
WF17 5SU**

Document Status: FINAL
Revision: v1

For
A Farooq
22 Station Road
Batley
WF17 5SU

Prepared by Mugen Geo Ltd
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Job No MGEO 2110 WF17 5SU.

Date: October 2021

Executive Summary and Conceptual Site Model

Site Setting	Client	A Farooq
	Site	22 Station Road Batley WF17 5SU
	Site Location	424826E 423822N
	Current Land Use & Development Proposal	The site was an irregular shaped parcel of land occupied by the existing properties at 22 Station Road near to the centre of Batley. It is planned to redevelop the existing building for residential use.
Conceptual Site Model Potential Pollutant Linkages	Site History	The site was developed with the existing buildings from at least 1894 when the existing site layout was marked as warehouses.
	Surrounding Area	The site was situated in Batley within an urban mixed residential and commercial setting.
	Geology	The British Geological Survey (BGS) 1:50,000 scale map solid & drift Digital Geological Map of Great Britain indicates the site is underlain by Thornhill Rock, a sandstone formed approximately 315 to 318 million years ago in the Carboniferous Period. These strata will weather to both cohesive and granular strata depending on the site aspect and local conditions.
	Hydrogeology	The aquifers within the bedrock deposits are designated as 'Secondary A'. These are described as permeable layers capable of supporting water supplies at a local rather than strategic scale, and a source of base flow to rivers.
	Possible pollutant linkages on undeveloped site determined from a desk study and site walkover	
	Preliminary Sources	The use of the site as warehouses and the mill warehouses and garage on surrounding land are considered potential sources of contamination.
	Preliminary Pathways	<ul style="list-style-type: none"> • Ingestion, inhalation or direct contact • Leaching through unsaturated zone • Direct contact with free phase or dissolved phase • Fugitive dust • Migration through Soils or groundwater to indoor air
	Potential Receptors	<ul style="list-style-type: none"> • Site Workers • End users of the site • Neighbours • Groundwater and possible abstractors or aquatic ecosystems • Building Products
	Summary Findings	Contamination - Based on the past history of the site the probability of contamination being present sufficient to affect the identified existing receptors is considered to be a low risk. The current uses of the site were considered to have been a low risk of causing pollution or transferring contaminants beyond the confines of the site. The future site usage as identified in the prepared development is likely to be low risk in the absence of a significant contamination source. Further investigation can be undertaken to reduce uncertainty and risk but ultimately these risks cannot be entirely eliminated. However, in commissioning further investigation the cost to benefit of doing so must be considered. It is not "suspected" that the site is contaminated to an extent that it could adversely affect the proposed development and / or create

		<p>new pollutant linkages. On this basis, an intrusive investigation in respect of contamination is considered not to be necessary. It is recommended that if, during formation of site levels and reprofiling, any suspicious or unusual odours, colours, liquids or soils are uncovered, these should be brought to the attention of Mugen Geo Ltd and appropriate advice sought.</p> <p>Radon - The site is within a Radon affected area, as between 5% and 10%% of homes are above the action level. Basic radon protective measures are necessary in the construction of new dwellings or extensions.</p>
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This is only a summary. The full report should be considered in its entirety.

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Appendix A – Site Location Plans

Appendix B – Environmental Dataset

Appendix C – Site Photographs

Note: This report has been formatted to be read as a PDF.

1 Introduction

Mugen Geo Ltd (Mugen Geo) was commissioned by A Farooq to carry out a Phase 1 preliminary ground investigation of '22 Station Road Batley WF17 5SU' (the site).

1.1 Scope and objective of the report

This report has been prepared in support of a planning application to form new dwellings.

This report has been developed with reference to the YALPAG Technical Guidance for Developers Landowners & Consultants 2020 (Ref 12), CLR11 (Ref. 1), and other best practice guidance cited at the end of this report.

The Phase 1 Preliminary Risk Assessment comprised a desk-based review of current and historical information, environmental, geological and hydrological information, together with the findings of a site walkover.

The simple purpose of this report is to identify the following (Ref: 13):

- Identify whether contaminative uses are/have potentially been present on/nearby the site
- Identify potential receptors
- Identify potential pathways
- Identify whether there are possible significant pollutant linkages
- Collect information for the Conceptual Site Model (CSM)
- Set the objectives for any site investigation (or state why none is required)

1.2 Information Sources

This report has been prepared from published information and information provided by the client and other parties, including anecdotal information.

The supplied regulatory data and historical OS maps obtained from Groundsure provide an environmental database that includes information from the following organisations:

- Environment Agency
- British Geological Survey
- Ordnance Survey
- Coal Authority
- Health Protection Agency
- Natural England
- Department for Environment, Food and Rural Affairs (DEFRA)

The study has not included checks on services on or adjacent to the site, and no structural, ecological or asbestos surveys have been carried out.

1.3 Limitations

This report has been prepared for the sole use and reliance of the Client named above and cannot be relied upon by any other parties without the express written authorisation of Mugen Geo Ltd. Any unauthorised third party relies on this report at their own risk and the authors owe them no duty of care.

Draft versions of this report cannot be relied upon and Mugen Geo Ltd accept no liability for decisions made based upon any draft versions circulated as part of project development. Please refer to the FINAL report only for decision making purposes.

The findings and opinions conveyed in this report is based on information obtained from sources which Mugen Geo Ltd believe are reliable. All reasonable endeavours have been made to source the information from reputable organisations; however, Mugen Geo Ltd accepts no responsibility for inaccuracies in the data supplied or for opinions based on any such inaccurate data. No attempt has been made to independently verify any data collected by others or from other sources. The Report does not constitute any legal advice. As such, the advice of a Solicitor may also be required.

The environmental dataset reports are based upon known, published information and may not comprise a complete record of all features of relevance. An explanation of the datasets used, their sources, assumed definitions and limitations is available on request.

Mugen Geo Ltd reserves the right to amend their conclusions and recommendations in the light of further information that may become available.

2 Site Location and Description

2.1 Site Location

The site was an irregular shaped parcel of land at 22 Station Road in Batley centre as shown in figures 1 & 2 and the site photos included as appendix B.

Site details are summarised in Table 2.1 below:

Detail	Remarks
Location	22 Station Road Batley WF17 5SU
NGR	424826E 423822N
Area	0.02 ha
Known services	Underground sewers, drainage, gas, electric, water cable/telecoms

Table 2.1 – Site Summary



Figure 1 – Extract of site location plan

2.2 General Description of Site

A site visit was undertaken by Mugen Geo on the 25th October 2021 to examine the current site condition. The immediate surroundings of the site were observed from public rights of way. No visual evidence of contamination was identified.

The site was occupied by the existing property. No evidence of Japanese Knotweed or other invasive species was identified during the site walkover, however, a detailed inspection of the fauna was not undertaken.



Figure 2 – Extract satellite image of site

2.3 Surrounding Area

The site was situated in Batley near to the town centre with both commercial and residential uses noted.

2.4 Site History

The historic development of the site and surrounding land has been summarised with reference to available map records. Historically, maps were updated at regular intervals, providing a record of site uses and changes in use over time, however, they only provide a 'snapshot' of land use at the time of the survey and activities that may have taken place between surveys is not known and in some cases sensitive information (such as military sites) would not be recorded.

The history of the site has been studied in order to identify any potential contaminative past uses of the site and immediate environs.

Date	Information Source	Land Use of Site	Land Use of Surroundings
1854	County Series 1:10,560 scale	The site was undeveloped.	Surrounding land was undeveloped. Road infrastructure was marked to the east and west of the site.

Date	Information Source	Land Use of Site	Land Use of Surroundings
1890-1894	County Series 1:10,560 scale 1:2,500 scale	The existing building is marked at the site and denoted as 'warehouses'.	Bottoms Mills is marked approximately 20m west of the site. Warehouses are marked to the north and south of the site. Batley Railway Station and a Good Shed is marked approximately 100m east of the site.
1905-1907	County Series 1:10,560 scale 1:2,500 scale	No significant changes noted.	No significant changes noted.
1922	County Series 1:10,560 scale 1:2,500 scale	No significant changes noted.	Warehouses are marked to the east of the site.
1931	County Series 1:10,560 scale	No significant changes noted.	No significant changes noted.
1933-1938	County Series 1:10,560 scale 1:2,500 scale	No significant changes noted.	No significant changes noted.
1948	County Series 1:10,560 scale	No significant changes noted.	No significant changes noted.
1955-1957	County Series 1:10,560 scale 1:2,500 scale	No significant changes noted.	No significant changes noted.
1966-1974	County Series 1:10,560 scale 1:2,500 scale	No significant changes noted.	No significant changes noted.
1975-1981	National Grid 1:1,250 scale 1:2,500 scale 1:10,000 scale	No significant changes noted.	The 'Cantiflex Works' and a Garage are marked approximately 100m south of the site.
1985-1990	National Grid 1:2,500 scale 1:10,000 scale	No significant changes noted.	No significant changes noted.
1987	National Grid 1:1,250 scale	No significant changes noted.	No significant changes noted.
1992-1995	National Grid 1:1,250 scale 1:2,500 scale 1:10,000 scale	No significant changes noted.	No significant changes noted.
2001-2003	Raster 1:1,250 scale 1:10,000 scale	No significant changes noted.	No significant changes noted.
2010	Raster 1:10,000 scale	No significant changes noted.	No significant changes noted.
2021	Raster 1:10,000 scale	No significant changes noted.	No significant changes noted.

Table 2.2 – Historic development of the site and its environs

3 Geo-environmental Setting

3.1 Geology

The British Geological Survey (BGS) 1:50,000 scale map solid & drift Digital Geological Map of Great Britain indicates the site is underlain by Thornhill Rock, a sandstone formed approximately 315 to 318 million years ago in the Carboniferous Period. These strata will weather to both cohesive and granular strata depending on the site aspect and local conditions.

3.1.1 Regional Setting

The area is part of the elevated moorland plateaux of Carboniferous rocks that form the central part of Britain and comprise thick sequences of sediments which have been incised by glacial and alluvial valleys.

The present-day topography was historically influenced and formed by numerous landslips which occurred across the Yorkshire following the Devensian glacial period approximately 10,000 years ago.

The maps indicate that the site area does not have a cover of superficial deposits. Alluvial materials are shown to be present approximately 100m to the south of the site. No made ground is shown to be present on the site.

3.1.2 BGS Borehole Viewer

The BGS has made available borehole records taken from the National Geoscience Data Centre and may be used for commercial purposes providing their source is identified. An inspection of the available borehole records did not identify any records in the vicinity of the site that add to the conceptual model.

3.2 GroundSure EnviroInsight Report

GroundSure's EnviroInsight report was obtained for the site and is included as part of appendix B. The reports are based on the British Geological Survey (BGS) geological maps, Environment Agency, GroundSure data and miscellaneous other geological and environmental sources.

The reports provide important geo-environmental data for the site and its surroundings and summarises details relating to the site that is useful for development purposes. Only issues that are significant or directly relevant to the conceptual model have been highlighted below for brevity but the data from the reports has been considered in their entirety.

3.2.1 Environmental Permits, Incidents & Registers

There were no historic IPC Authorisations within 50m of the study site.

There were no records of Part A(1) and IPPC Authorised Activities within 50m of the study site.

There were no Water Industry Referral (potentially harmful discharges to sewer) or Red List Discharge Consents record within 500m of the site.

There were no records of List 1 or List 2 Dangerous Substances Inventory Sites within 50m of the study site.

There were no Part A(2) and Part B Activities and Enforcements within 50m of the study site.

There were no records of Category 3 or 4 Radioactive Substance Licences within 50m of the study site

There were no Licensed Discharge Consents recorded within 50m to the site.

There were no Environment Agency recorded pollution incidents within 50m of the site.

There were no records of any sites determined as contaminated land under section 78R of the Environmental Protection Act 1990.

Environment Agency and Local Authority Data did not identify any other significant authorisations or licenses relevant to the site or within 250m of the site.

No Petrol Stations were recorded within 250m of the site.

3.2.2 Landfill and Other Waste Sites

Available records indicate there were no Environment Agency record of either active or historic landfills within 250m of the site.

There were no other EA records within 250m of the site.

No Local Authority Landfills were recorded within 500m from the site.

There were eight waste exemptions but these were all more than 100m from the site and considered not significant with respect to the development.

3.3 Radon

The site is within a Radon affected area, as between 5% and 10% of homes are above the action level. Basic radon protective measures are necessary in the construction of new dwellings or extensions.

3.4 Hydrogeology

Within all aquifers, groundwater tends to flow from areas where groundwater is recharged and follows the topography from elevated escarpments to lower slopes. Variation in groundwater flow directions can occur where local groundwater recharge is impacted by spatial differences in precipitation & surface infiltration rates.

The complexity of the regional fault system of the Carboniferous deposits in the area leads to significant spatial variability in the regional groundwater flow pattern and groundwater contour levels. Faulting can isolate blocks of rock and create new connexions affecting hydraulic conductivity at a local scale. It can also be impacted by coal mining and associated dewatering activities. Due to the complex hydrogeology, the whole sequence is considered in general terms as an aquifer.

Since April 2010, the Environment Agency's Groundwater Protection Policy has been using aquifer designations consistent with the Water Framework Directive.

The aquifers within the bedrock deposits are designated as 'Secondary A'. These are described as permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

Details provided by the Environment Agency indicate there to be no licensed surface water or groundwater abstraction points within 500m of the site.

There are no source protection zones within 250m of the site.

There were no groundwater or surface water abstraction licenses within 250m of the site.

3.5 Hydrology

3.5.1 Surface Waters

The nearest surface water feature was Batley Beck located 35m west of the site.

4 Preliminary Conceptual Site Model

4.1 Introduction

A Conceptual Site Model (CSM) is intended to provide a testable representation of the environmental processes on a site and in its vicinity. Its purpose is to identify potential contaminants, pathways & receptors with a view to identifying (initially) potential and (eventually) significant pollutant linkages (Ref. 13 CLM: Ready Reference 2007).

4.1.1 Legislative Background

In terms of the planning system the legislative approach taken has been that land affected by contamination must be made suitable for use if and when it is redeveloped, and as a minimum it cannot be "contaminated land" in terms of the "Part 2A" contaminated land regime once it has been redeveloped.

The contaminated land regime consists of three main elements: the 1990 Act, the Statutory Guidance, and the Contaminated Land Regulations 2006. Annex 3 gives a brief description. The Statutory Guidance is intended to explain key parts of the 1990 Act, and to set legally binding rules on how they should be applied by the regulator. Its main purpose is to:

- explain how local authorities should decide whether land is "contaminated land"
- explain how local authorities should go about implementing the regime
- explain how the regulator (i.e. the local authority or the Environment Agency in the case of "special sites") should ensure that remediation requirements are "reasonable"
- elaborate on specific aspects of the liability arrangements where more than one party is liable.

For planning purposes, the assessment of risks arising from contamination and remediation requirements should be considered on the basis of the current environmental setting, the current land use, and the circumstances of its proposed new use. The approach taken follows the risk-based tiered framework published by Defra and the Environment Agency in their guidance document "CLR 11 Model Procedures for the Management of Land Contamination" (Ref. 1).

The basis of CLR11 is the development of the conceptual site model and a CLEA (Contaminated Land Exposure Assessment) standard land use scenario (Ref.11) is usually applied to aid with the development of the linkages.

Fauna have not been considered as part of this assessment.

4.2 Preliminary Conceptual Site Model

Following the principles of CLR11 this assessment has been developed using desk study and site walkover information summarised in the preceding sections. The report therefore constitutes a Tier 1 risk assessment.

Based upon the available desk study and site walkover information and with reference to Environment Agency R&D Publication 66 (Ref. 2) a simplified preliminary conceptual site model has been developed. The aim is to identify potential sources of contamination, pathways and receptors that may exist and present a significant level of risk.

The scheme has been developed as residential use without private gardens. For the purposes of compiling the preliminary CSM the potential exposure pathways for human health have therefore been assumed to match the 'residential use without private gardens' Conceptual Exposure Model (CEM) as described in R&D Publication 66 (Ref.2).

An illustrative conceptual exposure model highlighting some of the pathways considered is provided below:

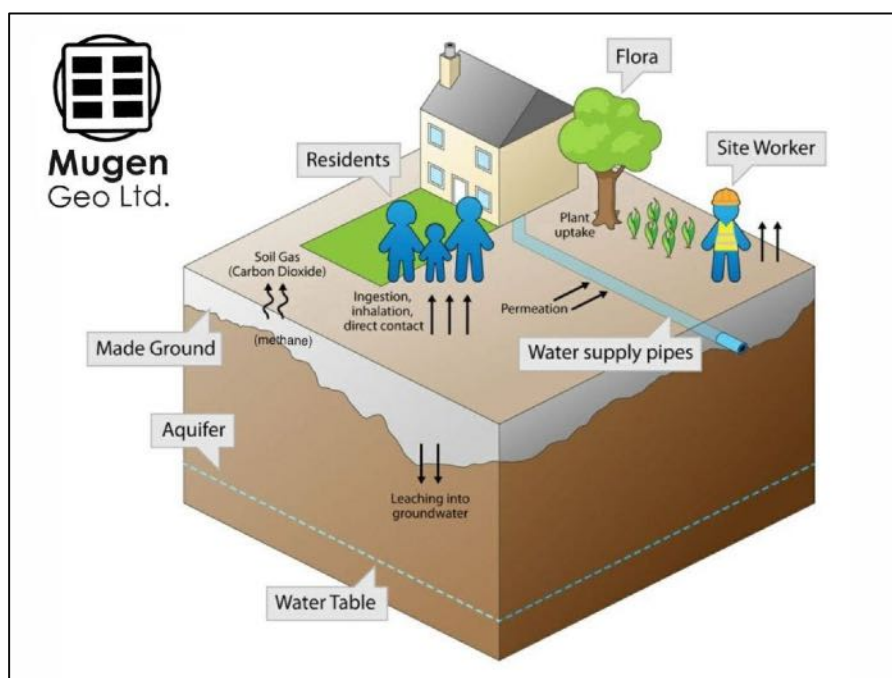


Figure 3 – Illustrative potential exposure pathways within the 'Conceptual Exposure model' (i.e. possible pollutant linkages)

4.3 Sources

The use of the site as warehouses and the mill warehouses and garage on surrounding land are considered potential sources of contamination.

4.4 Pathways

The following potential exposure pathways have been identified for human health receptors (refer to figure 3 above):

- Ingestion of soil and soil derived dust
- Ingestion of household dust
- Consumption of home-grown vegetables
- Ingestion of soil attached to vegetables
- Dermal contact with soil
- Dermal contact with household dust
- Inhalation of vapours indoors
- Inhalation of vapours outdoors

The following potential pathways have been identified for controlled waters:

- Leaching/migration of contaminants through soil
- Migration of impacted perched water or groundwater or surface water runoff.

The following pathways have been identified for buildings:

- Migration of ground-borne gases through permeable ground
- Direct contact of buildings with contaminated soil or impacted groundwater
- Migration of ground-borne gases and groundwater along preferential pathways e.g. Service trenches and entries to new structures and services.

4.5 Receptors

The following receptors have been identified:

- Site end users – future residents and visitors (public open space and private gardens)
- Construction / site investigation workers
- Adjacent residents
- Maintenance workers
- Controlled waters (groundwater)
- Buildings on site, both existing and planned and new services.

Potential off-site receptors include:

- Controlled waters (surface water and groundwater)
- Construction workers and regular workers on adjacent sites

-
- Occupiers, visitors and users of adjacent sites

Table 4.5 on the following pages comprises the preliminary CSM and summarises the potential pollutant linkages based on information collated and interpreted in this phase 1 assessment.

Source	Exposure Pathway	Receptor(s)	Probability	Consequence	Risk Level	Comments
Inorganic substances within Made Ground on site	Ingestion, inhalation or direct contact	Site Workers	Likely	Medium	Moderate	Made ground identified at the site. Site workers likely to be wearing appropriate PPE
	Ingestion, inhalation or direct contact	End users of the site	Likely	Medium	Moderate	Made ground identified at the site. End use will be for residential use.
	Inhalation of fugitive dust	Neighbours	Low likelihood	Medium	Low	No significant sources identified. Significant volumes of dust considered unlikely but demolition works should be conducted in a way that reduces dust production.
	Leaching through unsaturated zone	Groundwater and possible abstractors or aquatic ecosystems	Low likelihood	Medium	Low	No significant sources identified. Works unlikely to create significant new pathways for contaminant migration. Identified significant sources should be

Source	Exposure Pathway	Receptor(s)	Probability	Consequence	Risk Level	Comments
						removed or remediated.
Organic substances in Made Ground on site associated including:	Ingestion, inhalation or direct contact	Site Workers	Likely	Medium	Moderate	Made ground identified at the site. Site workers likely to be wearing appropriate PPE
Petroleum Hydrocarbons, Polynuclear Aromatic Hydrocarbons (PAH)	Ingestion, inhalation or direct contact	End users of the site	Likely	Medium	Moderate	Made ground identified at the site. End use will be for residential use.
VOC's & SVOC's	Inhalation of fugitive dust.	Neighbours	Low likelihood	Medium	Low	No significant sources identified. Significant volumes of dust considered unlikely but demolition works should be conducted in a way that reduces dust production.
	Leaching through unsaturated zone	Groundwater and possible abstractors or aquatic ecosystems	Low likelihood	Medium	Low	Works unlikely to create significant new pathways for contaminant migration.
Asbestos fibres from asbestos containing	Fugitive dust	Site Workers	Low likelihood	Medium	Low	No significant sources identified.
		End users of the site	Low likelihood	Medium	Low	

Source	Exposure Pathway	Receptor(s)	Probability	Consequence	Risk Level	Comments
materials within Made Ground		Neighbours	Low likelihood	Medium	Low	No significant sources identified.
Ground Gas (methane & carbon Dioxide) from Made Ground/ organic sources	Migration through Soils or groundwater to indoor air	End users of new buildings (asphyxiation or explosion)	Low likelihood	Medium	Low	No significant sources identified.
		Users of off-site properties (asphyxiation or explosion)	Low likelihood	Medium	Low	
		New buildings (damage by explosion)	Low likelihood	Medium	Low	
		Neighbouring properties (damage by explosion)	Low likelihood	Medium	Low	

4.6 Qualitative Risk Assessment

The assessment of risk is defined in the Environment Agency & NHBC joint guidance publication R&D66 (Ref.2) as being a consideration of both:

- The likelihood of an event (probability) [taking account of both the presence of the hazard and receptor and the integrity of the pathway]; and
- The severity of the potential consequence [taking account of both the potential severity of the hazard and the sensitivity of the receptor].

4.6.1 Preliminary Assessment

With any site, the possibility of unidentified contamination being present cannot be entirely excluded. Ground contamination remains a material planning consideration. Local planning authorities must take account of such issues in determining applications for planning permission. In addition, building work is regulated under the Building Regulations 1991. Schedule 1 (Ref. 8) requires 'precautions shall be taken to avoid danger to health and safety caused by substances found on, or in the ground covered by the building'.

The use of the site as warehouses and the mill warehouses and garage on surrounding land are considered potential sources of contamination. Based on the past history of the site the probability of contamination being present sufficient to affect the identified existing receptors is considered to be a low risk. The current uses of the site were considered to have been a low risk of causing pollution or transferring contaminants beyond the confines of the site.

The future site usage as identified in the prepared development is likely to be low risk in the absence of a significant contamination source as identified in table 4.5 above. Hard standing and a shared landscaped area should minimise any potential pathways.

Further investigation can be undertaken to reduce uncertainty and risk but ultimately these risks cannot be entirely eliminated. However, in commissioning further investigation the cost to benefit of doing so must be considered. It is not "suspected" that the site is contaminated to an extent that it could adversely affect the proposed development and / or create new pollutant linkages. On this basis, an intrusive investigation in respect of contamination is considered not to be necessary.

It is recommended that if, during formation of site levels and reprofiling, any suspicious or unusual odours, colours, liquids or soils are uncovered, these should be brought to the attention of Mugen Geo Ltd and appropriate advice sought.

4.6.1.1 Ground Gas Risk

The risks associated with the ground gases methane (CH₄) and carbon dioxide (CO₂) have been assessed with reference to BS 8485:2015 (Ref. 14) and guidelines from CIRIA 665 and the NHBC.

Current UK best practice guidance considers ground gas assessment and characterisation for a site separately for different types of development. Two situations are identified in assessment:

- 'Situation A' covers all forms of development (residential and industrial/commercial developments), other than low rise residential development; and
- 'Situation B' is defined as the specific development of low-rise (one to three storeys in height) housing with beam and block floors, vented sub-floor void and gardens.

The development is classified as characteristic Situation B.

Based upon available records the gas generation potential at the site considered very low. For the proposed development no ground gas monitoring or protection measures are required -subject to confirmation of the ground model.

5 References

1. Department of the Environment, Transport and the Regions and Environment Agency, Model Procedures for the Management of Land Contamination. Contaminated Land Report 11.
2. EA and NHBC 2000. Guidance for the Safe Development of Housing on Land Affected by Contamination, R&D Publication 66.
3. Department of the Environment, Transport and the Regions, Environment Agency and Institute of Environmental Health. Guidelines for Environmental Risk Assessment and Management. HMSO July 2000.
4. Construction Industry Research and Information Association (CIRIA). Contaminated Land Risk Assessment. A Guide to Good Practice. CIRIA C552 2001.
5. DoE, 1995 Industry Profiles.
6. EA, 2003b Consultation on Agency Policy: Building Development on or within 250m of a landfill site.
7. OPDM Planning Policy Statement 23: Planning and Pollution Control. Annex 2 Development on Land Affected by Contamination.
8. Approved Document C – Site Preparation and Resistance to Contaminants and Moisture (Relating to Building Regulations 2000 (SI 2000/2531).
9. BSI, 2011 Investigation of Potentially Contaminated Sites, Code of Practice, BS: 10175.
10. EA, 2001 Secondary Model Procedure for the Development of Appropriate Soil Sampling Strategies for Land Contamination.
11. Environment Agency 2009: Updated technical background to the CLEA model Science report SC050021/SR3, Bristol, Environment Agency
12. Yorkshire & Lincolnshire Pollution Advisory Group 2020. Development on Land Affected by Contamination - Technical Guidance for Developers Landowners & Consultants.
13. LQM 2007 Contaminated Land Management: Ready Reference 2007
14. A geological background for planning and development in the City of Bradford Metropolitan District. Vol. 1: A guide to the use of earth science information in planning and development. Technical Report WA/96/1 British Geological Survey.

APPENDIX A
SITE LOCATION PLAN



EXTRACT LOCATION PLAN
[Not to scale]

↑
NORTH

APPENDIX B
ENVIRONMENTAL DATASET

22, STATION ROAD, BATLEY, WF17 5SU

Order Details

Date: 21/10/2021
Your ref: 2110__WF17_5SU
Our Ref: GS-8279854
Client: Mugen Geo Ltd

Site Details

Location: 424826 423822
Area: 0.02 ha
Authority: [Kirklees Council](#)



Summary of findings

p. 2 **Aerial image**

p. 8

OS MasterMap site plan

p.11 groundsure.com/insightuserguide

Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
12	1.1	Historical industrial land uses	1	7	74	92	-
19	1.2	Historical tanks	0	0	12	140	-
25	1.3	Historical energy features	0	0	8	53	-
27	1.4	Historical petrol stations	0	0	0	0	-
27	1.5	Historical garages	0	0	9	20	-
29	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
30	2.1	Historical industrial land uses	1	11	104	136	-
40	2.2	Historical tanks	0	0	20	254	-
50	2.3	Historical energy features	0	0	26	109	-
55	2.4	Historical petrol stations	0	0	0	0	-
55	2.5	Historical garages	0	0	16	37	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
58	3.1	Active or recent landfill	0	0	0	0	-
58	3.2	Historical landfill (BGS records)	0	0	0	0	-
59	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
59	3.4	Historical landfill (EA/NRW records)	0	0	0	2	-
59	3.5	Historical waste sites	0	0	5	8	-
61	3.6	Licensed waste sites	0	0	3	1	-
63	3.7	Waste exemptions	0	0	13	11	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
65	4.1	Recent industrial land uses	0	0	31	-	-
67	4.2	Current or recent petrol stations	0	0	0	0	-
67	4.3	Electricity cables	0	0	0	0	-
68	4.4	Gas pipelines	0	0	0	0	-
68	4.5	Sites determined as Contaminated Land	0	0	0	0	-



68	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	0	1	-
68	4.7	Regulated explosive sites	0	0	0	0	-
69	4.8	Hazardous substance storage/usage	0	0	0	0	-
69	4.9	<u>Historical licensed industrial activities (IPC)</u>	0	0	0	7	-
70	4.10	<u>Licensed industrial activities (Part A(1))</u>	0	0	0	3	-
71	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	1	3	-
71	4.12	Radioactive Substance Authorisations	0	0	0	0	-
71	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	1	7	-
73	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
73	4.15	Pollutant release to public sewer	0	0	0	0	-
73	4.16	List 1 Dangerous Substances	0	0	0	0	-
73	4.17	<u>List 2 Dangerous Substances</u>	0	0	1	1	-
74	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	0	5	5	-
75	4.19	Pollution inventory substances	0	0	0	0	-
75	4.20	Pollution inventory waste transfers	0	0	0	0	-
76	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
77	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
78	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
80	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
81	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
81	5.5	Groundwater vulnerability- local information	None (within 0m)				
82	5.6	<u>Groundwater abstractions</u>	0	0	0	0	12
85	5.7	<u>Surface water abstractions</u>	0	0	0	1	0
86	5.8	Potable abstractions	0	0	0	0	0
86	5.9	Source Protection Zones	0	0	0	0	-
86	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
87	6.1	<u>Water Network (OS MasterMap)</u>	0	2	9	-	-

88	<u>6.2</u>	<u>Surface water features</u>	0	1	4	-	-
89	<u>6.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
89	<u>6.4</u>	<u>WFD Surface water bodies</u>	0	1	0	-	-
90	<u>6.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
91	<u>7.1</u>	<u>Risk of flooding from rivers and the sea</u>	Medium (within 50m)				
92	7.2	Historical Flood Events	0	0	0	-	-
92	7.3	Flood Defences	0	0	0	-	-
92	<u>7.4</u>	<u>Areas Benefiting from Flood Defences</u>	0	0	8	-	-
93	7.5	Flood Storage Areas	0	0	0	-	-
94	<u>7.6</u>	<u>Flood Zone 2</u>	Identified (within 50m)				
95	<u>7.7</u>	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
96	<u>8.1</u>	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
98	<u>9.1</u>	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
99	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
100	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
100	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
100	10.4	Special Protection Areas (SPA)	0	0	0	0	0
100	10.5	National Nature Reserves (NNR)	0	0	0	0	0
101	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
101	<u>10.7</u>	<u>Designated Ancient Woodland</u>	0	0	0	0	2
101	10.8	Biosphere Reserves	0	0	0	0	0
101	10.9	Forest Parks	0	0	0	0	0
102	10.10	Marine Conservation Zones	0	0	0	0	0
102	<u>10.11</u>	<u>Green Belt</u>	0	0	0	0	4
102	10.12	Proposed Ramsar sites	0	0	0	0	0



102	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
103	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
103	10.15	Nitrate Sensitive Areas	0	0	0	0	0
103	10.16	<u>Nitrate Vulnerable Zones</u>	0	0	0	0	1
104	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
105	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
106	11.1	World Heritage Sites	0	0	0	-	-
107	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
107	11.3	National Parks	0	0	0	-	-
107	11.4	<u>Listed Buildings</u>	0	5	9	-	-
108	11.5	<u>Conservation Areas</u>	1	0	0	-	-
108	11.6	Scheduled Ancient Monuments	0	0	0	-	-
109	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
110	12.1	<u>Agricultural Land Classification</u>	Urban (within 250m)				
111	12.2	Open Access Land	0	0	0	-	-
111	12.3	Tree Felling Licences	0	0	0	-	-
111	12.4	Environmental Stewardship Schemes	0	0	0	-	-
111	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
112	13.1	<u>Priority Habitat Inventory</u>	0	0	2	-	-
113	13.2	Habitat Networks	0	0	0	-	-
113	13.3	<u>Open Mosaic Habitat</u>	0	0	1	-	-
113	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
114	14.1	<u>10k Availability</u>	Identified (within 500m)				
115	14.2	<u>Artificial and made ground (10k)</u>	0	2	3	10	-
117	14.3	<u>Superficial geology (10k)</u>	0	1	0	0	-

118	14.4	Landslip (10k)	0	0	0	0	-
119	14.5	<u>Bedrock geology (10k)</u>	1	0	8	8	-
120	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	5	7	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
122	15.1	<u>50k Availability</u>	Identified (within 500m)				
123	15.2	<u>Artificial and made ground (50k)</u>	0	1	0	2	-
124	15.3	<u>Artificial ground permeability (50k)</u>	0	1	-	-	-
125	15.4	<u>Superficial geology (50k)</u>	0	1	0	0	-
126	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
126	15.6	Landslip (50k)	0	0	0	0	-
126	15.7	Landslip permeability (50k)	None (within 50m)				
127	15.8	<u>Bedrock geology (50k)</u>	1	0	4	6	-
128	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
128	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	3	4	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
130	16.1	<u>BGS Boreholes</u>	0	0	27	-	-
Page	Section	Natural ground subsidence					
132	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
133	17.2	<u>Running sands</u>	Very low (within 50m)				
135	17.3	<u>Compressible deposits</u>	Very low (within 50m)				
137	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
138	17.5	<u>Landslides</u>	Very low (within 50m)				
139	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
141	18.1	Natural cavities	0	0	0	0	-
142	18.2	<u>BritPits</u>	0	0	0	2	-
142	18.3	<u>Surface ground workings</u>	0	0	5	-	-
143	18.4	<u>Underground workings</u>	0	0	0	0	10
143	18.5	Historical Mineral Planning Areas	0	0	0	0	-



143	18.6	Non-coal mining	0	0	0	0	0
144	18.7	Mining cavities	0	0	0	0	0
144	18.8	JPB mining areas	None (within 0m)				
144	18.9	<u>Coal mining</u>	Identified (within 0m)				
144	18.10	Brine areas	None (within 0m)				
145	18.11	Gypsum areas	None (within 0m)				
145	18.12	Tin mining	None (within 0m)				
145	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
146	19.1	<u>Radon</u>	Between 5% and 10% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
147	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	1	-	-	-
147	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
147	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
148	21.1	Underground railways (London)	0	0	0	-	-
148	21.2	Underground railways (Non-London)	0	0	0	-	-
149	21.3	Railway tunnels	0	0	0	-	-
149	21.4	<u>Historical railway and tunnel features</u>	0	0	66	-	-
151	21.5	Royal Mail tunnels	0	0	0	-	-
152	21.6	<u>Historical railways</u>	0	0	2	-	-
152	21.7	<u>Railways</u>	0	0	7	-	-
152	21.8	Crossrail 1	0	0	0	0	-
153	21.9	Crossrail 2	0	0	0	0	-
153	21.10	HS2	0	0	0	0	-



Recent aerial photograph

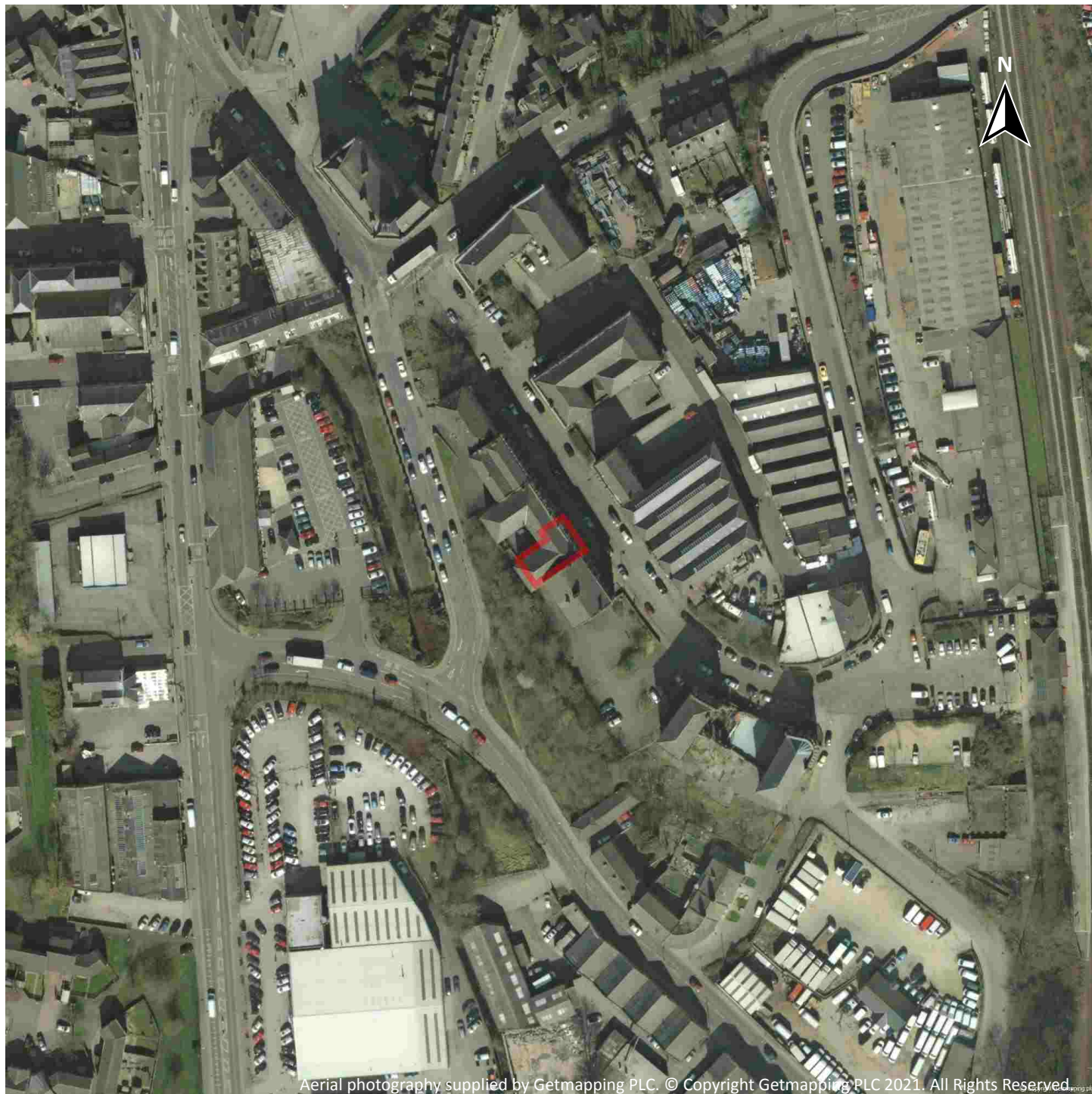


Capture Date: 01/07/2018

Site Area: 0.02ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.02ha



Recent site history - 1999 aerial photograph



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Capture Date: 10/07/1999

Site Area: 0.02ha



OS MasterMap site plan

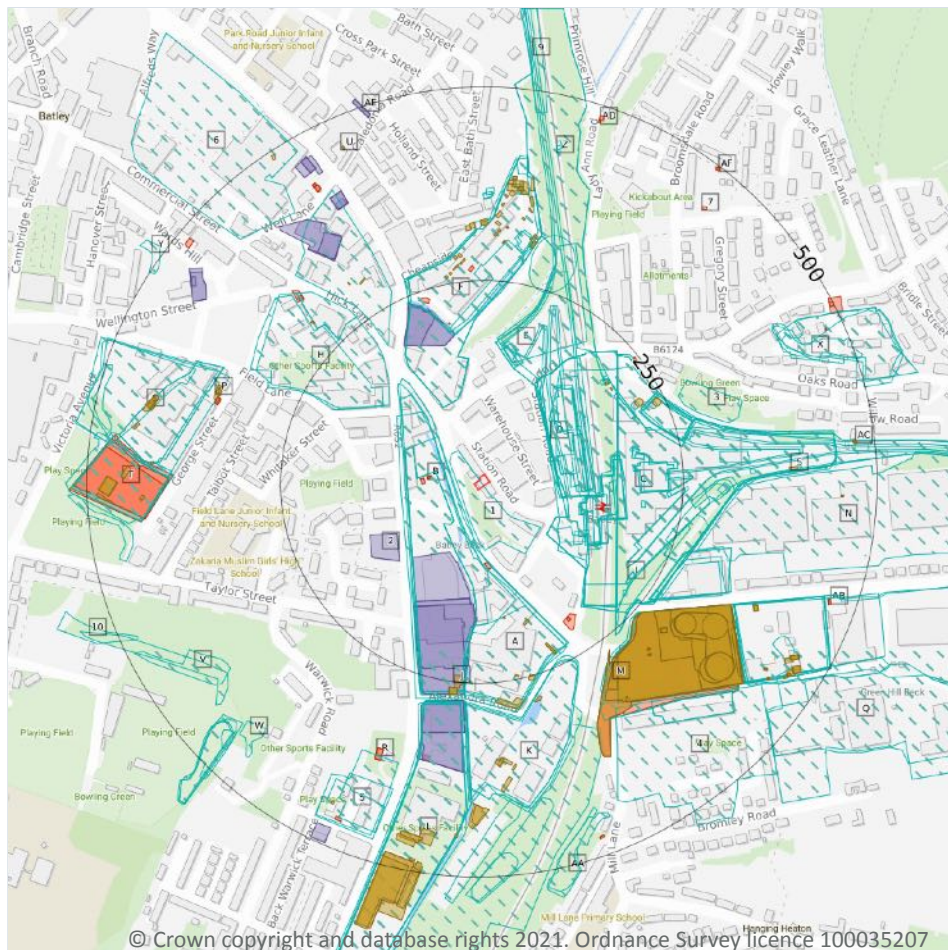


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Site Area: 0.02ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

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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 12**

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Mills	1892	1419262



ID	Location	Land use	Dates present	Group ID
A	25m W	Unspecified Mills	1974 - 1988	1485258
A	27m W	Unspecified Mills	1967	1545833
A	32m W	Unspecified Commercial/Industrial	1948	1552046
A	32m W	Unspecified Mills	1892	1504230
A	33m W	Unspecified Commercial/Industrial	1905 - 1931	1495214
A	41m W	Unspecified Works	1981 - 1988	1498449
A	41m W	Unspecified Mills	1974	1554235
C	82m E	Railway Sidings	1892	1502651
D	82m E	Railway Building	1892	1460859
E	83m E	Railway Sidings	1948	1521812
C	85m E	Railway Sidings	1948	1528485
D	86m E	Unspecified Industrial/Commercial	1931	1443827
E	86m E	Railway Sidings	1931	1475857
C	86m E	Railway Sidings	1931	1459157
C	86m E	Railway Sidings	1905	1521857
C	87m E	Railway Sidings	1971 - 1974	1498050
C	87m E	Railway Sidings	1955 - 1957	1522408
D	87m E	Railway Sidings	1981	1505073
D	87m E	Railway Sidings	1967	1554869
D	92m E	Railway Building	1931	1491428
D	93m E	Railway Building	1948	1493152
F	101m NW	Unspecified Mills	1981 - 1988	1458880
F	101m NW	Unspecified Commercial/Industrial	1974	1480165
F	101m NW	Unspecified Mills	1967	1542985
D	104m E	Railway Building	1948 - 1974	1507690
C	106m SE	Railway Station	1892	1482797
D	108m E	Railway Building	1905	1483121
D	113m E	Railway Building	1892	1547450



ID	Location	Land use	Dates present	Group ID
C	118m E	Railway Station	1948	1471201
D	120m NE	Railway Building	1981 - 1988	1548332
C	120m E	Railway Station	1931	1483351
C	121m E	Railway Station	1905 - 1931	1502303
C	122m E	Railway Station	1955	1550662
C	126m E	Radar Station	1967	1448410
C	126m E	Railway Station	1974	1546530
C	127m SE	Railway Building	1955	1429154
C	134m E	Railway Station	1981 - 1988	1495628
G	142m N	Railway Building	1905 - 1931	1548807
G	146m N	Railway Building	1967 - 1988	1474722
E	148m N	Railway Sidings	1955 - 1967	1555835
G	148m N	Railway Building	1955	1462572
H	149m NW	Unspecified Mills	1974 - 1988	1525128
H	154m NW	Unspecified Commercial/Industrial	1905 - 1931	1520477
A	161m S	Unspecified Mills	1892	1471432
C	162m E	Railway Building	1892	1429155
C	165m E	Unspecified Works	1971	1438265
C	165m E	Unspecified Commercial/Industrial	1992	1512060
F	184m N	Unspecified Disused Mills	1892	1456873
F	184m N	Unspecified Commercial/Industrial	1905 - 1931	1466332
C	186m E	Railway Buildings	1931	1481996
C	186m E	Goods Shed	1948	1509606
C	188m E	Railway Buildings	1948	1553490
C	188m E	Goods Shed	1931	1496268
C	189m E	Railway Building	1892 - 1905	1539884
F	189m N	Unspecified Industrial/Commercial	1931	1443826
C	190m E	Railway Building	1905	1429157



ID	Location	Land use	Dates present	Group ID
C	190m NE	Unspecified Tank	1948	1462279
C	191m E	Railway Buildings	1957	1553758
C	194m NE	Unspecified Tank	1931	1496099
C	195m NE	Railway Buildings	1905 - 1931	1540639
C	195m NE	Railway Building	1905	1429156
C	197m E	Railway Building	1905	1429158
C	203m SE	Railway Sidings	1948	1504497
C	206m E	Railway Sidings	1931	1473776
H	207m NW	Unspecified Commercial/Industrial	1931	1410951
C	207m NE	Unspecified Tank	1992	1433523
C	213m NE	Goods Shed	1948	1479859
C	215m NE	Railway Building	1892 - 1905	1480263
C	215m NE	Goods Shed	1931	1543478
I	217m SE	Railway Building	1931	1546848
I	218m SE	Railway Building	1948	1521978
C	218m NE	Railway Building	1957	1518135
I	222m SE	Railway Building	1905	1429152
I	224m SE	Unspecified Ground Workings	1992	1414246
C	228m NE	Unspecified Tank	1992	1433522
C	239m E	Cuttings	1892	1499778
K	241m SE	Unspecified Mills	1981 - 1988	1476059
C	244m SE	Cuttings	1957	1509104
K	245m SE	Unspecified Commercial/Industrial	1905 - 1931	1486484
F	247m N	Unspecified Tanks	1931	1425855
K	248m SE	Unspecified Mills	1892	1463089
I	254m SE	Unspecified Commercial/Industrial	1948	1506750
H	254m NW	Unspecified Works	1974 - 1988	1550540
I	255m SE	Boiler Works	1948	1435345



ID	Location	Land use	Dates present	Group ID
I	256m SE	Unspecified Commercial/Industrial	1957	1492409
I	256m SE	Railway Building	1905	1429153
C	256m SE	Boiler Works	1948	1540254
I	257m SE	Unspecified Commercial/Industrial	1931	1461193
C	257m SE	Boiler Works	1931	1505058
I	259m SE	Gas Works	1892 - 1905	1534198
I	260m SE	Unspecified Works	1980 - 1992	1501574
I	260m SE	Unspecified Works	1971	1526146
C	261m E	Unspecified Ground Workings	1992	1414248
C	262m SE	Unspecified Commercial/Industrial	1957 - 1992	1464218
C	267m SE	Boiler Works	1931	1528568
3	267m NE	Unspecified Heap	1957	1417466
L	275m S	Unspecified Commercial/Industrial	1974	1510990
L	275m S	Sewage Works	1955 - 1967	1523933
L	275m S	Sewage Works	1981 - 1988	1532336
L	276m S	Sewage Works	1931	1504808
L	278m S	Sewage Works	1948	1550065
L	278m S	Sewage Works	1905 - 1931	1535489
N	282m E	Unspecified Warehouses	1980 - 1992	1499952
F	289m N	Unspecified Tanks	1948	1541164
I	290m SE	Unspecified Tanks	1948	1557239
F	291m N	Unspecified Tanks	1931	1464803
I	292m SE	Unspecified Tanks	1931	1481095
I	293m SE	Unspecified Tanks	1948	1503110
I	293m SE	Unspecified Tanks	1931	1511514
C	294m E	Railway Building	1905 - 1931	1497486
I	296m SE	Unspecified Tank	1957 - 1992	1473466
I	297m SE	Gasometer	1905	1420679



ID	Location	Land use	Dates present	Group ID
F	298m N	Unspecified Tanks	1948 - 1955	1557645
C	299m E	Railway Building	1892 - 1905	1460796
I	300m SE	Gasometers	1892	1418503
L	325m S	Railway Sidings	1905	1409359
I	327m SE	Gasometer	1905	1420678
I	327m SE	Unspecified Tank	1957	1433524
4	333m SE	Unspecified Commercial/Industrial	1957	1463416
C	337m E	Railway Building	1948	1429159
O	345m NW	Unspecified Commercial/Industrial	1948	1472739
I	350m SE	Dye Works	1948	1482382
I	352m SE	Dye Works	1931	1530249
Q	353m SE	Unspecified Mills	1971 - 1992	1542563
I	353m SE	Unspecified Disused Mills	1931	1456872
I	353m SE	Unspecified Mills	1892 - 1905	1473167
I	353m SE	Dye Works	1948	1486413
Q	355m SE	Unspecified Mills	1971 - 1980	1522264
F	355m N	Unspecified Tanks	1948	1525907
F	356m N	Unspecified Tanks	1931	1484636
O	357m NW	Unspecified Mill	1974 - 1988	1462642
O	357m NW	Unspecified Mills	1967	1554914
I	360m SE	Unspecified Tank	1957 - 1992	1513985
I	361m SE	Gasometer	1892 - 1905	1532084
F	361m N	Unspecified Tanks	1955	1507951
O	361m NW	Unspecified Commercial/Industrial	1905 - 1931	1550489
F	364m N	Unspecified Tanks	1948	1529040
F	365m N	Unspecified Tanks	1931	1469133
S	367m S	Unspecified Commercial/Industrial	1905	1410952
T	388m W	Unspecified Depot	1967 - 1981	1516212



ID	Location	Land use	Dates present	Group ID
O	388m W	Unspecified Mills	1892	1472400
T	390m W	Unspecified Works	1988	1438266
V	394m SW	Unspecified Ground Workings	1931	1490407
T	394m W	Electricity Works	1905	1414969
T	394m W	Unspecified Commercial/Industrial	1931	1474655
S	400m S	Unspecified Mills	1967 - 1988	1536499
V	401m SW	Unspecified Ground Workings	1967 - 1974	1481443
L	402m S	Refuse Heap	1905	1436687
L	406m S	Unspecified Heap	1931	1503005
W	412m SW	Unspecified Quarry	1905	1427948
X	414m NE	Unspecified Disused Quarry	1948	1504224
X	415m NE	Unspecified Disused Quarry	1931	1518603
S	416m SW	Unspecified Mill	1892	1421610
X	416m NE	Unspecified Disused Quarry	1905 - 1931	1540612
6	417m NW	Unspecified Commercial/Industrial	1931	1410955
X	419m NE	Unspecified Quarry	1892	1427970
I	421m SE	Refuse Heap	1905	1436688
Z	422m N	Railway Building	1905	1519903
W	428m SW	Unspecified Heap	1967 - 1974	1472817
Z	429m N	Railway Building	1955	1554629
W	433m SW	Unspecified Heap	1948 - 1955	1557982
AA	436m S	Unspecified Pit	1905	1452089
W	440m SW	Unspecified Heap	1931	1524754
W	442m SW	Unspecified Heap	1948	1520168
W	445m SW	Unspecified Quarry	1905	1427950
AA	445m S	Unspecified Ground Workings	1892	1414244
T	446m W	Unspecified Ground Workings	1967	1412346
8	463m SE	Unspecified Mills	1992	1467174



ID	Location	Land use	Dates present	Group ID
L	471m S	Unspecified Heap	1948	1475294
9	472m N	Railway Sidings	1948	1525099
O	474m W	Unspecified Ground Workings	1967 - 1974	1465584
10	477m SW	Unspecified Ground Workings	1931	1511516
Y	493m NW	Unspecified Ground Workings	1967 - 1981	1543651

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

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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 12**

ID	Location	Land use	Dates present	Group ID
A	168m S	Unspecified Tank	1894	223857
A	179m S	Unspecified Tank	1922	223856
C	194m NE	Unspecified Tank	1922	223859
C	196m NE	Unspecified Tank	1939	223858
F	198m N	Unspecified Tank	1977	223835
C	213m NE	Unspecified Tank	1987 - 1995	236455
A	217m SE	Unspecified Tank	1907	223855
A	217m SE	Tanks	1922 - 1938	242128
C	234m NE	Unspecified Tank	1987 - 1995	240074
J	241m S	Unspecified Tank	1907	239205
A	243m S	Unspecified Tank	1955 - 1966	239328
A	247m S	Tanks	1907	230651
I	256m SE	Gas Works	1893 - 1955	245782



ID	Location	Land use	Dates present	Group ID
F	257m N	Unspecified Tank	1922	223837
J	257m S	Unspecified Tank	1907 - 1938	243457
J	257m S	Tanks	1922 - 1933	243816
I	258m SE	Gas Works	-	222666
I	258m SE	Gas Works	-	222804
I	258m SE	Gas Works	1956 - 1966	245226
F	261m N	Unspecified Tank	1907	223836
F	266m N	Unspecified Tank	1933	223839
A	270m S	Unspecified Tank	1894	223843
I	270m SE	Gas Depot	1987	233343
F	273m N	Unspecified Tank	1955 - 1977	245101
A	277m S	Unspecified Tank	1922 - 1938	236209
M	279m SE	Gas Works	1955	243575
F	280m N	Unspecified Tank	1933	223838
F	281m N	Unspecified Tank	1955 - 1977	246837
I	286m SE	Gasholder Station	1968	230062
I	290m SE	Unspecified Tank	1955 - 1966	242643
I	291m SE	Unspecified Tank	-	222586
I	291m SE	Unspecified Tank	-	222589
H	292m NW	Unspecified Tank	1977 - 1999	236688
H	293m NW	Unspecified Tanks	1907	233120
I	296m SE	Unspecified Tank	1955	246770
I	296m SE	Unspecified Tank	-	222664
I	296m SE	Unspecified Tank	-	222801
I	296m SE	Tanks	1933 - 1938	234085
I	296m SE	Gasometers	1893 - 1922	240445
I	296m SE	Unspecified Tank	1956 - 1966	233504
F	297m N	Unspecified Tanks	1922	233156

ID	Location	Land use	Dates present	Group ID
I	297m SE	Gasometers	1955	237418
I	297m SE	Gasometer	1987	247585
I	298m SE	Gasholder	1968	230028
I	298m SE	Gasometers	-	222587
I	298m SE	Gasometers	-	222753
F	299m N	Tanks	1955	247699
I	299m SE	Gasometer	1956 - 1966	246677
F	299m N	Tanks	1955 - 1969	240963
H	300m NW	Unspecified Tank	1922	244239
H	301m NW	Unspecified Tank	1933	236073
I	302m SE	Unspecified Tank	1955 - 1966	237007
I	302m SE	Unspecified Tank	-	222503
I	302m SE	Unspecified Tank	-	222748
F	307m N	Unspecified Tank	1955 - 1969	246950
F	310m N	Unspecified Tank	1955 - 1969	242284
F	315m N	Unspecified Tank	1922 - 1933	250333
F	318m N	Unspecified Tank	1955 - 1969	235841
F	319m N	Unspecified Tank	1955	234691
F	319m N	Unspecified Tank	1955	243760
F	319m N	Unspecified Tank	1969	244892
F	321m N	Tanks	1955	238246
F	321m N	Tanks	1955 - 1969	248414
F	321m N	Unspecified Tank	1907	223884
M	329m SE	Unspecified Tank	1893 - 1987	241197
I	329m SE	Gasometer	1956 - 1966	247271
F	331m N	Unspecified Tank	1955 - 1969	241929
F	332m N	Unspecified Tank	1907	223883
F	343m N	Unspecified Tank	1955 - 1969	234815



ID	Location	Land use	Dates present	Group ID
K	346m S	Tanks	1922 - 1938	241950
P	347m W	Unspecified Tanks	1922	233118
F	347m N	Unspecified Tank	1922 - 1933	243988
P	347m W	Unspecified Tank	1933	223830
K	347m S	Tanks	1907	234988
P	350m W	Tanks	1972 - 1995	242871
F	351m N	Unspecified Tank	1922 - 1933	246358
K	357m S	Tanks	1922	230652
F	358m N	Unspecified Tank	1922 - 1933	243318
I	359m SE	Gasometer	1893 - 1922	234113
I	359m SE	Unspecified Tank	1933 - 1938	249520
F	360m N	Tanks	1955 - 1969	243159
I	362m SE	Gasholder	1968	230027
I	363m SE	Gasometer	1956 - 1966	235379
F	365m N	Tanks	1955 - 1969	246869
I	365m SE	Unspecified Tank	1907	223854
F	367m N	Unspecified Tanks	1922	245233
F	369m N	Unspecified Tanks	1933	239489
F	371m N	Unspecified Tank	1955 - 1969	238429
F	372m N	Tanks	1955	230654
K	373m S	Tanks	1922 - 1938	235156
F	373m N	Tanks	1955 - 1969	235025
I	375m SE	Tanks	1955 - 1966	235506
I	376m SE	Tanks	-	222800
I	376m SE	Tanks	-	222803
F	376m N	Unspecified Tank	1922 - 1933	247860
F	382m N	Tanks	1955	230653
F	382m N	Unspecified Tank	1955 - 1969	242658



ID	Location	Land use	Dates present	Group ID
5	387m E	Tanks	1987 - 1995	246160
L	406m S	Humus Tanks	1933 - 1938	245797
L	407m S	Humus Tank	1955 - 1966	241014
T	415m W	Unspecified Tank	1955 - 1995	239379
O	422m W	Tanks	1985 - 1995	249872
O	422m W	Tanks	1955 - 1972	247710
O	424m W	Unspecified Tanks	1922 - 1933	238920
O	424m W	Unspecified Tanks	1907	239783
T	426m W	Unspecified Tank	1933	223829
I	428m SE	Unspecified Tank	1955 - 1966	235503
I	429m SE	Unspecified Tank	-	222669
I	429m SE	Unspecified Tank	-	222749
I	438m SE	Unspecified Tank	1955	240123
O	439m W	Unspecified Tanks	1894	233110
I	439m SE	Unspecified Tank	1956	235544
I	439m SE	Unspecified Tank	1966	238252
I	439m SE	Unspecified Tank	-	222534
I	439m SE	Unspecified Tank	-	222750
L	443m S	Humus Tanks	1933 - 1938	240991
I	443m SE	Tanks	1922 - 1933	237998
S	444m SW	Unspecified Tank	1894	223834
T	444m W	Tanks	1985 - 1995	239606
L	446m S	Unspecified Tank	1955 - 1966	240710
I	448m SE	Tanks	1955	248567
I	449m SE	Tanks	-	222667
I	449m SE	Tanks	-	222751
I	449m SE	Tanks	1956 - 1966	249595
L	451m S	Tanks	1955 - 1966	241070



ID	Location	Land use	Dates present	Group ID
L	451m S	Tanks	1955	246013
N	454m E	Unspecified Tank	1987	234643
N	454m E	Unspecified Tank	1995	235902
N	454m E	Unspecified Tank	1995	243908
I	455m SE	Tanks	1922 - 1933	235106
I	455m SE	Unspecified Tank	1893	223844
L	456m S	Tanks	1922 - 1938	234165
I	456m SE	Unspecified Tank	1955 - 1968	238110
U	457m NW	Unspecified Tank	1977 - 1999	235458
I	457m SE	Unspecified Tank	-	222508
I	457m SE	Unspecified Tank	-	222588
I	457m SE	Tanks	1955 - 1966	241638
I	458m SE	Tanks	-	222752
I	458m SE	Tanks	-	222802
T	460m W	Tanks	1994 - 1995	242620
T	461m W	Tanks	1985	245669
T	468m W	Tanks	1985	230648
AC	472m E	Unspecified Tank	1907	235510
AC	473m E	Unspecified Tank	1894	240798
L	482m S	Septic Tanks	1955 - 1966	248534
L	482m S	Septic Tank	1955	229965
L	483m S	Tanks	1955 - 1974	234813
L	486m S	Settling Tank	1955 - 1974	243090
L	487m S	Settling Tanks	1955 - 1966	233679
L	488m S	Septic Tanks	1922 - 1938	243098
U	488m NW	Unspecified Tank	1922 - 1933	239083
L	494m S	Settling Tanks	1922 - 1938	238929

This data is sourced from Ordnance Survey / Groundsure.



1.3 Historical energy features

Records within 500m

61

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 12**

ID	Location	Land use	Dates present	Group ID
B	55m W	Electricity Substation	1980 - 1981	138267
B	56m W	Electricity Substation	1974	137847
B	64m W	Electricity Substation	1995 - 1997	138987
A	94m S	Electricity Substation	1955 - 1997	140281
A	199m SE	Electricity Substation	1955 - 1981	140219
A	202m SE	Electricity Substation	1995 - 1997	144119
F	232m N	Electricity Substation	1999	129179
C	244m NE	Electricity Substation	1987 - 1995	141164
I	256m SE	Gas Works	1893 - 1966	144828
I	257m SE	Corporation Gas Works	1907 - 1922	139998
I	258m SE	Gas Works	-	128670
I	258m SE	Gas Works	-	128832
F	262m N	Electricity Substation	1977	129180
I	270m SE	Gas Depot	1987	132039
M	279m SE	Gas Works	1955	144526
I	286m SE	Gasholder Station	1968	131770
I	296m SE	Gasometers	1893 - 1922	140414
I	297m SE	Gasometers	1955	134729
I	297m SE	Gasometer	1987	136285
J	298m S	Electricity Substation	1955	134430
I	298m SE	Gasholder	1968	131736



ID	Location	Land use	Dates present	Group ID
I	298m SE	Gasometers	-	128669
I	298m SE	Gasometers	-	128831
I	299m SE	Gasometer	1956 - 1966	142746
H	323m NW	Electricity Substation	1989 - 1999	135694
H	324m NW	Electricity Substation	1977	139260
I	329m SE	Gasometer	1956 - 1966	146657
P	345m W	Electricity Substation	1972 - 1995	136453
P	346m W	Electricity Substation	1985	138116
J	349m S	Electricity Substation	1991	143191
J	350m S	Electricity Substation	1974 - 1995	141346
R	357m S	Electricity Substation	1995	129173
R	357m S	Electricity Transformer Station	1974 - 1991	136122
I	359m SE	Gasometer	1893 - 1922	145636
I	362m SE	Gasholder	1968	131735
I	363m SE	Gasometer	1956 - 1966	139887
T	390m W	Electricity Board Depot	1955	145170
T	394m W	Corporation Electricity Works	1922	131642
T	398m W	Electricity Board Depot	1955 - 1966	136747
T	401m W	Electricity Substation	1972	132509
T	401m W	Electricity Substation	1995	132798
T	401m W	Electricity Substation	1994	133392
T	402m W	Electricity Substation	1985	132564
U	423m NW	Electricity Substation	1955 - 1969	139388
U	423m NW	Electricity Substation	1977 - 1989	134409
U	430m NW	Electricity Substation	1999	133259
U	430m NW	Electricity Substation	1995	133933
7	443m NE	Electricity Substation	1969 - 1996	134590
S	460m SW	Electricity Substation	1955 - 1974	139731



ID	Location	Land use	Dates present	Group ID
AB	462m E	Electricity Substation	1968	137332
AB	463m E	Electricity Substation	1987	144404
AA	474m S	Electricity Substation	1955 - 1995	142182
X	475m NE	Electricity Substation	1955	132951
X	476m NE	Electricity Substation	1955	133320
AD	477m N	Electricity Substation	1955 - 1969	146191
Y	478m NW	Electricity Substation	1967 - 1995	137919
AD	481m N	Electricity Substation	1977 - 1999	135474
X	491m NE	Electricity Substation	1969	136493
AF	493m NE	Electricity Substation	1970	135030
AF	493m NE	Electricity Substation	1969 - 1996	143596
X	494m NE	Electricity Substation	1970 - 1996	141052

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

29

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 12**



ID	Location	Land use	Dates present	Group ID
A	88m SW	Garage	1980 - 1981	45366
2	119m SW	Garage	1955 - 1974	46474
A	140m S	Garage	1980 - 1981	45420
A	141m S	Garage	1995	42348
A	147m S	Garage	1974	43266
A	155m S	Garage	1995 - 1997	45787
F	174m N	Garage	1989	44186
F	174m N	Garage	1995	44917
F	186m NW	Garage	1999	43332
J	273m S	Garage	1980 - 1981	46169
J	273m S	Garage	1974	44125
J	274m S	Garage	1995 - 1997	46385
J	314m S	Garage	1991 - 1995	45359
J	315m S	Garage	1974	43898
H	337m NW	Garage	1995 - 1999	46209
H	337m NW	Garage	1977	41849
H	339m NW	Garage	1989	43941
U	390m NW	Garage	1955 - 1999	45383
U	391m NW	Garage	1955 - 1969	44962
U	391m NW	Garage	1989	42774
Y	420m NW	Garage	1955	41774
Y	420m NW	Garage	1967	42567
Y	441m NW	Garage	1955 - 1969	46152
U	442m NW	Garage	1995 - 1999	45196
U	448m NW	Garage	1955 - 1989	46813
U	449m NW	Garage	1977	43152
S	476m SW	Garage	1995	41110
AE	484m N	Garage	1955	43620

ID	Location	Land use	Dates present	Group ID
AE	484m N	Garage	1955 - 1969	45283

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

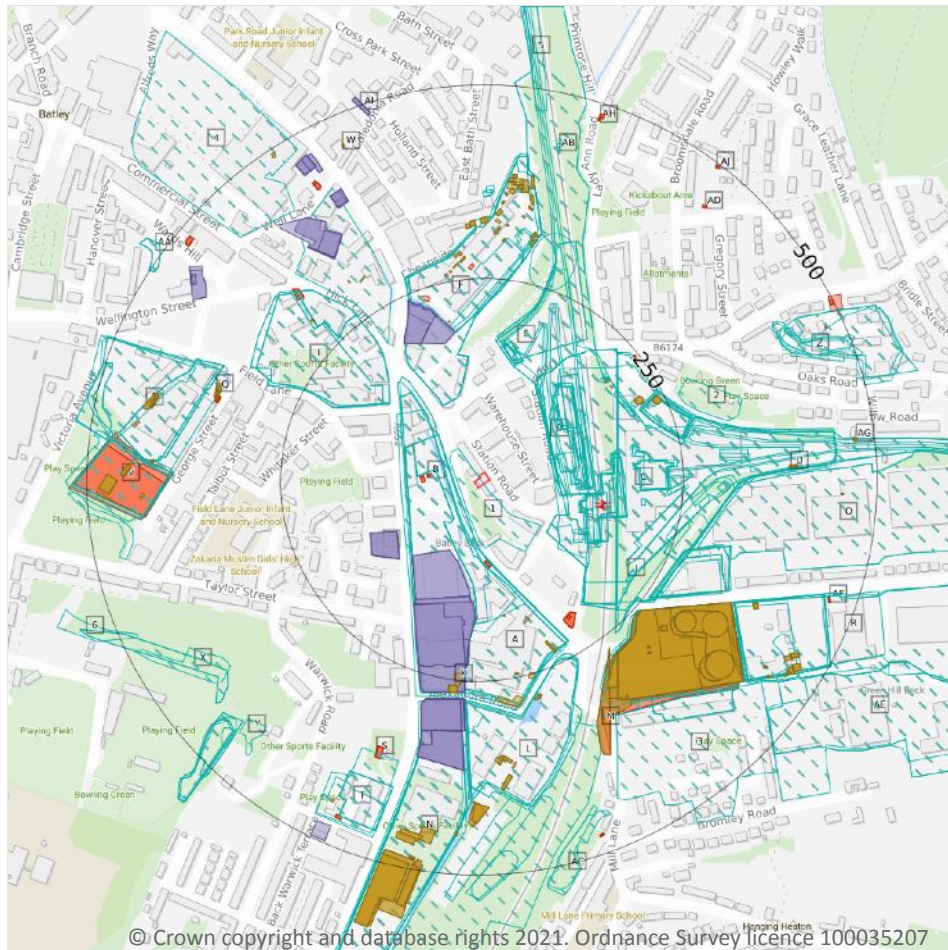
0

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

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



2 Past land use - un-grouped



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

2.1 Historical industrial land uses

Records within 500m

252

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 30**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Mills	1892	1419262
A	25m W	Unspecified Mills	1988	1485258
A	25m W	Unspecified Mills	1981	1485258



ID	Location	Land Use	Date	Group ID
A	25m W	Unspecified Mills	1974	1485258
A	27m W	Unspecified Mills	1967	1545833
A	32m W	Unspecified Commercial/Industrial	1948	1552046
A	32m W	Unspecified Mills	1892	1504230
A	33m W	Unspecified Commercial/Industrial	1905	1495214
A	33m W	Unspecified Commercial/Industrial	1931	1495214
A	41m W	Unspecified Works	1988	1498449
A	41m W	Unspecified Works	1981	1498449
A	41m W	Unspecified Mills	1974	1554235
C	82m E	Railway Sidings	1892	1502651
D	82m E	Railway Building	1892	1460859
E	83m E	Railway Sidings	1948	1521812
C	85m E	Railway Sidings	1948	1528485
D	86m E	Unspecified Industrial/Commercial	1931	1443827
E	86m E	Railway Sidings	1931	1475857
C	86m E	Railway Sidings	1905	1521857
C	86m E	Railway Sidings	1931	1459157
D	87m E	Railway Sidings	1981	1505073
D	87m E	Railway Sidings	1974	1498050
D	87m E	Railway Sidings	1967	1554869
D	87m E	Railway Sidings	1955	1522408
D	92m E	Railway Building	1931	1491428
D	93m E	Railway Building	1948	1493152
F	101m NW	Unspecified Mills	1988	1458880
F	101m NW	Unspecified Mills	1981	1458880
F	101m NW	Unspecified Commercial/Industrial	1974	1480165
F	101m NW	Unspecified Mills	1967	1542985
D	104m E	Railway Building	1948	1507690



ID	Location	Land Use	Date	Group ID
D	105m E	Railway Building	1948	1507690
C	106m SE	Railway Station	1892	1482797
D	108m E	Railway Building	1905	1483121
D	110m E	Railway Building	1974	1507690
D	110m E	Railway Building	1967	1507690
D	110m E	Railway Building	1955	1507690
D	113m E	Railway Building	1892	1547450
C	118m E	Railway Station	1948	1471201
D	120m NE	Railway Building	1988	1548332
D	120m NE	Railway Building	1981	1548332
C	120m E	Railway Station	1931	1483351
C	121m E	Railway Station	1948	1471201
C	121m E	Railway Station	1905	1502303
C	121m E	Railway Station	1931	1502303
C	122m E	Railway Station	1955	1550662
C	126m E	Railway Station	1974	1546530
C	126m E	Radar Station	1967	1448410
C	127m SE	Railway Building	1955	1429154
C	134m E	Railway Station	1988	1495628
C	134m E	Railway Station	1981	1495628
H	142m N	Railway Building	1905	1548807
H	142m N	Railway Building	1931	1548807
H	146m N	Railway Building	1988	1474722
H	146m N	Railway Building	1981	1474722
H	146m N	Railway Building	1974	1474722
H	146m N	Railway Building	1967	1474722
E	148m N	Railway Sidings	1967	1555835
E	148m N	Railway Sidings	1955	1555835



ID	Location	Land Use	Date	Group ID
H	148m N	Railway Building	1955	1462572
I	149m NW	Unspecified Mills	1988	1525128
I	149m NW	Unspecified Mills	1981	1525128
I	149m NW	Unspecified Mills	1974	1525128
I	154m NW	Unspecified Commercial/Industrial	1905	1520477
I	154m NW	Unspecified Commercial/Industrial	1931	1520477
A	161m S	Unspecified Mills	1892	1471432
C	162m E	Railway Building	1892	1429155
C	164m E	Railway Sidings	1957	1522408
C	165m E	Unspecified Commercial/Industrial	1992	1512060
C	165m E	Unspecified Works	1971	1438265
C	165m E	Railway Sidings	1971	1498050
F	184m N	Unspecified Disused Mills	1892	1456873
F	184m N	Unspecified Commercial/Industrial	1905	1466332
F	184m N	Unspecified Commercial/Industrial	1931	1466332
C	186m E	Goods Shed	1948	1509606
C	186m E	Railway Buildings	1931	1481996
C	188m E	Railway Buildings	1948	1553490
C	188m E	Goods Shed	1931	1496268
C	189m E	Goods Shed	1948	1509606
C	189m E	Railway Building	1905	1539884
C	189m E	Railway Building	1892	1539884
C	189m E	Goods Shed	1931	1496268
F	189m N	Unspecified Industrial/Commercial	1931	1443826
C	190m E	Railway Building	1905	1429157
C	190m NE	Unspecified Tank	1948	1462279
C	191m E	Railway Buildings	1957	1553758
C	194m NE	Unspecified Tank	1931	1496099



ID	Location	Land Use	Date	Group ID
C	195m NE	Railway Buildings	1931	1540639
C	195m NE	Railway Building	1905	1429156
C	196m NE	Unspecified Tank	1931	1496099
C	197m E	Railway Building	1905	1429158
C	197m NE	Railway Buildings	1905	1540639
C	203m SE	Railway Sidings	1948	1504497
C	206m E	Railway Sidings	1931	1473776
I	207m NW	Unspecified Commercial/Industrial	1931	1410951
C	207m NE	Unspecified Tank	1992	1433523
C	213m NE	Goods Shed	1948	1479859
C	215m NE	Goods Shed	1948	1479859
C	215m NE	Railway Building	1905	1480263
C	215m NE	Railway Building	1892	1480263
C	215m NE	Goods Shed	1931	1543478
J	217m SE	Railway Building	1931	1546848
C	217m NE	Goods Shed	1931	1543478
J	218m SE	Railway Building	1948	1521978
C	218m NE	Railway Building	1957	1518135
J	222m SE	Railway Building	1905	1429152
J	224m SE	Unspecified Ground Workings	1992	1414246
C	228m NE	Unspecified Tank	1992	1433522
C	239m E	Cuttings	1892	1499778
L	241m SE	Unspecified Mills	1988	1476059
L	241m SE	Unspecified Mills	1981	1476059
C	244m SE	Cuttings	1957	1509104
L	245m SE	Unspecified Commercial/Industrial	1905	1486484
L	245m SE	Unspecified Commercial/Industrial	1931	1486484
F	247m N	Unspecified Tanks	1931	1425855



ID	Location	Land Use	Date	Group ID
L	248m SE	Unspecified Mills	1892	1463089
J	254m SE	Unspecified Commercial/Industrial	1948	1506750
I	254m NW	Unspecified Works	1988	1550540
I	254m NW	Unspecified Works	1981	1550540
I	254m NW	Unspecified Works	1974	1550540
J	255m SE	Boiler Works	1948	1435345
J	256m SE	Unspecified Commercial/Industrial	1957	1492409
J	256m SE	Railway Building	1905	1429153
C	256m SE	Boiler Works	1948	1540254
J	257m SE	Unspecified Commercial/Industrial	1931	1461193
C	257m SE	Boiler Works	1931	1505058
J	259m SE	Gas Works	1905	1534198
J	259m SE	Unspecified Commercial/Industrial	1931	1461193
C	259m SE	Boiler Works	1948	1540254
J	260m SE	Unspecified Works	1992	1501574
J	260m SE	Unspecified Works	1971	1526146
J	260m SE	Unspecified Works	1980	1501574
J	260m SE	Gas Works	1892	1534198
C	261m E	Unspecified Ground Workings	1992	1414248
C	262m SE	Unspecified Commercial/Industrial	1992	1464218
C	262m SE	Unspecified Commercial/Industrial	1971	1464218
C	262m SE	Unspecified Commercial/Industrial	1957	1464218
C	262m SE	Unspecified Commercial/Industrial	1980	1464218
C	267m SE	Boiler Works	1931	1528568
2	267m NE	Unspecified Heap	1957	1417466
N	275m S	Sewage Works	1988	1532336
N	275m S	Sewage Works	1981	1532336
N	275m S	Unspecified Commercial/Industrial	1974	1510990



ID	Location	Land Use	Date	Group ID
N	275m S	Sewage Works	1967	1523933
N	275m S	Sewage Works	1955	1523933
N	276m S	Sewage Works	1931	1504808
N	278m S	Sewage Works	1948	1550065
N	278m S	Sewage Works	1948	1550065
N	278m S	Sewage Works	1905	1535489
N	278m S	Sewage Works	1931	1535489
O	282m E	Unspecified Warehouses	1992	1499952
O	282m E	Unspecified Warehouses	1980	1499952
F	289m N	Unspecified Tanks	1948	1541164
J	290m SE	Unspecified Tanks	1948	1557239
F	291m N	Unspecified Tanks	1931	1464803
J	292m SE	Unspecified Tanks	1931	1481095
J	293m SE	Unspecified Tanks	1948	1503110
J	293m SE	Unspecified Tanks	1931	1511514
C	294m E	Railway Building	1905	1497486
C	294m E	Railway Building	1931	1497486
J	296m SE	Unspecified Tank	1992	1473466
J	296m SE	Unspecified Tank	1971	1473466
J	296m SE	Unspecified Tank	1957	1473466
J	296m SE	Unspecified Tank	1980	1473466
J	297m SE	Gasometer	1905	1420679
F	298m N	Unspecified Tanks	1948	1557645
C	299m E	Railway Building	1892	1460796
C	299m E	Railway Building	1905	1460796
J	300m SE	Gasometers	1892	1418503
F	304m N	Unspecified Tanks	1955	1557645
N	325m S	Railway Sidings	1905	1409359



ID	Location	Land Use	Date	Group ID
J	327m SE	Gasometer	1905	1420678
J	327m SE	Unspecified Tank	1957	1433524
3	333m SE	Unspecified Commercial/Industrial	1957	1463416
C	337m E	Railway Building	1948	1429159
P	345m NW	Unspecified Commercial/Industrial	1948	1472739
J	350m SE	Dye Works	1948	1482382
J	352m SE	Dye Works	1931	1530249
R	353m SE	Unspecified Mills	1992	1542563
J	353m SE	Dye Works	1948	1486413
J	353m SE	Unspecified Mills	1905	1473167
J	353m SE	Unspecified Disused Mills	1931	1456872
R	355m SE	Unspecified Mills	1971	1522264
R	355m SE	Unspecified Mills	1980	1522264
F	355m N	Unspecified Tanks	1948	1525907
F	356m N	Unspecified Tanks	1931	1484636
P	357m NW	Unspecified Mill	1988	1462642
P	357m NW	Unspecified Mill	1981	1462642
P	357m NW	Unspecified Mill	1974	1462642
P	357m NW	Unspecified Mills	1967	1554914
J	358m SE	Unspecified Mills	1892	1473167
J	360m SE	Unspecified Tank	1992	1513985
J	360m SE	Unspecified Tank	1971	1513985
J	360m SE	Unspecified Tank	1957	1513985
J	360m SE	Unspecified Tank	1980	1513985
J	361m SE	Gasometer	1905	1532084
F	361m N	Unspecified Tanks	1955	1507951
P	361m NW	Unspecified Commercial/Industrial	1905	1550489
P	361m NW	Unspecified Commercial/Industrial	1931	1550489



ID	Location	Land Use	Date	Group ID
J	363m SE	Gasometer	1892	1532084
F	364m N	Unspecified Tanks	1948	1529040
F	365m N	Unspecified Tanks	1931	1469133
T	367m S	Unspecified Commercial/Industrial	1905	1410952
V	388m W	Unspecified Depot	1981	1516212
V	388m W	Unspecified Depot	1974	1516212
V	388m W	Unspecified Depot	1967	1516212
P	388m W	Unspecified Mills	1892	1472400
V	390m W	Unspecified Works	1988	1438266
X	394m SW	Unspecified Ground Workings	1931	1490407
V	394m W	Electricity Works	1905	1414969
V	394m W	Unspecified Commercial/Industrial	1931	1474655
T	400m S	Unspecified Mills	1988	1536499
T	400m S	Unspecified Mills	1981	1536499
T	400m S	Unspecified Mills	1974	1536499
T	400m S	Unspecified Mills	1967	1536499
X	401m SW	Unspecified Ground Workings	1974	1481443
X	401m SW	Unspecified Ground Workings	1967	1481443
N	402m S	Refuse Heap	1905	1436687
N	406m S	Unspecified Heap	1931	1503005
Y	412m SW	Unspecified Quarry	1905	1427948
Z	414m NE	Unspecified Disused Quarry	1948	1504224
Z	415m NE	Unspecified Disused Quarry	1931	1518603
Z	415m NE	Unspecified Disused Quarry	1948	1504224
T	416m SW	Unspecified Mill	1892	1421610
Z	416m NE	Unspecified Disused Quarry	1931	1540612
4	417m NW	Unspecified Commercial/Industrial	1931	1410955
Z	419m NE	Unspecified Quarry	1892	1427970



ID	Location	Land Use	Date	Group ID
J	421m SE	Refuse Heap	1905	1436688
AB	422m N	Railway Building	1905	1519903
Z	426m NE	Unspecified Disused Quarry	1905	1540612
Y	428m SW	Unspecified Heap	1974	1472817
Y	428m SW	Unspecified Heap	1967	1472817
AB	429m N	Railway Building	1955	1554629
Y	433m SW	Unspecified Heap	1955	1557982
AC	436m S	Unspecified Pit	1905	1452089
Y	440m SW	Unspecified Heap	1931	1524754
Y	440m SW	Unspecified Heap	1948	1557982
Y	442m SW	Unspecified Heap	1948	1520168
Y	445m SW	Unspecified Quarry	1905	1427950
AC	445m S	Unspecified Ground Workings	1892	1414244
V	446m W	Unspecified Ground Workings	1967	1412346
AE	455m SE	Unspecified Mills	1971	1542563
AE	455m SE	Unspecified Mills	1980	1542563
AE	463m SE	Unspecified Mills	1992	1467174
N	471m S	Unspecified Heap	1948	1475294
5	472m N	Railway Sidings	1948	1525099
P	474m W	Unspecified Ground Workings	1974	1465584
P	474m W	Unspecified Ground Workings	1967	1465584
6	477m SW	Unspecified Ground Workings	1931	1511516
AA	493m NW	Unspecified Ground Workings	1981	1543651
AA	493m NW	Unspecified Ground Workings	1974	1543651
AA	493m NW	Unspecified Ground Workings	1967	1543651

This data is sourced from Ordnance Survey / Groundsure.



2.2 Historical tanks

Records within 500m

274

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 30**

ID	Location	Land Use	Date	Group ID
A	168m S	Unspecified Tank	1894	223857
A	179m S	Unspecified Tank	1922	223856
C	194m NE	Unspecified Tank	1922	223859
C	196m NE	Unspecified Tank	1939	223858
F	198m N	Unspecified Tank	1977	223835
C	213m NE	Unspecified Tank	1987	236455
C	213m NE	Unspecified Tank	1995	236455
C	213m NE	Unspecified Tank	1995	236455
A	217m SE	Unspecified Tank	1907	223855
A	217m SE	Tanks	1922	242128
A	217m SE	Tanks	1933	242128
A	217m SE	Tanks	1938	242128
C	234m NE	Unspecified Tank	1987	240074
C	235m NE	Unspecified Tank	1995	240074
C	235m NE	Unspecified Tank	1995	240074
K	241m S	Unspecified Tank	1907	239205
A	243m S	Unspecified Tank	1955	239328
A	244m S	Unspecified Tank	1955	239328
A	244m S	Unspecified Tank	1966	239328
A	247m S	Tanks	1907	230651
J	256m SE	Gas Works	1893	245782
F	257m N	Unspecified Tank	1922	223837
K	257m S	Unspecified Tank	1907	243457



ID	Location	Land Use	Date	Group ID
K	257m S	Tanks	1922	243816
K	257m S	Tanks	1933	243816
K	257m S	Unspecified Tank	1938	243457
J	258m SE	Gas Works	-	222666
J	258m SE	Gas Works	-	222804
J	258m SE	Gas Works	1955	245782
J	258m SE	Gas Works	1966	245226
J	258m SE	Gas Works	1956	245226
F	261m N	Unspecified Tank	1907	223836
F	266m N	Unspecified Tank	1933	223839
M	268m SE	Gas Works	1894	245782
A	270m S	Unspecified Tank	1894	223843
J	270m SE	Gas Depot	1987	233343
F	273m N	Unspecified Tank	1977	245101
F	273m N	Unspecified Tank	1955	245101
F	273m N	Unspecified Tank	1955	245101
F	273m N	Unspecified Tank	1969	245101
A	277m S	Unspecified Tank	1922	236209
A	278m S	Unspecified Tank	1933	236209
A	278m S	Unspecified Tank	1938	236209
M	278m SE	Gas Works	1955	245782
M	279m SE	Gas Works	1955	243575
F	280m N	Unspecified Tank	1933	223838
F	281m N	Unspecified Tank	1977	246837
F	281m N	Unspecified Tank	1955	246837
F	281m N	Unspecified Tank	1955	246837
F	281m N	Unspecified Tank	1969	246837
J	286m SE	Gasholder Station	1968	230062

ID	Location	Land Use	Date	Group ID
J	290m SE	Unspecified Tank	1955	242643
J	291m SE	Unspecified Tank	1966	242643
J	291m SE	Unspecified Tank	1956	242643
J	291m SE	Unspecified Tank	-	222586
J	291m SE	Unspecified Tank	-	222589
I	292m NW	Unspecified Tank	1995	236688
I	292m NW	Unspecified Tank	1999	236688
I	292m NW	Unspecified Tank	1977	236688
I	293m NW	Unspecified Tanks	1907	233120
I	293m NW	Unspecified Tank	1989	236688
J	296m SE	Unspecified Tank	1955	246770
J	296m SE	Gasometers	1893	240445
J	296m SE	Gasometers	1907	240445
J	296m SE	Gasometers	1922	240445
J	296m SE	Tanks	1933	234085
J	296m SE	Tanks	1938	234085
J	296m SE	Unspecified Tank	-	222664
J	296m SE	Unspecified Tank	-	222801
J	296m SE	Unspecified Tank	1966	233504
J	296m SE	Unspecified Tank	1956	233504
F	297m N	Unspecified Tanks	1922	233156
J	297m SE	Gasometers	1955	237418
J	297m SE	Gasometer	1987	247585
J	298m SE	Gasholder	1968	230028
J	298m SE	Gasometers	-	222587
J	298m SE	Gasometers	-	222753
F	299m N	Tanks	1955	247699
J	299m SE	Gasometer	1966	246677

ID	Location	Land Use	Date	Group ID
J	299m SE	Gasometer	1956	246677
F	299m N	Tanks	1955	240963
F	299m N	Tanks	1969	240963
I	300m NW	Unspecified Tank	1922	244239
I	301m NW	Unspecified Tank	1933	236073
J	302m SE	Unspecified Tank	1955	237007
J	302m SE	Unspecified Tank	-	222748
J	302m SE	Unspecified Tank	-	222503
J	302m SE	Unspecified Tank	1966	237007
J	302m SE	Unspecified Tank	1956	237007
F	307m N	Unspecified Tank	1955	246950
F	307m N	Unspecified Tank	1955	246950
F	307m N	Unspecified Tank	1969	246950
F	310m N	Unspecified Tank	1955	242284
F	311m N	Unspecified Tank	1955	242284
F	311m N	Unspecified Tank	1969	242284
F	315m N	Unspecified Tank	1922	250333
F	316m N	Unspecified Tank	1933	250333
F	318m N	Unspecified Tank	1955	235841
F	318m N	Unspecified Tank	1955	235841
F	318m N	Unspecified Tank	1969	235841
F	319m N	Unspecified Tank	1955	234691
F	319m N	Unspecified Tank	1955	243760
F	319m N	Unspecified Tank	1969	244892
F	321m N	Tanks	1955	238246
F	321m N	Tanks	1955	248414
F	321m N	Tanks	1969	248414
F	321m N	Unspecified Tank	1907	223884

ID	Location	Land Use	Date	Group ID
M	329m SE	Unspecified Tank	1987	241197
J	329m SE	Gasometer	1966	247271
J	329m SE	Gasometer	1956	247271
F	331m N	Unspecified Tank	1955	241929
F	331m N	Unspecified Tank	1955	241929
F	331m N	Unspecified Tank	1969	241929
F	332m N	Unspecified Tank	1907	223883
M	332m SE	Unspecified Tank	1893	241197
F	343m N	Unspecified Tank	1955	234815
F	343m N	Unspecified Tank	1969	234815
F	344m N	Unspecified Tank	1955	234815
L	346m S	Tanks	1922	241950
L	346m S	Tanks	1933	241950
L	346m S	Tanks	1938	241950
Q	347m W	Unspecified Tanks	1922	233118
F	347m N	Unspecified Tank	1922	243988
Q	347m W	Unspecified Tank	1933	223830
L	347m S	Tanks	1907	234988
F	348m N	Unspecified Tank	1933	243988
Q	350m W	Tanks	1994	242871
Q	350m W	Tanks	1995	242871
Q	350m W	Tanks	1972	242871
F	351m N	Unspecified Tank	1922	246358
Q	351m W	Tanks	1985	242871
F	351m N	Unspecified Tank	1933	246358
L	357m S	Tanks	1922	230652
F	358m N	Unspecified Tank	1922	243318
F	359m N	Unspecified Tank	1933	243318



ID	Location	Land Use	Date	Group ID
J	359m SE	Gasometer	1893	234113
J	359m SE	Gasometer	1907	234113
J	359m SE	Gasometer	1922	234113
J	359m SE	Unspecified Tank	1933	249520
J	359m SE	Unspecified Tank	1938	249520
F	360m N	Tanks	1955	243159
F	360m N	Tanks	1969	243159
J	362m SE	Gasholder	1968	230027
J	363m SE	Gasometer	1966	235379
J	363m SE	Gasometer	1956	235379
F	365m N	Tanks	1955	246869
F	365m N	Tanks	1969	246869
J	365m SE	Unspecified Tank	1907	223854
F	367m N	Unspecified Tanks	1922	245233
F	369m N	Unspecified Tanks	1933	239489
F	371m N	Unspecified Tank	1955	238429
F	371m N	Unspecified Tank	1955	238429
F	371m N	Unspecified Tank	1969	238429
F	372m N	Tanks	1955	230654
L	373m S	Tanks	1922	235156
L	373m S	Tanks	1933	235156
L	373m S	Tanks	1938	235156
F	373m N	Tanks	1955	235025
F	373m N	Tanks	1969	235025
J	375m SE	Tanks	1955	235506
J	375m SE	Tanks	1966	235506
J	375m SE	Tanks	1956	235506
J	376m SE	Tanks	-	222800

ID	Location	Land Use	Date	Group ID
J	376m SE	Tanks	-	222803
F	376m N	Unspecified Tank	1922	247860
F	377m N	Unspecified Tank	1933	247860
F	382m N	Tanks	1955	230653
F	382m N	Unspecified Tank	1955	242658
F	382m N	Unspecified Tank	1969	242658
U	387m E	Tanks	1987	246160
U	387m E	Tanks	1995	246160
U	387m E	Tanks	1995	246160
N	406m S	Humus Tanks	1933	245797
N	406m S	Humus Tanks	1938	245797
N	407m S	Humus Tank	1955	241014
N	407m S	Humus Tank	1955	241014
N	407m S	Humus Tank	1966	241014
V	415m W	Unspecified Tank	1994	239379
V	415m W	Unspecified Tank	1995	239379
V	415m W	Unspecified Tank	1955	239379
V	415m W	Unspecified Tank	1966	239379
V	415m W	Unspecified Tank	1955	239379
V	415m W	Unspecified Tank	1972	239379
V	416m W	Unspecified Tank	1985	239379
P	422m W	Tanks	1994	249872
P	422m W	Tanks	1995	249872
P	422m W	Tanks	1955	247710
P	422m W	Tanks	1972	247710
P	422m W	Tanks	1955	247710
P	422m W	Tanks	1966	247710
P	423m W	Tanks	1985	249872



ID	Location	Land Use	Date	Group ID
P	424m W	Unspecified Tanks	1922	238920
P	424m W	Unspecified Tanks	1907	239783
P	426m W	Unspecified Tanks	1933	238920
V	426m W	Unspecified Tank	1933	223829
J	428m SE	Unspecified Tank	1955	235503
J	428m SE	Unspecified Tank	1966	235503
J	428m SE	Unspecified Tank	1956	235503
J	429m SE	Unspecified Tank	-	222749
J	429m SE	Unspecified Tank	-	222669
J	438m SE	Unspecified Tank	1955	240123
P	439m W	Unspecified Tanks	1894	233110
J	439m SE	Unspecified Tank	1966	238252
J	439m SE	Unspecified Tank	1956	235544
J	439m SE	Unspecified Tank	-	222750
J	439m SE	Unspecified Tank	-	222534
N	443m S	Humus Tanks	1933	240991
N	443m S	Humus Tanks	1938	240991
J	443m SE	Tanks	1922	237998
J	443m SE	Tanks	1933	237998
T	444m SW	Unspecified Tank	1894	223834
V	444m W	Tanks	1994	239606
V	444m W	Tanks	1995	239606
V	446m W	Tanks	1985	239606
N	446m S	Unspecified Tank	1955	240710
N	446m S	Unspecified Tank	1966	240710
N	446m S	Unspecified Tank	1955	240710
J	448m SE	Tanks	1955	248567
J	449m SE	Tanks	1966	249595



ID	Location	Land Use	Date	Group ID
J	449m SE	Tanks	1956	249595
J	449m SE	Tanks	-	222751
J	449m SE	Tanks	-	222667
N	451m S	Tanks	1955	241070
N	451m S	Tanks	1966	241070
N	451m S	Tanks	1955	246013
O	454m E	Unspecified Tank	1987	234643
O	454m E	Unspecified Tank	1995	243908
O	454m E	Unspecified Tank	1995	235902
J	455m SE	Tanks	1922	235106
J	455m SE	Tanks	1933	235106
J	455m SE	Unspecified Tank	1893	223844
N	456m S	Tanks	1922	234165
N	456m S	Tanks	1933	234165
N	456m S	Tanks	1938	234165
J	456m SE	Unspecified Tank	1955	238110
J	456m SE	Unspecified Tank	1968	238110
J	456m SE	Unspecified Tank	1966	238110
J	456m SE	Unspecified Tank	1956	238110
W	457m NW	Unspecified Tank	1995	235458
W	457m NW	Unspecified Tank	1999	235458
J	457m SE	Unspecified Tank	-	222588
J	457m SE	Unspecified Tank	-	222508
J	457m SE	Tanks	1955	241638
J	458m SE	Tanks	1966	241638
J	458m SE	Tanks	1956	241638
W	458m NW	Unspecified Tank	1977	235458
W	458m NW	Unspecified Tank	1989	235458

ID	Location	Land Use	Date	Group ID
J	458m SE	Tanks	-	222752
J	458m SE	Tanks	-	222802
V	460m W	Tanks	1994	242620
V	460m W	Tanks	1995	242620
V	461m W	Tanks	1985	245669
V	468m W	Tanks	1985	230648
AG	472m E	Unspecified Tank	1907	235510
AG	473m E	Unspecified Tank	1894	240798
N	482m S	Septic Tanks	1955	248534
N	482m S	Septic Tanks	1966	248534
N	482m S	Septic Tank	1955	229965
N	483m S	Tanks	1974	234813
N	483m S	Tanks	1955	234813
N	483m S	Tanks	1955	234813
N	483m S	Tanks	1966	234813
N	486m S	Settling Tank	1974	243090
N	486m S	Settling Tank	1955	243090
N	487m S	Settling Tanks	1955	233679
N	487m S	Settling Tanks	1966	233679
N	488m S	Septic Tanks	1922	243098
N	488m S	Septic Tanks	1933	243098
N	488m S	Septic Tanks	1938	243098
W	488m NW	Unspecified Tank	1922	239083
W	489m NW	Unspecified Tank	1933	239083
N	494m S	Settling Tanks	1922	238929
N	494m S	Settling Tanks	1933	238929
N	494m S	Settling Tanks	1938	238929

This data is sourced from Ordnance Survey / Groundsure.



2.3 Historical energy features

Records within 500m

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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 30**

ID	Location	Land Use	Date	Group ID
B	55m W	Electricity Substation	1980	138267
B	55m W	Electricity Substation	1981	138267
B	56m W	Electricity Substation	1974	137847
B	64m W	Electricity Substation	1997	138987
B	64m W	Electricity Substation	1995	138987
B	64m W	Electricity Substation	1995	138987
A	94m S	Electricity Substation	1955	140281
A	94m S	Electricity Substation	1980	140281
A	94m S	Electricity Substation	1981	140281
A	95m S	Electricity Substation	1955	140281
A	95m S	Electricity Substation	1974	140281
A	95m S	Electricity Substation	1997	140281
A	95m S	Electricity Substation	1995	140281
A	95m S	Electricity Substation	1995	140281
A	199m SE	Electricity Substation	1955	140219
A	200m SE	Electricity Substation	1980	140219
A	200m SE	Electricity Substation	1981	140219
A	200m SE	Electricity Substation	1955	140219
A	200m SE	Electricity Substation	1974	140219
A	202m SE	Electricity Substation	1997	144119
A	202m SE	Electricity Substation	1995	144119
A	202m SE	Electricity Substation	1995	144119
F	232m N	Electricity Substation	1999	129179



ID	Location	Land Use	Date	Group ID
C	244m NE	Electricity Substation	1995	141164
C	244m NE	Electricity Substation	1987	141164
C	244m NE	Electricity Substation	1995	141164
J	256m SE	Gas Works	1893	144828
J	257m SE	Corporation Gas Works	1907	139998
J	257m SE	Corporation Gas Works	1922	139998
J	258m SE	Gas Works	-	128670
J	258m SE	Gas Works	-	128832
J	258m SE	Gas Works	1955	144828
J	258m SE	Gas Works	1966	144828
J	258m SE	Gas Works	1956	144828
F	262m N	Electricity Substation	1977	129180
M	268m SE	Gas Works	1894	144828
M	268m SE	Corporation Gas Works	1907	139998
J	270m SE	Gas Depot	1987	132039
M	278m SE	Gas Works	1955	144828
M	279m SE	Gas Works	1955	144526
M	283m SE	Corporation Gas Works	1922	139998
J	286m SE	Gasholder Station	1968	131770
J	296m SE	Gasometers	1893	140414
J	296m SE	Gasometers	1907	140414
J	296m SE	Gasometers	1922	140414
J	297m SE	Gasometers	1955	134729
J	297m SE	Gasometer	1987	136285
K	298m S	Electricity Substation	1955	134430
J	298m SE	Gasholder	1968	131736
J	298m SE	Gasometers	-	128669
J	298m SE	Gasometers	-	128831



ID	Location	Land Use	Date	Group ID
K	299m S	Electricity Substation	1955	134430
J	299m SE	Gasometer	1966	142746
J	299m SE	Gasometer	1956	142746
I	323m NW	Electricity Substation	1995	135694
I	323m NW	Electricity Substation	1999	135694
I	324m NW	Electricity Substation	1977	139260
I	325m NW	Electricity Substation	1989	135694
J	329m SE	Gasometer	1966	146657
J	329m SE	Gasometer	1956	146657
Q	345m W	Electricity Substation	1994	136453
Q	345m W	Electricity Substation	1995	136453
Q	346m W	Electricity Substation	1972	136453
Q	346m W	Electricity Substation	1985	138116
K	349m S	Electricity Substation	1991	143191
K	349m S	Electricity Substation	1991	143191
K	349m S	Electricity Substation	1991	143191
K	350m S	Electricity Substation	1974	141346
K	350m S	Electricity Substation	1995	141346
S	357m S	Electricity Transformer Station	1974	136122
S	357m S	Electricity Substation	1995	129173
S	357m S	Electricity Transformer Station	1991	136122
S	357m S	Electricity Transformer Station	1991	136122
S	357m S	Electricity Transformer Station	1991	136122
J	359m SE	Gasometer	1893	145636
J	359m SE	Gasometer	1907	145636
J	359m SE	Gasometer	1922	145636
J	362m SE	Gasholder	1968	131735
J	363m SE	Gasometer	1966	139887



ID	Location	Land Use	Date	Group ID
J	363m SE	Gasometer	1956	139887
V	390m W	Electricity Board Depot	1955	145170
V	394m W	Corporation Electricity Works	1922	131642
V	398m W	Electricity Board Depot	1955	136747
V	398m W	Electricity Board Depot	1966	136747
V	401m W	Electricity Substation	1972	132509
V	401m W	Electricity Substation	1994	133392
V	401m W	Electricity Substation	1995	132798
V	402m W	Electricity Substation	1985	132564
W	423m NW	Electricity Substation	1955	139388
W	423m NW	Electricity Substation	1989	134409
W	423m NW	Electricity Substation	1977	134409
W	423m NW	Electricity Substation	1955	139388
W	423m NW	Electricity Substation	1969	139388
W	430m NW	Electricity Substation	1995	133933
W	430m NW	Electricity Substation	1999	133259
AD	443m NE	Electricity Substation	1970	134590
AD	443m NE	Electricity Substation	1969	134590
AD	443m NE	Electricity Substation	1996	134590
AD	443m NE	Electricity Substation	1995	134590
T	460m SW	Electricity Substation	1955	139731
T	460m SW	Electricity Substation	1974	139731
T	460m SW	Electricity Substation	1955	139731
AF	462m E	Electricity Substation	1968	137332
AF	463m E	Electricity Substation	1987	144404
AC	474m S	Electricity Substation	1974	142182
AC	474m S	Electricity Substation	1955	142182
AC	474m S	Electricity Substation	1955	142182



ID	Location	Land Use	Date	Group ID
AC	475m S	Electricity Substation	1991	142182
AC	475m S	Electricity Substation	1991	142182
AC	475m S	Electricity Substation	1991	142182
AC	475m S	Electricity Substation	1995	142182
Z	475m NE	Electricity Substation	1955	132951
Z	476m NE	Electricity Substation	1955	133320
AH	477m N	Electricity Substation	1955	146191
AH	477m N	Electricity Substation	1969	146191
AH	477m N	Electricity Substation	1955	146191
AA	478m NW	Electricity Substation	1980	137919
AA	478m NW	Electricity Substation	1985	137919
AA	478m NW	Electricity Substation	1969	137919
AA	478m NW	Electricity Substation	1967	137919
AA	478m NW	Electricity Substation	1977	137919
AA	479m NW	Electricity Substation	1995	137919
AA	479m NW	Electricity Substation	1993	137919
AH	481m N	Electricity Substation	1995	135474
AH	481m N	Electricity Substation	1999	135474
AH	482m N	Electricity Substation	1989	135474
AH	483m N	Electricity Substation	1977	135474
Z	491m NE	Electricity Substation	1969	136493
AJ	493m NE	Electricity Substation	1970	135030
AJ	493m NE	Electricity Substation	1996	143596
AJ	493m NE	Electricity Substation	1995	143596
AJ	493m NE	Electricity Substation	1969	143596
Z	494m NE	Electricity Substation	1996	141052
Z	494m NE	Electricity Substation	1995	141052
Z	494m NE	Electricity Substation	1970	141052

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

53

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 30**

ID	Location	Land Use	Date	Group ID
A	88m SW	Garage	1980	45366
A	88m SW	Garage	1981	45366
G	119m SW	Garage	1955	46474
G	119m SW	Garage	1966	46474
G	119m SW	Garage	1955	46474
G	119m SW	Garage	1974	46474
A	140m S	Garage	1980	45420
A	140m S	Garage	1981	45420
A	141m S	Garage	1995	42348
A	147m S	Garage	1974	43266
A	155m S	Garage	1997	45787
A	155m S	Garage	1995	45787
F	174m N	Garage	1989	44186
F	174m N	Garage	1995	44917
F	186m NW	Garage	1995	44917
F	186m NW	Garage	1999	43332

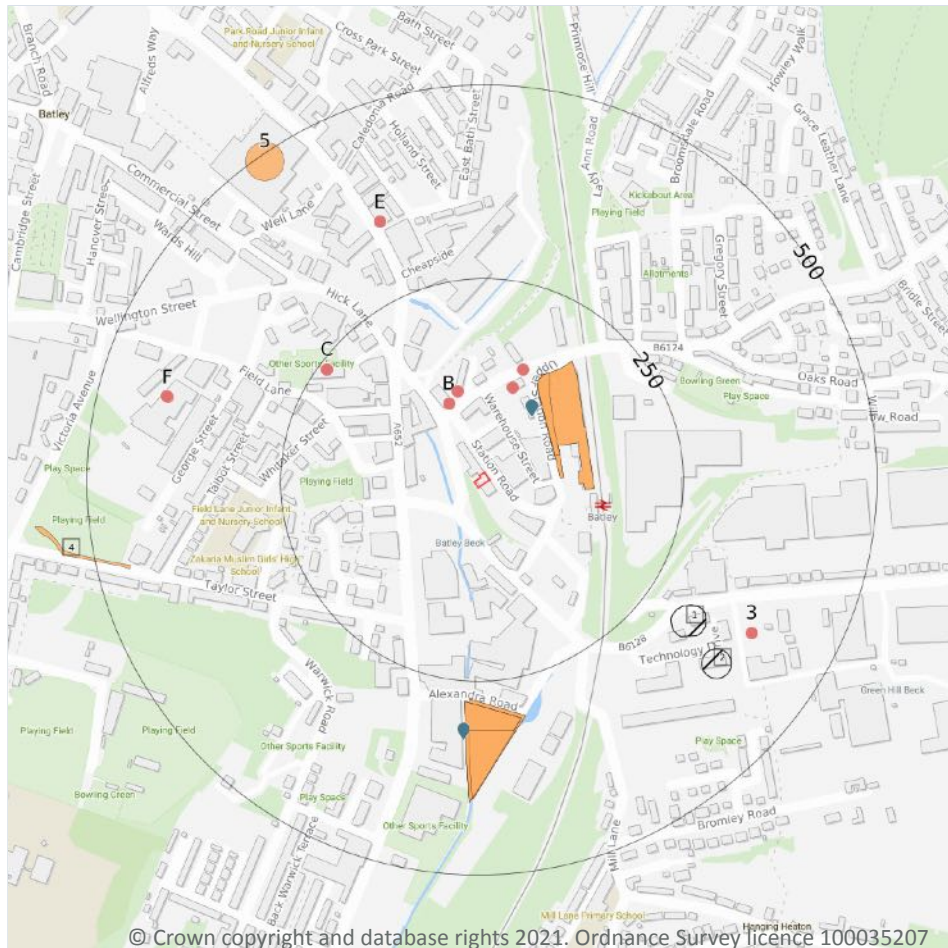
ID	Location	Land Use	Date	Group ID
K	273m S	Garage	1980	46169
K	273m S	Garage	1981	46169
K	273m S	Garage	1974	44125
K	274m S	Garage	1995	46385
K	274m S	Garage	1997	46385
K	274m S	Garage	1995	46385
K	314m S	Garage	1995	45359
K	315m S	Garage	1974	43898
K	315m S	Garage	1991	45359
K	315m S	Garage	1991	45359
K	315m S	Garage	1991	45359
I	337m NW	Garage	1999	46209
I	337m NW	Garage	1995	46209
I	337m NW	Garage	1977	41849
I	339m NW	Garage	1989	43941
W	390m NW	Garage	1999	45383
W	390m NW	Garage	1995	45383
W	390m NW	Garage	1977	45383
W	390m NW	Garage	1955	45383
W	391m NW	Garage	1955	44962
W	391m NW	Garage	1969	44962
W	391m NW	Garage	1989	42774
AA	420m NW	Garage	1955	41774
AA	420m NW	Garage	1967	42567
AA	441m NW	Garage	1955	46152
AA	441m NW	Garage	1969	46152
W	442m NW	Garage	1999	45196
W	442m NW	Garage	1995	45196

ID	Location	Land Use	Date	Group ID
W	448m NW	Garage	1955	46813
W	448m NW	Garage	1969	46813
W	448m NW	Garage	1955	46813
W	449m NW	Garage	1989	46813
W	449m NW	Garage	1977	43152
T	476m SW	Garage	1995	41110
AI	484m N	Garage	1955	43620
AI	484m N	Garage	1955	45283
AI	484m N	Garage	1969	45283

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical waste sites
- Licensed waste sites
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

2

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 58**

ID	Location	Details		
1	293m SE	Site Address: Batley Holder Station No 1, Grange Road, Batley Licence Holder Address: New York Road, Leeds	Waste Licence: Yes Site Reference: 4700/0244, 645 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 23/12/1987 Licence Surrender: 30/04/1994	Operator: - Licence Holder: British Gas Plc North Eastern First Recorded 31/12/1987 Last Recorded: 31/12/1992
2	357m SE	Site Address: Batley Holder Station No 2, Batley Holder Station, Grange Road, Batley Licence Holder Address: New York Road, Leeds	Waste Licence: Yes Site Reference: 4700/0290 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 09/11/1981 Licence Surrender: 30/04/1994	Operator: - Licence Holder: North East Gas First Recorded 31/12/1981 Last Recorded: 31/12/1990

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

3.5 Historical waste sites

Records within 500m

13

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

Features are displayed on the Waste and landfill map on **page 58**



ID	Location	Address	Further Details	Date
A	89m E	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1997
A	89m E	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1995
A	89m E	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1980
A	89m E	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1981
A	90m E	Site Address: N/A	Type of Site: Scrap Metal Yard Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1973
D	273m S	Site Address: N/A	Type of Site: Oil and Waste Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
D	273m S	Site Address: N/A	Type of Site: Oil and Waste Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1962
D	276m S	Site Address: N/A	Type of Site: Oil & Waste Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1922
D	276m S	Site Address: N/A	Type of Site: Oil & Waste Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933



ID	Location	Address	Further Details	Date
D	276m S	Site Address: N/A	Type of Site: Oil & Waste Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1938
D	314m S	Site Address: N/A	Type of Site: Oil and Waste Mills Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1955
4	456m W	Site Address: N/A	Type of Site: Ground Workings and Refuse Heap Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1933
5	466m NW	Site Address: Tesco Stores Ltd, Bradford Road, BATLEY, West Yorkshire, WF17 5JU	Type of Site: Waste Transfer Station Planning application reference: 2007/62/94380/E1 Description: Scheme comprises re-siting of recycling area including replacement of recycling units with a single tomra recycling unit including associated enabling works and recycling area to be reinstated with 11 parking bays. Construction - black top surfacing works. An application (ref: 2007/62/94380/E1) for detailed planning permission was refused by Kirklees B.C. Planning decision obtained Data source: Historic Planning Application Data Type: Point	-

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

3.6 Licensed waste sites

Records within 500m

4

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 58**



ID	Location	Details		
A	103m NE	Site Name: - Site Address: 54, Upper Station Road, Batley, West Yorkshire, WF17 5TA Correspondence Address: 54, Upper Station Road, Batley, West Yorkshire, WF17 5TA	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RSP002 EPR reference: - Operator: R Spivey & Sons Limited Waste Management licence No: 61030 Annual Tonnage: 0	Issue Date: 04/01/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	103m NE	Site Name: - Site Address: 54, Upper Station Road, Batley, West Yorkshire, WF17 5TA Correspondence Address: 54, Upper Station Road, Batley, West Yorkshire, WF17 5TA	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RSP002 EPR reference: - Operator: R Spivey & Son Limited Waste Management licence No: 61030 Annual Tonnage: 0	Issue Date: 04/01/1994 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
A	103m NE	Site Name: Upper Station Road Site Address: 54, Upper Station Road, Batley, West Yorkshire, WF17 5TA Correspondence Address: -	Type of Site: Material Recycling Treatment Facility Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: RSP002 EPR reference: EA/EPR/TP3095ZD/V003 Operator: R Spivey & Son Ltd Waste Management licence No: 61030 Annual Tonnage: 4999	Issue Date: 04/01/1994 Effective Date: - Modified: 29/02/2016 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
D	314m S	Site Name: Batley Car Spares Site Address: Union Mills, Rouse Mill Lane, Batley, West Yorkshire, WF17 5QB Correspondence Address: -	Type of Site: Metal Recycling Site (Vehicle Dismantler) Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: FIN001 EPR reference: EA/EPR/KP3195ZZ/A001 Operator: Finnemore Alan Waste Management licence No: 61027 Annual Tonnage: 4999	Issue Date: 18/03/1992 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered

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



3.7 Waste exemptions

Records within 500m

24

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 58**

ID	Location	Site	Reference	Category	Sub-Category	Description
B	100m NW	3-5, Oxford Terrace, off Soothill Lane, Batley, WF17 5ST	WEX259856	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
B	110m N	3-5, OXFORD TERRACE, BATLEY, WF17 5SR	WEX162639	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
A	114m N	3-5, Oxford Terrace, off Soothill Lane, Batley, WF17 5ST	WEX118757	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
A	141m N	3/5 oxford Terrace off Soothill Lane Batley West Yorkshire WF17 5ST	EPR/XE5144H U/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
C	239m NW	HICKWELL MILLS, UNIT 1, HICK LANE, BATLEY, WF17 5TD	WEX239659	Using waste exemption	Not on a farm	Use of waste for a specified purpose
C	239m NW	HICKWELL MILLS, UNIT 1, HICK LANE, BATLEY, WF17 5TD	WEX239659	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
C	239m NW	HICKWELL MILLS, UNIT 1, HICK LANE, BATLEY, WF17 5TD	WEX239659	Treating waste exemption	Not on a farm	Recovery of textiles
C	239m NW	HICKWELL MILLS, UNIT 1, HICK LANE, BATLEY, WF17 5TD	WEX239659	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	239m NW	HICKWELL MILLS, UNIT 1, HICK LANE, BATLEY, WF17 5TD	WEX255796	Treating waste exemption	Not on a farm	Manual treatment of waste
C	239m NW	32, GRANGE ROAD, STAINCLIFFE, BATLEY, WF17 7AT	WEX096907	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	239m NW	32, GRANGE ROAD, STAINCLIFFE, BATLEY, WF17 7AT	WEX096907	Using waste exemption	Not on a farm	Use of waste for a specified purpose

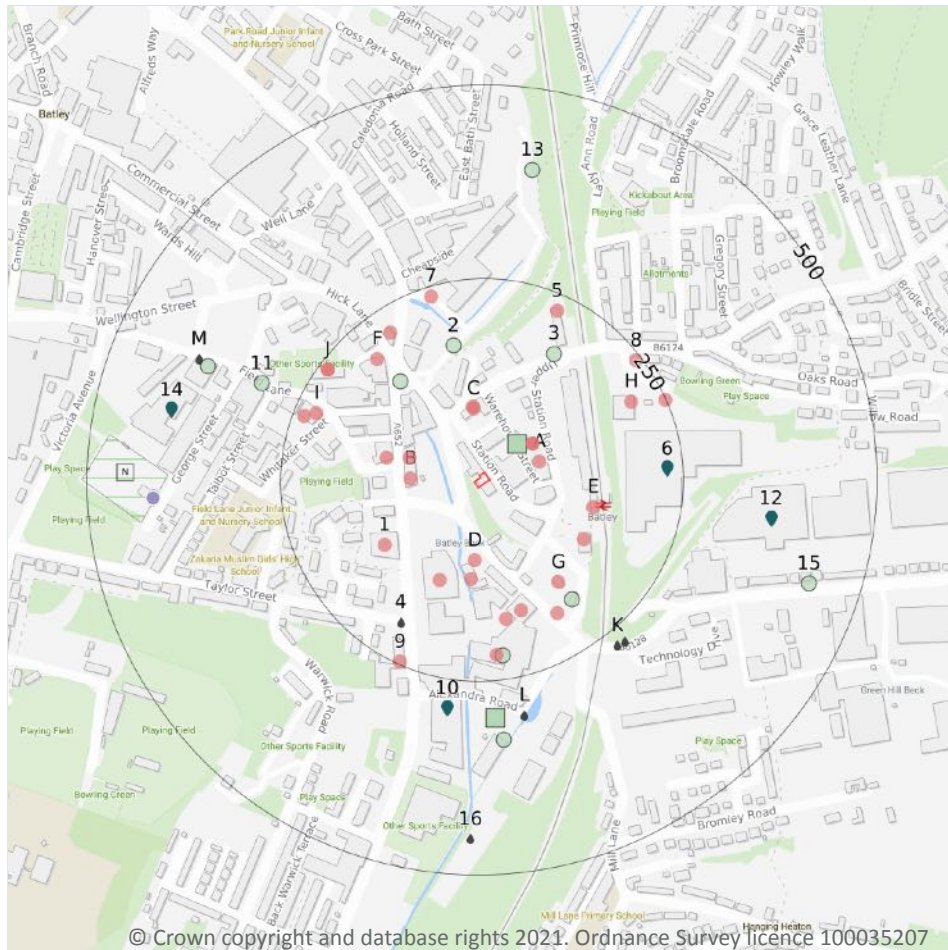


ID	Location	Site	Reference	Category	Sub-Category	Description
C	239m NW	32, GRANGE ROAD, STAINCLIFFE, BATLEY, WF17 7AT	WEX096907	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
C	239m NW	32, GRANGE ROAD, STAINCLIFFE, BATLEY, WF17 7AT	WEX096907	Treating waste exemption	Not on a farm	Recovery of textiles
E	350m NW	422, Bradford road, Dewsbury, Wf17 5ls	WEX062064	Treating waste exemption	Not on a farm	Manual treatment of waste
E	350m NW	Unit 422j, BRADFORD ROAD, BATLEY, WF17 5LS	WEX015871	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	350m NW	Unit 422j, BRADFORD ROAD, BATLEY, WF17 5LS	WEX015871	Treating waste exemption	Not on a farm	Sorting mixed waste
E	350m NW	Unit 422j, BRADFORD ROAD, BATLEY, WF17 5LS	WEX015871	Treating waste exemption	Not on a farm	Recovery of textiles
E	350m NW	Unit 422j, BRADFORD ROAD, BATLEY, WF17 5LS	WEX015871	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
3	392m SE	GREENHILL MILLS GRANGE ROAD BATLEY WEST YORKSHIRE WF17 6LH	EPR/QF0507K K/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
F	411m W	Unit 11 & 14, New Ing Mills, Field Lane, Batley, WF17 5AE	WEX115643	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	411m W	Unit 11 & 14, New Ing Mills, Field Lane, Batley, WF17 5AE	WEX115643	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
F	411m W	Unit 11 & 14, New Ing Mills, Field Lane, Batley, WF17 5AE	WEX115643	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
F	411m W	unit 14 new ing mill field lane dewsbury yorkshire wf17 5ae	EPR/BF0504FX /A001	Treating waste exemption	Non-Agricultural Waste Only	Manual treatment of waste
F	412m W	New Ings Mill Field Lane BATLEY West Yorkshire WF17 5AE	EPR/RF0007P M/A001	Treating waste exemption	Non-Agricultural Waste Only	Manual treatment of waste

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- Control of Major Accident Hazards
- Historical licensed industrial activities
- ⬮ Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- List 2 Dangerous Substances
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

31

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 65**

ID	Location	Company	Address	Activity	Category
A	69m E	Dreamers Ltd	Sovereign House 53, Upper Station Road, Batley, West Yorkshire, WF17 5TA	Beds and Bedding	Consumer Products
A	72m NE	Works	West Yorkshire, WF17	Unspecified Works Or Factories	Industrial Features
A	73m NE	Spivey & Sons	54, Upper Station Road, Batley, West Yorkshire, WF17 5TA	Packaging	Industrial Products



ID	Location	Company	Address	Activity	Category
B	82m W	Hudson & Taylor	286, Bradford Road, Batley, West Yorkshire, WF17 5PW	Beds and Bedding	Consumer Products
C	84m N	P & J Distribution Ltd	25, Station Road, Batley, West Yorkshire, WF17 5SU	Fences, Gates and Railings	Industrial Products
C	86m N	Works	West Yorkshire, WF17	Unspecified Works Or Factories	Industrial Features
B	90m W	Factory	West Yorkshire, WF17	Unspecified Works Or Factories	Industrial Features
D	94m S	Electricity Sub Station	West Yorkshire, WF17	Electrical Features	Infrastructure and Facilities
B	117m W	Data Signs & Graphics	1, Field Lane, Batley, West Yorkshire, WF17 5PN	Signs	Industrial Products
D	118m S	My New Furniture	Unit 13 Bottoms Mill 9, Rouse Mill Lane, Batley, West Yorkshire, WF17 5QB	Beds and Bedding	Consumer Products
D	130m SW	Evans Halshaw Batley	268, Bradford Road, Batley, West Yorkshire, WF17 6HT	New Vehicles	Motoring
E	139m E	Batley Rail Station	West Yorkshire, WF17	Railway Stations, Junctions and Halts	Public Transport, Stations and Infrastructure
1	142m SW	Alex Tyres	351, Bradford Road, Batley, West Yorkshire, WF17 5PQ	Vehicle Parts and Accessories	Motoring
E	144m SE	Binks Brothers	Back Station Road, Batley, West Yorkshire, WF17 5SZ	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	159m SE	N L Commercial s	15, Rouse Mill Lane, Batley, West Yorkshire, WF17 5QB	Vehicle Hire and Rental	Hire Services
G	167m S	One Stop Auto Solutions	Unit 5 Providence Works 9, Rouse Mill Lane, Batley, West Yorkshire, WF17 5QB	Vehicle Repair, Testing and Servicing	Repair and Servicing
G	174m S	Works	West Yorkshire, WF17	Unspecified Works Or Factories	Industrial Features
G	191m SE	Electricity Sub Station	West Yorkshire, WF17	Electrical Features	Infrastructure and Facilities
F	200m NW	Zen Audio	381, Bradford Road, Batley, West Yorkshire, WF17 5PH	Electronic Equipment	Industrial Products
H	209m NE	Tank	West Yorkshire, WF17	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
G	217m S	Dreem Beds Ltd	Alexandra Mills, Alexandra Road, Batley, West Yorkshire, WF17 6JA	Beds and Bedding	Consumer Products
F	217m NW	Batley Barless	401, Bradford Road, Batley, West Yorkshire, WF17 5LY	Industrial Repairs and Servicing	Repair and Servicing
I	222m NW	Works	West Yorkshire, WF17	Unspecified Works Or Factories	Industrial Features
5	229m NE	Impress Blinds	Unit 1 Chopdat Industrial Estate, Soothill Lane, Batley, West Yorkshire, WF17 5SS	Curtains and Blinds	Consumer Products
I	235m W	Autofix	26, Field Lane, Batley, West Yorkshire, WF17 5AG	Vehicle Repair, Testing and Servicing	Repair and Servicing
7	238m N	Electricity Sub Station	West Yorkshire, WF17	Electrical Features	Infrastructure and Facilities
J	239m NW	Hammersmith UK Beds	Unit 1 Hickwell Mills, Hick Lane, Batley, West Yorkshire, WF17 5TD	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
J	239m NW	Quilting 4 U	Quilting 4u Ltd Unit 11 GF Hick Well Mills, Hick Lane, Batley, West Yorkshire, WF17 5TD	Beds and Bedding	Consumer Products
8	243m NE	Electricity Sub Station	West Yorkshire, WF17	Electrical Features	Infrastructure and Facilities
9	246m SW	White Rose Leisure	317, Bradford Road, Batley, West Yorkshire, WF17 6HY	Hobby, Sports and Pastime Products	Consumer Products
H	249m NE	Tank	West Yorkshire, WF17	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

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**1**

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.

Features are displayed on the Current industrial land use map on **page 65**

ID	Location	Company	Address	Operational status	Tier
N	395m W	Viking Polymers	Viking Polymers, 2 George Street, Bateley, WF17 5AU	Historical NIHHS Site	-

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

7

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 65**

ID	Location	Details	
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: AK0863	Original Permit Number: IPCAIRAPP Date Approved: 14-12-1993 Effective Date: 14-12-1993 Status: Superseded By Variation
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: AX6435	Original Permit Number: IPCMINVAR Date Approved: 7-1-1997 Effective Date: 20-1-1997 Status: Superseded By Variation
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: AY1765	Original Permit Number: IPCMINVAR Date Approved: 28-2-1997 Effective Date: 1-3-1997 Status: Superseded By Variation
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: BD8860	Original Permit Number: IPCMINVAR Date Approved: 24-11-1998 Effective Date: 30-11-1998 Status: Superseded By Variation
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: BG3112	Original Permit Number: IPCMINVAR Date Approved: 6-8-1999 Effective Date: 9-8-1999 Status: Superseded By Variation

ID	Location	Details	
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: BK8044	Original Permit Number: IPCMINVAR Date Approved: 30-3-2001 Effective Date: 30-3-2001 Status: Superseded By Variation
N	415m W	Operator: Synthomer Ltd Address: 2 George Street, Batley, West Yorkshire, WF17 5AU Process: Manufacture And Use Of Organic Chemicals Permit Number: BR9278	Original Permit Number: IPCMINVAR Date Approved: 22-4-2002 Effective Date: 29-4-2002 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

3

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 65**

ID	Location	Details	
N	415m W	Operator: SYNTHOMER LTD Installation Name: GEORGE STREET CHEMICALS Process: ORGANIC CHEMICALS; PLASTIC MATERIALS EG POLYMERS Permit Number: GP3233LF Original Permit Number: GP3233LF	EPR Reference: - Issue Date: 30/11/2006 Effective Date: 30/11/2006 Last date noted as effective: 01/07/2021 Status: SUPERCEDED
N	415m W	Operator: SYNTHOMER LTD Installation Name: GEORGE STREET CHEMICALS Process: ORGANIC CHEMICALS; PLASTIC MATERIALS EG POLYMERS Permit Number: DP3839EB Original Permit Number: GP3233LF	EPR Reference: - Issue Date: - Effective Date: 07/02/2014 Last date noted as effective: 01/07/2021 Status: SURRENDER EFFECTIVE
N	415m W	Operator: SYNTHOMER LTD Installation Name: GEORGE STREET CHEMICALS Process: ORGANIC CHEMICALS; PLASTIC MATERIALS EG POLYMERS Permit Number: BP3234GL Original Permit Number: GP3233LF	EPR Reference: - Issue Date: 17/12/2008 Effective Date: 17/12/2008 Last date noted as effective: 01/07/2021 Status: SUPERCEDED

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



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

Records within 500m

4

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

Features are displayed on the Current industrial land use map on **page 65**

ID	Location	Address	Details	
6	229m E	Layzee Beds, Grange Rd, Batley, WF17 6LJ	Process: Timber Manufacture Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
10	287m S	Evans Halshaw (Ford), Bradford Road, Batley, WF17 6HT	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
12	366m E	Kelvin Reproduction Furniture Ltd, Grange Rd, Batley, WF17 6PB	Process: Coating Processes Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
14	402m W	G & K Enterprises, 9a New Ing Mills, Field Lane, Batley, WF17 5AE	Process: Pet Food Manufacture Status: Historical 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

8

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 65**



ID	Location	Address	Details	
4	200m SW	LITTLE LONDON CSO, SHEFFIELD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/B/34 Permit Version: 1 Receiving Water: RIVER CALDER	Status: TRANSFERRED FROM R(P)A 1951-1961 Issue date: 31/05/1963 Effective Date: 31/05/1963 Revocation Date: 10/06/1993
K	270m SE	BATLEY GRANGE ROAD CSO, GRANGE ROAD (REAR OF NO 90), BATLEY, WEST YORKSHIRE, WF17 6LW	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2844 Permit Version: 2 Receiving Water: BATLEY BECK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 15/03/2005 Effective Date: 31/03/2005 Revocation Date: 30/03/2018
K	271m SE	BATLEY GRANGE ROAD CSO, GRANGE ROAD (REAR OF NO 90), BATLEY, WEST YORKSHIRE, WF17 6LW	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 2844 Permit Version: 3 Receiving Water: GREENHILL DIKE CULVERTED	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 31/03/2018 Revocation Date: -
L	299m S	ALEXANDRA ROAD, BATLEY, NR DEWSBURY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC669 Permit Version: 1 Receiving Water: BATLEY BECK	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 18/09/1989 Effective Date: 18/09/1989 Revocation Date: 31/03/2005
L	299m S	ALEXANDRA ROAD, BATLEY, NR DEWSBURY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8674 Permit Version: 1 Receiving Water: BATLEY BECK	Status: REVOKED (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 11/03/2005 Effective Date: 01/04/2005 Revocation Date: 01/10/2009
M	389m NW	FIELD LANE, BATLEY, LEEDS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WADC923 Permit Version: 1 Receiving Water: BATLEY BECK	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 18/09/1989 Effective Date: 18/09/1989 Revocation Date: 30/03/2005
M	389m NW	FIELD LANE, BATLEY, LEEDS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: WRA8526 Permit Version: 1 Receiving Water: TRIBUTARY OF BATLEY BECK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 15/03/2005 Effective Date: 31/03/2005 Revocation Date: -



ID	Location	Address	Details	
16	453m S	LITTLE LONDON CSO, SHEFFIELD	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: S/B/34 Permit Version: 1 Receiving Water: RIVER CALDER	Status: TRANSFERRED FROM R(P)A 1951-1961 Issue date: 31/05/1963 Effective Date: 31/05/1963 Revocation Date: 10/06/1993

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	0
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Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0
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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.

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

4.17 List 2 Dangerous Substances

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

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 65**

ID	Location	Name	Status	Receiving Water	Authorised Substances
A	55m NE	R Spivey & Son Ltd, Station Road, Batley	Not Active	Unknown	Chromium, Copper, Lead, Zinc, Xylene
L	298m S	O'donnell And Stockwell Ltd, batley, wf17 6ja	Not Active	Unknown	Chromium

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

10

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 65**

ID	Location	Details	
F	158m NW	Incident Date: 22/07/2005 Incident Identification: 332006 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
2	168m N	Incident Date: 15/10/2002 Incident Identification: 114943 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
3	177m NE	Incident Date: 16/04/2002 Incident Identification: 72262 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)
G	187m SE	Incident Date: 04/10/2002 Incident Identification: 112485 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)
G	219m S	Incident Date: 12/06/2003 Incident Identification: 165180 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	302m NW	Incident Date: 23/11/2004 Incident Identification: 279000 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)



ID	Location	Details	
L	327m S	Incident Date: 12/06/2003 Incident Identification: 165150 Pollutant: Contaminated Water Pollutant Description: Firefighting Run-Off	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
M	374m NW	Incident Date: 14/06/2004 Incident Identification: 244133 Pollutant: Oils and Fuel Pollutant Description: Unidentified Oil	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
13	395m N	Incident Date: 19/06/2004 Incident Identification: 245599 Pollutant: Oils and Fuel Pollutant Description: Diesel	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
15	433m E	Incident Date: 13/12/2001 Incident Identification: 48120 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)

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

4.19 Pollution inventory substances

Records within 500m	0
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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.

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

4.20 Pollution inventory waste transfers

Records within 500m	0
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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.

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

4.21 Pollution inventory radioactive waste

Records within 500m

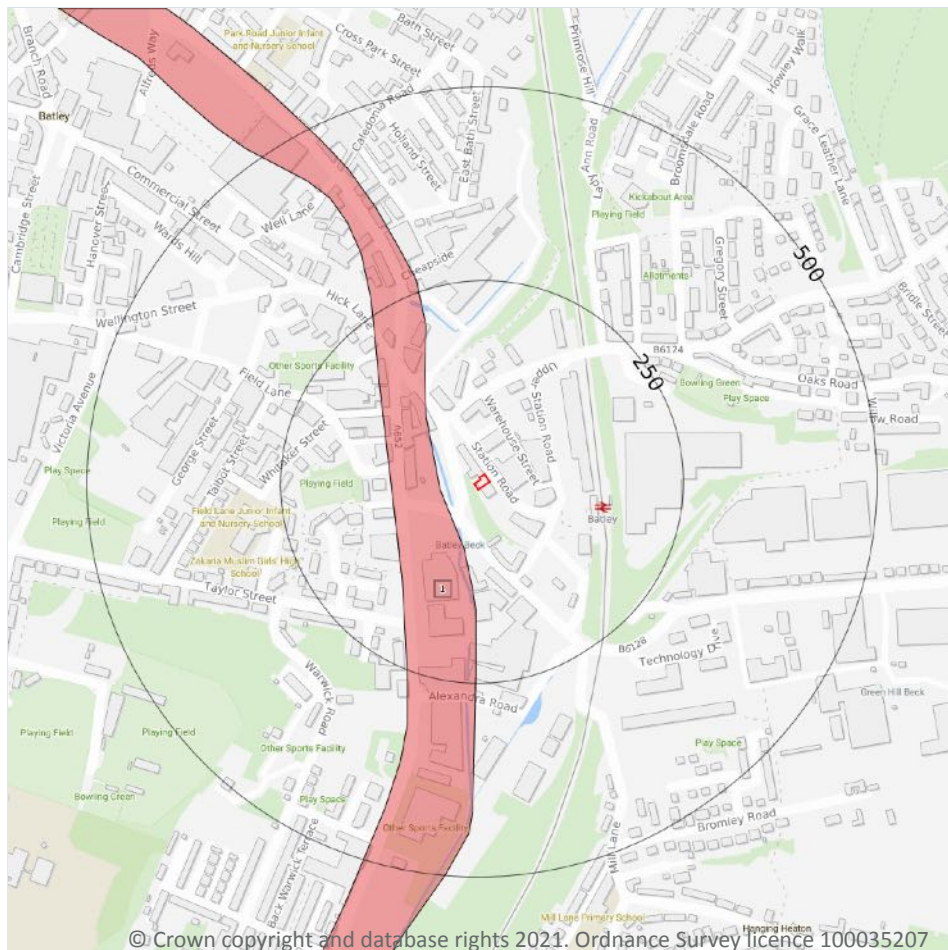
0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

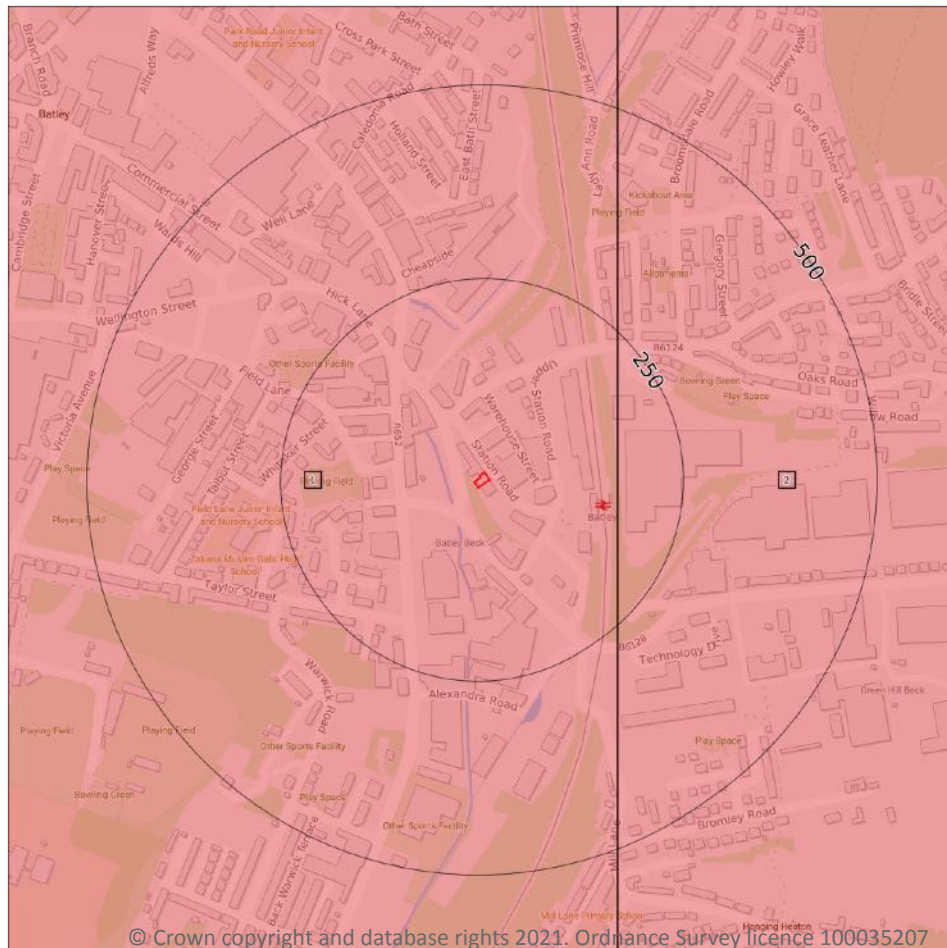
Features are displayed on the Hydrogeology map on **page 77**

ID	Location	Designation	Description
1	44m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 78**

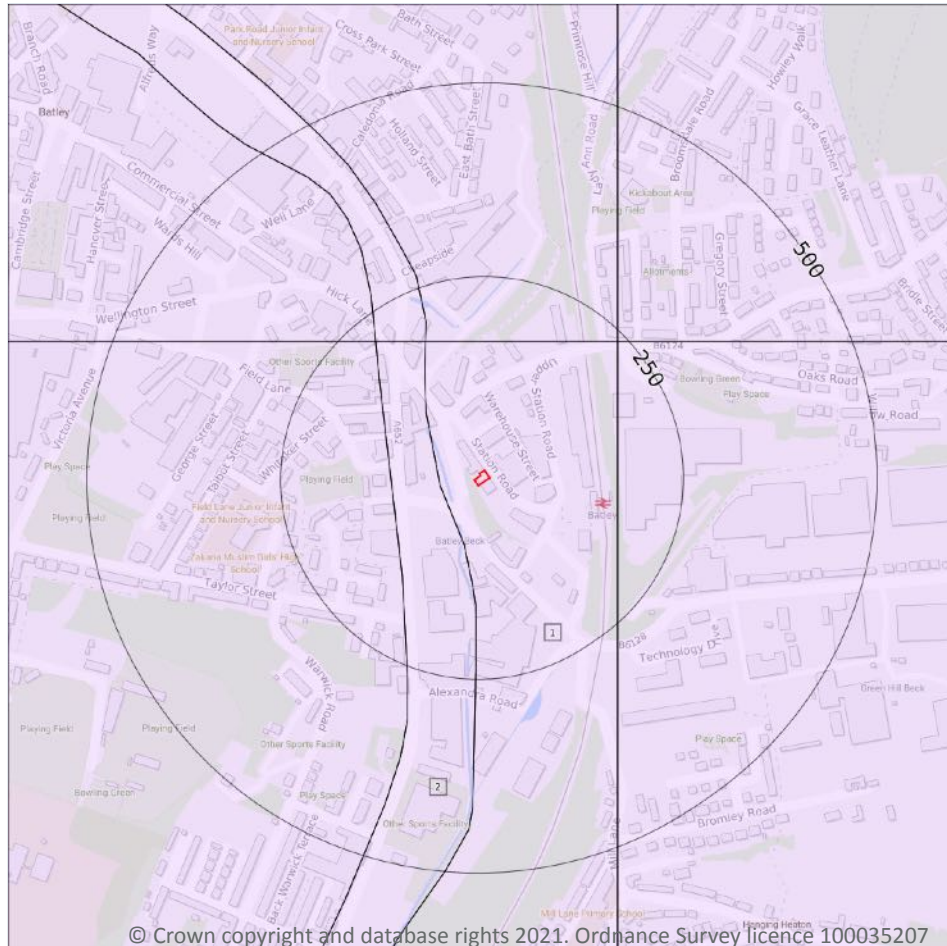
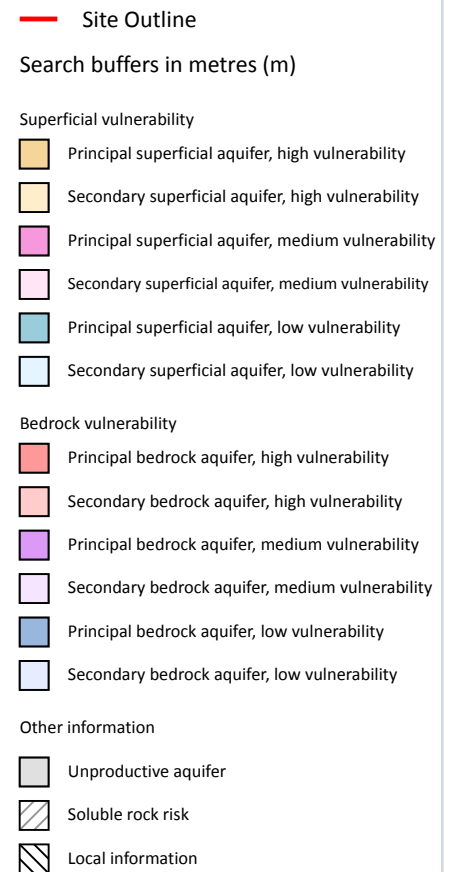
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	165m E	Secondary 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 80**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - Medium Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures
2	43m W	Summary Classification: Secondary bedrock aquifer - Medium 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: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: Medium Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

Records on site

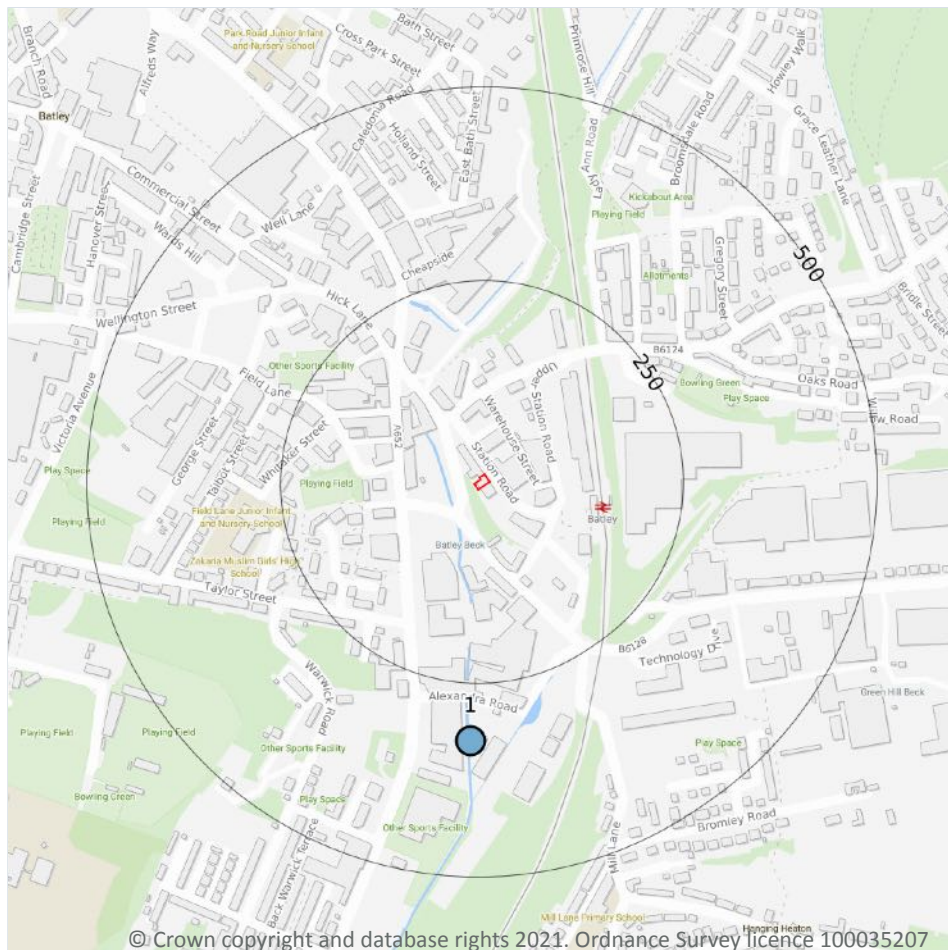
0

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

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



Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

12

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 82**

ID	Location	Details	
-	701m E	Status: Historical Licence No: 2/27/13/143 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: WHARFEDALE FINANCE COMPANY Easting: 425500 Northing: 423600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1990 Version End Date: -
-	701m E	Status: Historical Licence No: 2/27/13/143 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: WHARFEDALE FINANCE COMPANY Easting: 425500 Northing: 423600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1990 Version End Date: -
-	701m E	Status: Historical Licence No: 2/27/13/143 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - BATLEY Data Type: Point Name: WHARFEDALE FINANCE COMPANY Easting: 425500 Northing: 423600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1990 Version End Date: -
-	701m E	Status: Historical Licence No: 2/27/13/143 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - BATLEY Data Type: Point Name: WHARFEDALE FINANCE CO Easting: 425500 Northing: 423600	Annual Volume (m ³): 227000 Max Daily Volume (m ³): 621.92 Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 100 Version Start Date: 21/05/1990 Version End Date: -



ID	Location	Details	
-	1320m SW	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -
-	1320m SW	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -
-	1320m SW	Status: Historical Licence No: 2/27/13/046 Details: Process water Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -
-	1320m SW	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -



ID	Location	Details	
-	1320m SW	Status: Historical Licence No: 2/27/13/046 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -
-	1320m SW	Status: Historical Licence No: 2/27/13/046 Details: Process water Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - DEWSBURY Data Type: Point Name: JOSHUA ELLIS & COMPANY LIMITED Easting: 424300 Northing: 422600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 22/10/1997 Version End Date: -
-	1796m N	Status: Historical Licence No: 2/27/13/004 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: HOWLEY HALL GOLF CLUB LTD Easting: 425500 Northing: 425500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 Version End Date: -
-	1796m N	Status: Active Licence No: 2/27/13/004 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MORLEY Data Type: Point Name: HOWLEY HALL GOLF CLUB LTD Easting: 425500 Northing: 425500	Annual Volume (m ³): 6,364 Max Daily Volume (m ³): 63.64 Original Application No: - Original Start Date: 01/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 01/12/1965 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 82**

ID	Location	Details	
1	324m S	Status: Historical Licence No: 2/27/13/206 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: BATLEY BECK Data Type: Point Name: CULLINGWORTH SUMMERS & CO LTD Easting: 424810 Northing: 423490	Annual Volume (m ³): 11500 Max Daily Volume (m ³): 60 Original Application No: - Original Start Date: 21/08/2001 Expiry Date: 31/03/2015 Issue No: 2 Version Start Date: 23/05/2005 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0
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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
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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.

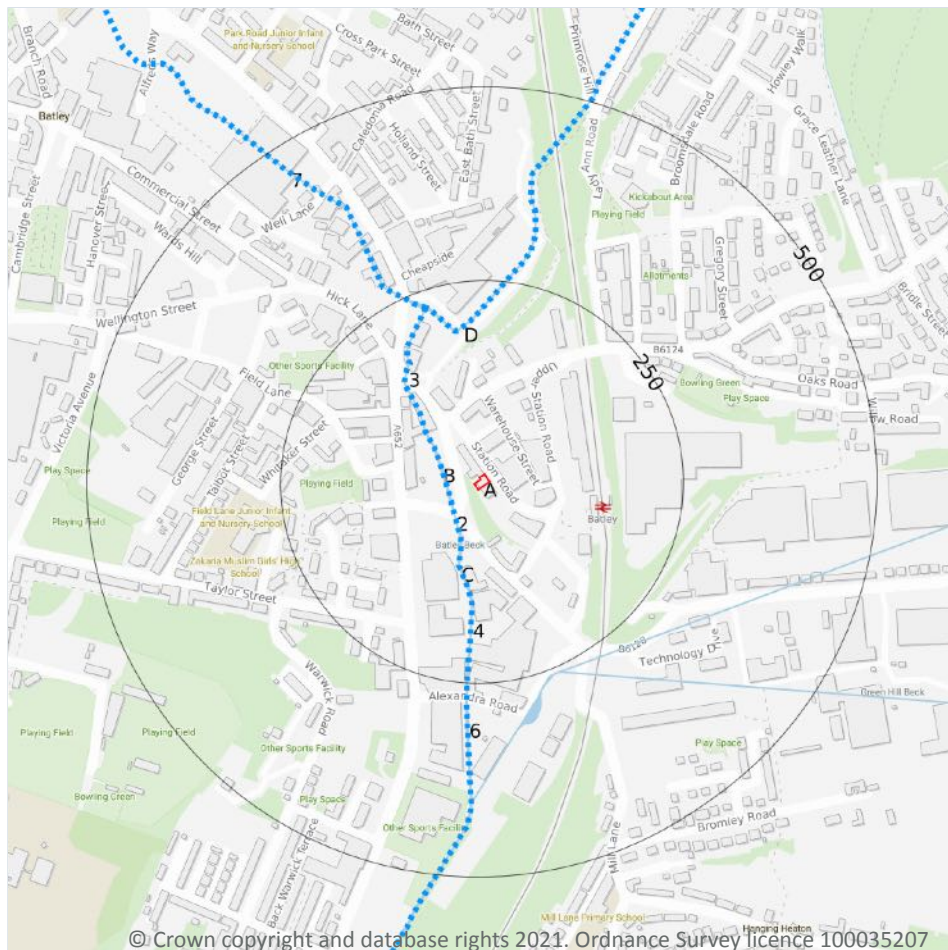
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0
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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

11

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 87**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	35m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck



ID	Location	Type of water feature	Ground level	Permanence	Name
2	39m SW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Batley Beck
C	55m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck
3	91m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck
4	147m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck
D	188m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Howley Beck
6	197m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck
D	224m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck
D	227m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck
D	232m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Howley Beck
7	244m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Batley Beck

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

5

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 87**



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 87**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Batley Beck from Source to River Calder	GB104027062670	Lower Calder	Aire and Calder

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 87**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	35m W	River	Batley Beck from Source to River Calder	GB104027062670	Moderate	Good	Moderate	2016

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.

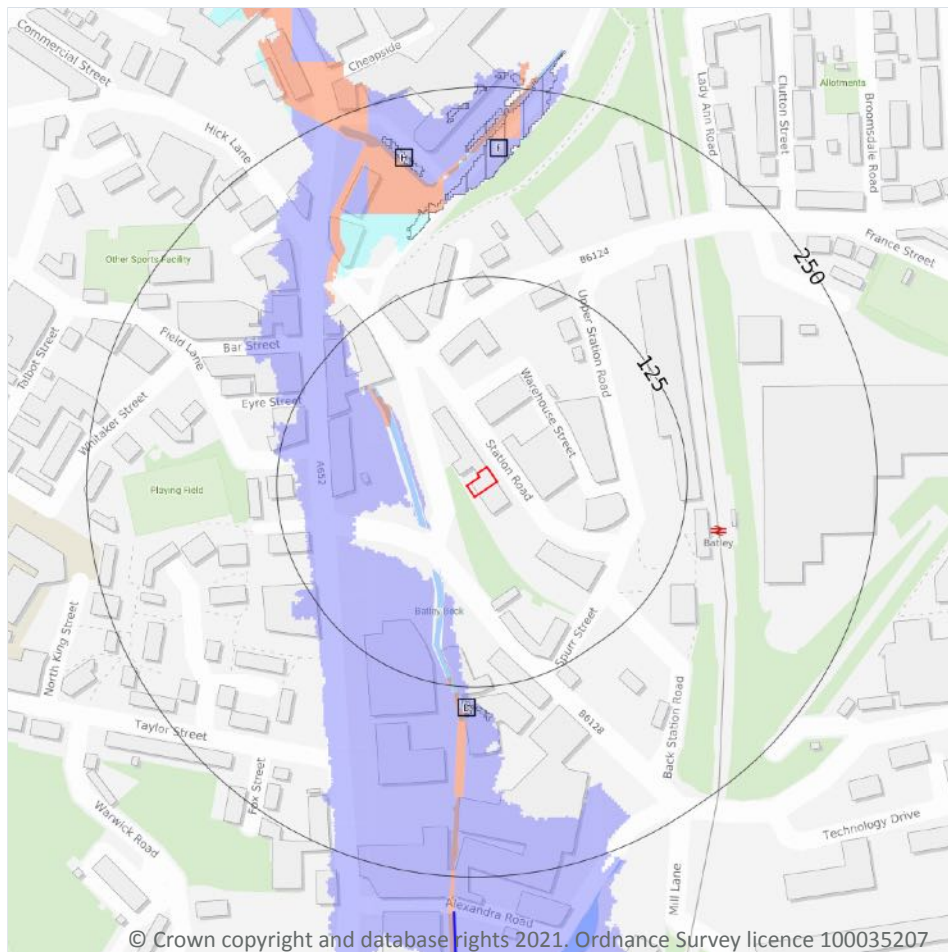
Features are displayed on the Hydrology map on **page 87**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Aire & Calder Carb Limestone / Millstone Grit / Coal Measures.	<u>GB40402G700400</u>	Poor	Poor	Good	2015

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



7 River and coastal flooding



- Site Outline
- Search buffers in metres (m)
- River and coastal flooding:
- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m

6

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 91**



Distance	Flood risk category
On site	N/A
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	8
----------------------------	----------

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.

Features are displayed on the River and coastal flooding map on **page 91**

ID	Location	
D	133m S	Area benefiting from flood defences
D	137m S	Area benefiting from flood defences
F	157m N	Area benefiting from flood defences
H	196m N	Area benefiting from flood defences
F	228m N	Area benefiting from flood defences

ID	Location	
F	236m N	Area benefiting from flood defences
F	238m N	Area benefiting from flood defences
F	245m N	Area benefiting from flood defences

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

7.5 Flood Storage Areas

Records within 250m

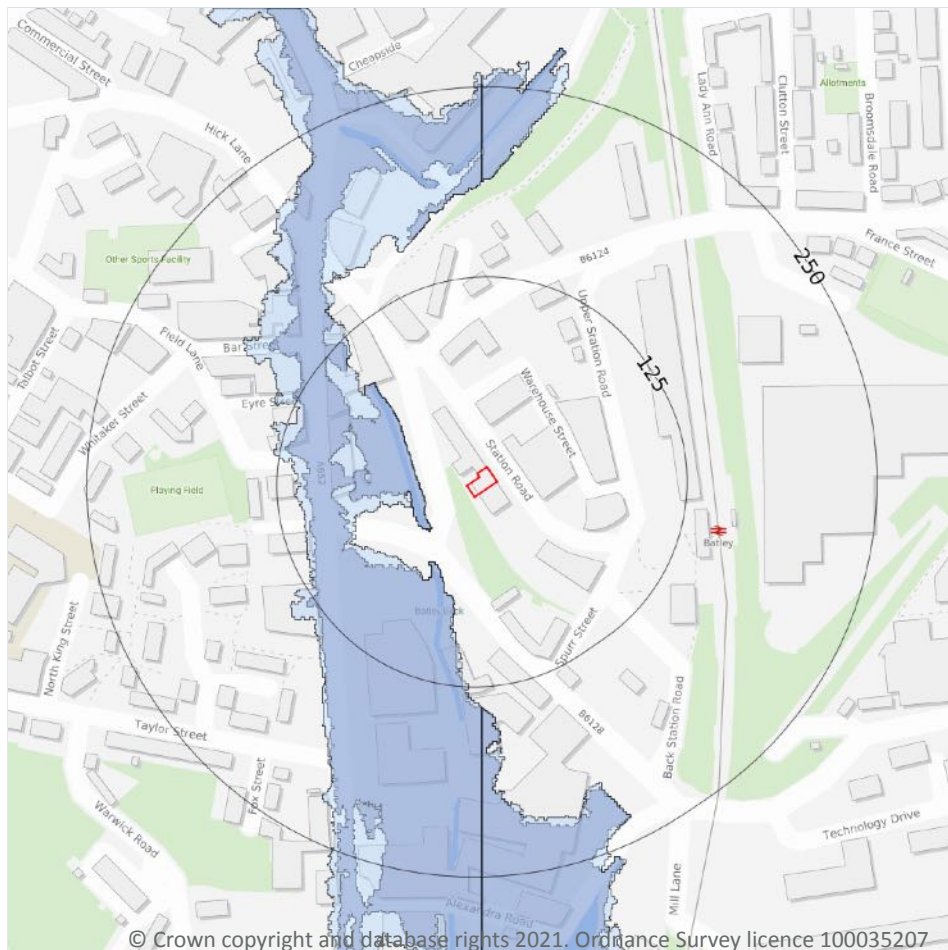
0

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



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- 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 91**

Location	Type
29m W	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.

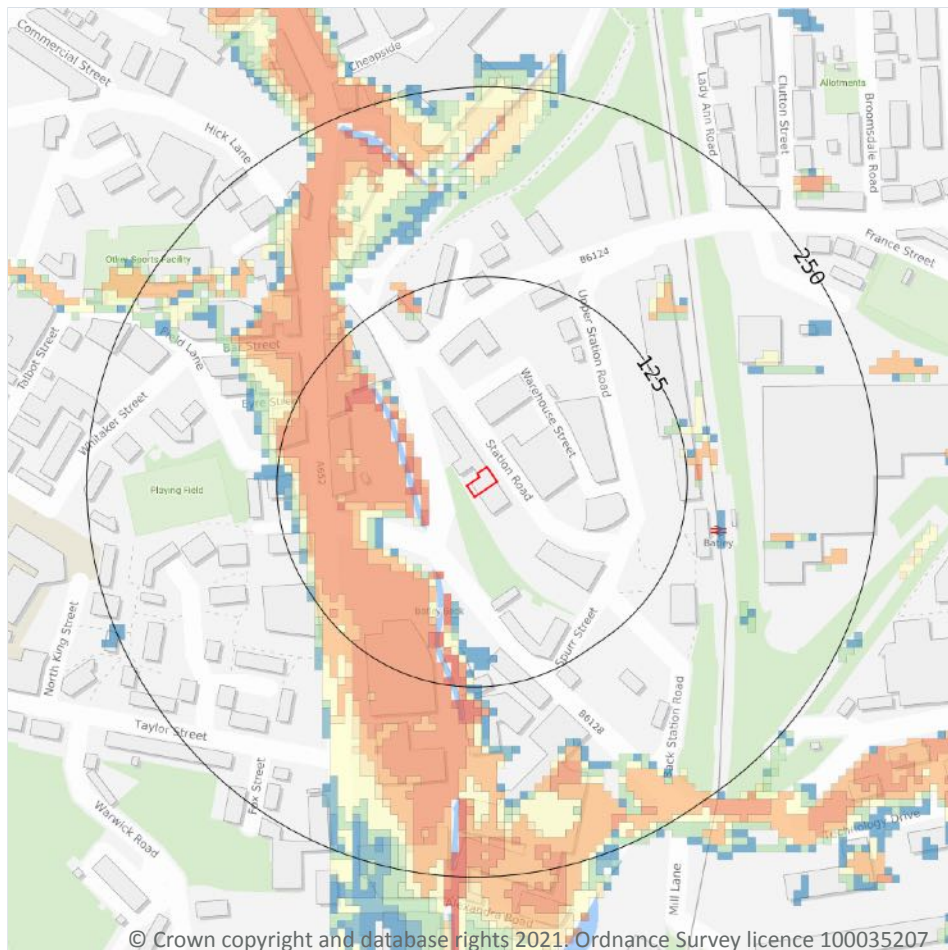
Features are displayed on the River and coastal flooding map on **page 91**

Location	Type
29m W	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on **page 96**

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



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

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

- High
- Moderate - High
- Moderate
- Low
- Negligible

9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

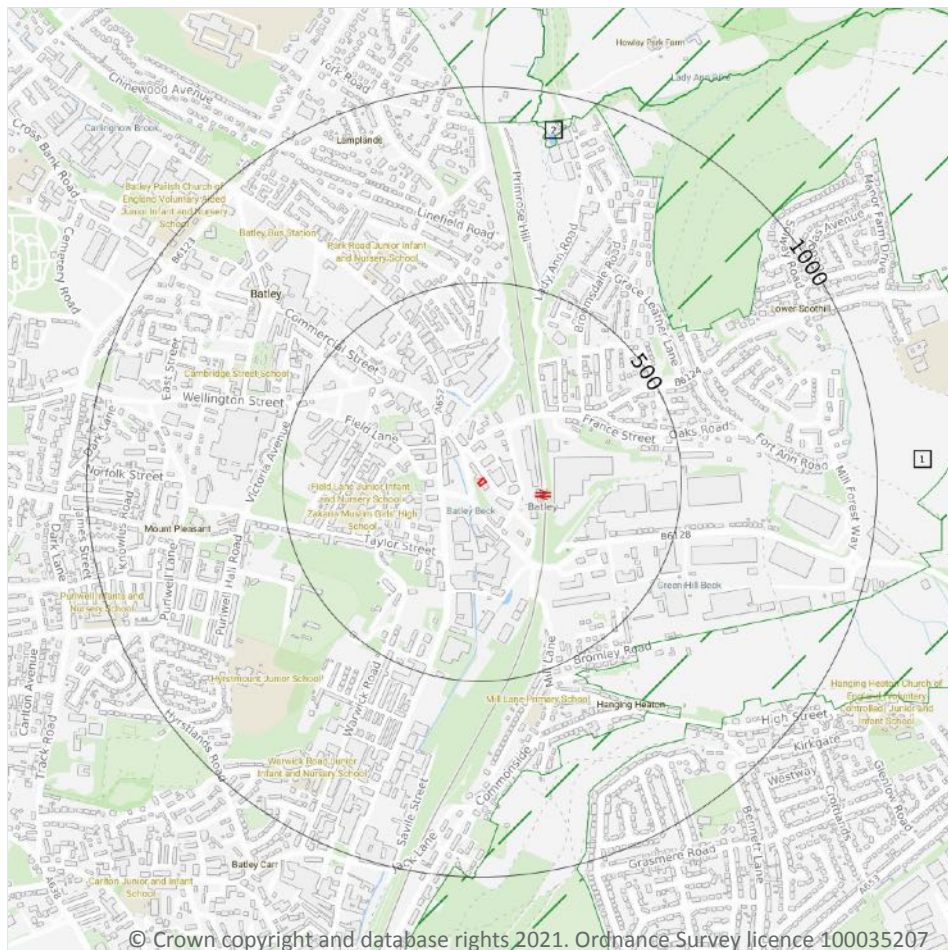
Low

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 98**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



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

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10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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



10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**2**

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

Features are displayed on the Environmental designations map on **page 99**

ID	Location	Name	Woodland Type
-	1828m N	Morley Spring Wood	Ancient Replanted Woodland
-	1900m E	Soothill Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

4

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

Features are displayed on the Environmental designations map on **page 99**

ID	Location	Name	Local Authority name
1	541m SE	South and West Yorkshire	Kirklees
2	861m N	South and West Yorkshire	Kirklees
3	907m N	South and West Yorkshire	Kirklees
4	920m N	South and West Yorkshire	Leeds

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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

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



10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**1**

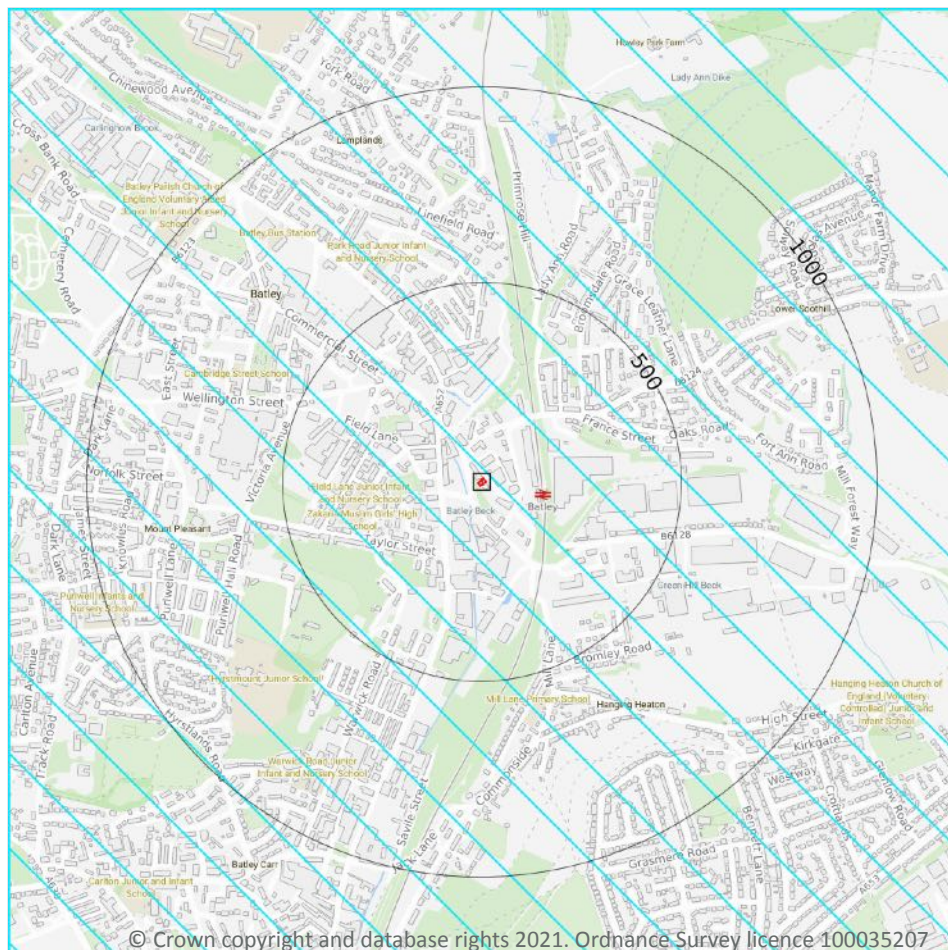
Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1815m W	Spenn Beck from Source to River Calder NVZ	Surface Water	S271	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 104**

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m², slurry lagoons > 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

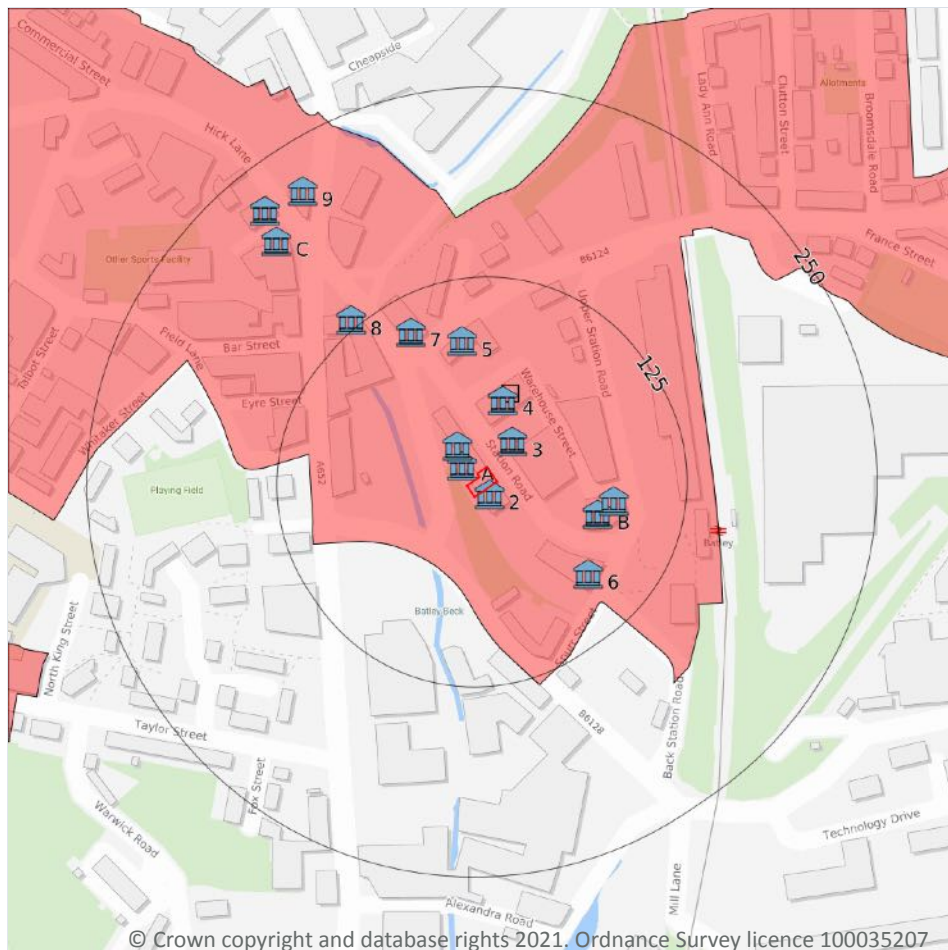
0

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



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

14

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

Features are displayed on the Visual and cultural designations map on **page 106**

ID	Location	Name	Grade	Reference Number	Listed date
2	4m SE	24 And 26, Station Road, Batley, Kirklees, WF17	II	1134619	17/04/1978
A	11m NW	20 And 22, Station Road, Batley, Kirklees, WF17	II	1184116	17/04/1978
A	22m NW	16 And 18, Station Road, Batley, Kirklees, WF17	II	1134618	17/04/1978
3	24m NE	35 And 37, Station Road, Batley, Kirklees, WF17	II	1300308	13/01/1984
4	45m N	Numbers 31 And 33 And Adjoining Warehouse, Batley, Kirklees, WF17	II	1134615	13/01/1984

ID	Location	Name	Grade	Reference Number	Listed date
B	70m E	The Xclusiv, Adjoining Number 51, Batley, Kirklees, WF17	II	1134617	13/01/1984
B	78m E	51, Station Road, Batley, Kirklees, WF17	II	1134616	13/01/1984
5	84m N	Number 25 And The Two Adjoining Warehouses, Batley, Kirklees, WF17	II	1184080	13/01/1984
6	85m SE	32-40, Station Road, Batley, Kirklees, WF17	II	1300286	23/04/1982
7	102m NW	Numbers 13, 15, 17, 19, 21 And 23 And Including Boundary Wall, Piers, Steps And Railings, Batley, Kirklees, WF17	II	1134614	13/01/1984
8	131m NW	2, 4, 6 And 8, Station Road, Batley, Kirklees, WF17	II	1184110	13/01/1984
C	202m NW	The National Westminster Bank, Batley, Kirklees, WF17	II	1135383	11/02/1993
9	219m NW	Batley Barless Fire Company, Batley, Kirklees, WF17	II	1134634	17/04/1983
C	223m NW	Midland Bank, Batley, Kirklees, WF17	II	1313696	13/01/1984

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 106**

ID	Location	Name	District	Date of designation
1	On site	Station Road	Kirklees	27/02/1987

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial



sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

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

11.7 Registered Parks and Gardens

Records within 250m

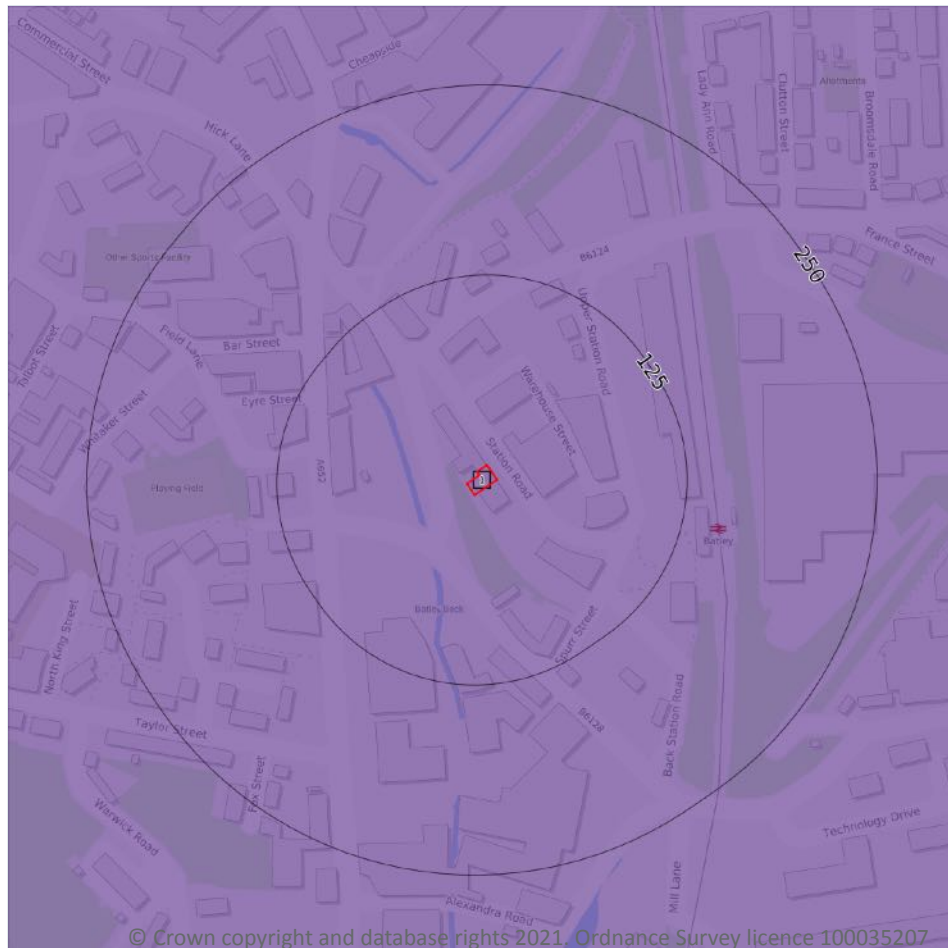
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 110**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m**0**

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

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

12.3 Tree Felling Licences

Records within 250m**0**

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m**0**

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m**0**

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

This data is sourced from Natural England.

13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

2

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

Features are displayed on the Habitat designations map on **page 112**

ID	Location	Main Habitat	Other habitats
1	189m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	244m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.



13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

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 112**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
2	244m SE	NLUD Ref: 471801039	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

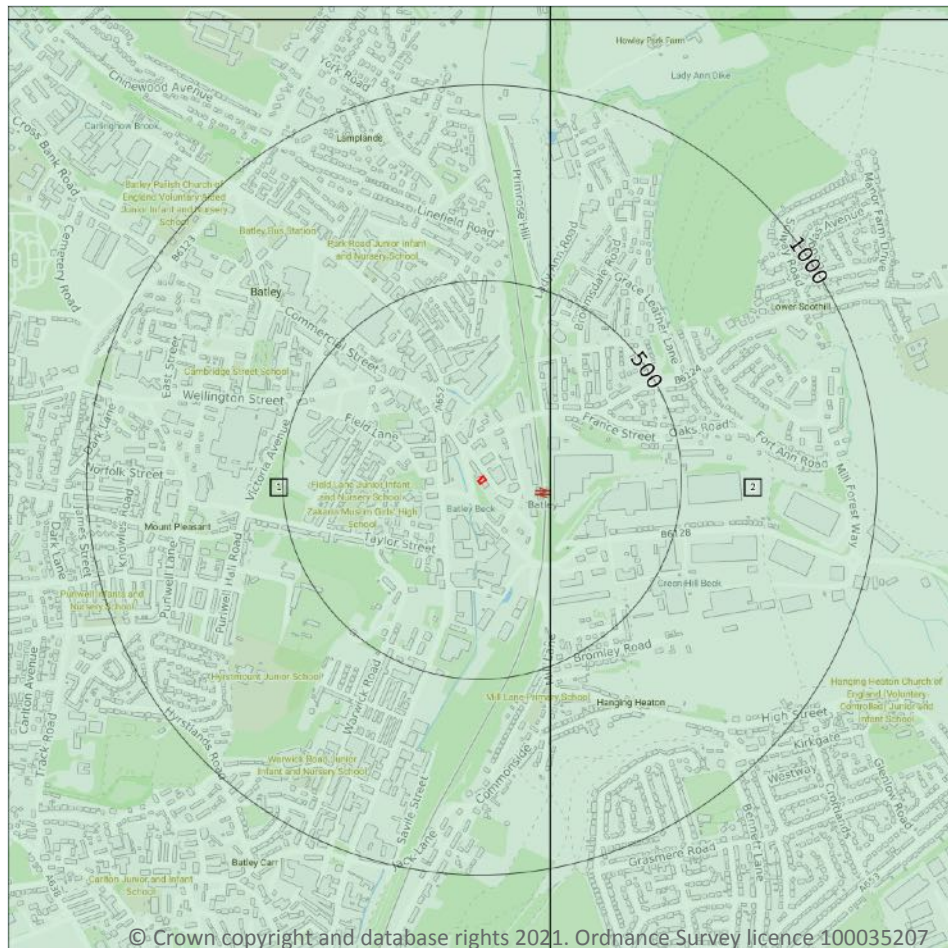
Records within 250m

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

2

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

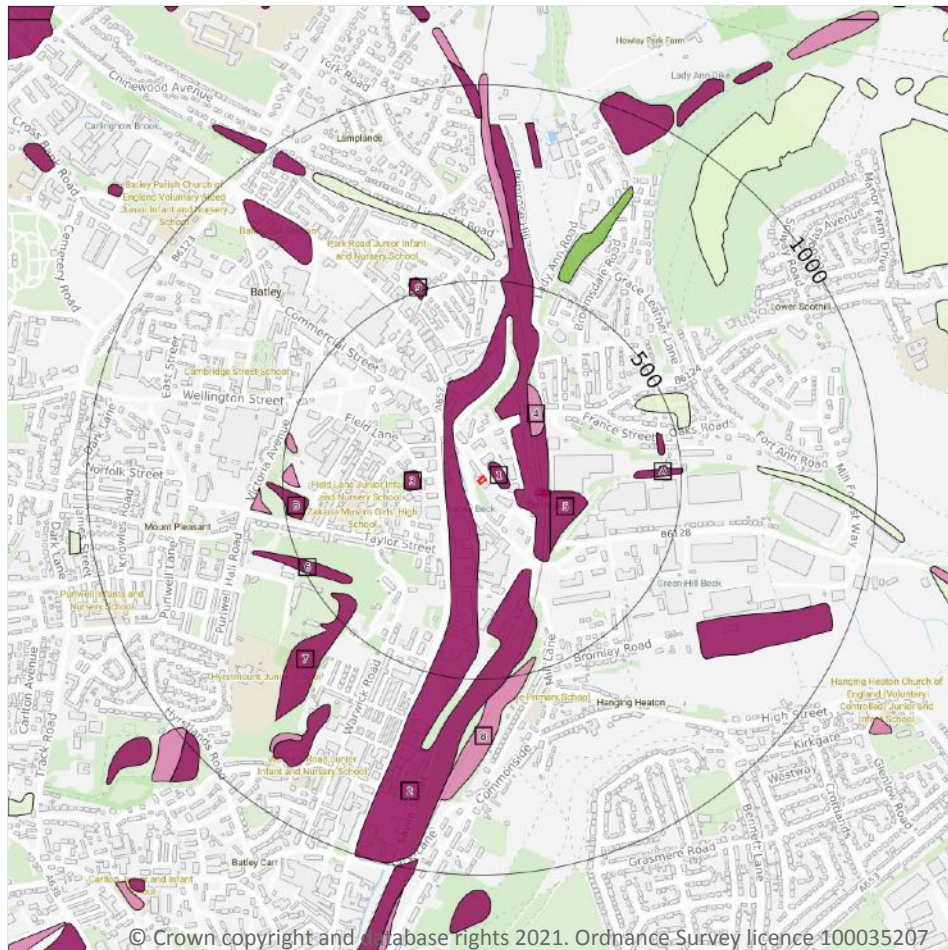
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 114**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE22SW
2	165m E	Full	Full	Full	No coverage	SE22SE

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

15

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 115**

ID	Location	LEX Code	Description	Rock description
1	21m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	41m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	148m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	160m NE	WGR-VOID	Worked Ground (Undivided)	Void

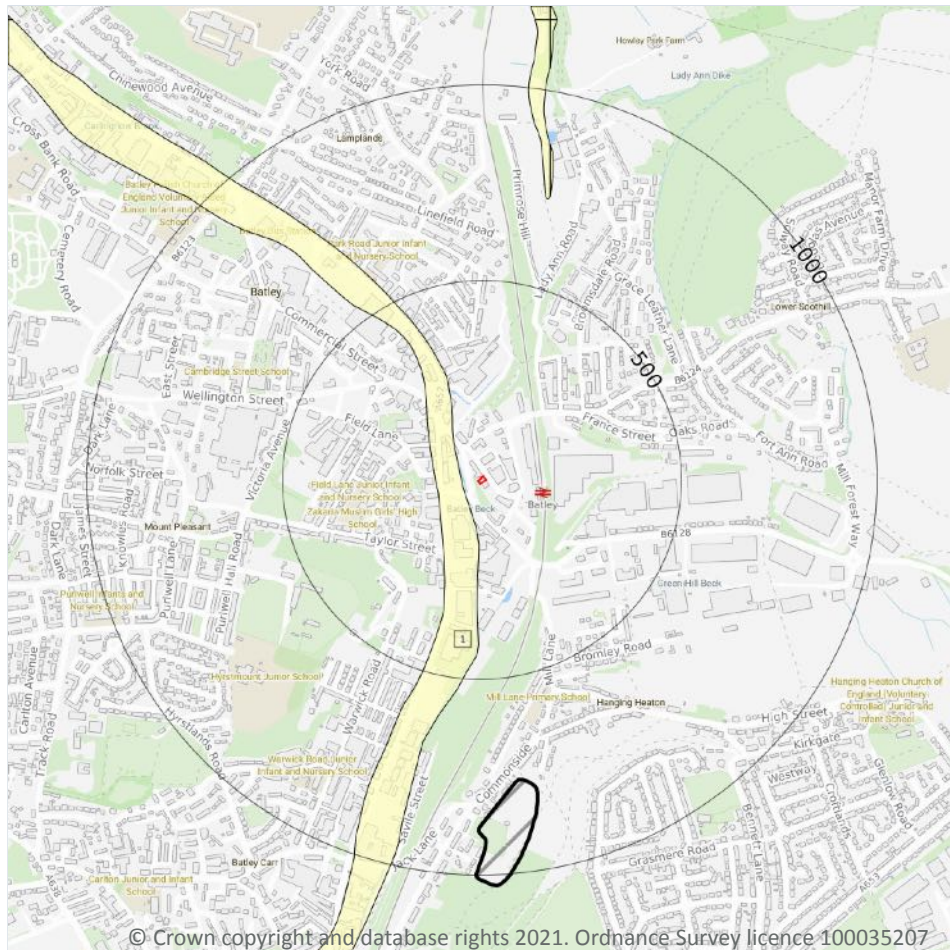


ID	Location	LEX Code	Description	Rock description
5	168m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	379m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	407m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	425m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	437m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	437m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	446m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	456m W	WGR-VOID	Worked Ground (Undivided)	Void
8	463m S	WGR-VOID	Worked Ground (Undivided)	Void
B	469m W	WGR-VOID	Worked Ground (Undivided)	Void
9	477m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



14.3 Superficial geology (10k)

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 117**

ID	Location	LEX Code	Description	Rock description
1	41m W	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

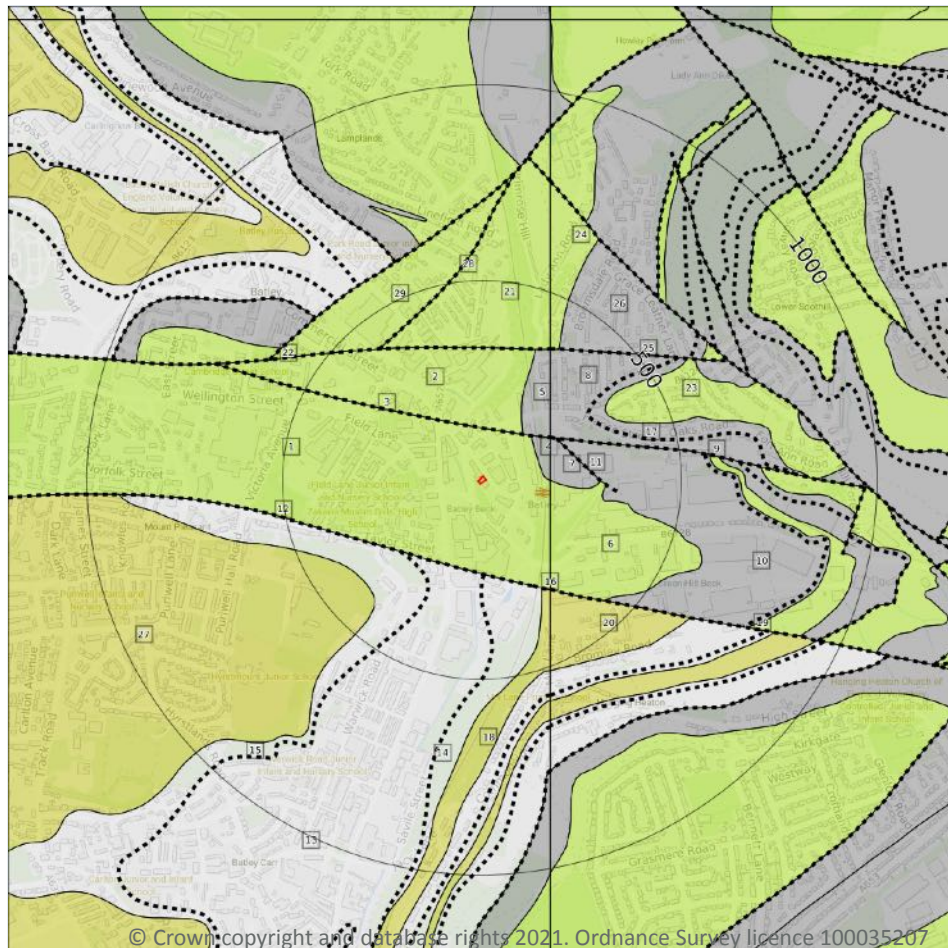
0

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

17

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 119**

ID	Location	LEX Code	Description	Rock age
1	On site	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
2	121m N	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
4	142m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovan Sub-age - Duckmantian Sub-age



ID	Location	LEX Code	Description	Rock age
5	147m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
6	165m E	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
7	165m E	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
8	198m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
10	210m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
13	221m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
18	310m SE	BRSR-SDST	Birstall Rock - Sandstone	Langsettian Sub-age
20	325m SE	BRSR-SDST	Birstall Rock - Sandstone	Langsettian Sub-age
21	328m N	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
23	353m NE	HMR-SDST	Haigh Moor Rock - Sandstone	Duckmantian Sub-age
24	367m NE	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age
26	378m NE	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovia Sub-age - Duckmantian Sub-age
27	387m SW	BRSR-SDST	Birstall Rock - Sandstone	Langsettian Sub-age
29	419m NW	TR-SDST	Thornhill Rock - Sandstone	Duckmantian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

12

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 119**

ID	Location	Category	Description
3	121m N	FAULT	Normal fault, inferred; downthrow not specified
9	198m NE	FAULT	Normal fault, inferred

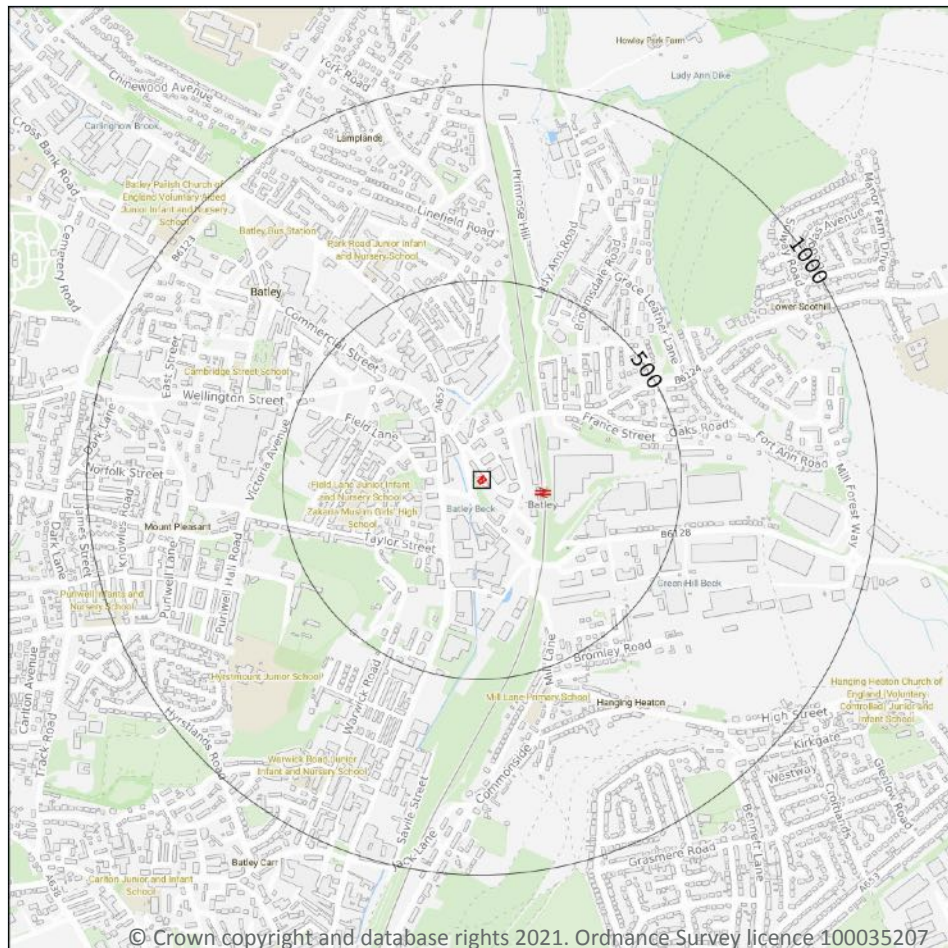


ID	Location	Category	Description
11	210m NE	FAULT	Normal fault, inferred
12	221m S	FAULT	Normal fault, inferred; downthrow not specified
14	232m S	ROCK	Coal seam, inferred
15	262m SW	ROCK	Coal seam, inferred
16	294m SE	FAULT	Normal fault, inferred; downthrow not specified
17	309m NE	ROCK	Coal seam, inferred
19	325m SE	FAULT	Normal fault, inferred
22	328m N	FAULT	Normal fault, inferred; downthrow not specified
25	367m NE	FAULT	Normal fault, inferred
28	419m NW	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

1

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

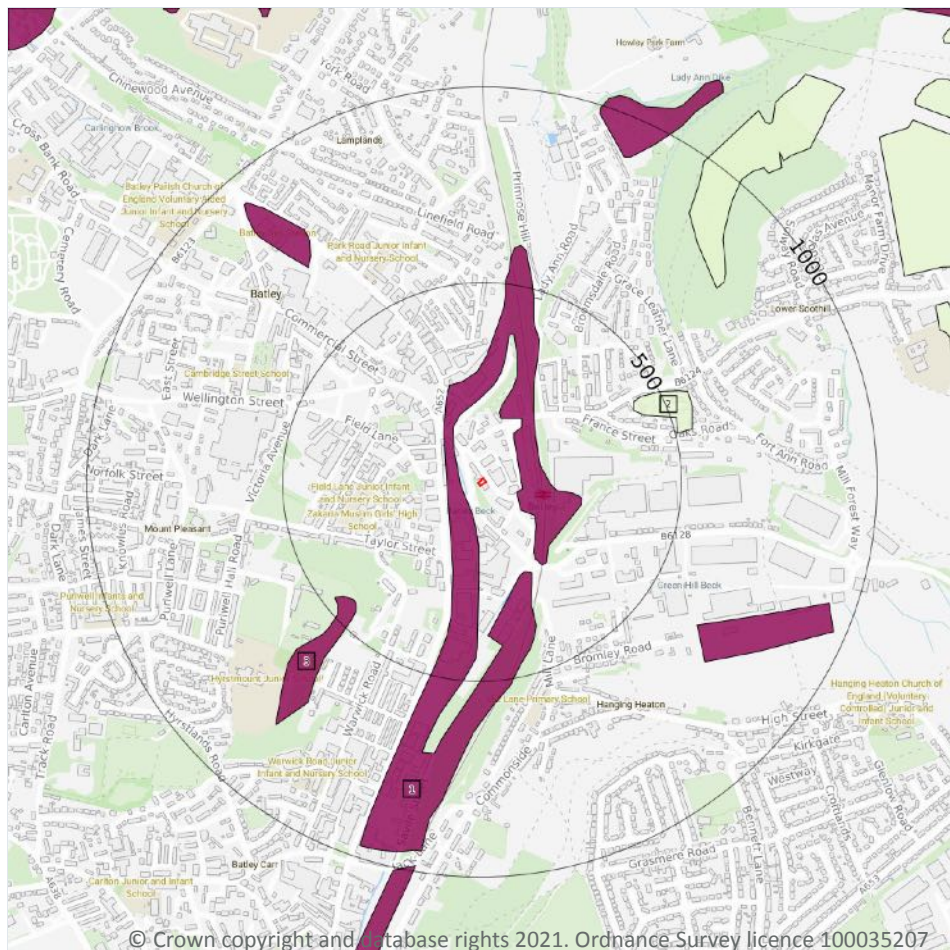
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 122**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW077_huddersfield_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

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15.2 Artificial and made ground (50k)

Records within 500m

3

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 123**

ID	Location	LEX Code	Description	Rock description
1	44m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	420m NE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
3	435m SW	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

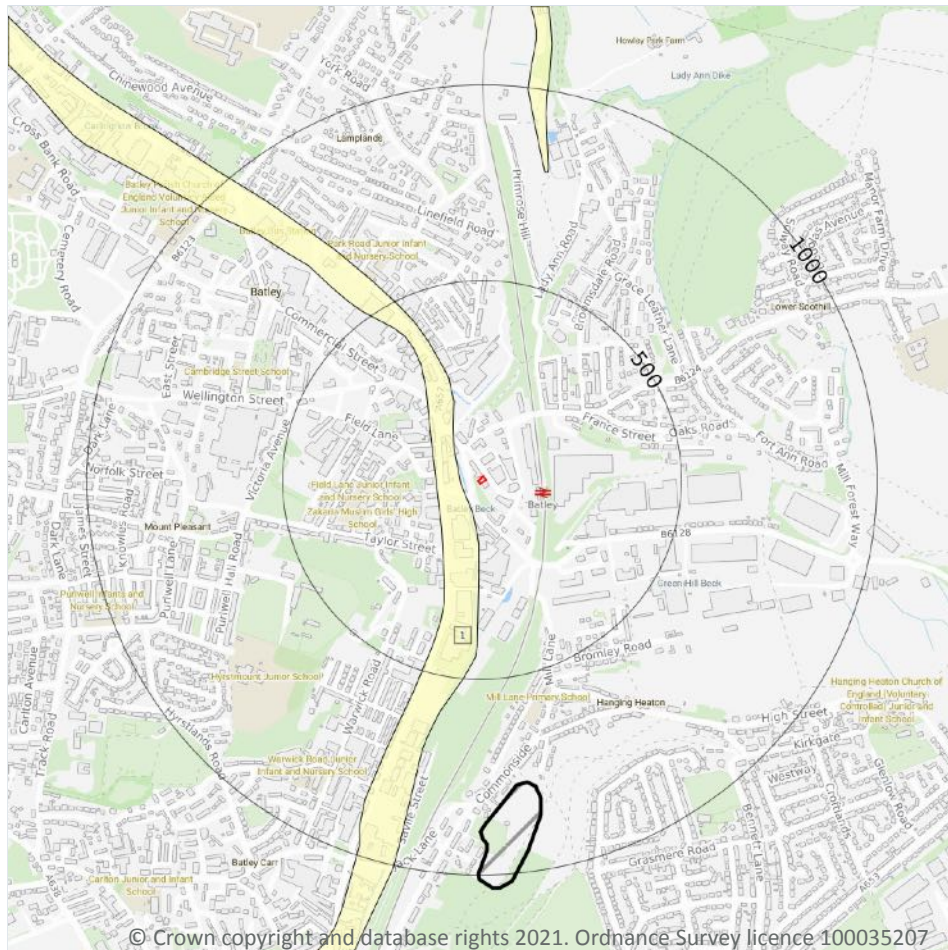
A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
44m S	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

1

Superficial geological deposits at 1:50,000 scale. Also known as 'drift', these are the youngest geological deposits, formed during the Quaternary. They rest on older deposits or rocks referred to as bedrock.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 125**

ID	Location	LEX Code	Description	Rock description
1	44m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, 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
44m SW	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)

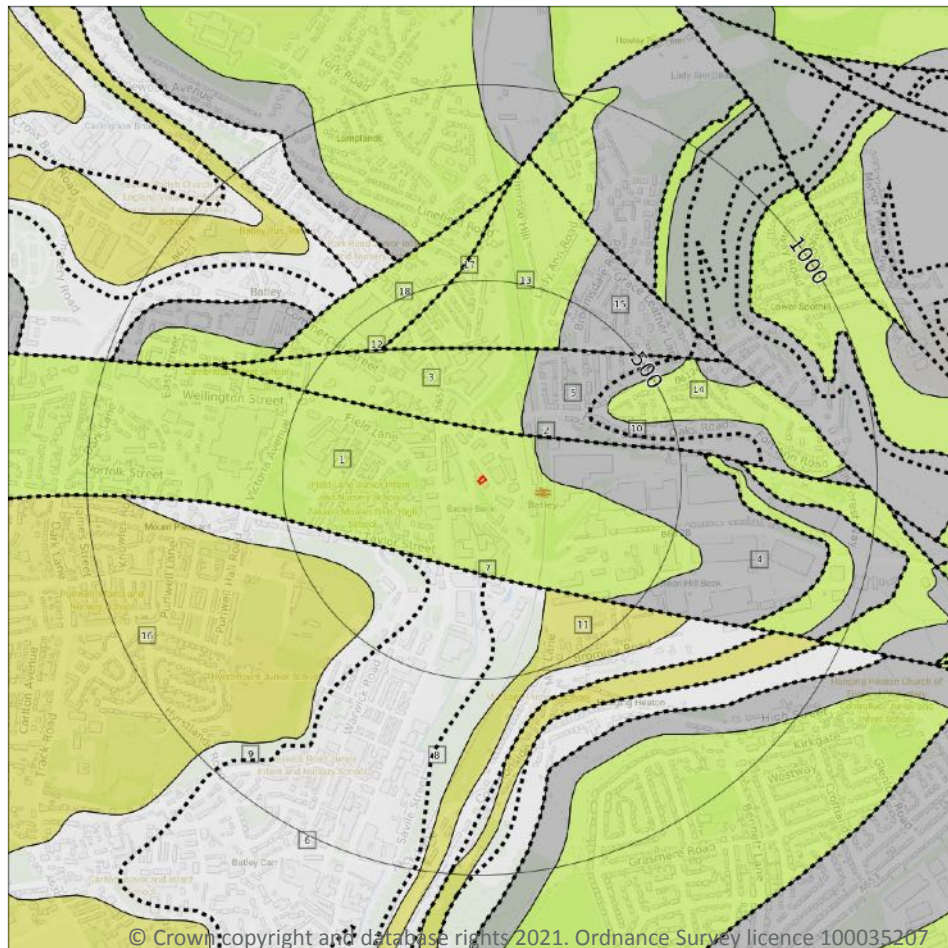
Records within 50m

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

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 127**

ID	Location	LEX Code	Description	Rock age
1	On site	TR-SDST	THORNHILL ROCK - SANDSTONE	WESTPHALIAN
3	118m N	TR-SDST	THORNHILL ROCK - SANDSTONE	WESTPHALIAN
4	143m E	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
5	147m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	223m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	317m SE	BRSR-SDST	BIRSTALL ROCK - SANDSTONE	WESTPHALIAN
13	327m N	TR-SDST	THORNHILL ROCK - SANDSTONE	WESTPHALIAN
14	358m NE	HMR-SDST	HAIGH MOOR ROCK - SANDSTONE	WESTPHALIAN
15	377m NE	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	385m SW	BRSR-SDST	BIRSTALL ROCK - SANDSTONE	WESTPHALIAN
18	415m NW	TR-SDST	THORNHILL ROCK - 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	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

7

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 127**

ID	Location	Category	Description
2	118m N	FAULT	Fault, inferred
7	223m S	FAULT	Fault, inferred

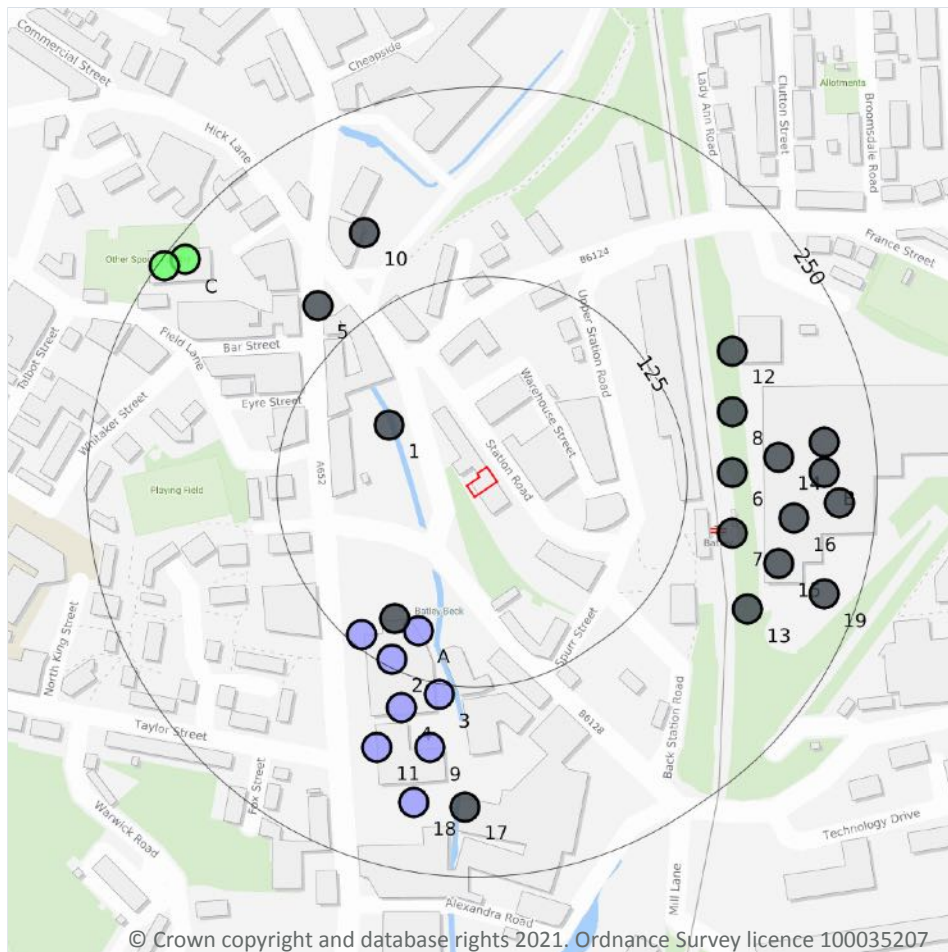


ID	Location	Category	Description
8	235m S	ROCK	Coal seam, inferred
9	267m SW	ROCK	Coal seam, inferred
10	310m NE	ROCK	Coal seam, inferred
12	327m N	FAULT	Fault, inferred
17	415m NW	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

27

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 130**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	65m NW	424764 423861	BATLEY BECK FLOOD ALLEVIATION SCHEME B23	-	Y	N/A
A	95m SW	424783 423726	HEATONS FACTORY BATLEY 4	6.1	N	77977
A	95m SW	424768 423734	BATLEY BECK FLOOD ALLEVIATION SCHEME B22	-	Y	N/A

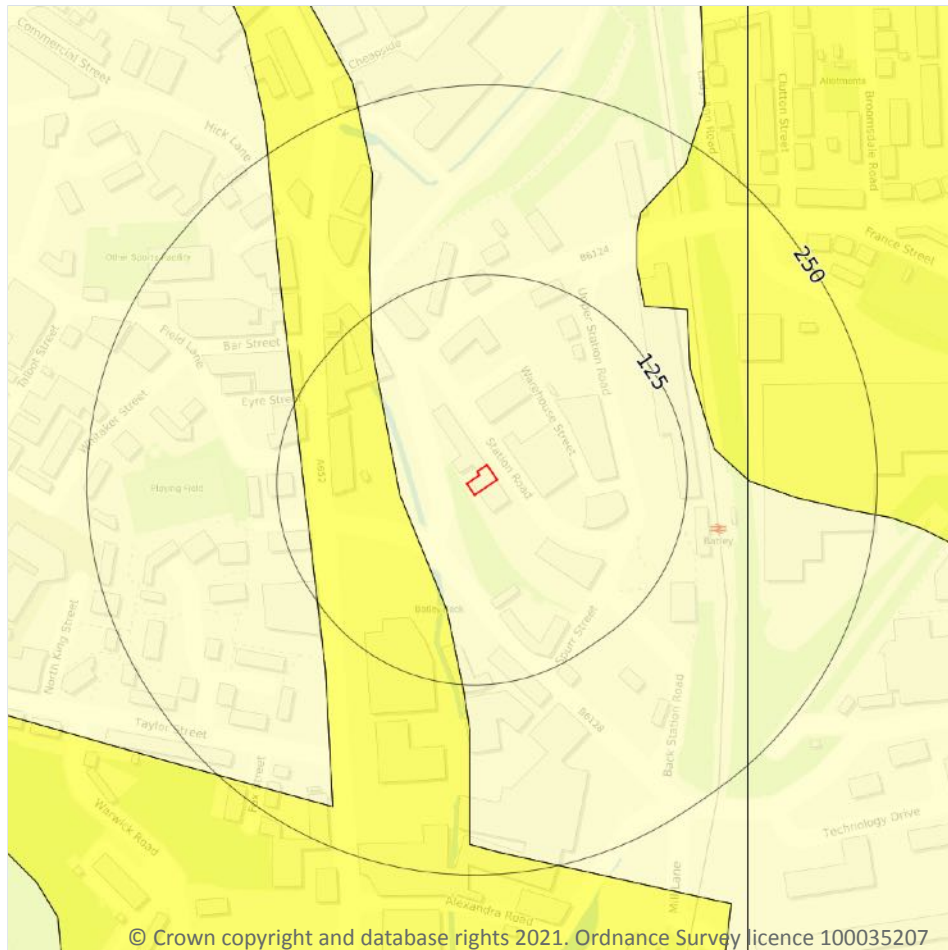


ID	Location	Grid reference	Name	Length	Confidential	Web link
A	117m SW	424746 423723	HEATONS FACTORY BATLEY 1	6.1	N	77974
2	120m SW	424766 423707	HEATONS FACTORY BATLEY 6	6.1	N	77979
3	132m S	424797 423684	HEATONS FACTORY BATLEY 8	6.1	N	77981
4	147m S	424772 423675	HEATONS FACTORY BATLEY 7	6.1	N	77980
5	153m NW	424717 423940	BATLEY BECK FLOOD ALLEVIATION SCHEME B27	-	Y	N/A
6	155m E	424990 423830	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP3	-	Y	N/A
7	159m E	424990 423790	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP4	-	Y	N/A
8	162m E	424990 423870	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP2	-	Y	N/A
9	167m S	424791 423649	HEATONS FACTORY BATLEY 5	6.1	N	77978
10	174m NW	424748 423988	BATLEY BECK FLOOD ALLEVIATION SCHEME B24	-	Y	N/A
11	177m S	424756 423649	HEATONS FACTORY BATLEY 2	6.1	N	77975
12	177m NE	424990 423910	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP1	-	Y	N/A
13	185m SE	425000 423740	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP5	-	Y	N/A
14	186m E	425020 423840	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP8	-	Y	N/A
15	193m E	425020 423770	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP6	-	Y	N/A
16	197m E	425030 423800	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP7	-	Y	N/A
17	204m S	424814 423610	BATLEY BECK FLOOD ALLEVIATION SCHEME B21	-	Y	N/A
18	205m S	424780 423613	HEATONS FACTORY BATLEY 3	5.79	N	77976
B	215m E	425050 423830	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP11	-	Y	N/A
B	217m E	425050 423850	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP10	-	Y	N/A
B	225m E	425060 423810	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP12	-	Y	N/A
19	227m E	425050 423750	RAILWAY SIDINGS SOOTHILL LANE BATLEY TP13	-	Y	N/A
C	238m NW	424630 423970	HICK WELL MILLS, BATLEY	19.51	N	78552
C	246m NW	424616 423966	HICK WELL MILLS BATLEY YORKS	19.51	N	77492

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).

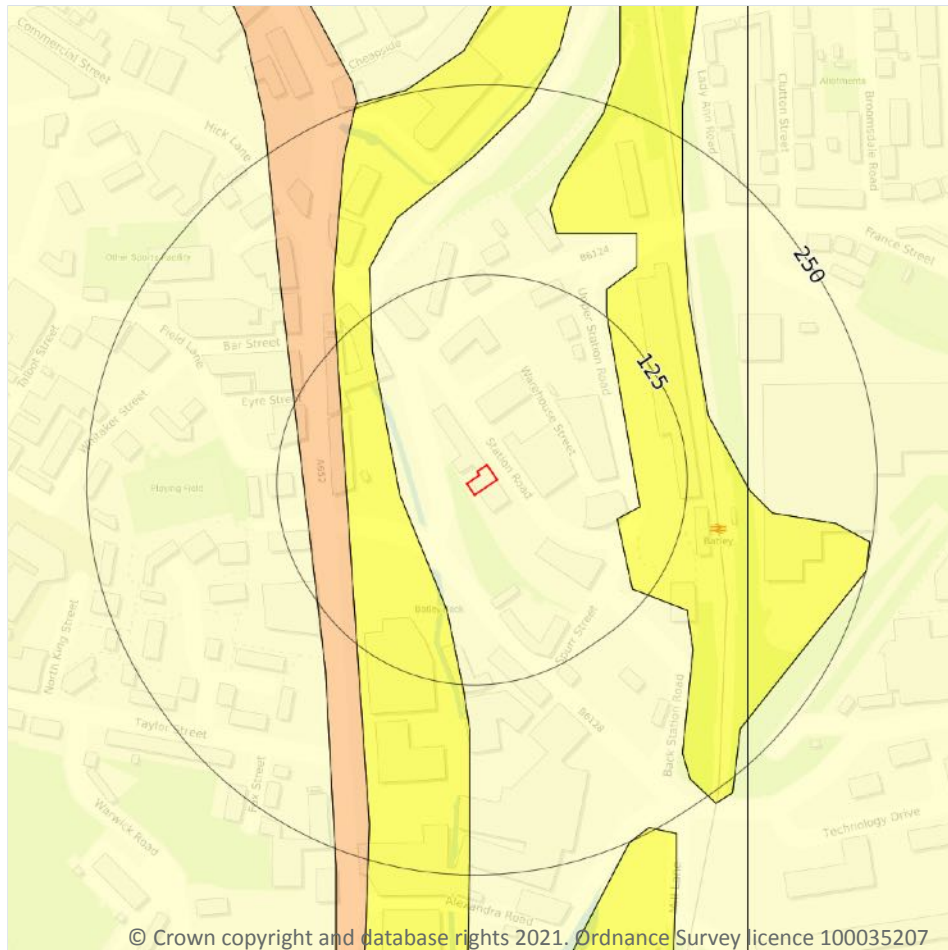
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 132**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
44m W	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 133**

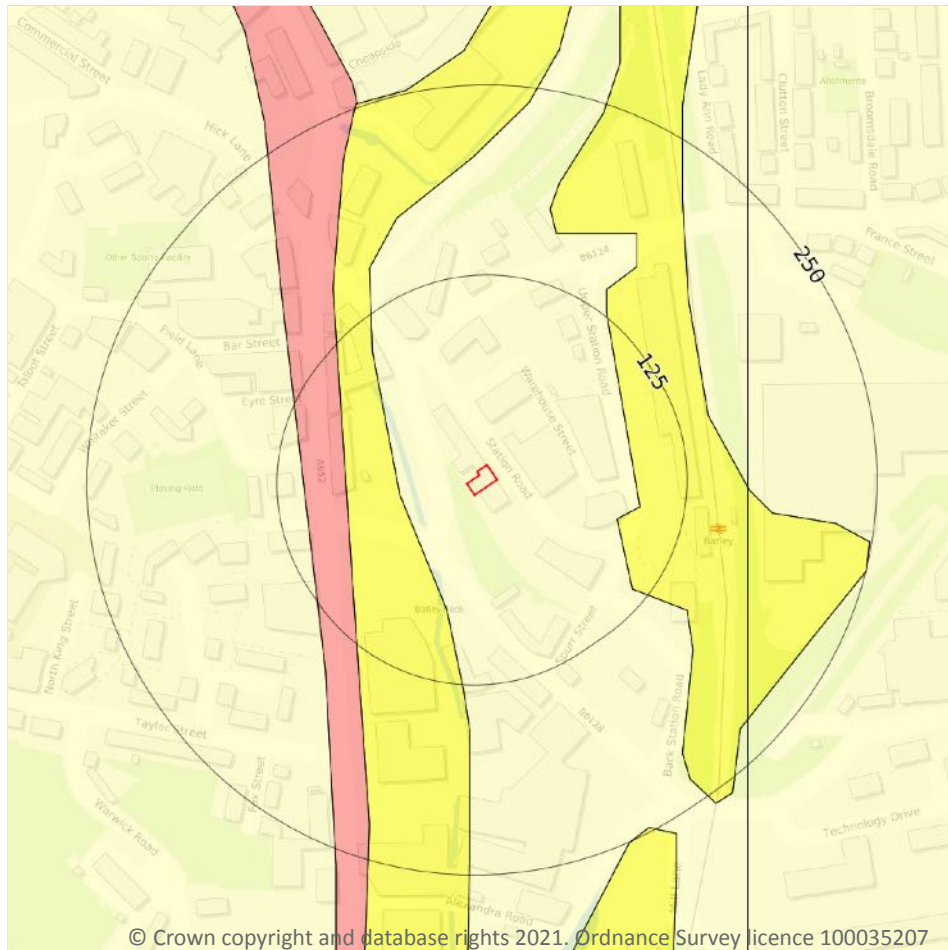
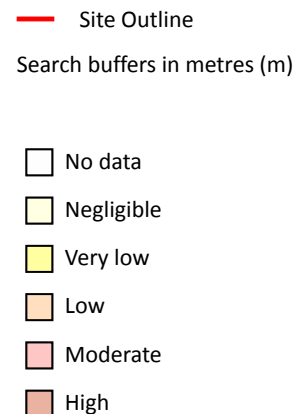
Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

Location	Hazard rating	Details
44m W	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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.

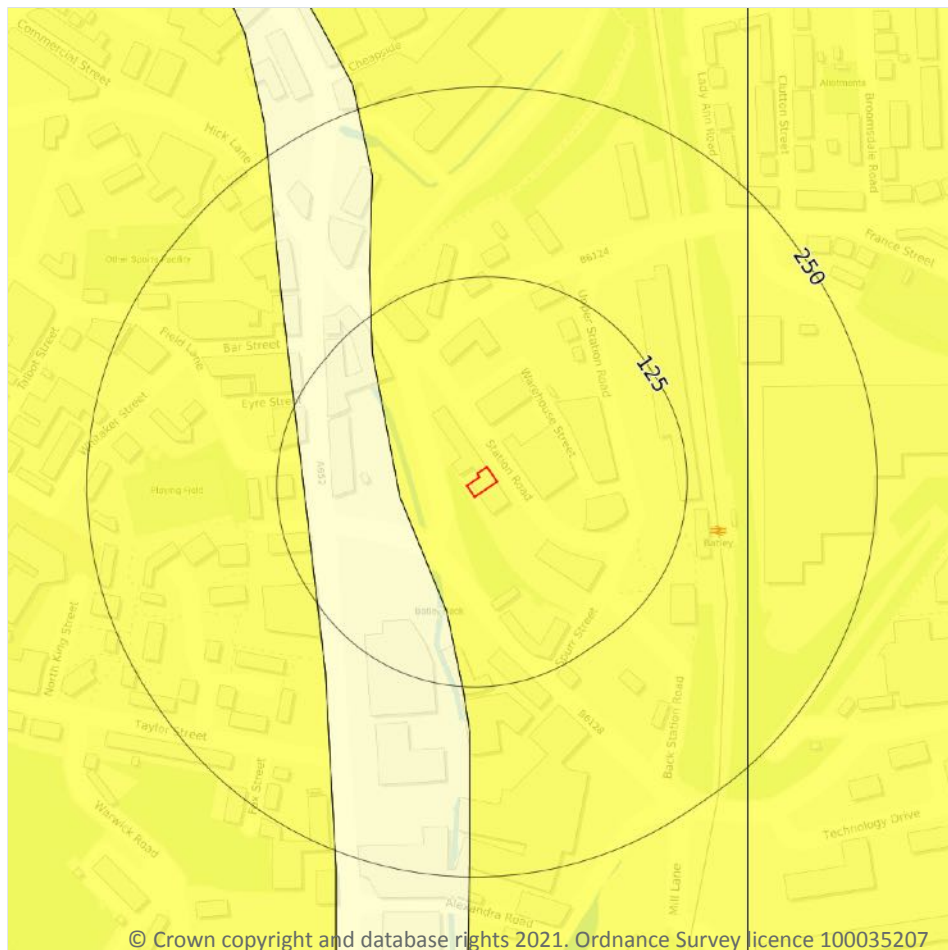
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 135**

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
44m W	Very low	Compressibility and uneven settlement problems are not likely to be significant on the site for most land uses.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

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.

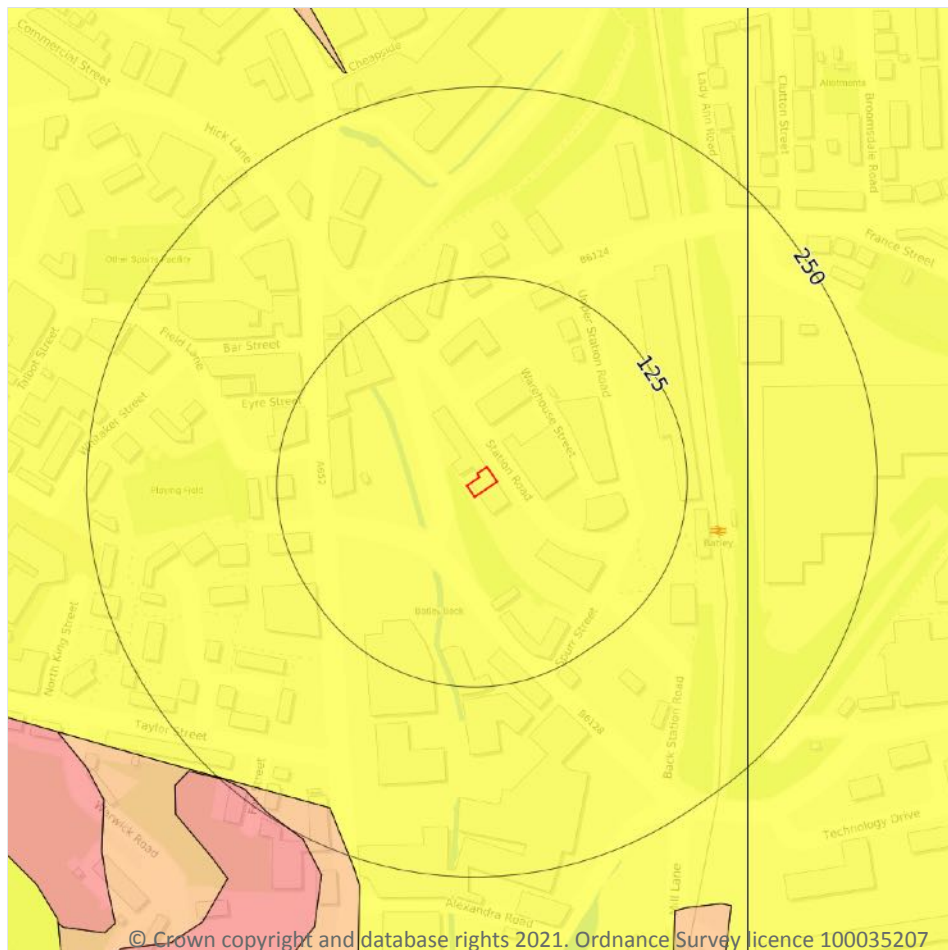
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 137**

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.
44m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

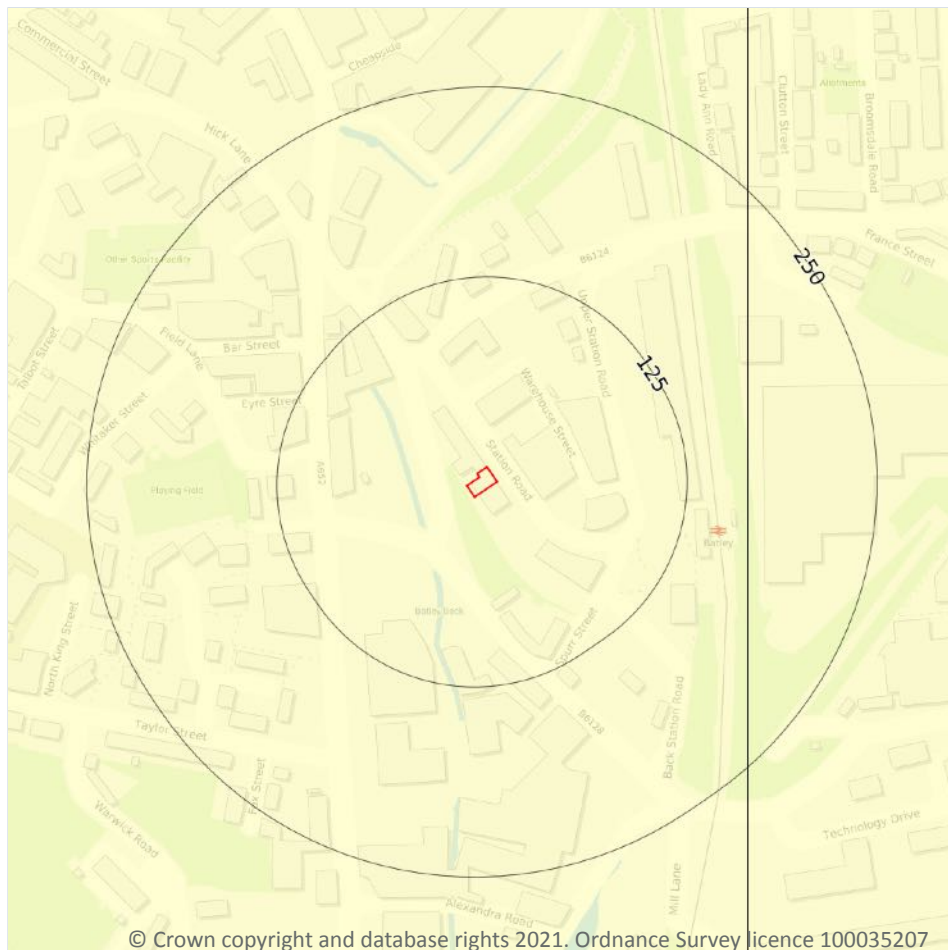
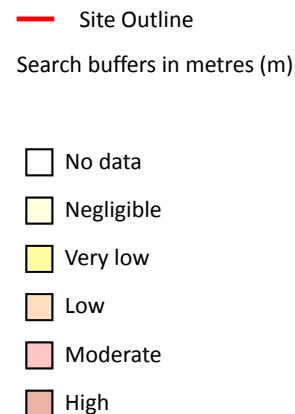
Features are displayed on the Natural ground subsidence - Landslides map on **page 138**

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.

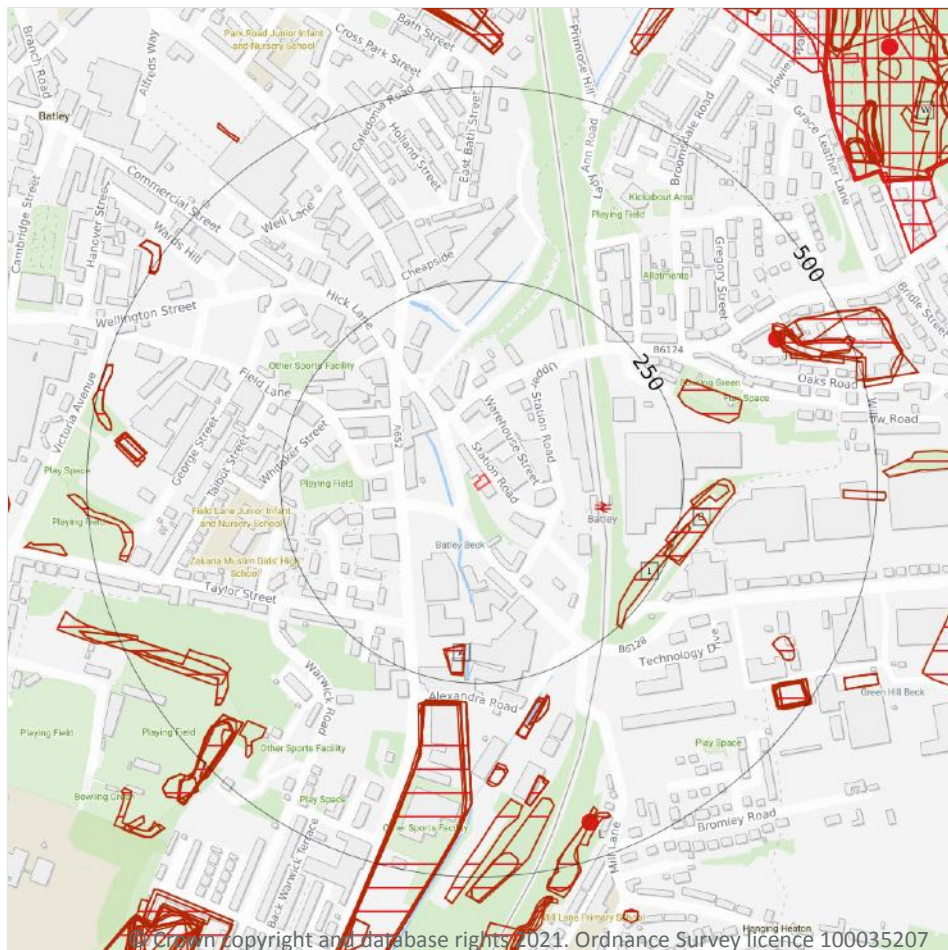
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 139**

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

This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



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

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 141**

ID	Location	Details	Description
J	414m NE	Name: Soothill Hall Address: Batley, BATLEY, West Yorkshire Commodity: Sandstone 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
L	452m S	Name: Union Mill Address: Hanging Heaton, LEEDS, West Yorkshire Commodity: Sandstone 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.

18.3 Surface ground workings

Records within 250m

5

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 141**

ID	Location	Land Use	Year of mapping	Mapping scale
A	201m S	Pond	1905	1:10560
A	202m S	Pond	1892	1:10560
1	224m SE	Unspecified Ground Workings	1992	1:10000
B	239m E	Cuttings	1892	1:10560
B	244m SE	Cuttings	1957	1:10560

This data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

10

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, ground workings and natural cavities map on **page 141**

ID	Location	Land Use	Year of mapping	Mapping scale
V	610m NE	Disused Colliery	1948	1:10560
V	613m NE	Colliery	1905	1:10560
V	613m NE	Old Colliery	1931	1:10560
W	646m NE	Colliery	1892	1:10560
W	704m NE	Unspecified Old Shafts	1931	1:10560
W	710m NE	Unspecified Old Shafts	1948	1:10560
-	731m E	Colliery	1905	1:10560
-	771m E	Disused Colliery	1948	1:10560
-	776m E	Colliery	1892	1:10560
-	783m E	Disused Colliery	1931	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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



This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0
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Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	0
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Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
-----------------	---

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

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

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

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



18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 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.

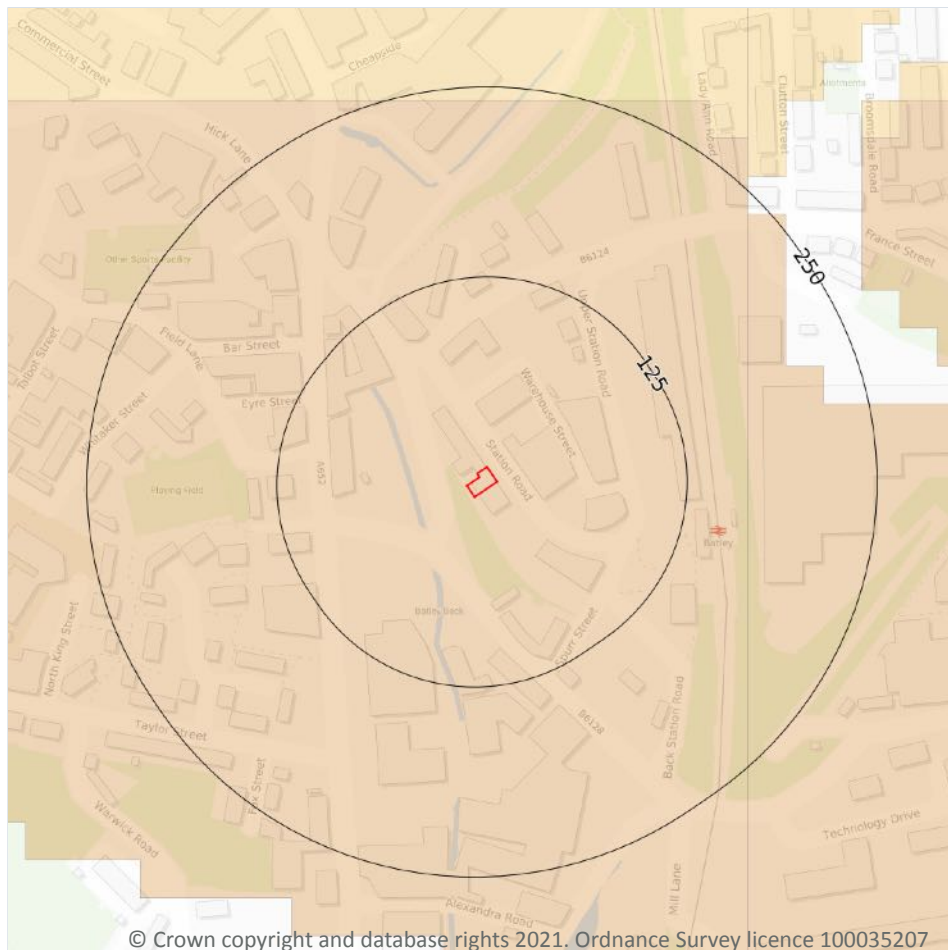
18.13 Clay mining

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

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

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

19 Radon



— 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%

19.1 Radon

Records on site

1

Estimated percentage of dwellings exceeding the Radon Action Level. This data is the highest resolution radon dataset available for the UK and is produced to a 75m level of accuracy to allow for geological data accuracy and a 'residential property' buffer. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain. The data was derived from both geological assessments and long term measurements of radon in more than 479,000 households.

Features are displayed on the Radon map on **page 146**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 5% and 10%	Basic

This data is sourced from the British Geological Survey and Public Health England.



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 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 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
44m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km²).

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

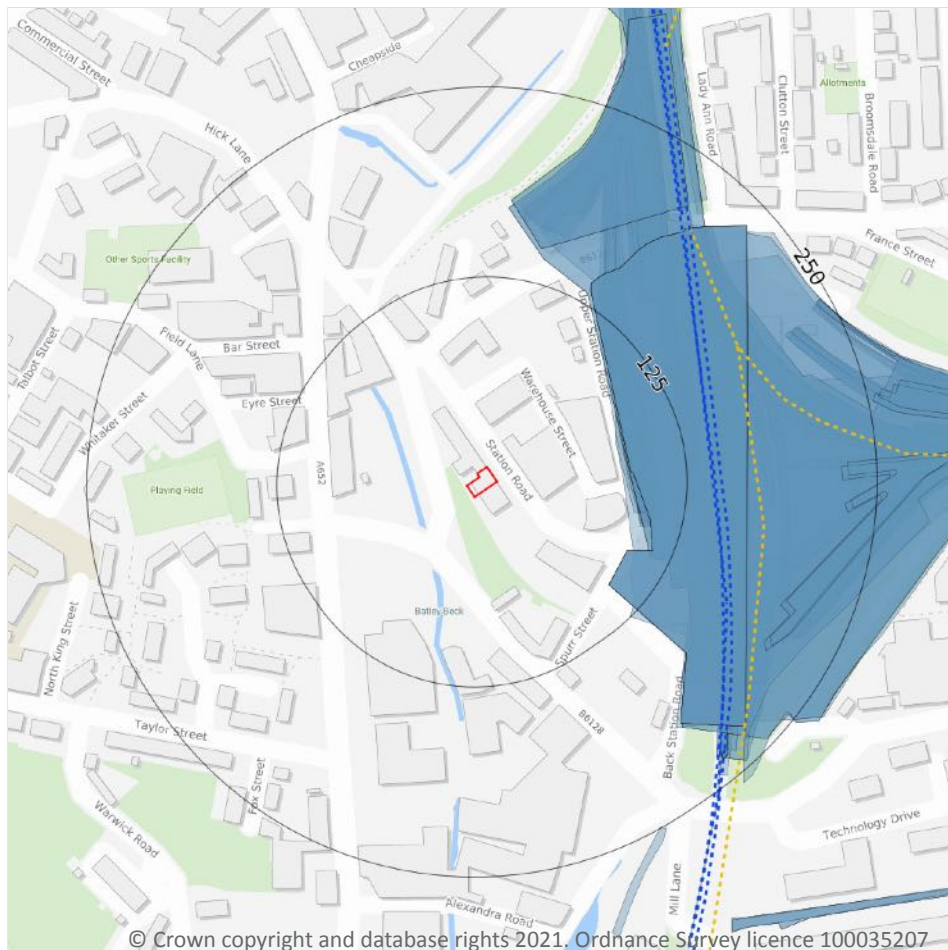
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)**
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

66

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 148**

Location	Land Use	Year of mapping	Mapping scale
82m E	Railway Sidings	1892	10560
83m E	Railway Sidings	1948	10560
85m E	Railway Sidings	1948	10560
86m E	Railway Sidings	1931	10560
86m E	Railway Sidings	1905	10560
86m E	Railway Sidings	1931	10560
87m E	Railway Sidings	1933	2500
87m E	Railway Sidings	1981	10000
87m E	Railway Sidings	1974	10000
87m E	Railway Sidings	1967	10560
87m E	Railway Sidings	1955	10560
88m E	Railway Sidings	1922	2500
89m E	Railway Sidings	1894	2500
89m E	Railway Sidings	1907	2500
95m E	Railway Sidings	1966	2500
95m E	Railway Sidings	1955	2500
95m E	Railway Sidings	1955	1250



Location	Land Use	Year of mapping	Mapping scale
132m E	Railway Sidings	1955	1250
148m N	Railway Sidings	1967	10560
148m N	Railway Sidings	1955	10560
149m E	Railway Sidings	1894	2500
149m E	Railway Sidings	1922	2500
155m E	Railway Sidings	1974	1250
164m E	Railway Sidings	1957	10560
165m E	Railway Sidings	1971	10000
166m E	Railway Sidings	1956	2500
171m N	Railway Sidings	1955	1250
172m N	Railway Sidings	1955	2500
172m E	Railway Sidings	1939	2500
174m E	Railway Sidings	1922	2500
176m E	Railway Sidings	1894	2500
176m E	Railway Sidings	1907	2500
176m E	Railway Sidings	1933	2500
176m E	Railway Sidings	1939	2500
177m SE	Railway Sidings	1907	2500
177m SE	Railway Sidings	1893	2500
177m SE	Railway Sidings	1922	2500
177m SE	Railway Sidings	1933	2500
177m NE	Railway Sidings	1907	2500
177m NE	Railway Sidings	1933	2500
181m NE	Railway Sidings	1956	2500
181m NE	Railway Sidings	1966	2500
182m NE	Railway Sidings	1955	1250
182m NE	Railway Sidings	1922	2500
183m E	Railway Sidings	1894	2500



Location	Land Use	Year of mapping	Mapping scale
183m E	Railway Sidings	1907	2500
183m E	Railway Sidings	1933	2500
186m NE	Railway Sidings	1968	1250
195m SE	Railway Sidings	1955	1250
203m SE	Railway Sidings	1907	2500
203m SE	Railway Sidings	1894	2500
203m SE	Railway Sidings	1922	2500
203m SE	Railway Sidings	1933	2500
203m SE	Railway Sidings	1938	2500
203m SE	Railway Sidings	1948	10560
206m E	Railway Sidings	1931	10560
207m SE	Railway Sidings	1933	2500
209m SE	Railway Sidings	1907	2500
209m SE	Railway Sidings	1893	2500
209m SE	Railway Sidings	1922	2500
211m NE	Railway Sidings	1894	2500
212m NE	Railway Sidings	1907	2500
212m NE	Railway Sidings	1933	2500
217m NE	Railway Sidings	1969	2500
217m SE	Railway Sidings	1933	2500
250m SE	Railway Sidings	1894	2500

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m

2

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

Features are displayed on the Railway infrastructure and projects map on **page 148**

Location	Description
170m E	Dismantled
182m NE	Dismantled

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

7

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

Features are displayed on the Railway infrastructure and projects map on **page 148**

Location	Name	Type
141m E	Not given	Multi Track
142m E	Huddersfield Line	rail
147m E	Huddersfield Line	rail
171m SE	Not given	Multi Track
210m NE	Not given	Multi Track
228m SE	Huddersfield Line	rail
231m SE	Huddersfield Line	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.



21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

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



APPENDIX C

SITE PHOTOS



General view to the south west looking at site from Station Road



General view to the south west looking at site from Station Road



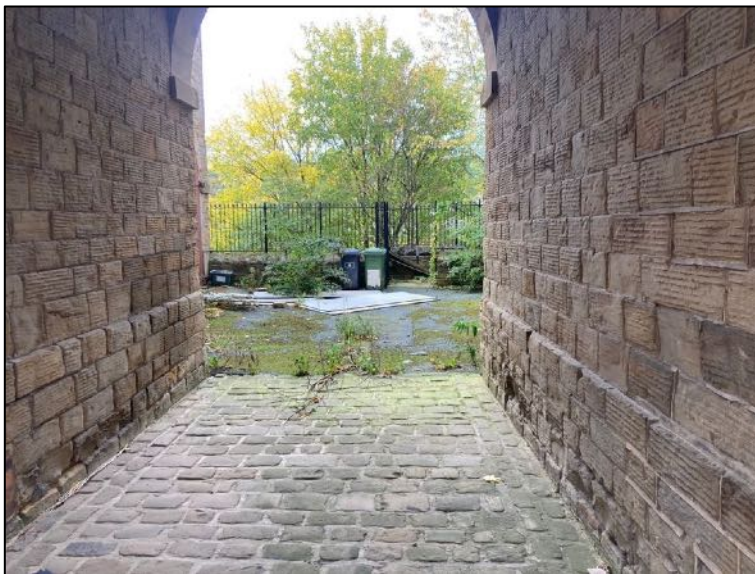
General view to the west looking at site from Station Road



General view to the south west looking from site towards Rouse Mill Lane



General view to the south west looking at car park at rear



General view to the south west looking along north elevation of site and adjoining land from Station Road



View of steps at rear of site

END