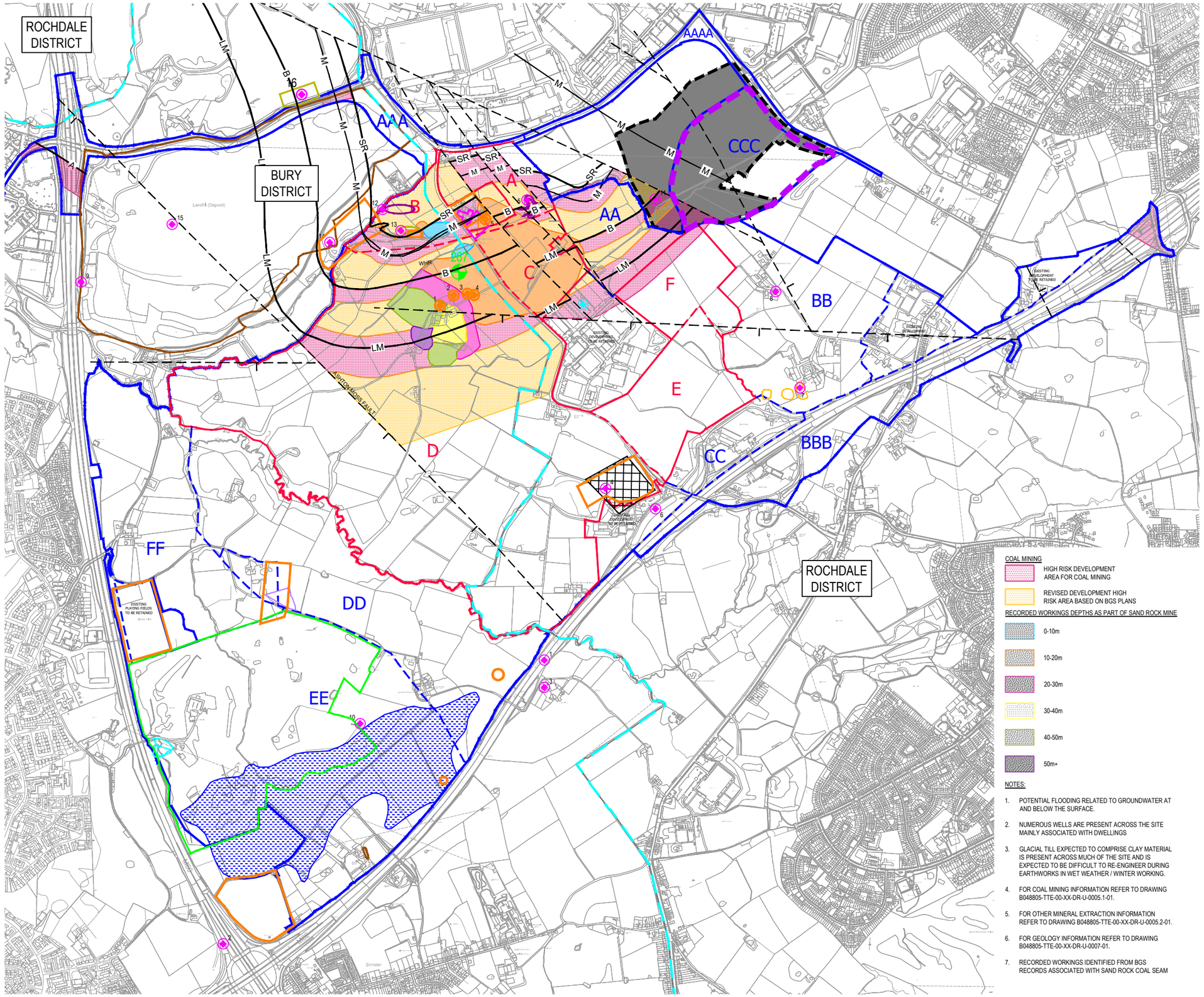


COAL MINING

- HIGH RISK DEVELOPMENT AREA FOR COAL MINING
- REVISED DEVELOPMENT HIGH RISK AREA BASED ON BGS PLANS

RECORDED WORKINGS DEPTHS AS PART OF SAND ROCK MINE

- 0-10m
- 10-20m
- 20-30m
- 30-40m
- 40-50m
- 50m+

NOTES:

1. POTENTIAL FLOODING RELATED TO GROUNDWATER AT AND BELOW THE SURFACE.
2. NUMEROUS WELLS ARE PRESENT ACROSS THE SITE MAINLY ASSOCIATED WITH DWELLINGS
3. GLACIAL TILL EXPECTED TO COMPRISE CLAY MATERIAL IS PRESENT ACROSS MUCH OF THE SITE AND IS EXPECTED TO BE DIFFICULT TO RE-ENGINEER DURING EARTHWORKS IN WET WEATHER / WINTER WORKING.
4. FOR COAL MINING INFORMATION REFER TO DRAWING B048805-TTE-00-XX-DR-U-0005.1-01.
5. FOR OTHER MINERAL EXTRACTION INFORMATION REFER TO DRAWING B048805-TTE-00-XX-DR-U-0005.2-01.
6. FOR GEOLOGY INFORMATION REFER TO DRAWING B048805-TTE-00-XX-DR-U-0007-01.
7. RECORDED WORKINGS IDENTIFIED FROM BGS RECORDS ASSOCIATED WITH SAND ROCK COAL SEAM

FOR INFORMATION ONLY

KEY

- SITE BOUNDARY
- PERMITTED LANDFILL (TAKEN FROM WARDELL ARMSTRONG DRAWING No. ST17174-003)
- SOUTH HEYWOOD AREA
- DISTRICT BOUNDARY
- NATIONAL COAL BOARD BOREHOLE: POTENTIAL UNRECORDED SHAFT LOCATION
- BGS RECORDED MINERAL SITE (ALL OPENCAST EXTRACTION)

1. WHITTLE FOLD SAND PIT.
2. COLD GATE SAND PIT.
3. SANDFIELD SAND PIT.
4. WHITTLE SAND & GRAVEL PIT.
5. THREE LANDS END - SANDSTONE.
6. WHITTLE SAND PIT.
7. LOWER WHITTLE SAND PIT.
8. DOCTOR'S MOSS SAND PIT.
9. HOLLINS SAND PIT.
10. UNSWORTH MOSS SAND PIT.
11. THREE LAND ENDS - SANDSTONE.
12. THREE LAND ENDS - SAND.
13. THREE LAND ENDS - SAND.
14. PLISWORTH CLOUGH - SAND.
15. PILSWORTH SOUTH QUARRY - SAND.#
16. PILSWORTH SAND PIT PHASE A

- ACTIVE COMAH/PHSC (ON-SITE ONLY)
- COAL AUTHORITY INDICATED MINESHAFTS - EXACT LOCATION / BACKFILL UNKNOWN

1-4: 383408-005 TO 008 INCLUSIVE - NO TREATMENT RECORDS

5: 383408-009 - NO TREATMENT RECORDS

- POTENTIAL EARTHWORKS ASSOCIATED WITH GOLF COURSE
- LANDFILL (ON-SITE & WITHIN ~250m)
- COAL PITS (BARLOW'S COAL PITS)
- FORMER SANDSTONE QUARRY
- FORMER BRICK FIELD
- FORMER GRAVEL PIT
- FORMER OLD QUARRY
- FORMER SAND PIT
- INFILLED / MADE GROUND

GEOLOGY - MADE GROUND

- INFILLED GROUND: MAINLY FORMER QUARRIES , BRICK PITS AND OPENCAST COAL SITES, MAY BE PARTIALLY OR COMPLETELY BACKFILLED

GEOLOGY - DRIFT

- PEAT

GEOLOGY - BEDROCK

- LM — LOWER MOUNTAIN COAL SEAM
- B — BASSEY COAL SEAM
- SR — SAND ROCK COAL SEAM
- A — ARLEY COAL SEAM
- M — SUBCRENATUM MARINE BAND (6")

STRUCTURAL GEOLOGY

- FAULT LINES

CONSTRAINTS IDENTIFICATION

FAULTS CAN POSE A LAND STABILITY RISK AS THEY ARE A LINE OF WEAKNESS EITHER AT ROCKHEAD OR IN SOME INSTANCES WITHIN THE OVERLYING DRIFT. THE RISK FAULT MOVEMENT SHOULD BE ASSESSED, IF THERE IS CONSIDERED TO BE A FAULT RISK, RISK OF SETTLEMENT SHOULD BE ASSESSED PARTICULARLY FOR BUILDINGS WITH LOW FLOOR SLAB SETTLEMENT TOLERANCES.

Rev	Description	Date	Drn	Chk	App
04	PERMITTED LANDFILL ADDED	03.02.25	CM	NB	PG
03	SITE BOUNDARY UPDATED. DISTRICT BOUNDARY ADDED	21.11.24	CM	NB	PG
02	SITE BOUNDARY UPDATED	15.08.24	CM	LR	LR
01	FIRST ISSUE	12.12.23	CM	NB	PG

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Client
NORTHERN GATEWAY DEVELOPMENT JOINT VENTURE

Project Name
NORTHERN GATEWAY

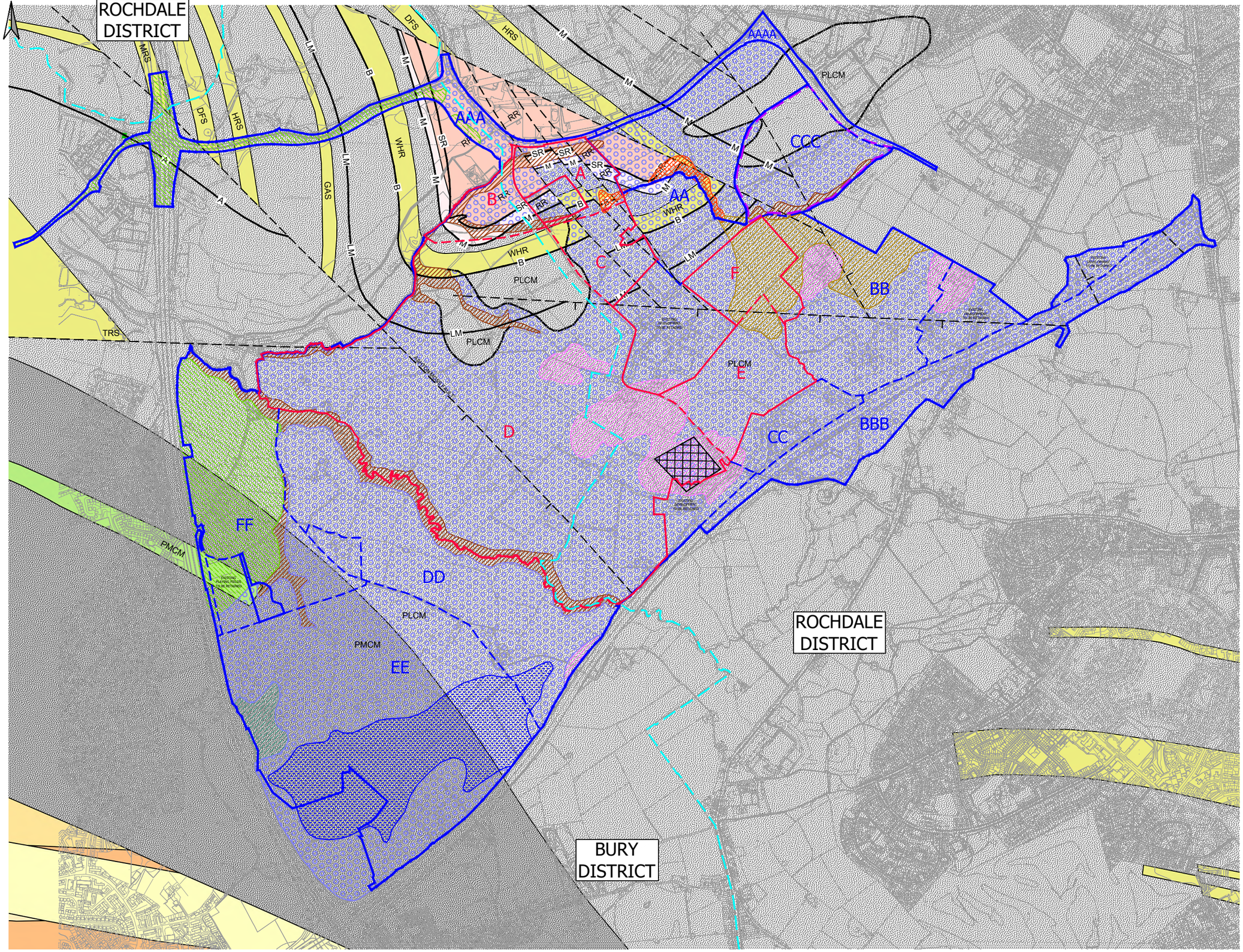
Sheet Title
GEOTECHNICAL CONSTRAINTS PLAN

Model Reference
N/A

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Status
B048805	CM	11.12.23	NB	12.12.23	PG	12.12.23	1:15,000	S2

Client Project Number	Originator	Function	Spatial	Form	Role	Number	Revision
B048805	- TTE -	00 -	XX -	DR -	U -	0006	04

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KEY

- PROJECT FOR ASSESSMENT
- PROJECT FOR ASSESSMENT PLOTS
- PROPOSED SCHEME
- PROPOSED SCHEME PLOTS
- DISTRICT BOUNDARY
- SOUTH HEYWOOD AREA

NOTE: GEOLOGY IS INTERPRETED FROM BGS INDEX VIEWER

GEOLOGY - MADE GROUND

- INFILLED GROUND: MAINLY FORMER QUARRIES , BRICK PITS AND OPENCAST COAL SITES, MAY BE PARTIALLY OR COMPLETELY BACKFILLED

GEOLOGY - SUPERFICIAL DEPOSITS

- TILL, DEVENSIAN - DIAMICTON (SECONDARY UNDIFFERENTIATED AQUIFER)
- GLCIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN - SAND AND GRAVEL (SECONDARY A AQUIFER)
- GLCIOFLUVIAL DEPOSITS, DEVENSIAN - SAND AND GRAVEL
- GLCIOFLUVIAL SHEET DEPOSITS, DEVENSIAN - SAND AND GRAVEL (SECONDARY UNDIFFERENTIATED AQUIFER)
- LACUSTRINE DEPOSITS - SAND AND GRAVEL (UNPRODUCTIVE AQUIFER)
- HEAD - CLAY, SILT SAND AND GRAVEL (SECONDARY UDIFFERENTIATED AQUIFER)
- HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN DIAMICTON (SECONDARY A AQUIFER)
- PEAT (UNPRODUCTIVE AQUIFER)
- SUPERFICIAL STRATA BOUNDARY

GEOLOGY - BEDROCK

- PLCM: PENNINE LOWER COAL MEASURES - MUDSTONE SILTSTONE & SANDSTONE (SECONDARY A AQUIFER)
- PMCM: PENNINE MIDDLE COAL MEASURES - MUDSTONE SILTSTONE & SANDSTONE (SECONDARY A AQUIFER)
- PMCM: PENNINE MIDDLE COAL MEASURES - SANDSTONE (SECONDARY A AQUIFER)
- WHR: WOODHEAD HILL ROCK - SANDSTONE (SECONDARY A AQUIFER)
- GAS: GREAT ARC SANDSTONE
- DFS: DARWEN FLAGS SANDSTONE
- HRS: HELPET EDGE ROCK SANDSTONE
- TRS: TRENCHERBONE ROCK SANDSTONE
- RR: ROUGH ROCK - SANDSTONE (SECONDARY A AQUIFER)
- RR: ROUGH ROCK SANDSTONE (SECONDARY A AQUIFER)
- LM: LOWER MOUNTAIN COAL SEAM
- B: BASSEY COAL SEAM
- SR: SAND ROCK COAL SEAM
- A: ARLEY COAL SEAM
- M: SUBCRENATUM MARINE BAND (6")

STRUCTURAL GEOLOGY

- T: FAULT LINES

Rev	Description	Date	Drn	Chk	App
04	SITE BOUNDARY AND GEOLOGY UPDATED. DISTRICT BOUNDARY ADDED	27.11.24	CM	NB	PG
03	AREA OF PEAT REMOVED AND AREA OF HEAD DEPOSITS ADDED	25.10.24	CM	NB	PG
02	SITE BOUNDARY UPDATED	15.08.24	CM	NB	PG
01	FIRST ISSUE	10.01.24	CM	NB	PG

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Project Name

NORTHERN GATEWAY

Sheet Title

GEOLOGY PLAN

Model Reference

N/A

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Status
B048805	CM	03.01.24	NB	10.01.24	PG	10.01.24	1:15,000	S2

Client Project Number	Originator	Function	Spatial	Form	Role	Number	Revision
B048805	- TTE -	00 -	XX -	DR -	U -	0007	04

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N

ROCHDALE DISTRICT

PILSWORTH CLOUGH MILL

FORMER SAND PIT & SANDSTONE QUARRIES

SEWAGE WORKS

THREE LANE ENDS

BURY DISTRICT

PILSWORTH SOUTH LANDFILL

BLEACH WORKS

POSSIBLE INFILLED SANDSTONE QUARRIES

POSSIBLE INFILLED BRICK PITS

SCHOOL PLAYING FIELDS

PIKE FOLD GOLF COURSE

BIRCH INDUSTRIAL ESTATE

M66

VEHICLE SERVICING GARAGE

BIRCH MILLS

BIRCH SERVICES

INFILLED SAND PIT

POSSIBLE INFILLED SAND PIT

POSSIBLE SPOIL HEAP

POSSIBLE SPOIL HEAP

ROCHDALE DISTRICT

AAAA

AAA

AA

BB

BBB

CC

CCC

DD

EE

FF

A

B

C

D

E

F

NOTES:

1. WHOLE SITE IS DESCRIBED AS LOW RISK BY UXO DESK STUDY.
2. RISK OF GROUND GAS FROM MINEWORKINGS AND MINE SHAFTS. REFER TO DRAWING REF B048805-TTE-00-DR-U-0005.1-04, COAL MINING FEATURES PLAN.

KEY

- PROJECT FOR ASSESSMENT
- PROJECT FOR ASSESSMENT PLOTS
- PROPOSED SCHEME
- PROPOSED SCHEME PLOTS
- DISTRICT BOUNDARY
- SOUTH HEYWOOD AREA
- AREAS OF HARDSTANDING - INDUSTRIAL USES / PETROL STATIONS / GARAGES / SEWAGE WORKS
- MADE GROUND - AREAS OF INFILLED GROUND / SPOIL HEAPS / PLAYING FIELDS
- FORMER BLEACH WORKS
- EARTHWORKS - ASSOCIATED WITH PIKE FOLD GOLF CLUB, POTENTIAL UXO CEMETERY ON SITE.
- APPROXIMATE BOUNDARY FOR PILSWORTH SOUTH LANDFILL, PERMIT BOUNDARY UNKNOWN
- PERMITTED LANDFILL (TAKEN FROM WARDELL ARMSTRONG DRAWING No. ST17174-003)

OTHER EXTRACTIVE MINING

- COAL PIT FARM (BARLOW'S COAL PITS)
- BGS RECORDED MINERAL SITE (OPENCAST EXTRACTION CEASED)

1. WHITTLE FOLD SAND PIT.
2. COLD GATE SAND PIT.
3. SANDFIELD SAND PIT.
4. WHITTLE SAND & GRAVEL PIT.
5. THREE LANDS END - SANDSTONE.
6. WHITTLE LAND SAND PIT.
7. LOWER WHITTLE SAND PIT.
8. DOCTOR'S MOSS SAND PIT.
9. HOLLINS SAND PIT.
10. UNSWORTH MOSS SAND PIT.
11. THREE LAND ENDS - SANDSTONE.
12. THREE LAND ENDS - SAND.
13. THREE LAND ENDS - SAND.
14. PLISWORTH CLOUGH - SAND.
15. PILSWORTH SOUTH QUARRY - SAND.
16. PILSWORTH SAND PIT PHASE A
17. FORMER REFUSE TIP

- FORMER SANDSTONE QUARRY
- FORMER QUARRY
- FORMER BRICK FIELD
- FORMER GRAVEL PIT
- FORMER SAND PIT

Scale (metres)

0 200 400 600 800 1000m

FOR INFORMATION ONLY

Rev	Description	Date	Drn / Chk / App
03	MINOR UPDATES FOR CLARITY. NOTE 2 ADDED	03.05.25	CM / NB / PG
02	SITE BOUNDARY UPDATED. DISTRICT BOUNDARY ADDED	26.11.24	CM / NB / PG
01	FIRST ISSUE	10.01.24	CM / NB / PG

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NORTHERN GATEWAY DEVELOPMENT JOINT VENTURE

Project Name

NORTHERN GATEWAY

Sheet Title

CONTAMINATION CONSTRAINTS PLAN

Model Reference

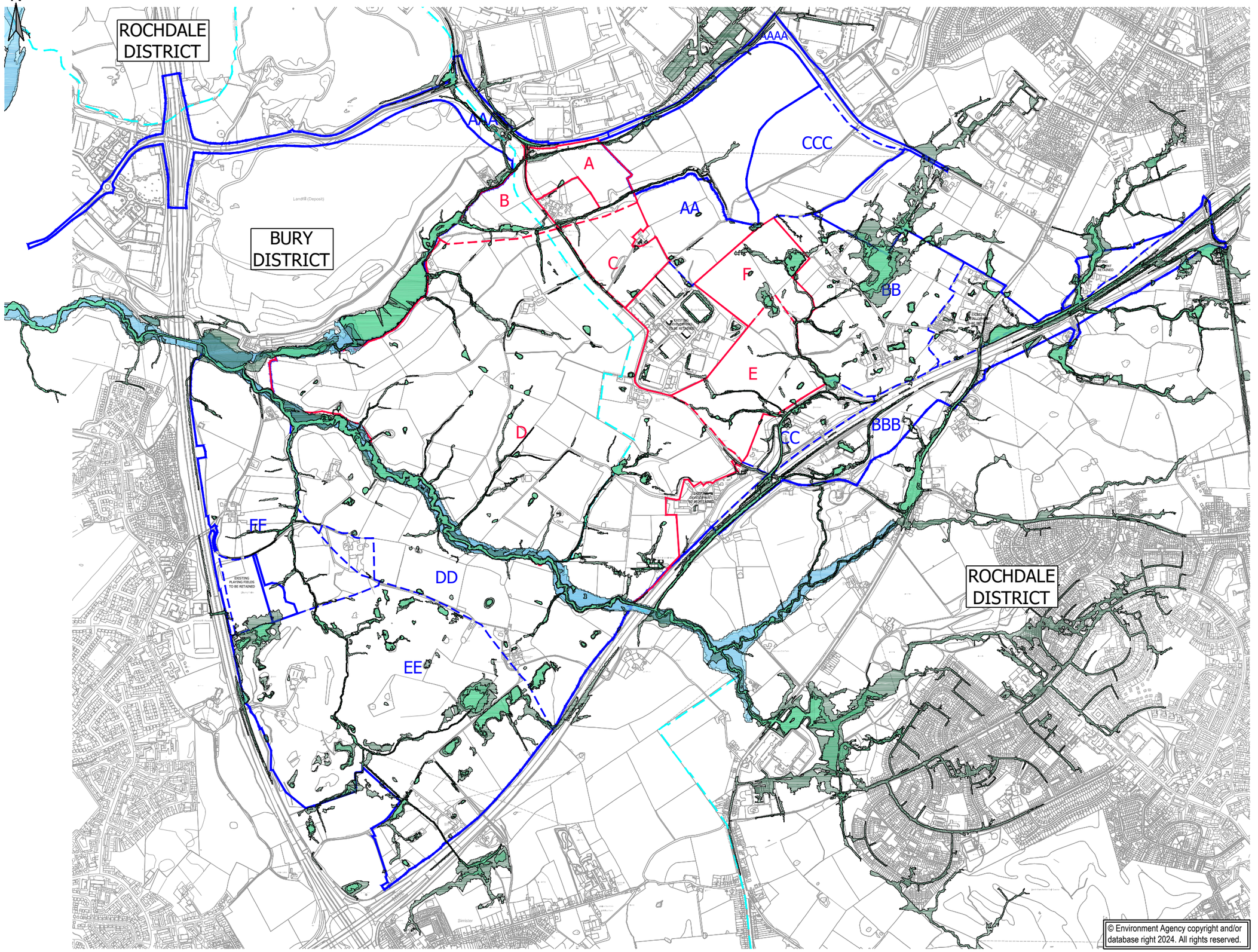
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TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Status
B048805	CM	04.01.24	NB	10.01.24	PG	10.01.24	1:15,000	S2

Client Project Number	Originator	Function	Spatial	Form	Role	Number	Revision
B048805	- TTE -	00 -	XX -	DR -	U -	0008	03

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KEY

- PROJECT FOR ASSESSMENT
- PROJECT FOR ASSESSMENT PLOTS
- PROPOSED SCHEME
- PROPOSED SCHEME PLOTS
- DISTRICT BOUNDARY
- FLOOD ZONE 2
- FLOOD ZONE 3
- RISK OF SURFACE WATER FLOODING 1IN30YEARS
- RISK OF SURFACE WATER FLOODING 1IN100YEARS
- RISK OF SURFACE WATER FLOODING 1IN1000YEARS

NOTES:
FLOOD ZONE AND RISK OF SURFACE WATER FLOODING DATA PROVIDED BY ENVIRONMENT AGENCY, DOWNLOADED FROM DEFRA DATA SERVICES PLATFORM (envionment.data.gov.uk)

FLOOD ZONE 2
THE AREAS OF LAND AT RISK OF FLOODING, WHEN THE PRESENCE OF FLOOD DEFENCES ARE IGNORED AND COVERS LAND BETWEEN ZONE 3 AND THE EXTENT OF THE FLOODING FROM RIVERS OR THE SEA WITH A 1 IN 1000 (0.1%) CHANCE OF FLOODING EACH YEAR.

FLOOD ZONE 3
THE AREAS OF LAND AT RISK OF FLOODING, WHEN THE PRESENCE OF FLOOD DEFENCES ARE IGNORED AND COVERS LAND WITH A 1 IN 100 (1%) OR GREATER CHANCE OF FLOODING EACH YEAR FROM RIVERS; OR WITH A 1 IN 200 (0.5%) OR GREATER CHANCE OF FLOODING EACH YEAR FROM THE SEA.

Rev	Description	Date	Drn / Chk / App
02	SITE BOUNDARY UPDATED. DISTRICT BOUNDARY ADDED	27.11.24	CM / NB / PG
01	FIRST ISSUE	25.01.24	CM / NB / PG

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Project Name
NORTHERN GATEWAY

Sheet Title
FLOOD ZONES

Model Reference
N/A

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A3	Status
B048805	CM	25.01.24	NB	25.01.24	PG	25.01.24	1:15,000	S2

Client Project Number	Originator	Function	Spatial	Form	Role	Number	Revision
B048805	- TTE -	00 -	XX -	DR -	U -	0009	02

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N

ROCHDALE DISTRICT

BURY DISTRICT

ROCHDALE DISTRICT

AAA

AA

A

B

C

D

E

F

BB

CC

BBB

CCC

DD

EE

FF

EXISTING DEVELOPMENT TO BE RETAINED

EXISTING PLAYING FIELDS TO BE RETAINED

M62

0 50 100 150 200 250m

SCALE 1:5000

KEY

- PROJECT FOR ASSESSMENT
- PROJECT FOR ASSESSMENT PLOTS
- PROPOSED SCHEME
- PROPOSED SCHEME PLOTS
- DISTRICT BOUNDARY
- SOUTH HEYWOOD AREA
- BGS BOREHOLES
- BGS ARCHIVE RECORDS PILSWORTH OPENCAST BOREHOLES
- BOREHOLE COLLAPSED
- BOREHOLE STONED UP
- COAL AUTHORITY INDICATED MINESHAFT - EXACT LOCATION / BACKFILL UNKNOWN

HISTORICAL PEAT INVESTIGATIONS

CCG INVESTIGATION 2023

- WINDOW SAMPLE (3m bgl)

IAN FARMERS INVESTIGATION 2021

- BOREHOLE
- WINDOW SAMPLE

NOTE

NUMEROUS PHASES OF INVESTIGATION HAVE BEEN UNDERTAKEN IN THE SOUTH HEYWOOD AREA. THIS AREA IS COVERED BY A SEPARATE PLANNING APPLICATION.

FOR INFORMATION ONLY

Rev	Description	Date	Ori./Chk./App.
04	SITE BOUNDARY UPDATED. DISTRICT BOUNDARY ADDED	27.11.24	CM NB PG
03	SITE BOUNDARY ADDED	15.08.24	CM NB PG
02	BOREHOLE 267 AND MINE ENTRIES ADDED	17.05.24	CM NB PG
01	FIRST ISSUE	25.01.24	CM NB PG

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Project Name

NORTHERN GATEWAY

Sheet Title

HISTORICAL BOREHOLE LOCATION PLAN

Model Reference

N/A

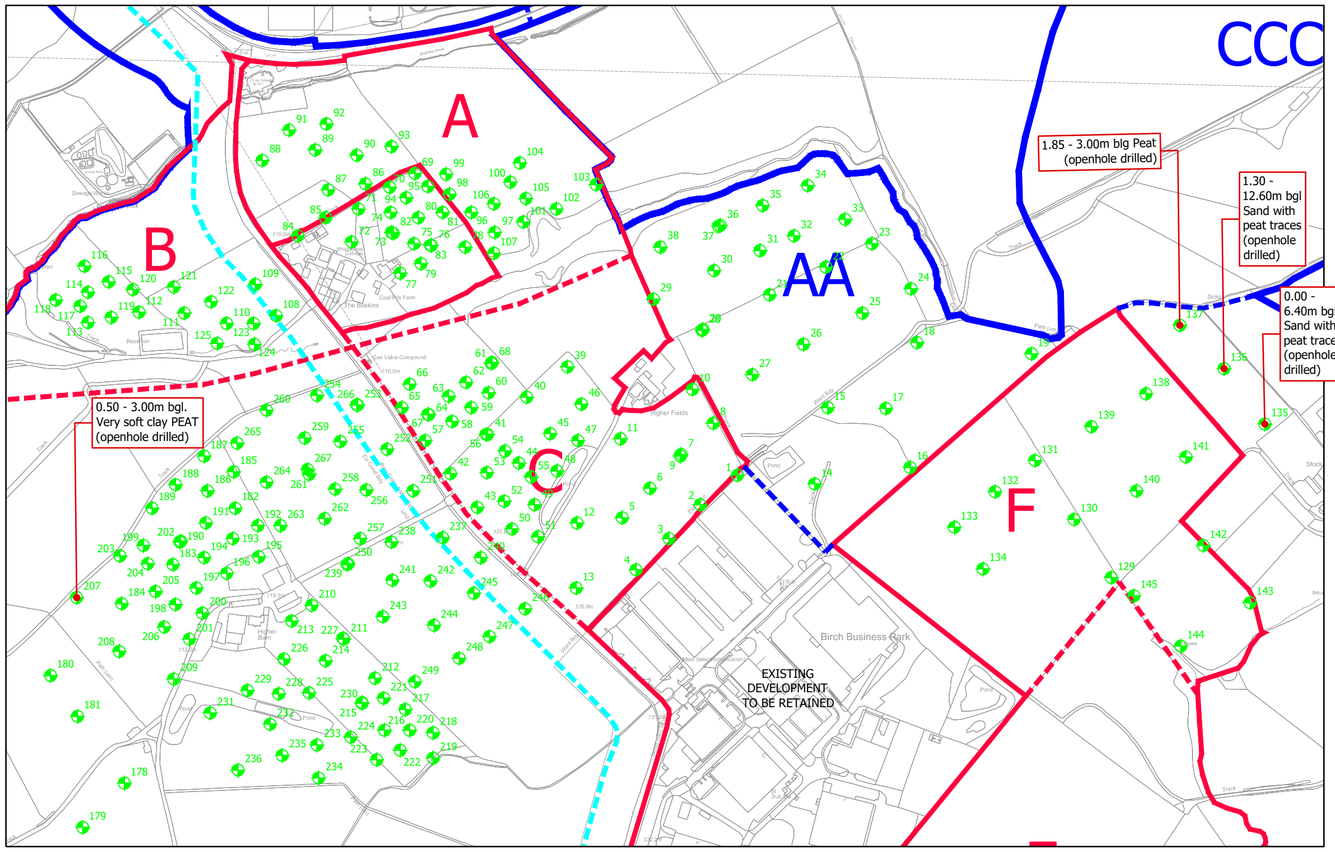
TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A0	Status
B048805	CM	25.01.24	NB	25.01.24	PG	25.01.24	1:5,000	S2

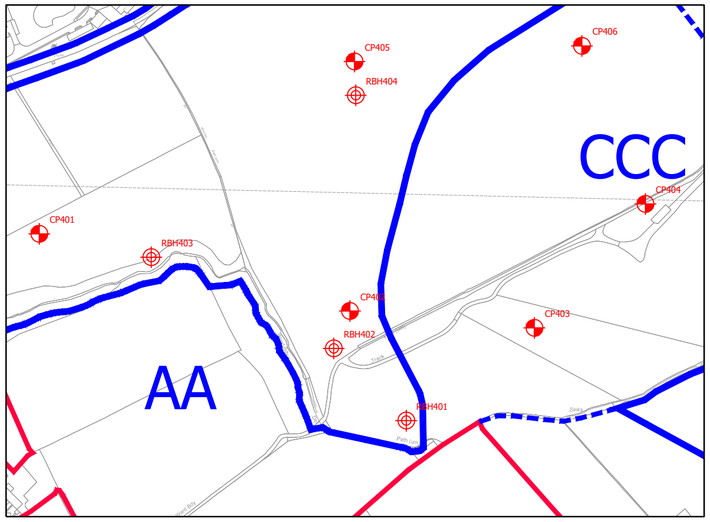
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B048805	- TTE -	00	- XX -	DR	- U -	0012	04

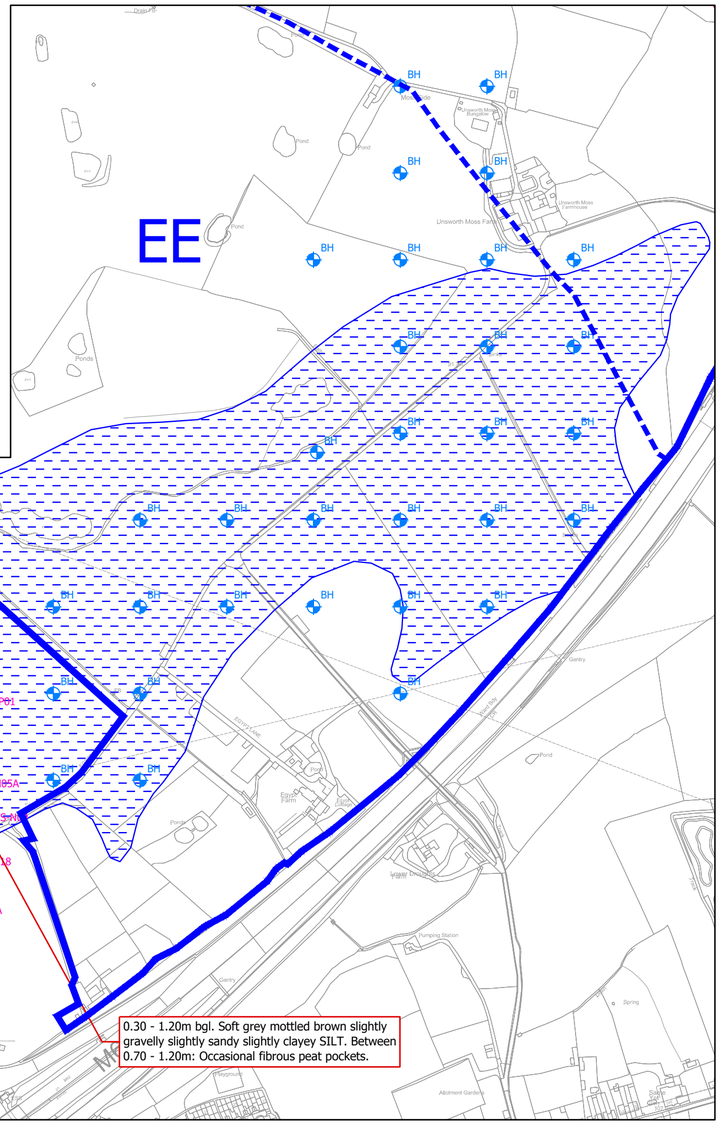
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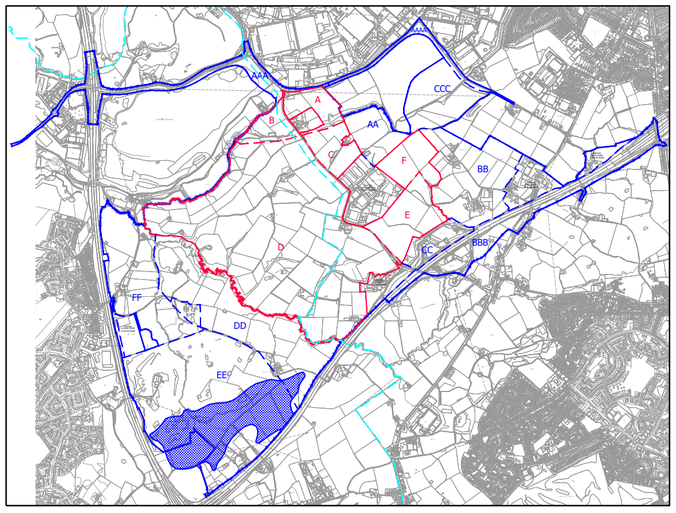
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0 50 100 150 200 250m

SCALE 1:5000

KEY

- PROJECT FOR ASSESSMENT
- PROJECT FOR ASSESSMENT PLOTS
- PROPOSED SCHEME
- PROPOSED SCHEME PLOTS
- DISTRICT BOUNDARY

EXTENT OF PEAT INDICATED ON BGS SHEET 85 MANCHESTER, BEDROCK AND SUPERFICIAL 2011

- PEAT (UNPRODUCTIVE AQUIFER)

HISTORICAL PEAT INVESTIGATIONS

CCG INVESTIGATION 2023

- CCG WINDOW SAMPLE (3m bgl)

IAN FARMERS INVESTIGATION 2021

- BOREHOLE
- WINDOW SAMPLE

WYG GROUND INVESTIGATION JUNE 2020

- CABLE PERCUSSION BOREHOLE
- ROTARY BOREHOLE

BGS ARCHIVE

- PILSWOTH OPENCAST BOREHOLES

NOTE:
PEAT WAS ABSENT FROM ALL BOREHOLES EXCEPT WHERE INDICATED.

FOR INFORMATION ONLY

Rev	Description	Date	Drn / Chk / App
01	FIRST ISSUE	04.02.25	CM NB PG

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Project Name

NORTHERN GATEWAY

Sheet Title

PEAT PLAN

Model Reference

N/A

TTE Project Number	Drawn By	Date	Checked By	Date	Approved By	Date	Scale @ A2	Status
B048805	CM	04.02.25	NB	04.02.25	PG	04.02.25	1:5,000	S2

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B048805	- TTE -	00 -	XX -	DR -	U -	0028	01

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APPENDICES

APPENDIX A – REPORT CONDITIONS

APPENDIX A - REPORT CONDITIONS

GEO-ENVIRONMENTAL DESK-STUDY REVIEW

This report is produced solely for the benefit of by Northern Gateway Development Joint Venture and no liability is accepted for any reliance placed on it by any other party unless specifically agreed in writing otherwise.

This report refers, within the limitations stated, to the condition of the site at the time of the inspections. No warranty is given as to the possibility of future changes in the condition of the site.

This report is based on a study of readily accessible referenced historical records. Some of the opinions are based on unconfirmed data and information and are presented in good faith without exhaustive clarification. Where ground conditions are discussed but no physical site test results are available to confirm this, the report must be regarded as initial advice only, and further assessment should be undertaken prior to detailed activities related to the site. Where test results undertaken by others have been made available these can only be regarded as a limited sample.

Whilst confident in the findings detailed within this report because there are no exact UK definitions of these matters, we are unable to give categorical assurances that they will be accepted by Authorities or Funds etc. without question, as such bodies may have unpublished, often more stringent objectives. This report is prepared for the proposed uses stated in the report and should not be used in a different context without reference to Tetra Tech. In time improved practices or amended guidance may necessitate a re-assessment. The opinions expressed cannot be absolute due to the limitations of time and resources within the context of the agreed brief and the possibility of unrecorded previous use and abuse of the site and adjacent sites. The report concentrates on the site as defined in the report and provides an opinion on surrounding sites.

APPENDIX B – GROUNDSURE REPORT

Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Northern Gateway

Order Details

Date: 11/12/2023

Your ref: Northern Gateway

Our Ref: GSIP-2023-14200-16018_RR_A

Site Details

Location: 383810 408983

Area: 70.42 ha

Authority: Bury Metropolitan Borough Council , Rochdale Metropolitan Borough Council



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Summary of findings p. 2 >

Aerial image p. 9 >

OS MasterMap site plan N/A: >10ha

groundsure.com/insightuserguide

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	14	1	20	51	-
17 >	1.2 >	Historical tanks >	5	0	20	31	-
19 >	1.3 >	Historical energy features >	3	0	4	4	-
20	1.4	Historical petrol stations	0	0	0	0	-
20 >	1.5 >	Historical garages >	0	0	0	2	-
21	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
22 >	2.1 >	Historical industrial land uses >	27	1	33	73	-
27 >	2.2 >	Historical tanks >	8	0	29	44	-
31 >	2.3 >	Historical energy features >	6	0	5	8	-
32	2.4	Historical petrol stations	0	0	0	0	-
32 >	2.5 >	Historical garages >	0	0	0	3	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	3.1 >	Active or recent landfill >	2	0	0	1	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34 >	3.4 >	Historical landfill (EA/NRW records) >	1	0	0	0	-
35 >	3.5 >	Historical waste sites >	0	0	1	1	-
35 >	3.6 >	Licensed waste sites >	0	0	0	11	-
38 >	3.7 >	Waste exemptions >	10	1	18	106	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
50 >	4.1 >	Recent industrial land uses >	15	1	10	-	-
52 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
52	4.3	Electricity cables	0	0	0	0	-
53	4.4	Gas pipelines	0	0	0	0	-
53	4.5	Sites determined as Contaminated Land	0	0	0	0	-

53 >	4.6 >	Control of Major Accident Hazards (COMAH) >	1	1	0	1	-
53	4.7	Regulated explosive sites	0	0	0	0	-
54 >	4.8 >	Hazardous substance storage/usage >	0	0	1	2	-
54	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
54 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	20	-
58 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	0	2	-
59	4.12	Radioactive Substance Authorisations	0	0	0	0	-
59 >	4.13 >	Licensed Discharges to controlled waters >	5	1	1	4	-
61	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
61	4.15	Pollutant release to public sewer	0	0	0	0	-
61	4.16	List 1 Dangerous Substances	0	0	0	0	-
61	4.17	List 2 Dangerous Substances	0	0	0	0	-
61 >	4.18 >	Pollution Incidents (EA/NRW) >	2	0	1	13	-
63 >	4.19 >	Pollution inventory substances >	0	0	0	12	-
69 >	4.20 >	Pollution inventory waste transfers >	0	0	0	1	-
69	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
71 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
73 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
75 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
77	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
77	5.5	Groundwater vulnerability- local information	None (within 0m)				
79 >	5.6 >	Groundwater abstractions >	1	0	0	0	21
85 >	5.7 >	Surface water abstractions >	0	0	0	0	7
87 >	5.8 >	Potable abstractions >	0	0	0	0	2
88	5.9	Source Protection Zones	0	0	0	0	-
88	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	6.1 >	Water Network (OS MasterMap) >	10	7	21	-	-

93 >	6.2 >	Surface water features >	1	4	18	-	-
93 >	6.3 >	WFD Surface water body catchments >	2	-	-	-	-
93 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
94 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
95	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
95	7.2	Historical Flood Events	0	0	0	-	-
95	7.3	Flood Defences	0	0	0	-	-
96	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
96	7.5	Flood Storage Areas	0	0	0	-	-
97	7.6	Flood Zone 2	None (within 50m)				
97	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
98 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
100 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
101	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
102	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
102	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
102	10.4	Special Protection Areas (SPA)	0	0	0	0	0
102	10.5	National Nature Reserves (NNR)	0	0	0	0	0
103 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
103	10.7	Designated Ancient Woodland	0	0	0	0	0
103	10.8	Biosphere Reserves	0	0	0	0	0
103	10.9	Forest Parks	0	0	0	0	0
104	10.10	Marine Conservation Zones	0	0	0	0	0
104 >	10.11 >	Green Belt >	2	0	0	0	2
104	10.12	Proposed Ramsar sites	0	0	0	0	0

104	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
105	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
105	10.15	Nitrate Sensitive Areas	0	0	0	0	0
105 >	**10.16 >**	**Nitrate Vulnerable Zones >**	0	0	0	0	2
106 >	**10.17 >**	**SSSI Impact Risk Zones >**	2	-	-	-	-
107	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
108	11.1	World Heritage Sites	0	0	0	-	-
108	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
108	11.3	National Parks	0	0	0	-	-
108	11.4	Listed Buildings	0	0	0	-	-
109	11.5	Conservation Areas	0	0	0	-	-
109	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 >**	**Agricultural Land Classification >**	Grade 3a (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	-	-
112 >	**12.5 >**	**Countryside Stewardship Schemes >**	1	0	0	-	-
Page	Section	**Habitat designations >**	On site	0-50m	50-250m	250-500m	500-2000m
113 >	**13.1 >**	**Priority Habitat Inventory >**	0	0	5	-	-
114 >	**13.2 >**	**Habitat Networks >**	0	0	2	-	-
114 >	**13.3 >**	**Open Mosaic Habitat >**	0	1	0	-	-
115	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
116 >	**14.1 >**	**10k Availability >**	Identified (within 500m)				
117 >	**14.2 >**	**Artificial and made ground (10k) >**	12	0	9	15	-
120 >	**14.3 >**	**Superficial geology (10k) >**	11	2	3	3	-

121 >	14.4 >	Landslip (10k) >	0	0	0	1	-
123 >	14.5 >	Bedrock geology (10k) >	23	2	4	8	-
125 >	14.6 >	Bedrock faults and other linear features (10k) >	32	4	6	6	-
Page	Section	**Geology 1:50,000 scale** >	On site	0-50m	50-250m	250-500m	500-2000m
128 >	15.1 >	50k Availability >	Identified (within 500m)				
129 >	15.2 >	Artificial and made ground (50k) >	2	0	2	2	-
130 >	15.3 >	Artificial ground permeability (50k) >	2	0	-	-	-
131 >	15.4 >	Superficial geology (50k) >	9	1	1	1	-
132 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
133	15.6	Landslip (50k)	0	0	0	0	-
133	15.7	Landslip permeability (50k)	None (within 50m)				
134 >	15.8 >	Bedrock geology (50k) >	23	2	3	4	-
136 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
137 >	15.10 >	Bedrock faults and other linear features (50k) >	23	1	3	2	-
Page	Section	**Boreholes** >	On site	0-50m	50-250m	250-500m	500-2000m
139 >	16.1 >	BGS Boreholes >	7	12	60	-	-
Page	Section	**Natural ground subsidence** >					
143 >	17.1 >	Shrink swell clays >	Low (within 50m)				
145 >	17.2 >	Running sands >	Low (within 50m)				
147 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
149 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
150 >	17.5 >	Landslides >	Low (within 50m)				
152 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings** >	On site	0-50m	50-250m	250-500m	500-2000m
154 >	18.1 >	BritPits >	1	0	6	6	-
157 >	18.2 >	Surface ground workings >	39	0	26	-	-
159 >	18.3 >	Underground workings >	7	0	0	0	0
160	18.4	Underground mining extents	0	0	0	0	-
160 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-

161 >	18.6 >	Non-coal mining >	1	0	0	0	0
161	18.7	JPB mining areas	None (within 0m)				
161	18.8	The Coal Authority non-coal mining	0	0	0	0	-
161	18.9	Researched mining	0	0	0	0	-
162	18.10	Mining record office plans	0	0	0	0	-
162	18.11	BGS mine plans	0	0	0	0	-
162 >	18.12 >	Coal mining >	Identified (within 0m)				
162	18.13	Brine areas	None (within 0m)				
163	18.14	Gypsum areas	None (within 0m)				
163	18.15	Tin mining	None (within 0m)				
163	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
164	19.1	Natural cavities	0	0	0	0	-
164	19.2	Mining cavities	0	0	0	0	0
164	19.3	Reported recent incidents	0	0	0	0	-
164	19.4	Historical incidents	0	0	0	0	-
165	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
166 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
168 >	21.1 >	BGS Estimated Background Soil Chemistry >	65	9	-	-	-
172	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
172	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
173	22.1	Underground railways (London)	0	0	0	-	-
173	22.2	Underground railways (Non-London)	0	0	0	-	-
174	22.3	Railway tunnels	0	0	0	-	-
174 >	22.4 >	Historical railway and tunnel features >	0	2	7	-	-
174	22.5	Royal Mail tunnels	0	0	0	-	-

175	22.6	Historical railways	0	0	0	-	-
175	22.7	Railways	0	0	0	-	-
175	22.8	Crossrail 1	0	0	0	0	-
175	22.9	Crossrail 2	0	0	0	0	-
175	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 70.42ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 70.42ha

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 70.42ha

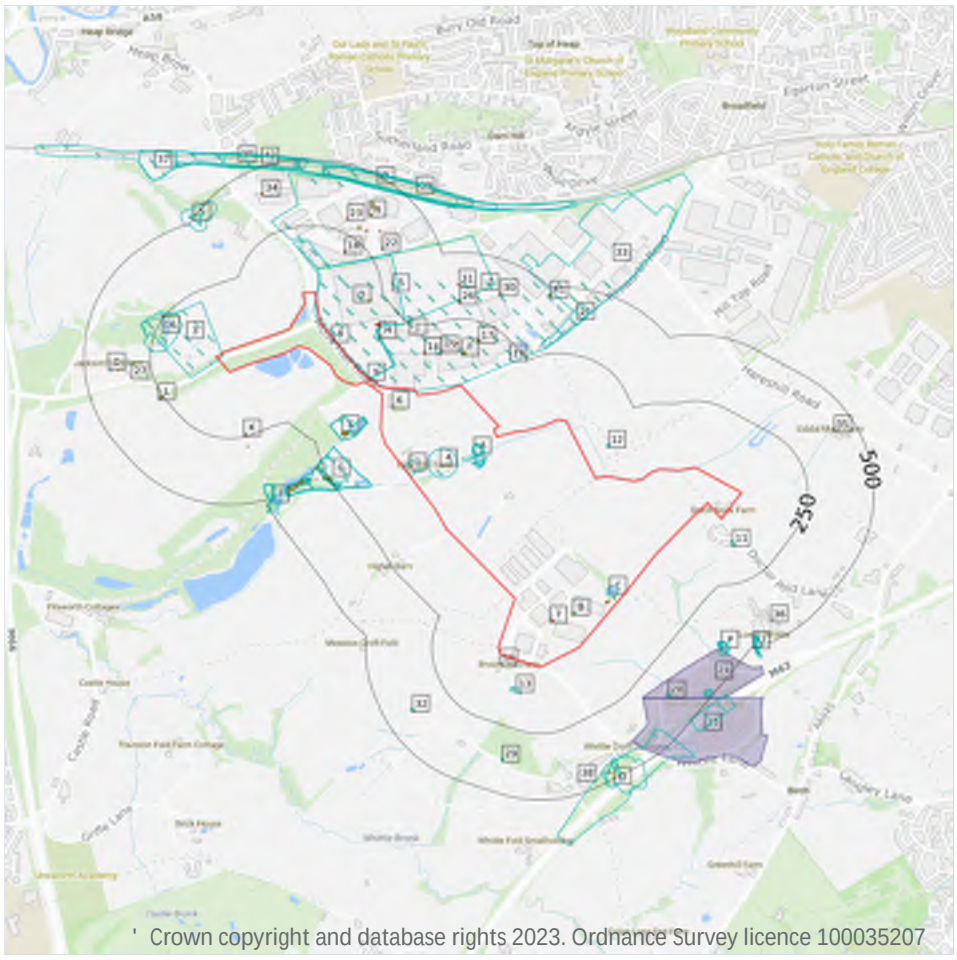
Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 70.42ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	86

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 13 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Coal Pits**	**1851**	**648766**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Industrial Estate**	**1981**	**652312**
3	**On site**	**Nursery**	**1891 - 1908**	**766611**
4	**On site**	**Coal Pits**	**1955 - 1981**	**772742**
5	**On site**	**Unspecified Depot**	**1974 - 1981**	**777740**
A	**On site**	**Old Sandstone Quarry**	**1851**	**657655**
A	**On site**	**Unspecified Pit**	**1965 - 1981**	**697199**
A	**On site**	**Unspecified Pit**	**1955 - 1981**	**731651**
A	**On site**	**Coal Pits**	**1908 - 1938**	**737767**
A	**On site**	**Coal Pits**	**1891**	**738176**
A	**On site**	**Coal Pits**	**1908 - 1938**	**741602**
B	**On site**	**Unspecified Tank**	**1981**	**674847**
C	**On site**	**Unspecified Pit**	**1928 - 1938**	**717895**
D	**On site**	**Unspecified Depot**	**1981**	**747080**
10	30m S	Pump	1851	675596
E	50m NW	Sewage Works	1974	659720
E	50m NW	Unspecified Works	1981	785608
E	50m NW	Unspecified Works	1965	790896
11	91m E	Sand Pit	1851	643781
12	93m NE	Old Sandstone Quarry	1851	657656
13	99m S	Unspecified Pit	1908 - 1938	749732
E	118m W	Unspecified Tanks	1981	778275
E	123m W	Unspecified Tanks	1965 - 1974	703760
G	135m W	Unspecified Mill	1891 - 1938	729539
G	136m W	Bleach Works	1955	658156
16	170m NW	Nursery	1851	725840
G	195m W	Sand Pit	1851	643776
19	201m N	Pump	1851	675587
G	218m W	Unspecified Works	1965 - 1981	728288

ID	Location	Land use	Dates present	Group ID
20	218m W	Sandstone Old Quarry	1851	686457
G	227m W	Filter Tanks	1955	705749
G	231m W	Filler Tanks	1938	641131
K	238m W	Pump	1851	675588
G	248m W	Filter Tanks	1928	742678
L	250m W	Unspecified Tank	1965 - 1981	700355
L	255m W	Unspecified Tank	1955	719082
L	257m W	Unspecified Tank	1908 - 1938	717346
G	257m W	Unspecified Tanks	1955	727681
G	260m W	Unspecified Tanks	1938	696704
G	264m W	Unspecified Tanks	1955	695252
G	273m W	Unspecified Tanks	1928	771882
21	273m N	Unspecified Warehouse	1981	652382
G	314m W	Filter Beds	1955	787128
G	316m W	Filter Beds	1908	703665
G	316m W	Filter Beds	1928 - 1938	772902
28	366m SE	Police Station	1981	680443
29	371m S	Sand Pit	1851	643778
P	388m SE	Unspecified Pit	1955	694771
32	390m SW	Sand Pit	1851	643777
33	390m N	Unspecified Depot	1974 - 1981	788133
P	391m SE	Unspecified Pit	1938	727450
P	391m SE	Unspecified Pit	1909 - 1928	742360
P	400m SE	Unspecified Old Quarries	1890	657761
O	401m W	Pump	1851	675590
Q	420m SE	Cuttings	1974 - 1981	708487
Q	428m S	Refuse Heap	1955	677974
Q	436m S	Sand Quarry	1965	665372

ID	Location	Land use	Dates present	Group ID
R	438m NW	Cuttings	1851	694841
37	438m NW	Cuttings	1891	751273
S	441m NW	Unspecified Ground Workings	1891	716857
R	442m NW	Cuttings	1908 - 1938	745877
T	443m W	Unspecified Pit	1891	740470
38	443m S	Pump	1851	675601
39	444m NW	Cuttings	1955	790738
T	445m W	Unspecified Old Pits	1955	675945
T	446m W	Unspecified Old Quarry	1908	681203
T	446m W	Unspecified Pit	1928 - 1938	758055
R	447m NW	Cuttings	1965	706787
R	447m NW	Cuttings	1974 - 1981	741694
U	457m SE	Unspecified Ground Workings	1938	694233
Q	457m S	Sand Pit	1851	643779
U	458m SE	Unspecified Ground Workings	1965 - 1981	737154
U	459m SE	Unspecified Ground Workings	1909 - 1928	740623
40	462m NW	Cuttings	1908 - 1956	759680
S	463m NW	Unspecified Pit	1908 - 1928	699271
S	464m NW	Unspecified Ground Workings	1938	717454
42	465m NW	Cuttings	1851	770392
U	467m SE	Unspecified Old Quarries	1890	657762
V	468m SE	Unspecified Pit	1955	704411
V	471m SE	Unspecified Pit	1909	701887
U	472m SE	Sand Pit	1851	643782
W	473m NW	Cuttings	1967	742996
W	473m NW	Cuttings	1983	770455
T	492m W	Pumping Station	1908 - 1938	756628
43	495m SE	Cuttings	1981	642588

ID	Location	Land use	Dates present	Group ID
T	495m W	Chimney	1965 - 1981	738204

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**56**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
6	**On site**	**Unspecified Tank**	**1957**	**95209**
B	**On site**	**Unspecified Tank**	**1980 - 1992**	**98192**
C	**On site**	**Tanks**	**1992**	**89834**
C	**On site**	**Tanks**	**1980**	**95622**
C	**On site**	**Tanks**	**1980 - 1992**	**95895**
F	117m N	Unspecified Tank	1966 - 1997	93770
E	123m W	Tanks	1992	90746
E	123m W	Tanks	1957 - 1966	95471
E	134m W	Tanks	1956	92603
E	137m W	Unspecified Tank	1992	84680
14	140m NW	Unspecified Tank	1978 - 1997	89678
15	144m NW	Unspecified Tank	1978 - 1997	101941
H	146m NW	Unspecified Tank	1966	92748
H	147m NW	Unspecified Tank	1966	89639
17	174m N	Unspecified Tank	1978 - 1997	96978
18	184m NW	Unspecified Tank	1995 - 1997	89394
D	190m NW	Unspecified Tank	1966	84679

ID	Location	Land use	Dates present	Group ID
I	195m NW	Unspecified Tank	1966	92426
I	195m NW	Unspecified Tank	1966	95447
J	210m NW	Unspecified Tank	1966	94592
J	210m NW	Unspecified Tank	1966	88887
K	240m W	Unspecified Tank	1992	84684
G	243m W	Tanks	1956	87720
G	248m W	Filter Tanks	1930	88227
K	249m W	Unspecified Tank	1956	84683
L	251m W	Unspecified Tank	1957 - 1992	102587
L	256m W	Unspecified Tank	1910 - 1930	93849
G	265m W	Tanks	1956	102936
G	270m W	Tanks	1930	89782
G	273m W	Unspecified Tank	1910	84681
G	273m W	Tanks	1930	87718
K	286m W	Unspecified Tank	1956 - 1992	97953
G	288m W	Unspecified Tank	1910	84690
M	290m NW	Unspecified Tank	1995	84678
G	294m W	Unspecified Tank	1956	84682
22	299m NW	Unspecified Tank	1978	84710
G	308m W	Unspecified Tank	1910 - 1930	96822
26	311m N	Unspecified Tank	1978 - 1997	89682
27	328m W	Unspecified Tank	1910 - 1930	91604
M	333m NW	Unspecified Tank	1978	84677
G	336m W	Unspecified Tank	1890 - 1910	97967
G	340m W	Tanks	1956	87719
G	345m W	Settling Tanks	1956	78164
N	354m NW	Unspecified Tank	1966	93756
N	355m NW	Unspecified Tank	1966	103519

ID	Location	Land use	Dates present	Group ID
O	369m W	Sewage Tank	1930	78328
G	370m W	Old Settling Tanks	1956	78344
30	372m N	Unspecified Tank	1997	84709
N	380m NW	Unspecified Tank	1978	84676
N	384m NW	Unspecified Tank	1978	84675
N	393m NW	Unspecified Tank	1978	94614
N	397m NW	Unspecified Tank	1996 - 1997	100903
35	418m E	Tanks	1956 - 1968	97834
36	424m SE	Unspecified Tank	1956	84653
41	464m N	Unspecified Tank	1966 - 1968	88829
Q	470m S	Tanks	1956	87868

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**11**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
7	**On site**	**Electricity Substation**	**1980 - 1992**	**55593**
8	**On site**	**Electricity Substation**	**1973 - 1992**	**57335**
9	**On site**	**Electricity Substation**	**1973 - 1992**	**58554**
H	154m NW	Electricity Substation	1978	56461
F	157m N	Electricity Substation	1978 - 1997	49665
H	167m NW	Electricity Substation	1997	50610
G	244m W	Electricity Substation	1956	45665

ID	Location	Land use	Dates present	Group ID
23	299m NW	Electricity Substation	1995 - 1997	48737
M	302m NW	Electricity Substation	1995	45655
31	377m N	Electricity Substation	1978 - 1997	57523
34	402m NW	Electricity Substation	1997	45656

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	2

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
24	306m SE	Service Area	1980 - 1992	19791
25	307m SE	Service Area	1975	17177

This data is sourced from Ordnance Survey / Groundsure.

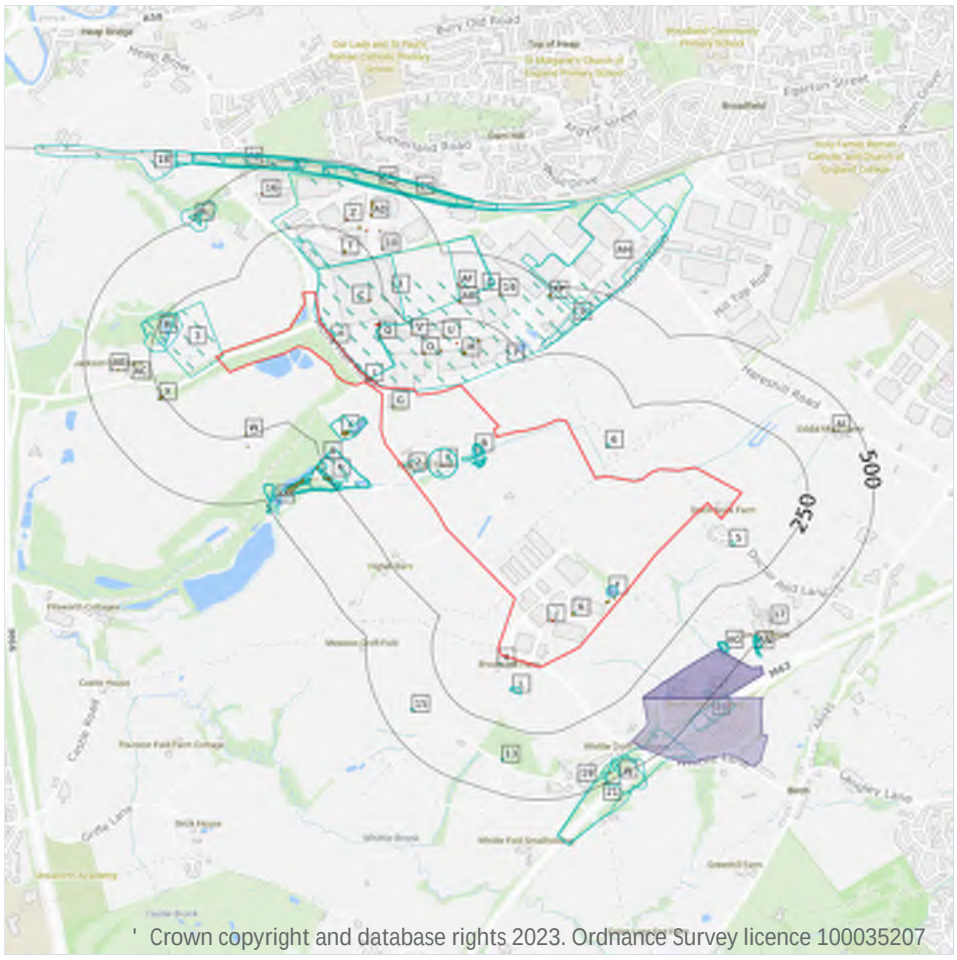
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	134

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 22 >**

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Depot	1974	777740
2	On site	Coal Pits	1851	648766
3	On site	Nursery	1908	766611

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tank**	**1981**	**674847**
B	**On site**	**Unspecified Pit**	**1981**	**731651**
B	**On site**	**Unspecified Pit**	**1981**	**697199**
B	**On site**	**Unspecified Pit**	**1974**	**731651**
B	**On site**	**Unspecified Pit**	**1974**	**697199**
B	**On site**	**Old Sandstone Quarry**	**1851**	**657655**
B	**On site**	**Coal Pits**	**1938**	**741602**
B	**On site**	**Coal Pits**	**1938**	**737767**
B	**On site**	**Coal Pits**	**1891**	**738176**
B	**On site**	**Unspecified Pit**	**1965**	**731651**
B	**On site**	**Unspecified Pit**	**1965**	**697199**
B	**On site**	**Unspecified Pit**	**1955**	**731651**
B	**On site**	**Coal Pits**	**1928**	**741602**
B	**On site**	**Coal Pits**	**1928**	**737767**
B	**On site**	**Coal Pits**	**1908**	**741602**
B	**On site**	**Coal Pits**	**1908**	**737767**
C	**On site**	**Unspecified Depot**	**1981**	**747080**
D	**On site**	**Industrial Estate**	**1981**	**652312**
E	**On site**	**Coal Pits**	**1981**	**772742**
E	**On site**	**Coal Pits**	**1974**	**772742**
E	**On site**	**Coal Pits**	**1965**	**772742**
E	**On site**	**Coal Pits**	**1955**	**772742**
F	**On site**	**Unspecified Pit**	**1938**	**717895**
F	**On site**	**Unspecified Pit**	**1928**	**717895**
4	30m S	Pump	1851	675596
K	50m NW	Unspecified Works	1981	785608
K	50m NW	Sewage Works	1974	659720
K	50m NW	Unspecified Works	1965	790896

ID	Location	Land Use	Date	Group ID
5	91m E	Sand Pit	1851	643781
6	93m NE	Old Sandstone Quarry	1851	657656
L	99m S	Unspecified Pit	1938	749732
L	99m S	Unspecified Pit	1928	749732
L	99m S	Unspecified Pit	1908	749732
K	118m W	Unspecified Tanks	1981	778275
K	123m W	Unspecified Tanks	1974	703760
K	123m W	Unspecified Tanks	1965	703760
N	135m W	Unspecified Mill	1938	729539
N	135m W	Unspecified Mill	1891	729539
N	135m W	Unspecified Mill	1928	729539
N	135m W	Unspecified Mill	1908	729539
N	135m W	Unspecified Mill	1908	729539
N	135m W	Unspecified Mill	1908	729539
N	136m W	Bleach Works	1955	658156
R	170m NW	Nursery	1851	725840
N	195m W	Sand Pit	1851	643776
R	198m NW	Nursery	1891	766611
7	201m N	Pump	1851	675587
N	218m W	Unspecified Works	1981	728288
N	218m W	Unspecified Works	1974	728288
N	218m W	Unspecified Works	1965	728288
8	218m W	Sandstone Old Quarry	1851	686457
N	227m W	Filter Tanks	1955	705749
N	231m W	Filler Tanks	1938	641131
W	238m W	Pump	1851	675588
N	248m W	Filter Tanks	1928	742678
X	250m W	Unspecified Tank	1981	700355

ID	Location	Land Use	Date	Group ID
X	250m W	Unspecified Tank	1974	700355
X	250m W	Unspecified Tank	1965	700355
X	255m W	Unspecified Tank	1955	719082
X	257m W	Unspecified Tank	1938	717346
X	257m W	Unspecified Tank	1928	717346
X	257m W	Unspecified Tank	1908	717346
N	257m W	Unspecified Tanks	1955	727681
N	260m W	Unspecified Tanks	1938	696704
N	264m W	Unspecified Tanks	1955	695252
N	273m W	Unspecified Tanks	1928	771882
9	273m N	Unspecified Warehouse	1981	652382
N	314m W	Filter Beds	1955	787128
N	316m W	Filter Beds	1938	772902
N	316m W	Filter Beds	1908	703665
N	317m W	Filter Beds	1928	772902
D	321m N	Unspecified Depot	1981	777740
12	366m SE	Police Station	1981	680443
13	371m S	Sand Pit	1851	643778
AG	388m SE	Unspecified Pit	1955	694771
15	390m SW	Sand Pit	1851	643777
AH	390m N	Unspecified Depot	1974	788133
AG	391m SE	Unspecified Pit	1938	727450
AG	391m SE	Unspecified Pit	1928	742360
AG	391m SE	Unspecified Pit	1909	742360
AG	400m SE	Unspecified Old Quarries	1890	657761
AE	401m W	Pump	1851	675590
AJ	420m SE	Cuttings	1981	708487
AJ	428m S	Refuse Heap	1955	677974

ID	Location	Land Use	Date	Group ID
AJ	436m S	Sand Quarry	1965	665372
AK	438m NW	Cuttings	1851	694841
18	438m NW	Cuttings	1891	751273
AH	440m N	Unspecified Depot	1981	788133
AL	441m NW	Unspecified Ground Workings	1891	716857
AK	442m NW	Cuttings	1938	745877
AK	442m NW	Cuttings	1928	745877
AK	442m NW	Cuttings	1908	745877
AM	443m W	Unspecified Pit	1891	740470
19	443m S	Pump	1851	675601
20	444m NW	Cuttings	1955	790738
AM	445m W	Unspecified Old Pits	1955	675945
21	446m S	Cuttings	1974	708487
AM	446m W	Unspecified Old Quarry	1908	681203
AM	446m W	Unspecified Pit	1938	758055
AM	446m W	Unspecified Pit	1928	758055
AK	447m NW	Cuttings	1974	741694
AK	447m NW	Cuttings	1965	706787
AK	447m NW	Cuttings	1981	741694
AN	457m SE	Unspecified Ground Workings	1938	694233
AJ	457m S	Sand Pit	1851	643779
AN	458m SE	Unspecified Ground Workings	1981	737154
AN	458m SE	Unspecified Ground Workings	1974	737154
AN	458m SE	Unspecified Ground Workings	1965	737154
AN	459m SE	Unspecified Ground Workings	1928	740623
AN	459m SE	Unspecified Ground Workings	1909	740623
AO	462m NW	Cuttings	1938	759680
AO	462m NW	Cuttings	1928	759680

ID	Location	Land Use	Date	Group ID
AO	462m NW	Cuttings	1908	759680
AL	463m NW	Unspecified Pit	1928	699271
AL	464m NW	Unspecified Ground Workings	1938	717454
AL	464m NW	Unspecified Pit	1908	699271
22	465m NW	Cuttings	1851	770392
AN	467m SE	Unspecified Old Quarries	1890	657762
AA	468m SE	Unspecified Pit	1955	704411
AA	471m SE	Unspecified Pit	1909	701887
AN	472m SE	Sand Pit	1851	643782
AO	473m NW	Cuttings	1967	742996
AO	473m NW	Cuttings	1983	770455
AM	492m W	Pumping Station	1938	756628
AM	492m W	Pumping Station	1928	756628
AM	492m W	Pumping Station	1908	756628
23	495m SE	Cuttings	1981	642588
AO	495m NW	Cuttings	1956	759680
AM	495m W	Chimney	1981	738204
AM	495m W	Chimney	1974	738204
AM	495m W	Chimney	1965	738204

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**81**

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 22 >**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tank**	**1980**	**98192**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Tank**	**1992**	**98192**
F	**On site**	**Tanks**	**1980**	**95895**
F	**On site**	**Tanks**	**1980**	**95622**
F	**On site**	**Tanks**	**1992**	**95895**
F	**On site**	**Tanks**	**1992**	**89834**
G	**On site**	**Unspecified Tank**	**1957**	**95209**
G	**On site**	**Unspecified Tank**	**1957**	**95209**
M	117m N	Unspecified Tank	1997	93770
M	117m N	Unspecified Tank	1966	93770
M	117m N	Unspecified Tank	1966	93770
M	118m N	Unspecified Tank	1978	93770
K	123m W	Tanks	1992	90746
K	123m W	Tanks	1966	95471
K	123m W	Tanks	1957	95471
K	134m W	Tanks	1956	92603
K	137m W	Unspecified Tank	1992	84680
O	140m NW	Unspecified Tank	1997	89678
O	141m NW	Unspecified Tank	1978	89678
P	144m NW	Unspecified Tank	1997	101941
P	145m NW	Unspecified Tank	1978	101941
Q	146m NW	Unspecified Tank	1966	92748
Q	147m NW	Unspecified Tank	1966	89639
S	174m N	Unspecified Tank	1978	96978
S	175m N	Unspecified Tank	1997	96978
T	184m NW	Unspecified Tank	1995	89394
T	184m NW	Unspecified Tank	1997	89394
T	184m NW	Unspecified Tank	1996	89394
C	190m NW	Unspecified Tank	1966	84679

ID	Location	Land Use	Date	Group ID
U	195m NW	Unspecified Tank	1966	92426
U	195m NW	Unspecified Tank	1966	95447
V	210m NW	Unspecified Tank	1966	94592
V	210m NW	Unspecified Tank	1966	88887
W	240m W	Unspecified Tank	1992	84684
N	243m W	Tanks	1956	87720
N	248m W	Filter Tanks	1930	88227
W	249m W	Unspecified Tank	1956	84683
X	251m W	Unspecified Tank	1981	102587
X	251m W	Unspecified Tank	1966	102587
X	251m W	Unspecified Tank	1957	102587
X	251m W	Unspecified Tank	1992	102587
X	256m W	Unspecified Tank	1910	93849
X	256m W	Unspecified Tank	1930	93849
N	265m W	Tanks	1956	102936
N	270m W	Tanks	1930	89782
N	273m W	Unspecified Tank	1910	84681
N	273m W	Tanks	1930	87718
W	286m W	Unspecified Tank	1992	97953
W	287m W	Unspecified Tank	1956	97953
N	288m W	Unspecified Tank	1910	84690
Y	290m NW	Unspecified Tank	1995	84678
N	294m W	Unspecified Tank	1956	84682
10	299m NW	Unspecified Tank	1978	84710
N	308m W	Unspecified Tank	1910	96822
N	308m W	Unspecified Tank	1930	96822
AB	311m N	Unspecified Tank	1978	89682
AB	312m N	Unspecified Tank	1997	89682

ID	Location	Land Use	Date	Group ID
AC	328m W	Unspecified Tank	1910	91604
AC	328m W	Unspecified Tank	1930	91604
Y	333m NW	Unspecified Tank	1978	84677
N	336m W	Unspecified Tank	1890	97967
N	336m W	Unspecified Tank	1910	97967
N	340m W	Tanks	1956	87719
N	345m W	Settling Tanks	1956	78164
AD	354m NW	Unspecified Tank	1966	93756
AD	355m NW	Unspecified Tank	1966	103519
AE	369m W	Sewage Tank	1930	78328
N	370m W	Old Settling Tanks	1956	78344
14	372m N	Unspecified Tank	1997	84709
AD	380m NW	Unspecified Tank	1978	84676
AD	384m NW	Unspecified Tank	1978	84675
AD	393m NW	Unspecified Tank	1978	94614
AD	397m NW	Unspecified Tank	1997	100903
AD	397m NW	Unspecified Tank	1996	100903
AI	418m E	Tanks	1956	97834
AI	418m E	Tanks	1956	97834
AI	418m E	Tanks	1968	97834
17	424m SE	Unspecified Tank	1956	84653
AP	464m N	Unspecified Tank	1968	88829
AP	464m N	Unspecified Tank	1966	88829
AJ	470m S	Tanks	1956	87868

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	19

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 22 >**

ID	Location	Land Use	Date	Group ID
H	**On site**	**Electricity Substation**	**1973**	**57335**
H	**On site**	**Electricity Substation**	**1992**	**57335**
I	**On site**	**Electricity Substation**	**1973**	**58554**
I	**On site**	**Electricity Substation**	**1992**	**58554**
J	**On site**	**Electricity Substation**	**1980**	**55593**
J	**On site**	**Electricity Substation**	**1992**	**55593**
Q	154m NW	Electricity Substation	1978	56461
M	157m N	Electricity Substation	1997	49665
M	157m N	Electricity Substation	1978	49665
Q	167m NW	Electricity Substation	1997	50610
N	244m W	Electricity Substation	1956	45665
Z	299m NW	Electricity Substation	1995	48737
Z	299m NW	Electricity Substation	1997	48737
Z	299m NW	Electricity Substation	1996	48737
Y	302m NW	Electricity Substation	1995	45655
AF	377m N	Electricity Substation	1978	57523
AF	378m N	Electricity Substation	1997	57523
AF	378m N	Electricity Substation	1996	57523
16	402m NW	Electricity Substation	1997	45656

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	3

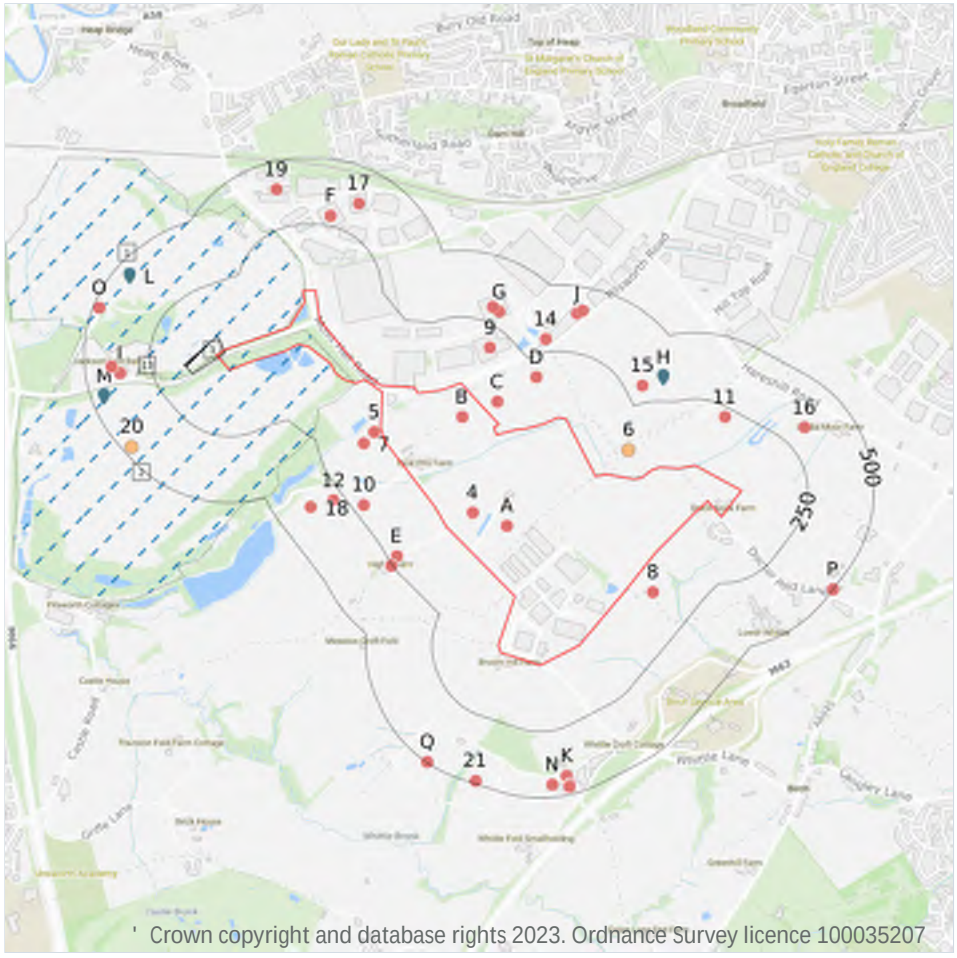
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 22 >**

ID	Location	Land Use	Date	Group ID
AA	306m SE	Service Area	1992	19791
AA	306m SE	Service Area	1980	19791
11	307m SE	Service Area	1975	17177

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Active or recent landfill

Historical landfill (EA/NRW)

Historical waste sites

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	3

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

Features are displayed on the Waste and landfill map on **page 33 >**

ID	Location	Details	
1	**On site**	**Operator: Viridor Waste Management Limited** **Site Address: Pilsworth North Landfill Site, Pilsworth Road, Lancashire, BL9 8QZ**	**WML Number: 0** **EPR Reference: -** **Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE** **Status: Effective** **IPPC Reference: -** **EPR Number: -**

ID	Location	Details	
2	**On site**	**Operator: Viridor Waste Management Limited** **Site Address: Pilsworth South Landfill, Pilsworth Road, Lancashire, BL9 8QZ**	**WML Number: 0** **EPR Reference: -** **Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE** **Status: Effective** **IPPC Reference: -** **EPR Number: -**
13	296m W	Operator: Viridor Waste Management Limited Site Address: Pilsworth North Landfill Site, Pilsworth Road, Lancashire, BL9 8QZ	WML Number: 0 EPR Reference: - Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: -

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

3.2 Historical landfill (BGS records)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	**0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	**1**

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

Features are displayed on the Waste and landfill map on **page 33 >**

ID	Location	Details		
3	**On site**	**Site Address: Pilsworth Sand Pit Phase A, Pilsworth Road, Bury** **Licence Holder Address: -**	**Waste Licence: Yes** **Site Reference: C039, RD/LIC/463/87** **Waste Type: Inert, Industrial, Special** **Environmental Permitting Regulations (Waste) Reference: -** **Licence Issue: 16/12/1987** **Licence Surrender: 11/04/1994**	**Operator: -** **Licence Holder: T Adams Limited** **First Recorded 31/12/1987** **Last Recorded: 31/12/1989**

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

3.5 Historical waste sites

Records within 500m **2**

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 33 >**

ID	Location	Address	Further Details	Date
6	79m E	Site Address: Land Off, Whittle Lane, Heywood, Greater Manchester, OL10	Type of Site: Landfill Works (Refurb) Planning application reference: 13/00237/FUL Description: Scheme comprises infilling of redundant quarry to restore land for more beneficial agricultural use, including the construction of a new vehicular access to the site from whittle lane. Data source: Historic Planning Application Data Type: Point	-
20	444m W	Site Address: Pilsworth Quarry, Pilsworth Road, Bury, Greater Manchester, BL9 8QZ, N.WEST	Type of Site: Material Recycling Facility Planning application reference: 69956 Description: Scheme comprises construction of and operation of a material recycling facility and associated works. Data source: Historic Planning Application Data Type: Point	18/08/2023

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

3.6 Licensed waste sites

Records within 500m **11**

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

Features are displayed on the Waste and landfill map on **page 33 >**

ID	Location	Details		
H	338m NE	Site Name: Hareshill Farm Equestrian Centre Site Address: Hareshill Farm, Hareshill Road, Pilsworth, Heywood, Lancashire, OL10 2TB Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PCE006 EPR reference: EA/EPR/KB3603LV/V003 Operator: P Casey Enviro Ltd Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: - Modified: 07/06/2022 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified
H	338m NE	Site Name: Hareshill Farm Equestrian Centre Site Address: Hareshill Farm Equestrian Centre, Hareshill Road, Pilsworth, Heywood, Lancashire, OL10 2TB Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PCE006 EPR reference: EA/EPR/CB3738AC/A001 Operator: P Casey Enviro Ltd Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
H	338m NE	Site Name: Hareshill Farm Site Address: - Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PCE006 EPR reference: EA/EPR/KB3603LV/T001 Operator: Russells South Heywood Limited Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: - Modified: 06/09/2021 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
H	338m NE	Site Name: Hareshill Farm Equestrian Centre Site Address: Hareshill Farm, Hareshill Road, Pilsworth, Heywood, Lancashire, OL10 2TB Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 638494 EPR reference: EA/EPR/KB3603LV Operator: P. Casey Enviro Limited Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: 08/03/2012 Modified: 08/03/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
L	443m NW	Site Name: Pilsworth Quarry & Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: Great Western House, Station Approach, Taunton, Somerset, TA1 1QW	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VWM001 EPR reference: - Operator: Viridor Waste Exeter Ltd Waste Management licence No: 53630 Annual Tonnage: 143000	Issue Date: 09/09/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
L	443m NW	Site Name: Pilsworth North Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: Peninsula House, Rydon Lane, Exeter, Devon, EX2 7HR	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VWM001 EPR reference: - Operator: Viridor Waste Management Ltd Waste Management licence No: 53630 Annual Tonnage: 1710000	Issue Date: 09/09/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: IPPC
L	443m NW	Site Name: Pilsworth North Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: VWM001 EPR reference: EA/EPR/JP3492CZ/A001 Operator: Viridor Waste Management Ltd Waste Management licence No: 53630 Annual Tonnage: 1710000	Issue Date: 09/09/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
L	443m NW	Site Name: Pilsworth North Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: Unknown Environmental Permitting Regulations (Waste) Licence Number: VWM001 EPR reference: EA/EPR/JP3492CZ/A001 Operator: Viridor Waste Management Ltd Waste Management licence No: 53630 Annual Tonnage: 1710000	Issue Date: 09/09/1991 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC

ID	Location	Details		
L	443m NW	Site Name: Pilsworth North Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 644772 EPR reference: EA/EPR/JP3492CZ Operator: Viridor Waste Management Limited Waste Management licence No: 53630 Annual Tonnage: 1710000	Issue Date: 09/09/1991 Effective Date: 09/09/1991 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired
M	452m W	Site Name: Pilsworth South Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PSL001 EPR reference: EA/EPR/AP3794CN/A001 Operator: Viridor Waste Management Ltd Waste Management licence No: 50437 Annual Tonnage: 500000	Issue Date: 18/05/2005 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: To PPC
M	452m W	Site Name: Pilsworth South Landfill Site Address: Pilsworth Road, Bury, Lancashire, BL9 8QZ Correspondence Address: -	Type of Site: Co-Disposal Landfill Site Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 631906 EPR reference: EA/EPR/AP3794CN Operator: Viridor Waste Management Limited Waste Management licence No: 50437 Annual Tonnage: 500000	Issue Date: 18/05/2005 Effective Date: 18/05/2005 Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Expired

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

3.7 Waste exemptions

Records within 500m	**135**

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 33 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
4	**On site**	**-**	**WEX127088**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**-**	**WEX227640**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
A	**On site**	**-**	**WEX151549**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
A	**On site**	**-**	**WEX356548**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**-**	**WEX259862**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
A	**On site**	**-**	**WEX292468**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	**On site**	**-**	**WEX227718**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
B	**On site**	**-**	**WEX151544**	**Storing waste exemption**	**On a Farm**	**Storage of sludge**
B	**On site**	**-**	**WEX112722**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
B	**On site**	**-**	**WEX292470**	**Storing waste exemption**	**On a farm**	**Storage of sludge**
5	30m NW	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/BE5748EP/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	50m N	-	WEX274438	Treating waste exemption	Not on a farm	Screening and blending of waste
C	50m N	-	WEX274438	Using waste exemption	Not on a farm	Use of waste in construction
7	81m W	-	WEX151547	Storing waste exemption	On a Farm	Storage of sludge
8	85m SE	Lower Whittle Farm Doctor Fold Lane HEYWOOD Lancashire OL10 2QE	EPR/VE5746KJ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	171m N	-	WEX227641	Storing waste exemption	On a Farm	Storage of sludge
D	171m N	-	WEX151550	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
9	172m N	Fowler Welch Limited, Moss Hall Road, Heywood, OL10 2TR	WEX241678	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
10	210m W	-	WEX112724	Storing waste exemption	On a farm	Storage of sludge
11	211m E	RIVERS LANE, URMSTON, MANCHESTER, M41 7JB	WEX096761	Storing waste exemption	On a farm	Storage of sludge
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
E	221m SW	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of waste for a specified purpose
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of mulch
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of waste in construction
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Storing waste exemption	On a farm	Storage of waste in a secure place
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Disposing of waste exemption	On a farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Disposing of waste exemption	On a farm	Burning waste in the open
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of waste in construction
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of mulch
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of waste for a specified purpose
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Storing waste exemption	On a Farm	Storage of waste in a secure place
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Disposing of waste exemption	On a Farm	Burning waste in the open
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment

ID	Location	Site	Reference	Category	Sub-Category	Description
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of mulch
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of waste for a specified purpose
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
E	257m SW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of waste in construction
F	286m NW	1 UNION BUSINESS PARK, FLORENCE WAY, ROCKINGHAM ROAD, UXBRIDGE, UB8 2LS	WEX094963	Storing waste exemption	Not on a farm	Storage of waste in a secure place
F	286m NW	B6, BROADLANDS, HEYWOOD DISTRIBUTION PARK, HEYWOOD, OL10 2TS	WEX239440	Storing waste exemption	Not on a farm	Storage of waste in a secure place
12	292m W	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/JE5149VE/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
14	298m N	P1.16, PARKLANDS, HEYWOOD DISTRIBUTION PARK, HEYWOOD, OL10 2TT	WEX284167	Storing waste exemption	Not on a farm	Storage of waste in secure containers
G	303m N	UNIT 1, P1/P2,HEYWOOD DISTRIBUTION PARK,HEYWOOD OL10 2TT	EXP/GP3146YU	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
G	311m N	Unit P1 And P2, Heywood Distribution Park, Heywood, OL10 2TT	EA/EPR/VP3888HB/A001	Treating waste exemption	Not on a farm	Repair or refurbishment of WEEE
15	312m NE	Hareshill Farm Hareshill Road Lancashire OL12 2TB	EPR/SE5545XS/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
16	333m E	-	WEX119993	Storing waste exemption	On a farm	Storage of sludge
17	365m NW	B6 Broadlands HEYWOOD Lancashire OL10 2TS	EPR/JF0833DR/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
I	373m W	Jackson Fold Farm Pilsworth Road BURY Lancashire BL9 8QZ	EPR/UE5784QL/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
I	373m W	Jackson Fold Farm Pilsworth Road BURY Lancashire BL9 8QZ	EPR/SE5286QR/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
18	375m W	-	WEX002345	Storing waste exemption	On a farm	Storage of sludge
19	396m NW	QUEST PARK, UNIT 8, MOSS HALL ROAD, BURY, BL9 7JZ	WEX273553	Using waste exemption	Not on a farm	Use of waste in construction
J	396m N	Iron Mountain, P17 Parklands, Heywood Distribution Park, Heywood, OL10 2TT	WEX076404	Storing waste exemption	Not on a farm	Storage of waste in a secure place
I	400m W	Jackson Fold Farm Pilsworth Road BURY Lancashire BL9 8QZ	EPR/UE5883JD/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
I	400m W	Jackson Fold Farm Pilsworth Road BURY Lancashire BL9 8QZ	EPR/UE5883JD/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
I	401m W	Pilsworth Landfill Pilsworth Road BURY Lancashire BL9 8QZ	EPR/ME5244SG/A001	Treating waste exemption	Non-Agricultural Waste Only	Screening and blending of waste
I	401m W	Pilsworth Landfill Pilsworth Road BURY Lancashire BL9 8QZ	EPR/ME5244SG/A001	Treating waste exemption	Non-Agricultural Waste Only	Recovery of scrap metal
I	401m W	Pilsworth Landfill Pilsworth Road BURY Lancashire BL9 8QZ	EPR/ME5244SG/A001	Using waste exemption	Non-Agricultural Waste Only	Spreading waste on non-agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
J	412m N	Argos Distribution Centre Door 31 Heywood Distribution Park Heywood OL10 2TT	EPR/BF0934DE/A001	Treating waste exemption	Non-Agricultural Waste Only	Crushing waste fluorescent tubes
K	429m S	WHITTLEFOLD FARM, WHITTLE LANE, HEYWOOD, OL10 2RD	WEX202425	Using waste exemption	Not on a farm	Use of waste in construction
N	454m S	-	WEX207757	Storing waste exemption	On a Farm	Storage of sludge
N	454m S	-	WEX207757	Disposing of waste exemption	On a Farm	Burning waste in the open
N	454m S	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
N	454m S	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
N	454m S	-	WEX207757	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
N	454m S	-	WEX207757	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
N	454m S	-	WEX207757	Treating waste exemption	On a Farm	Recovery of scrap metal
N	454m S	-	WEX207757	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
N	454m S	-	WEX207757	Treating waste exemption	On a Farm	Screening and blending of waste
N	454m S	-	WEX207757	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
N	454m S	-	WEX207757	Using waste exemption	On a Farm	Use of mulch
N	454m S	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on non-agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
N	454m S	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
N	454m S	-	WEX336737	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
N	454m S	-	WEX336737	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit
N	454m S	-	WEX336737	Using waste exemption	On a farm	Use of mulch
N	454m S	-	WEX336737	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
N	454m S	-	WEX336737	Treating waste exemption	On a farm	Screening and blending of waste
N	454m S	-	WEX336737	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
N	454m S	-	WEX336737	Treating waste exemption	On a farm	Recovery of scrap metal
N	454m S	-	WEX336737	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
N	454m S	-	WEX336737	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
N	454m S	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
N	454m S	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
N	454m S	-	WEX336737	Disposing of waste exemption	On a farm	Burning waste in the open
N	454m S	-	WEX336737	Storing waste exemption	On a farm	Storage of sludge

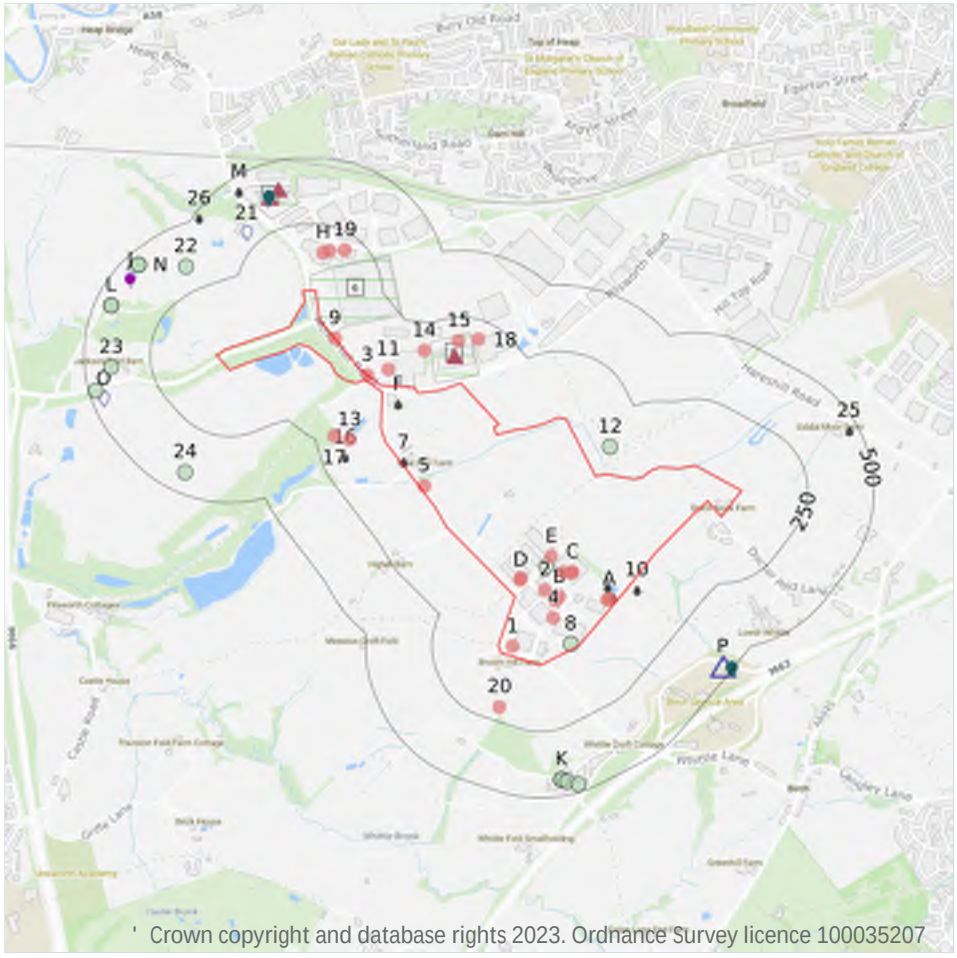
ID	Location	Site	Reference	Category	Sub-Category	Description
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste food
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Screening and blending of waste
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste derived biodiesel as fuel
K	465m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Storing waste exemption	On a Farm	Storage of waste in a secure place
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Using waste exemption	On a Farm	Use of waste in construction
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste in construction
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of mulch
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste for a specified purpose
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Storing waste exemption	On a farm	Storage of waste in a secure place
K	470m S	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
O	477m NW	Jackson Fold Farm Pilsworth Road BURY Lancashire BL9 8QZ	EPR/UE5584QQ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
O	477m NW	Jackson Fold Farm Pilsworth Road BURY Lancashire BL9 8QZ	EPR/SE5486QQ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
21	491m S	Whittle Dairy Farm Heywood Lancashire ol10 2rd	EPR/ZE5880ZF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
P	499m E	40, DOCTOR FOLD LANE, HEYWOOD, OL10 2QE	WEX230602	Using waste exemption	On a Farm	Use of waste in construction
P	499m E	40, DOCTOR FOLD LANE, HEYWOOD, OL10 2QE	WEX230602	Treating waste exemption	On a Farm	Screening and blending of waste
Q	499m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5250JV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
Q	499m S	Whittle Dairy Farm Heywood Lancashire OL10 2RD	EPR/CE5080ZD/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

- Recent industrial land uses
- Current or recent petrol stations
- Control of Major Accident Hazards
- Hazardous substance storage/usage
- Part A(1) industrial activities
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)
- Pollution inventory substances
- Pollution inventory waste transfers

4.1 Recent industrial land uses

Records within 250m	26

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 50 >**

ID	Location	Company	Address	Activity	Category
1	On site	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
2	On site	Ital Logistics	Unit 1 Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery
3	On site	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	**On site**	**Electricity Sub Station**	**Greater Manchester, OL10**	**Electrical Features**	**Infrastructure and Facilities**
5	**On site**	**Gas Valve Compound**	**Greater Manchester, OL10**	**Gas Features**	**Infrastructure and Facilities**
A	**On site**	**Tank**	**Greater Manchester, OL10**	**Tanks (Generic)**	**Industrial Features**
A	**On site**	**Tank**	**Greater Manchester, OL10**	**Tanks (Generic)**	**Industrial Features**
B	**On site**	**G J D Manufacturing**	**Unit 2 Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX**	**Special Purpose Machinery and Equipment**	**Industrial Products**
B	**On site**	**Suilvision Ltd**	**Unit E Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX**	**Photographic and Optical Equipment**	**Household, Office, Leisure and Garden**
C	**On site**	**Archbold Logistics Ltd**	**Unit H Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX**	**Distribution and Haulage**	**Transport, Storage and Delivery**
C	**On site**	**Delice de France**	**Unit H Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX**	**Distribution and Haulage**	**Transport, Storage and Delivery**
C	**On site**	**Birch Business Park**	**Greater Manchester, OL10**	**Business Parks and Industrial Estates**	**Industrial Features**
D	**On site**	**Pylon**	**Greater Manchester, OL10**	**Electrical Features**	**Infrastructure and Facilities**
D	**On site**	**Mast (Telecommunication)**	**Greater Manchester, OL10**	**Telecommunications Features**	**Infrastructure and Facilities**
E	**On site**	**Electricity Sub Station**	**Greater Manchester, OL10**	**Electrical Features**	**Infrastructure and Facilities**
9	1m NW	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
11	63m NW	Mast	Greater Manchester, OL10	Telecommunications Features	Infrastructure and Facilities
13	126m W	Outfall	Greater Manchester, OL10	Waste Storage, Processing and Disposal	Infrastructure and Facilities
14	144m NW	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
H	147m NW	Ukbifold	Broadlands Unit B4 Bays 9 and 10 Heywood Distribution Park, Pilsworth Road, Heywood, Greater Manchester, OL10 2TS	General Construction Supplies	Industrial Products

ID	Location	Company	Address	Activity	Category
H	158m NW	Luxal	B4 Broadlands, Heywood Distribution Park, Heywood, Greater Manchester, OL10 2TS	General Construction Supplies	Industrial Products
15	161m N	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
17	178m W	Sewage Works	Greater Manchester, OL10	Waste Storage, Processing and Disposal	Infrastructure and Facilities
18	180m N	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
19	189m NW	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
20	195m S	Pump House	Greater Manchester, OL10	Water Pumping Stations	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 50 >**

ID	Location	Company	Address	LPG	Status
P	465m SE	BP	M62 J18-19, Birch, Heywood, Greater Manchester, OL10 2QH	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	3

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 50 >**

ID	Location	Company	Address	Operational status	Tier
6	**On site**	**Beck & Pollitzer Ltd**	**Beck & Pollitzer Ltd, Mosshall Road, Bury**	**Historical NIHHS Site**	**-**
G	19m NW	Eddie Stobart Logistics Limited	Eddie Stobart Logistics Limited, Heywood, Unit M2 Heywood Distribution Park, Pilsworth Road, Heywood, Greater Manchester, OL10 2TR	Historical COMAH Site	COMAH Upper Tier Operator
I	296m NW	Baerlocher UK Ltd	Baerlocher UK Ltd, Bury, Moss Hall Road, Bury, Lancashire, BL9 7JJ	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	3

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.

Features are displayed on the Current industrial land use map on **page 50 >**

ID	Location	Details	
G	103m NW	Application reference number: No Details Application status: Approved Application date: No Details Address: Eddie Stobart Logistics Ltd, Heywood Distribution Park, Unit M2, Pilsworth Road, Heywood, Greater Manchester, England, OL10 2TR	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details
I	373m NW	Application reference number: 01/D39398 Application status: Historical Consent Application date: 24/10/2001 Address: Baerlocher (UK) Ltd, Moss Hall Road, Bury, Lancashire, BL9 7JJ	Details: Application for consent to store hazardous substances. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
I	393m NW	Application reference number: 03/D41454 Application status: Approved Application date: 31/03/2003 Address: Hanson Transport Ltd, Unit 3, Moss Hall Road, Bury, Greater Manchester, England, BL9 7JZ	Details: Application for consent to store hazardous substances. Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	20

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 50 >**

ID	Location	Details	
21	304m NW	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: Pilsworth North Gas Compound Process: MCP Permit Number: WE8487AA Original Permit Number: WE8487AA	EPR Reference: EPR/WE8487AA Issue Date: - Effective Date: 14/05/2021 Last date noted as effective: 23/11/2023 Status: Effective
I	368m NW	Operator: BAERLOCHER UK LIMITED Installation Name: Moss Hall Road - EPR/BS2941IR Process: MANUFACTURING THE USE OF, OR THE USE OF ANTIMONY, ARSENIC, BERYLLIUM, GALLIUM, INDIUM, LEAD, PALLADIUM, PLATINUM, SELENIUM, TELLURIUM AND THALLIUM Permit Number: BS2941IR Original Permit Number: BS2941IR	EPR Reference: EPR/BS2941IR Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 23/11/2023 Status: Effective
I	368m NW	Operator: BAERLOCHER UK LTD Installation Name: MOSS HALL ROAD - EPR/BS2941IR Process: INORGANIC CHEMICALS; USING ETC OF ANTIMONY ETC (UNLESS OTHERRWISE PRESCRINED) (UNLESS GLAZING ETC) Permit Number: BS2941IR Original Permit Number: BS2941IR	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
I	368m NW	Operator: BAERLOCHER UK LTD Installation Name: MOSS HALL ROAD - EPR/BS2941IR Process: MANUFACTURING THE USE OF, OR THE USE OF ANTIMONY, ARSENIC, BERYLLIUM, GALLIUM, INDIUM, LEAD, PALLADIUM, PLATINUM, SELENIUM, TELLURIUM AND THALLIUM Permit Number: BS2941IR Original Permit Number: BS2941IR	EPR Reference: - Issue Date: 07/07/2005 Effective Date: 07/07/2005 Last date noted as effective: 15/05/2020 Status: EFFECTIVE
J	433m NW	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: BU9068IM Original Permit Number: BU9068IM	EPR Reference: EPR/BU9068IM Issue Date: 01/02/2023 Effective Date: 21/01/2022 Last date noted as effective: 23/11/2023 Status: Effective
J	433m NW	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: ASSOCIATED PROCESS Permit Number: BU9068IM Original Permit Number: BU9068IM	EPR Reference: EPR/BU9068IM Issue Date: 21/01/2022 Effective Date: 21/01/2022 Last date noted as effective: 08/11/2023 Status: Effective

ID	Location	Details	
J	433m NW	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: PILSWORTH NORTH LANFILL SITE EPR/BU9068IM Process: ASSOCIATED PROCESS Permit Number: BP3402LU Original Permit Number: BU9068IM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2021 Status: DETERMINATION
J	433m NW	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: PILSWORTH NORTH LANFILL SITE EPR/BU9068IM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BP3402LU Original Permit Number: BU9068IM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2021 Status: DETERMINATION
J	433m NW	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: PILSWORTH NORTH LANFILL SITE EPR/BU9068IM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: BP3402LU Original Permit Number: BU9068IM	EPR Reference: - Issue Date: - Effective Date: - Last date noted as effective: 01/04/2021 Status: DETERMINATION
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: BP3102LQ Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 26/05/2021 Effective Date: 26/05/2021 Last date noted as effective: 21/03/2023 Status: Superceded
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: YP3703LC Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 30/10/2020 Effective Date: 30/10/2020 Last date noted as effective: 21/03/2023 Status: Superceded
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: YP3703LC Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 30/10/2020 Effective Date: 30/10/2020 Last date noted as effective: 21/03/2023 Status: Superceded

ID	Location	Details	
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: DP3004LL Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 21/01/2022 Effective Date: 21/01/2022 Last date noted as effective: 21/03/2023 Status: Effective
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: ASSOCIATED PROCESS Permit Number: DP3004LL Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 21/01/2022 Effective Date: 21/01/2022 Last date noted as effective: 21/03/2023 Status: Effective
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: ASSOCIATED PROCESS Permit Number: YP3703LC Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 30/10/2020 Effective Date: 30/10/2020 Last date noted as effective: 21/03/2023 Status: Superceded
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: ASSOCIATED PROCESS Permit Number: BP3102LQ Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 26/05/2021 Effective Date: 26/05/2021 Last date noted as effective: 21/03/2023 Status: Superceded
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BP3102LQ Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 26/05/2021 Effective Date: 26/05/2021 Last date noted as effective: 21/03/2023 Status: Superceded
J	433m NW	Operator: Viridor Waste Management Limited Installation Name: Pilsworth North Lanfill Site EPR/BU9068IM Process: DISPOSAL OF > 50 T/D NON-HAZARDOUS WASTE (> 100 T/D IF ONLY AD) INVOLVING BIOLOGICAL TREATMENT Permit Number: DP3004LL Original Permit Number: BU9068IM	EPR Reference: - Issue Date: 21/01/2022 Effective Date: 21/01/2022 Last date noted as effective: 21/03/2023 Status: Effective

ID	Location	Details	
O	457m W	Operator: VIRIDOR WASTE MANAGEMENT LIMITED Installation Name: Pilsworth South Landfill - EPR/BS7951IB Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: BS7951IB Original Permit Number: BS7951IB	EPR Reference: EPR/BS7951IB Issue Date: 01/03/2023 Effective Date: 20/10/2020 Last date noted as effective: 23/11/2023 Status: Effective
O	457m W	Operator: Viridor Waste Management Ltd Installation Name: PILSWORTH SOUTH LANDFILL Process: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Permit Number: EP3732US Original Permit Number: BS7951IB	EPR Reference: - Issue Date: 06/07/2009 Effective Date: 07/07/2009 Last date noted as effective: 21/03/2023 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 **2**

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

Features are displayed on the Current industrial land use map on **page 50 >**

ID	Location	Address	Details	
I	373m NW	Baerlocher UK Ltd, Moss Hall Road, Bury, Lancashire, BL9 7JJ	Process: Lead Processes Status: Historical Permit Permit Type: Part A2	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
P	496m SE	Moto Hospitality Ltd, Birch Services (East), Heywood Old Road, Heywood, Lancashire, OL10 2QH	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	11

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 50 >**

ID	Location	Address	Details	
7	On site	THE BOSKINS STP, MOSS HALL ROAD, PILSWORTH, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993161 Permit Version: 1 Receiving Water: TRIB BRIGHTLEY BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 12/02/1997 Revocation Date: -
A	On site	UNIT K BIRCH IND.EST, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991177 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 02/09/1987 Revocation Date: 01/10/1996
A	On site	YEARGATE LTD, BIRCH INDUSTRIAL PARK, WHITTLE LANE, HEYWOOD, GREATER MANCHESTER, OL10 2SX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993303 Permit Version: 1 Receiving Water: SURF WTR DRN TO TRIB WHITTL BK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/11/1998 Effective Date: 06/11/1998 Revocation Date: -
F	On site	THREE ARROWS INN, PILSWORTH ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991442 Permit Version: 1 Receiving Water: BRIGHTLEY BROOK	Status: REVOKED NEW CONSENT ISSUED (WATER ACT 1989 SECTION 113) Issue date: - Effective Date: 11/08/1989 Revocation Date: 04/04/2000

ID	Location	Address	Details	
F	**On site**	**THREE ARROWS INN, PILSWORTH ROAD, HEYWOOD, GREATER MANCHESTER**	**Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016991442 Permit Version: 2 Receiving Water: BRIGHTLEY BROOK**	**Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 05/04/2000 Effective Date: 05/04/2000 Revocation Date: -**
10	31m SE	LONDON CARRIERS LTD, BIRCH, HEYWOOD, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990242 Permit Version: 1 Receiving Water: TRIB WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 01/11/1980 Revocation Date: 01/10/1996
16	163m W	HEYWOOD INDUSTRIAL ESTATE, PILSWORTH ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990243 Permit Version: 1 Receiving Water: BRIGHTLY BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1980 Revocation Date: -
M	445m NW	MOSS HALL ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - NOT WATER COMPANY Permit Number: 0171/1464 Permit Version: 1 Receiving Water: GIGG BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
M	445m NW	MOSS HALL ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 0171/1464 Permit Version: 2 Receiving Water: GIGG BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
25	463m E	SIDDAL MOOR FARM, HARESHILL ROAD, HEYWOOD, LANCASHIRE, OL10 2TB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0172/1669 Permit Version: 1 Receiving Water: UNKNOWN	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/02/1972 Effective Date: 09/02/1972 Revocation Date: -
26	477m NW	BROOK COTTAGE, MOSS HALL ROAD, HEAP BRIDGE, BURY, GREATER MANCHESTER, BL9 7JL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993339 Permit Version: 1 Receiving Water: GIGG BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 12/04/1999 Effective Date: 12/04/1999 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	16

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 50 >**

ID	Location	Details	
8	**On site**	**Incident Date: 05/11/2002** **Incident Identification: 121012** **Pollutant: Oils and Fuel** **Pollutant Description: Gas and Fuel Oils**	**Water Impact: Category 3 (Minor)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
E	**On site**	**Incident Date: 22/09/2003** **Incident Identification: 193616** **Pollutant: Organic Chemicals/Products** **Pollutant Description: Dyes and Inks**	**Water Impact: Category 3 (Minor)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 4 (No Impact)**
12	100m NE	Incident Date: 22/07/2002 Incident Identification: 93563 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
22	347m NW	Incident Date: 10/09/2003 Incident Identification: 189018 Pollutant: Inorganic Chemicals/Products Pollutant Description: Other Inorganic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
23	399m W	Incident Date: 23/02/2020 Incident Identification: 1784912 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 4 (No Impact)
24	419m W	Incident Date: 30/07/2003 Incident Identification: 177877 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	436m S	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	436m S	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
K	436m S	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
L	441m NW	Incident Date: 21/04/2001 Incident Identification: 2992 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
L	441m NW	Incident Date: 21/04/2001 Incident Identification: 2992 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	449m S	Incident Date: 26/09/2001 Incident Identification: 33123 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
N	450m NW	Incident Date: 20/10/2001 Incident Identification: 37917 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
N	450m NW	Incident Date: 23/10/2001 Incident Identification: 38608 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	470m S	Incident Date: 19/04/2001 Incident Identification: 2774 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
O	475m W	Incident Date: 21/05/2003 Incident Identification: 159866 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	**12**

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

Features are displayed on the Current industrial land use map on **page 50 >**

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Trifluralin	0.001kg	0.00152kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Hydrochlorofluorocarbons (HCFCs)	1kg	2.05kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Chlorofluorocarbons (CFCs)	1kg	4.68kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Tributyltin and compounds - as TBT	0.005kg	0.00635kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon monoxide	100000kg	160000kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Endosulfan	0.0005kg	0.00072kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Isodrin	0.0005kg	0.00053kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Carbon dioxide	10000000kg	31100000kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Anthracene	0.1kg	0.21168kg
Wastewater	Benzo(g,h,i)perylene	0.1kg	0.21168kg
Wastewater	Fluoranthene	0.1kg	0.21168kg
Wastewater	Hexachlorobutadiene	0.1kg	0.21168kg
Wastewater	Hexachlorobenzene (HCB)	0.01kg	0.21168kg
Wastewater	Pentachlorophenol (PCP)	0.05kg	0.21168kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Mercury	0.1kg	Below Reporting Threshold
Air	Ethylene dichloride (1,2-Dichloroethane)	1000kg	Below Reporting Threshold
Wastewater	Dichloromethane (DCM) (Methylene chloride)	10kg	Below Reporting Threshold
Wastewater	Nickel	20kg	Below Reporting Threshold
Wastewater	Zinc	100kg	Below Reporting Threshold
Wastewater	Benzo(a)pyrene	1kg	Below Reporting Threshold
Wastewater	Benzo(b)fluoranthene	1kg	Below Reporting Threshold
Wastewater	Benzo(k)fluoranthene	1kg	Below Reporting Threshold
Air	Trichlorobenzene - all isomers	1kg	Below Reporting Threshold
Air	Sulphur oxides (SO2 and SO3) as SO2	100000kg	Below Reporting Threshold
Wastewater	Chlorides - as Cl	2000000kg	Below Reporting Threshold

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Cyanides - as CN	50kg	Below Reporting Threshold
Wastewater	Nitrogen - as total N	50000kg	Below Reporting Threshold
Wastewater	Organotin compounds - as Sn	5kg	Below Reporting Threshold
Wastewater	Chlorfenvinphos	0.1kg	Below Reporting Threshold
Wastewater	Heptachlor	0.1kg	Below Reporting Threshold
Wastewater	Vinyl chloride	1kg	Below Reporting Threshold
Wastewater	Triphenyltin and compounds - as TPT	0.1kg	Below Reporting Threshold
Wastewater	Aldrin	0.0005kg	Below Reporting Threshold
Air	Nitrogen oxides (NO and NO2) as NO2	100000kg	Below Reporting Threshold
Air	Tetrachloroethane (1,1,2,2-Tetrachloroethane)	10kg	Below Reporting Threshold
Air	Perfluorocarbons (PFCs)	10kg	Below Reporting Threshold
Air	Benzene	1000kg	Below Reporting Threshold
Air	Butadiene (1,3-Butadiene)	100kg	Below Reporting Threshold
Air	Trichloroethylene	1000kg	Below Reporting Threshold
Air	Tetrachloroethylene (PER)	100kg	Below Reporting Threshold
Air	Methyl chloroform (1,1,1-Trichloroethane)	10kg	Below Reporting Threshold
Wastewater	Atrazine	0.05kg	Below Reporting Threshold
Wastewater	Dichlorvos	0.0005kg	Below Reporting Threshold
Wastewater	Dieldrin	0.0005kg	Below Reporting Threshold
Air	Vinyl chloride	1000kg	Below Reporting Threshold
Wastewater	Arsenic	5kg	Below Reporting Threshold
Wastewater	Cadmium	1kg	Below Reporting Threshold
Wastewater	Chromium	20kg	Below Reporting Threshold
Wastewater	Copper	20kg	Below Reporting Threshold
Wastewater	Lead	20kg	Below Reporting Threshold
Wastewater	Chlorpyrifos	0.1kg	Below Reporting Threshold
Air	Chlorine and inorganic chlorine compounds - as HCl	10000kg	Below Reporting Threshold
Air	Non-methane volatile organic compounds (NMVOCs)	10000kg	Below Reporting Threshold

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Ethyl benzene	10kg	Below Reporting Threshold
Air	Dichloromethane (DCM) (Methylene chloride)	1000kg	Below Reporting Threshold
Air	Hexachlorocyclohexane (HCH) -all isomers	1kg	Below Reporting Threshold
Air	Carbon tetrachloride (Tetrachloromethane)	10kg	Below Reporting Threshold
Air	Particulate matter - PM10	1000kg	Below Reporting Threshold
Air	Hydrofluorocarbons (HFCs)	100kg	Below Reporting Threshold
Air	Benzo(a)pyrene	1kg	Below Reporting Threshold
Air	Chloroform (Trichloromethane)	100kg	Below Reporting Threshold
Wastewater	Naphthalene	1kg	Below Reporting Threshold
Wastewater	Simazine	0.01kg	Below Reporting Threshold
Wastewater	Benzene	10kg	Below Reporting Threshold
Wastewater	Carbon tetrachloride (Tetrachloromethane)	1kg	Below Reporting Threshold
Wastewater	Chloroform (Trichloromethane)	5kg	Below Reporting Threshold
Wastewater	Ethylene dichloride (1,2-Dichloroethane)	10kg	Below Reporting Threshold
Wastewater	Toluene	10kg	Below Reporting Threshold
Wastewater	Xylene - all isomers	10kg	Below Reporting Threshold

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Air	Methane	10000kg	229000kg

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector Landfill, Sub-sector: Non Hazardous Landfill

Releases:

Route	Substance	Reporting threshold (kg)	Quantity (kg)
Wastewater	Endrin	0.0005kg	0.00055kg

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

4.20 Pollution inventory waste transfers

Records within 500m	**1**

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

Features are displayed on the Current industrial land use map on **page 50 >**

ID: J, Location: 434m NW, Permit: BU9068IM
Operator: Viridor Waste Management Limited
Activity: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE
Address: Pilsworth North Landfill Site Pilsworth Road Lancashire BL9 8QZ
Sector: Landfill, Sub-sector: Non Hazardous Landfill
Releases:

Route	Route description	Quantity (tonnes)	Release level	EWC code	EWC description	Hazardous waste
R9	Oil e-refining or other reuses of oil	52.8	absolute value	13 02 05	mineral-based non-chlorinated engine, gear and lubricating oils	Yes
R9	Oil e-refining or other reuses of oil	0.66	absolute value	15 02 02	absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances	Yes

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

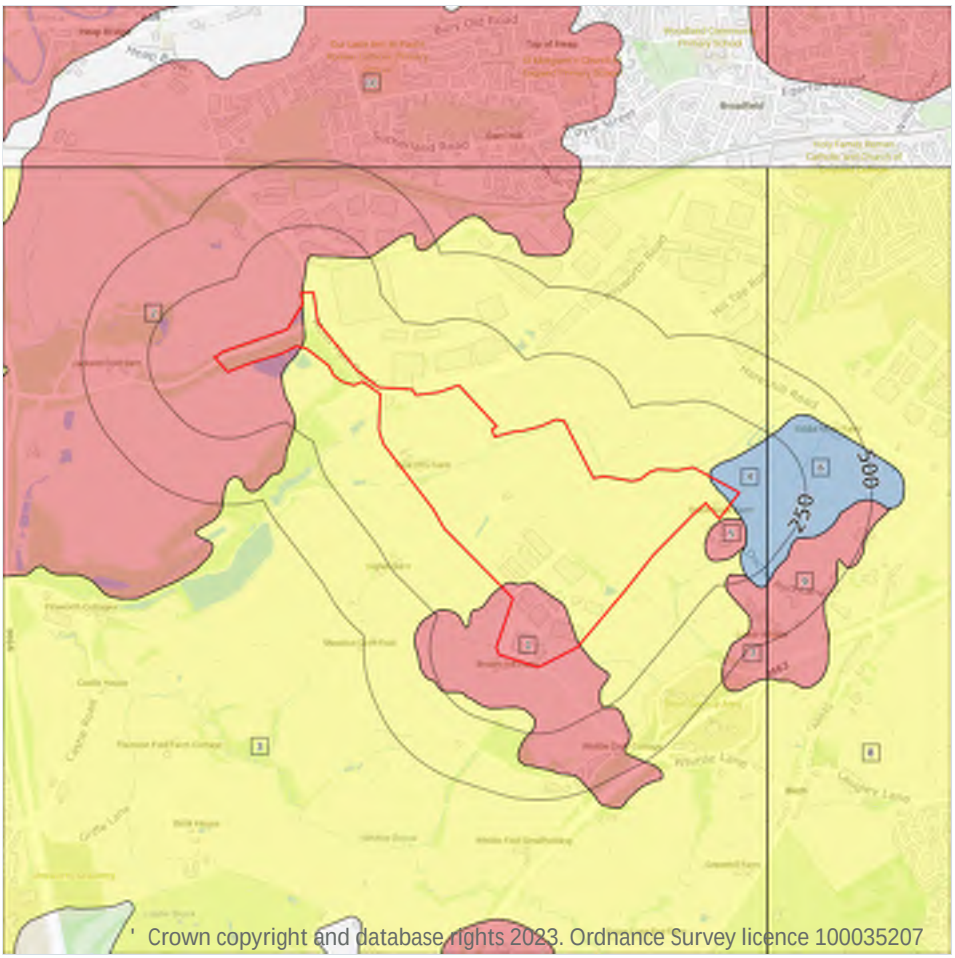
4.21 Pollution inventory radioactive waste

Records within 500m	**0**

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	10

Aquifer status of groundwater held within superficial geology.

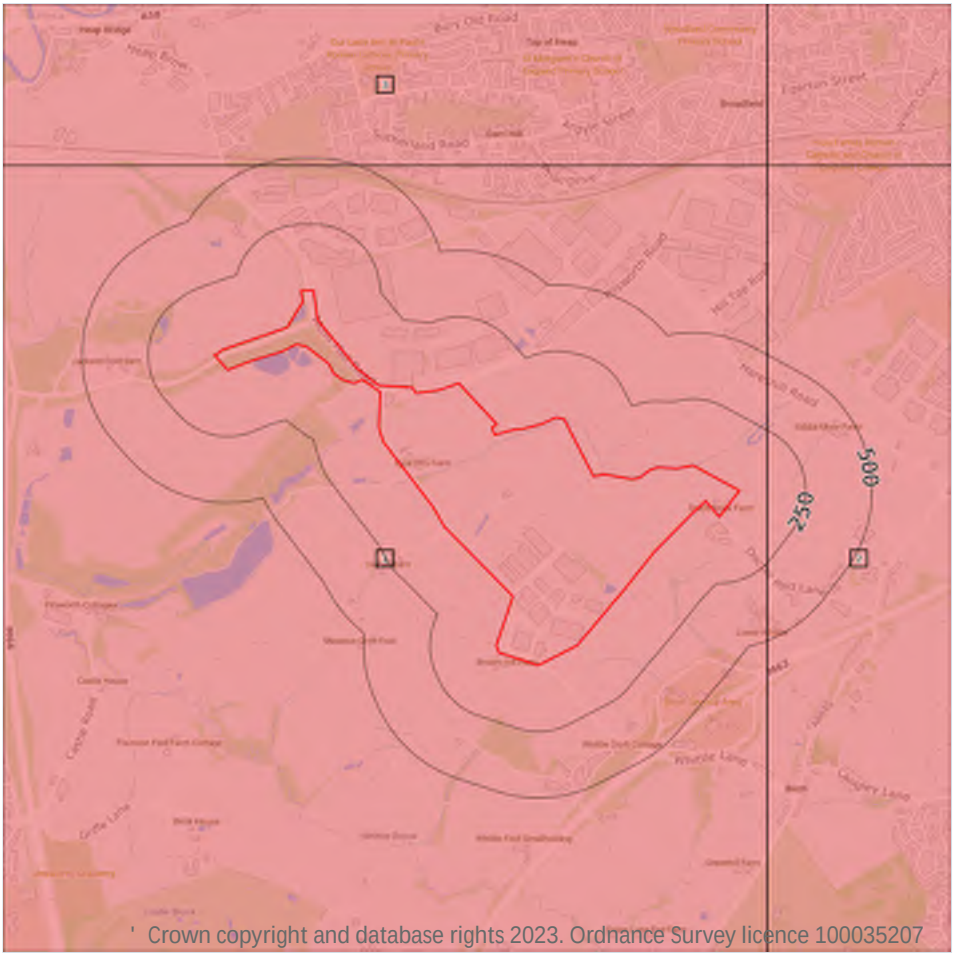
Features are displayed on the Hydrogeology map on **page 71 >**

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	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

ID	Location	Designation	Description
3	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
4	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
5	10m 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
6	105m E	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
7	214m 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
8	231m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
9	275m 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
10	472m NW	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	3

Aquifer status of groundwater held within bedrock geology.

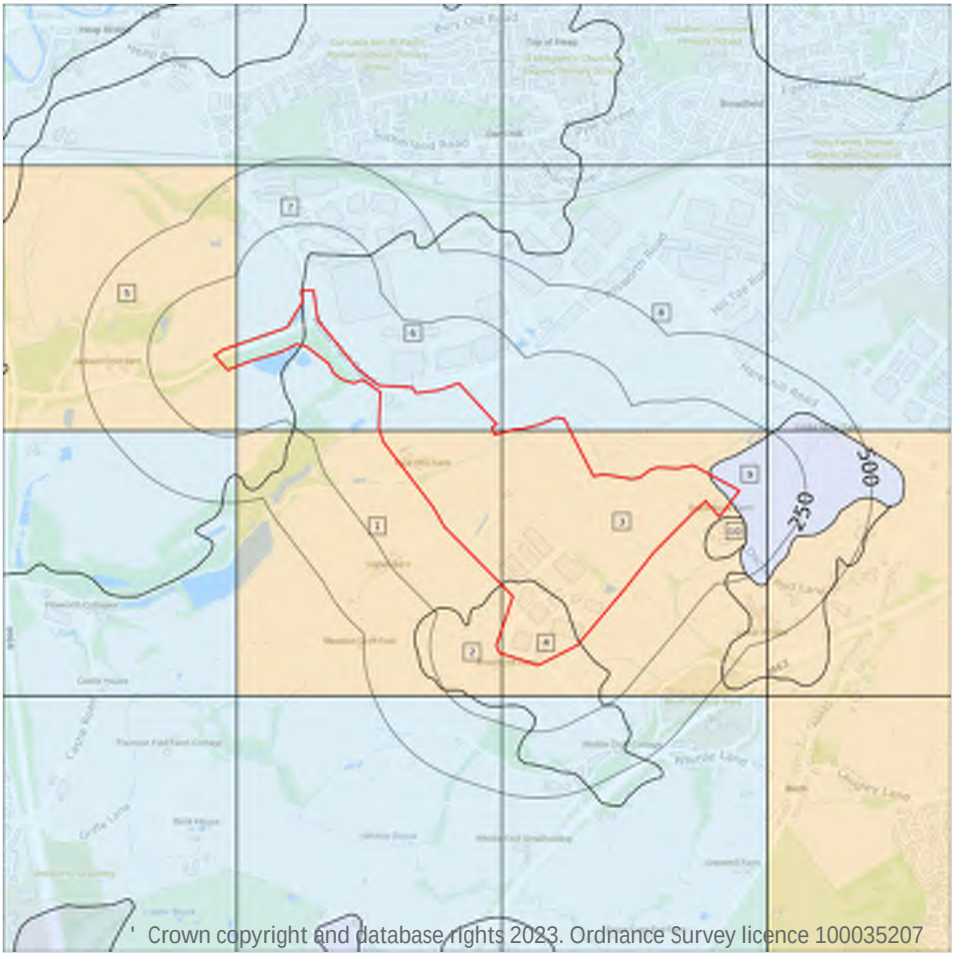
Features are displayed on the Bedrock aquifer map on **page 73 >**

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	105m 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

ID	Location	Designation	Description
3	472m NW	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



Site Outline

Search buffers in metres (m)

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

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

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	10

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 75 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	**On site**	**Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year**	**Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
8	**On site**	**Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer**	**Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year**	**Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
9	**On site**	**Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer**	**Leaching class: High Infiltration value: >70% Dilution value: >550mm/year**	**Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low**	**Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures**
10	9m E	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

5.5 Groundwater vulnerability- local information

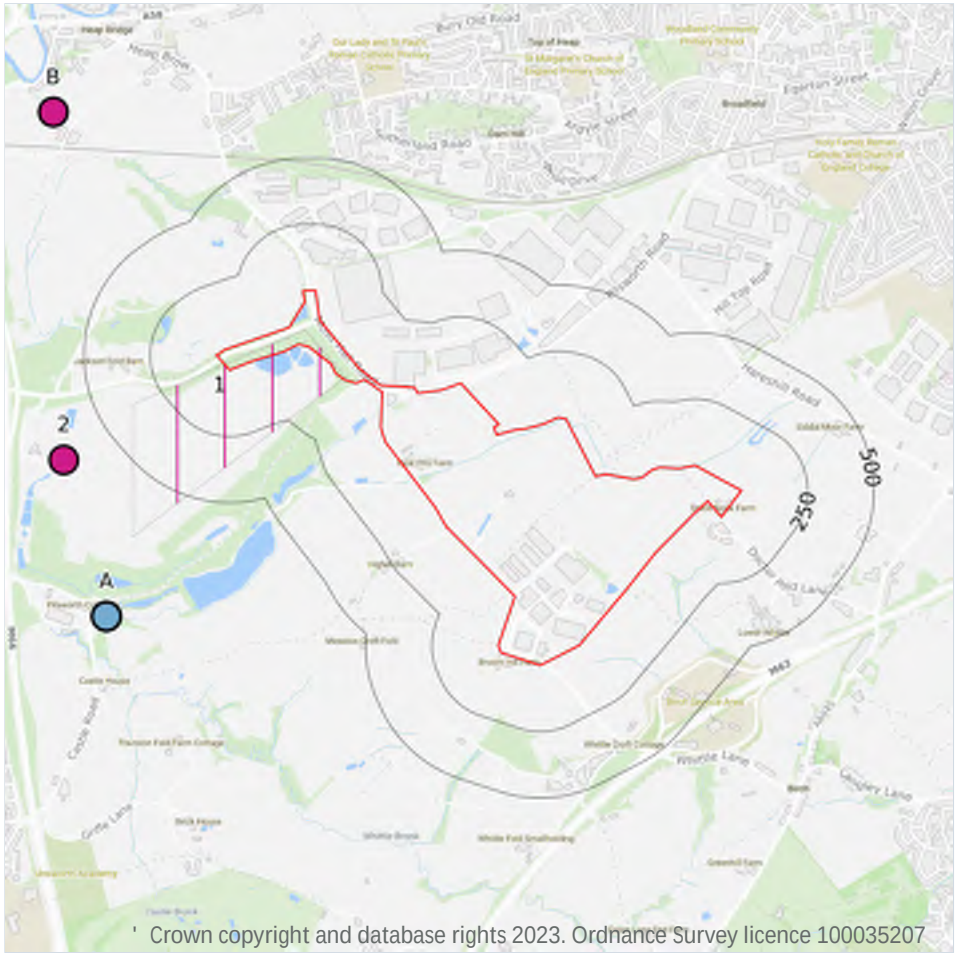
Records on site	0

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

email on enquiries@environment-agency.gov.uk .

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	22

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 79 >**

ID	Location	Details	
1	**On site**	**Status: Active** **Licence No: NW/069/0002/013** **Details: Dewatering** **Direct Source: Ground Water - North West Region** **Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY** **Data Type: Poly4** **Name: Viridor Waste Management Ltd** **Easting: 383250** **Northing: 409380**	**Annual Volume (m^3): -** **Max Daily Volume (m^3): -** **Original Application No: NPS/NA/001648** **Original Start Date: 31/03/2021** **Expiry Date: 31/03/2027** **Issue No: 1** **Version Start Date: 31/03/2021** **Version End Date: -**
2	698m W	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
B	1103m NW	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE" Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
B	1103m NW	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -

ID	Location	Details	
-	1157m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SIDDALL FOLD FARM,BIRCH" Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1157m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM,BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1157m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM, BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1191m NW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATER FARM, HEAP BRIDGE, BURY" Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
-	1191m NW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATER FARM, HEAP BRIDGE, BURY Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -

ID	Location	Details	
-	1226m NW	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATERFOLD FARM, HEAP BRIDGE,NEAR BURY" Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1226m NW	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATERFOLD FARM, HEAP BRIDGE,NEAR BURY Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1359m NW	Status: Active Licence No: NW/069/0002/010 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE - NORTHERN MANCHESTER CARBONIFEROUS AQUIFERS Data Type: Point Name: Access Utilities Limited Easting: 382983 Northing: 410861	Annual Volume (m^3): 62400 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 19/09/2018 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 19/09/2018 Version End Date: -
-	1367m W	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

ID	Location	Details	
-	1367m W	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1793m SW	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1793m SW	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1793m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -

ID	Location	Details	
-	1793m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1793m SW	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1793m SW	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1825m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -

ID	Location	Details	
-	1825m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m **7**

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 79 >**

ID	Location	Details	
A	1039m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	1039m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -

ID	Location	Details	
A	1039m W	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	1039m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
A	1039m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
A	1039m W	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

ID	Location	Details	
-	1340m NW	Status: Historical Licence No: NW/069/0002/002 Details: Hydroelectric Power Generation Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEAP BRIDGE WEIR Data Type: Point Name: Brother Investments Ltd Easting: 382536 Northing: 410666	Annual Volume (m^3): 76032000 Max Daily Volume (m^3): 345600 Original Application No: - Original Start Date: 17/09/2010 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 18/09/2015 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m **2**

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 79 >**

ID	Location	Details	
-	1367m W	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1367m W	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

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

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

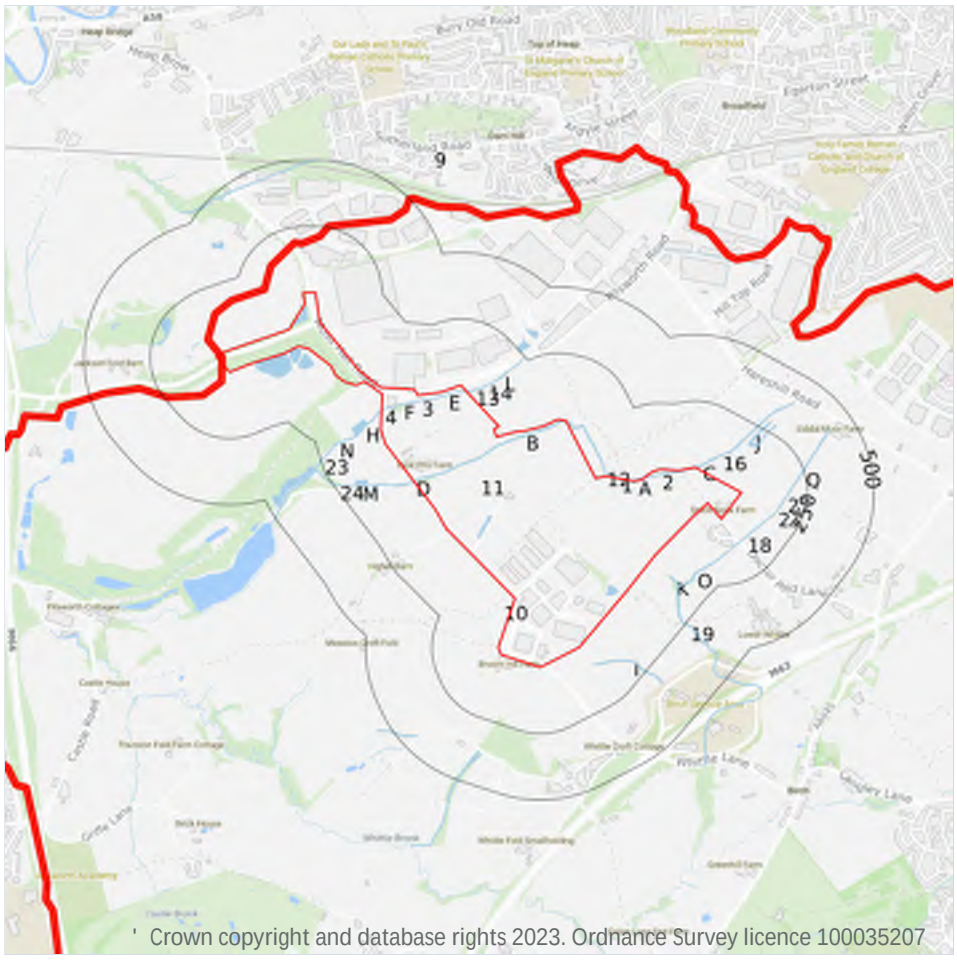
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	38

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 89 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**Inland river not influenced by normal tidal action.**	**Not provided**	**Watercourse contains water year round (in normal circumstances)**	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	**On site**	**Inland river not influenced by normal tidal action.**	**Not provided**	**Watercourse contains water year round (in normal circumstances)**	**-**
3	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Brightley Brook**
4	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**Brightley Brook**
A	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
B	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
C	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**-**
D	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	**-**
E	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Brightley Brook**
F	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Brightley Brook**
H	4m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
12	10m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	18m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
13	22m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Brightley Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
14	26m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
D	46m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	48m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	67m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
16	83m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
I	85m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	88m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	94m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	95m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
18	110m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	119m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
N	139m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
19	140m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
O	140m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	141m W	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
21	150m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	151m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	159m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
L	179m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
23	197m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
24	200m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	202m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	238m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
L	242m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	23

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 89 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	2

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

Features are displayed on the Hydrology map on **page 89 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
9	**On site**	**River**	**Roch (Spodden to Irwell)**	**GB112069064600**	**Roch Irk Medlock**	**Irwell**
10	**On site**	**River**	**Whittle Brook (Irwell)**	**GB112069061250**	**Roch Irk Medlock**	**Irwell**

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

6.4 WFD Surface water bodies

Records identified	2

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

Features are displayed on the Hydrology map on **page 89 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	793m S	River	Whittle Brook (Irwell)	GB112069061250	Moderate	Fail	Moderate	2019
-	1167m NW	River	Roch (Spodden to Irwell)	GB112069064600	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	**1**

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

Features are displayed on the Hydrology map on **page 89 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
11	**On site**	**Northern Manchester Carboniferous Aquifers**	**GB41202G101800** !	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

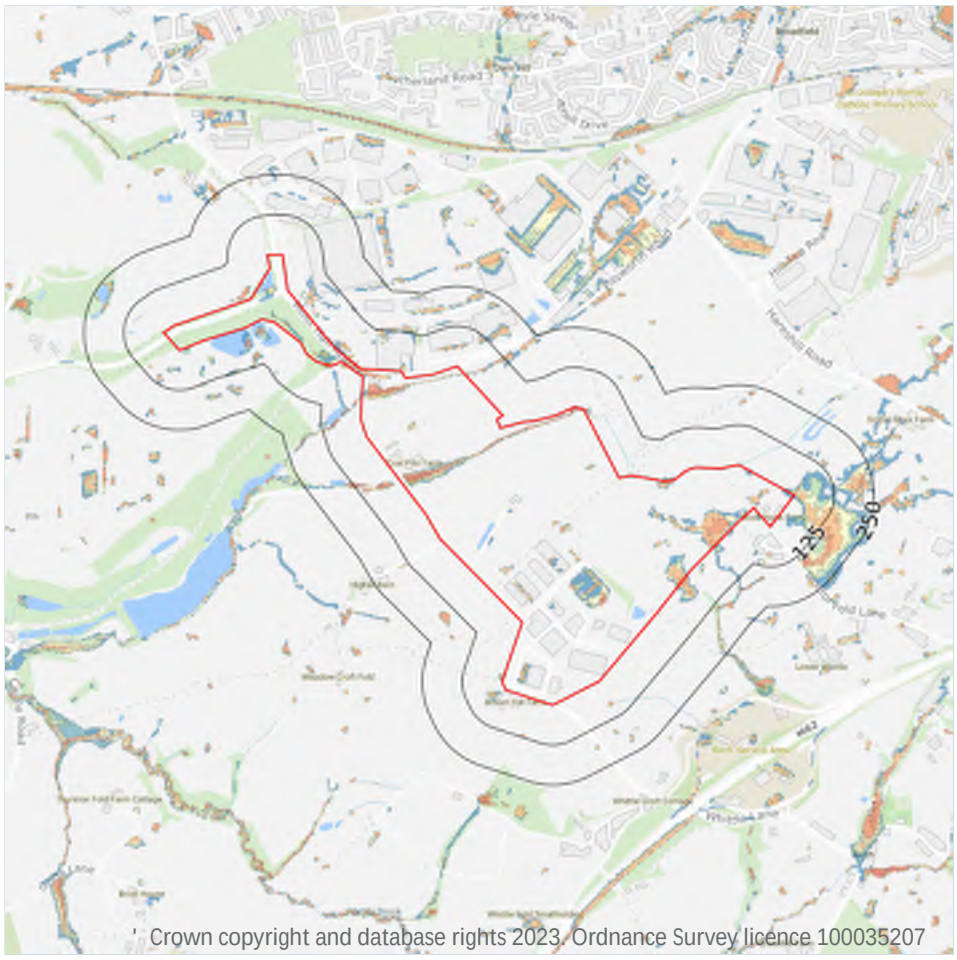
7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 1.0m**
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 98 >**

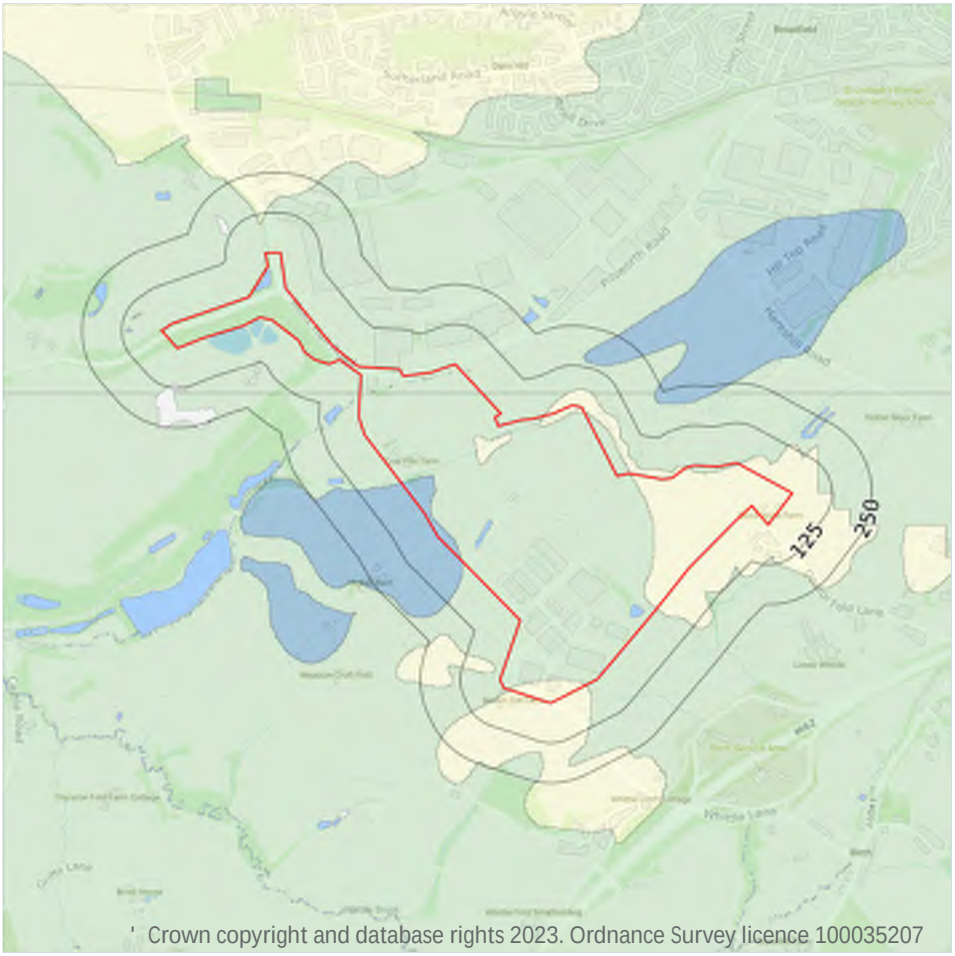
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

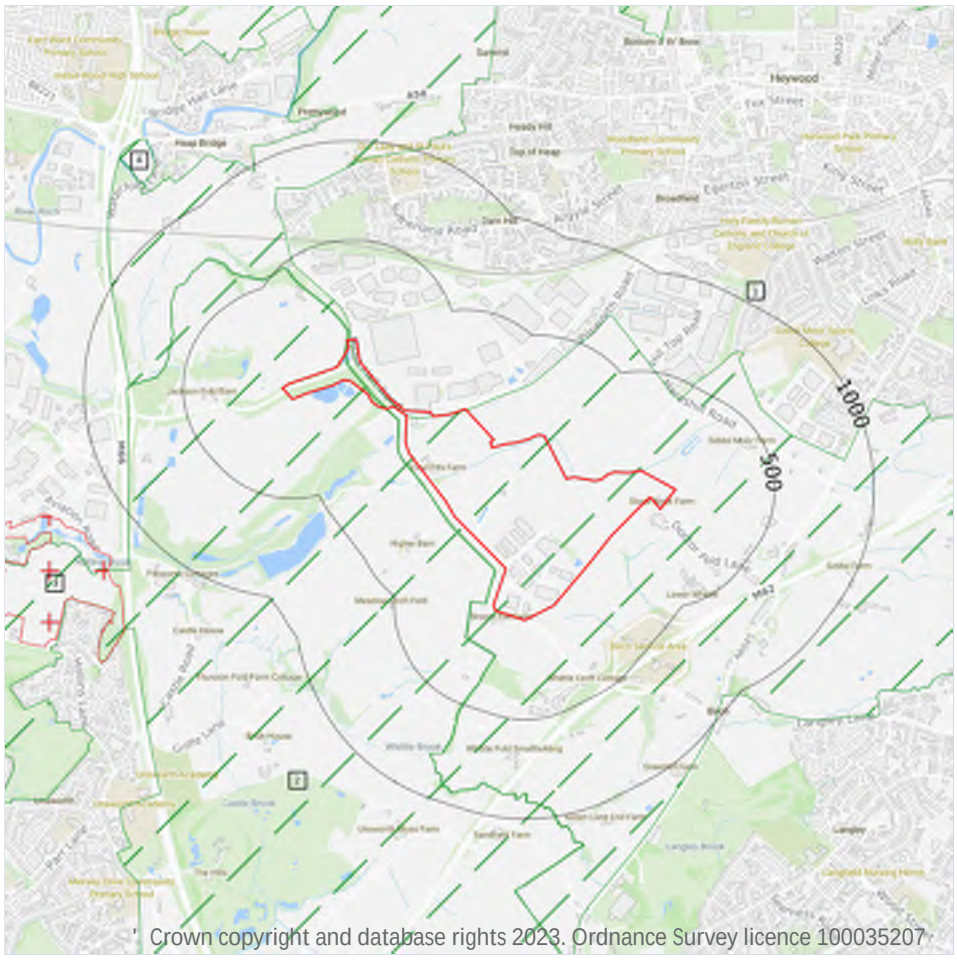
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 100 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 101 >**

ID	Location	Name	Data source
3	1207m W	Hollins Vale	Natural England
-	1921m E	Hopwood Woodlands	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	4

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

Features are displayed on the Environmental designations map on **page 101 >**

ID	Location	Name	Local Authority name
1	**On site**	**Merseyside and Greater Manchester**	**Rochdale**
2	**On site**	**Merseyside and Greater Manchester**	**Bury**
4	1248m NW	Merseyside and Greater Manchester	Bury
5	1520m NW	Merseyside and Greater Manchester	Bury

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

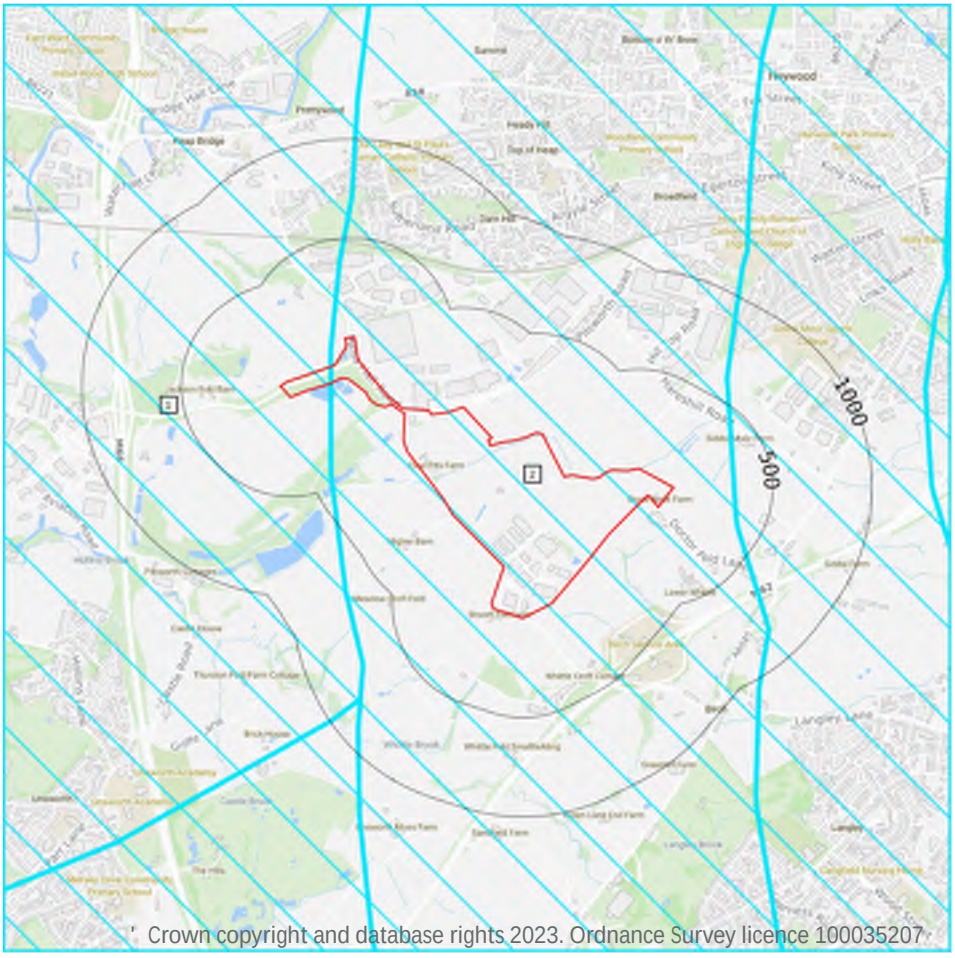
Records within 2000m	2

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
1921m E	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1986m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	2

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 106 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". 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.**

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**0**

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

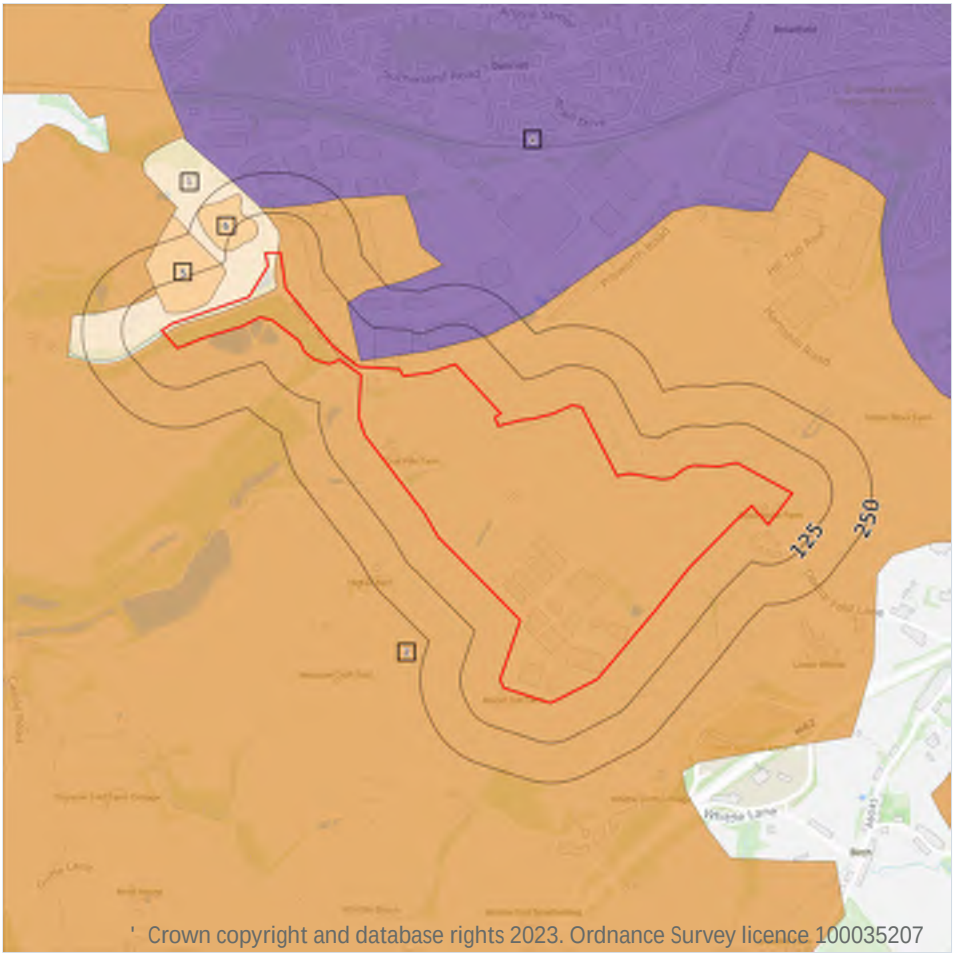
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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	5

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	Grade 3b	**Moderate quality agricultural land. Land capable of producing moderate yields of a narrow range of crops, principally cereals and grass or lower yields of a wider range of crops or high yields of grass which can be grazed or harvested over most of the year.**

ID	Location	Classification	Description
2	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
4	19m NW	Urban	-
5	19m NW	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.
6	59m NW	Grade 3a	Good quality agricultural land. Land capable of consistently producing moderate to high yields of a narrow range of arable crops, especially cereals, or moderate yields of a wide range of crops including cereals, grass, oilseed rape, potatoes, sugar beet and the less demanding horticultural crops.

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

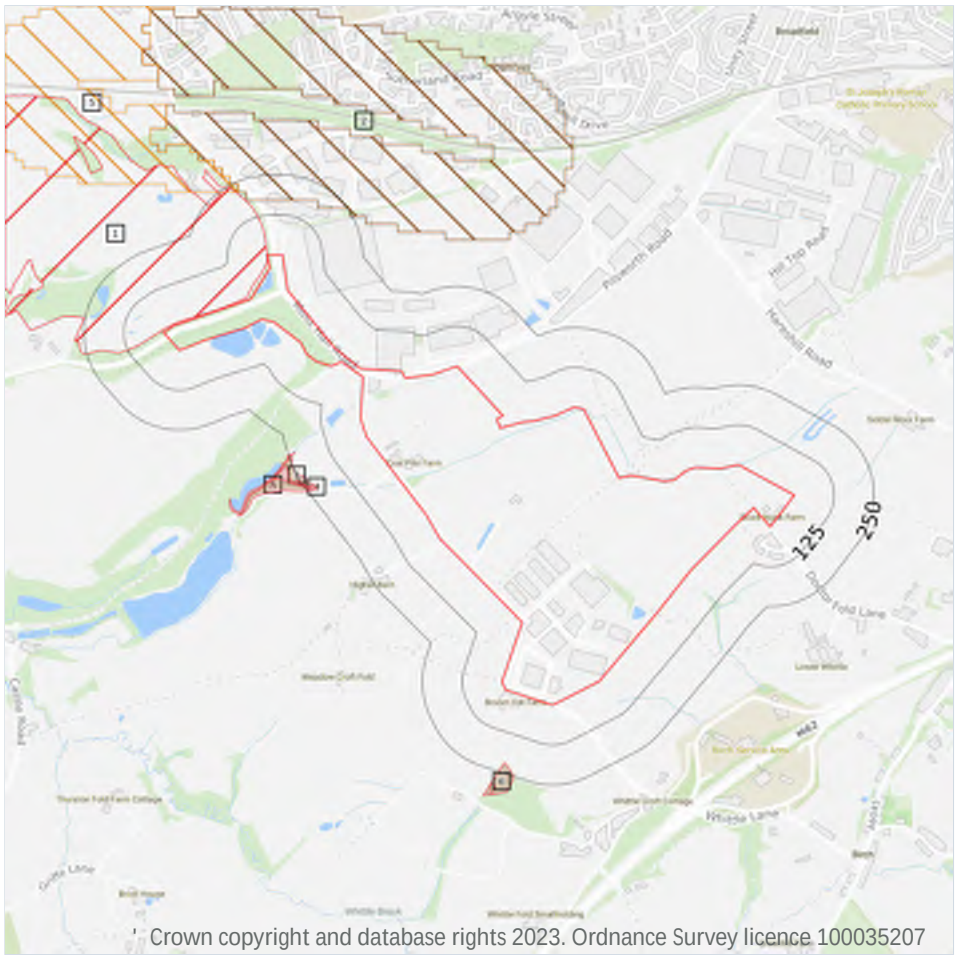
Records within 250m	**1**

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.

Location	Reference	Scheme	Start Date	End Date
On site	**643906**	**Countryside Stewardship (Middle Tier)**	**01/01/2019**	**31/12/2023**

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	5

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 113 >**

ID	Location	Main Habitat	Other habitats
3	216m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	217m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	219m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	221m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
A	234m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**2**

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.

Features are displayed on the Habitat designations map on **page 113 >**

ID	Location	Type	Habitat
2	172m NW	Network Enhancement Zone 2	Not specified
5	219m NW	Network Enhancement Zone 1	Not specified

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 113 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	1m NW	BRITPITS ref: 396	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

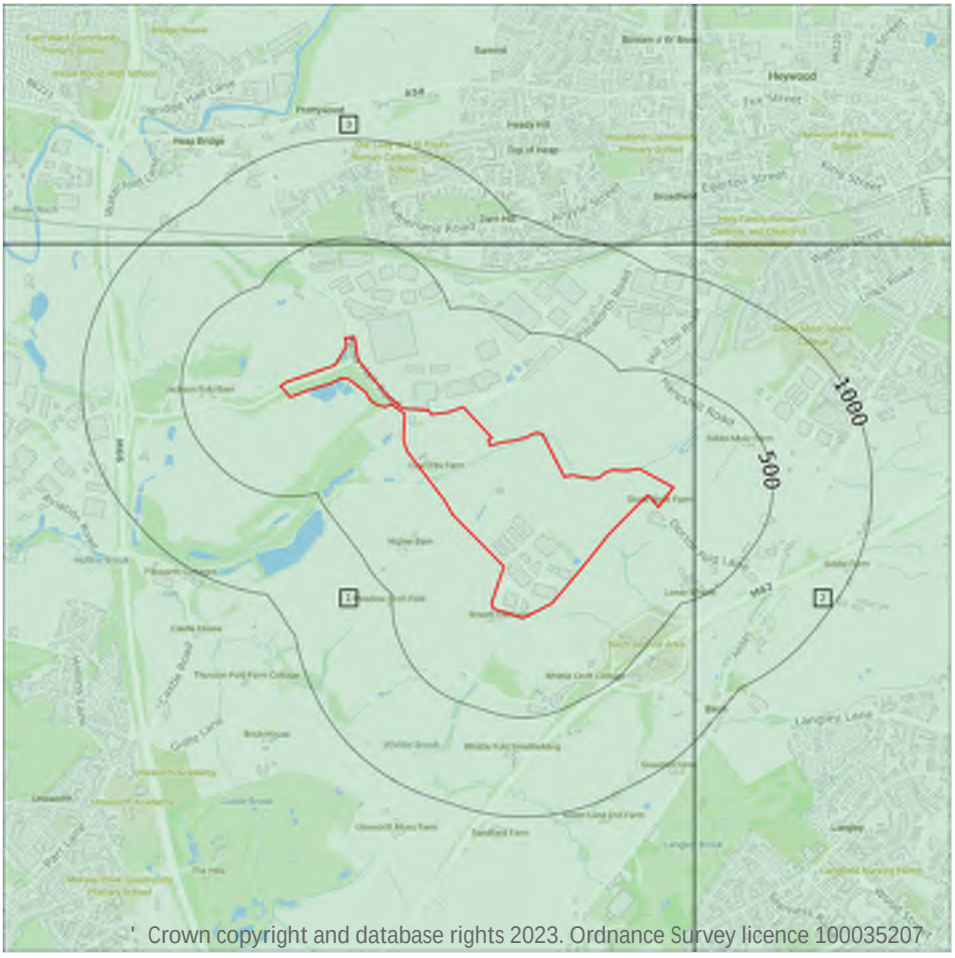
13.4 Limestone Pavement Orders

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	3

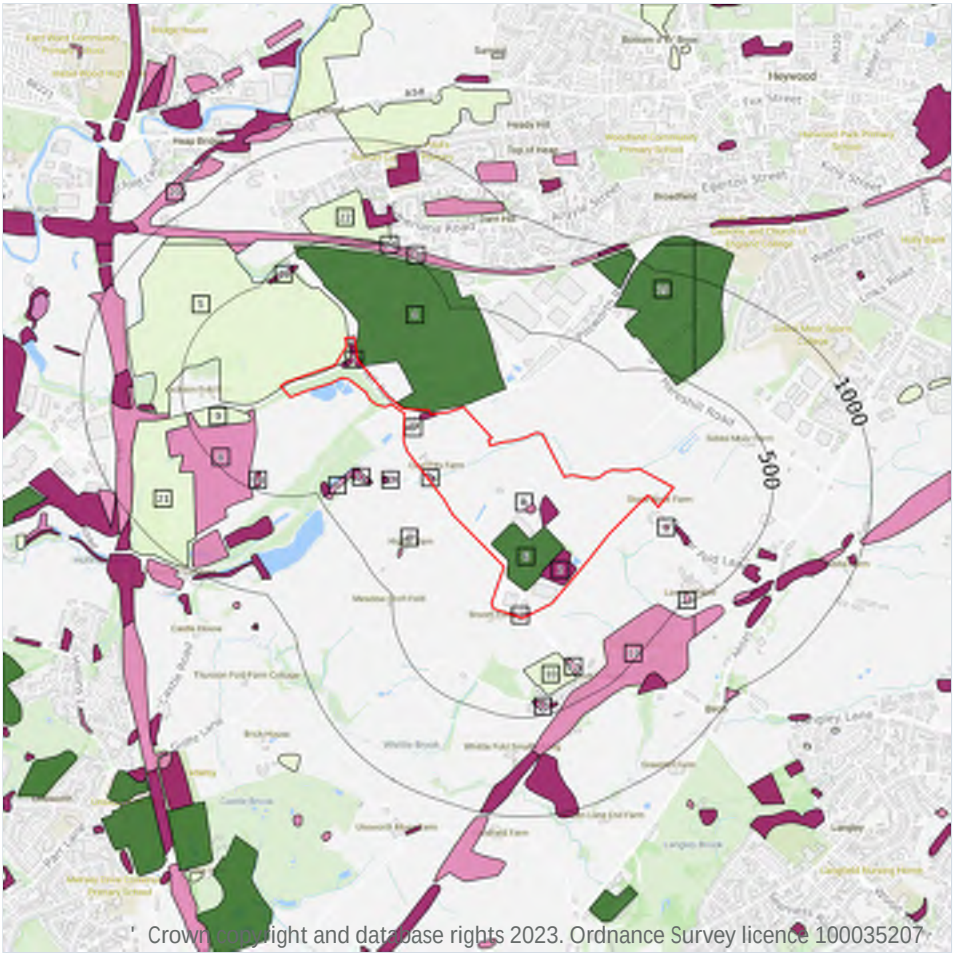
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 116 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SD80NW**
2	105m E	Full	Full	Full	Full	SD80NE
3	472m NW	Full	Full	Full	Full	SD81SW

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	36

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 117 >**

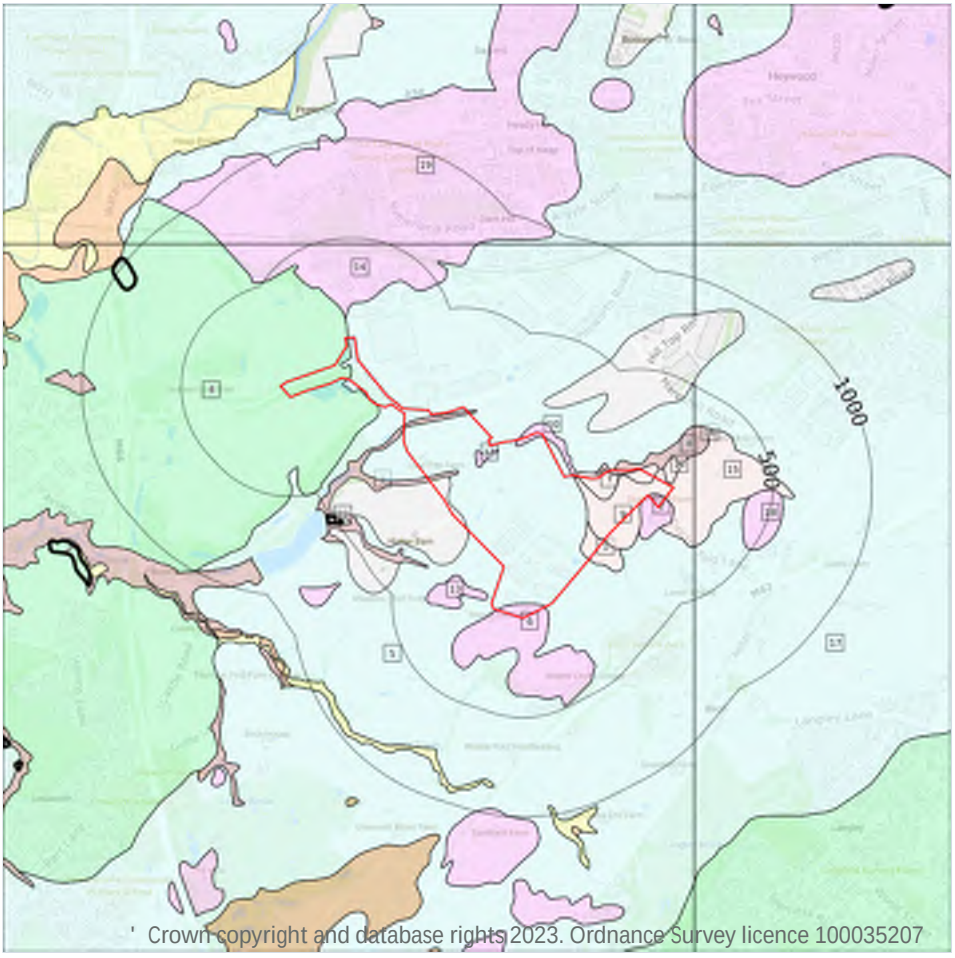
ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	WGR-VOID	Worked Ground (Undivided)	Void
4	On site	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	**On site**	**WMGR-ARTDP**	**Infilled Ground**	**Artificial Deposit**
6	**On site**	**LSGR-ARTDP**	**Landscaped Ground (Undivided)**	**Artificial Deposit**
7	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
A	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
A	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
B	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
B	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
C	96m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
D	125m W	WGR-VOID	Worked Ground (Undivided)	Void
C	130m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
D	165m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	176m W	WGR-VOID	Worked Ground (Undivided)	Void
9	215m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
E	223m SW	WGR-VOID	Worked Ground (Undivided)	Void
10	228m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
11	232m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
F	266m W	WGR-VOID	Worked Ground (Undivided)	Void
12	289m S	WGR-VOID	Worked Ground (Undivided)	Void
E	307m SW	WGR-VOID	Worked Ground (Undivided)	Void
13	321m SE	WGR-VOID	Worked Ground (Undivided)	Void
14	409m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	417m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
16	425m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
F	434m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
17	451m SE	WGR-VOID	Worked Ground (Undivided)	Void
18	452m NW	WGR-VOID	Worked Ground (Undivided)	Void
19	462m NE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
20	472m NW	WGR-VOID	Worked Ground (Undivided)	Void
21	490m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
22	491m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
23	498m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	19

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 120 >**

ID	Location	LEX Code	Description	Rock description
1	On site	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
2	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	On site	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	**On site**	**HMGDD-DMTN**	**Hummocky (moundy) Glacial Deposits, Devensian - Diamicton**	**Diamicton**
5	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
6	**On site**	**GFICD-XSV**	**Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
7	**On site**	**GLLDD-S**	**Glaciolacustrine Deposits, Devensian - Sand**	**Sand**
8	**On site**	**HEAD-XCZSV**	**Head - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
9	**On site**	**GLLDD-XCZ**	**Glaciolacustrine Deposits, Devensian - Clay And Silt**	**Clay And Silt**
10	**On site**	**GFSDD-XSV**	**Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
11	**On site**	**GFSDD-XSV**	**Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
12	8m E	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
13	27m S	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
14	97m NW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
15	105m E	GLLDD-XCZ	Glaciolacustrine Deposits, Devensian - Clay And Silt	Clay And Silt
16	192m E	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
17	269m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
18	371m E	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
19	472m NW	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**1**

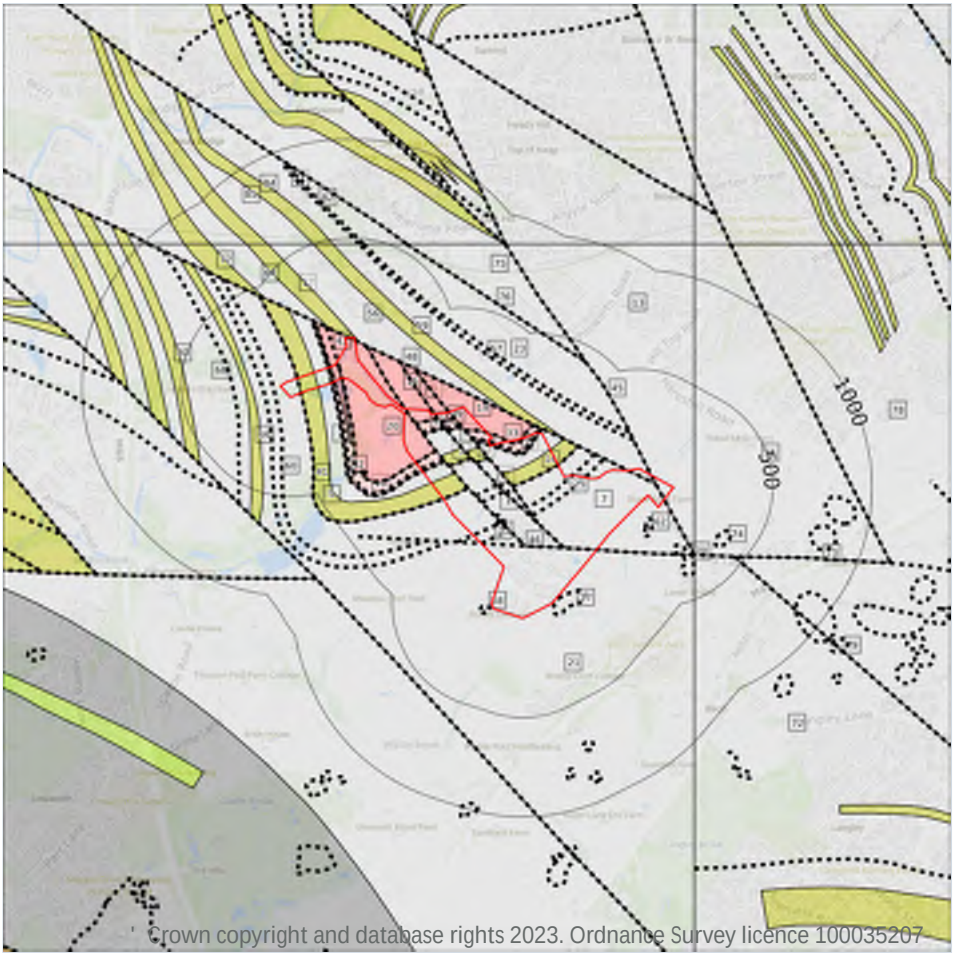
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 120 >**

ID	Location	LEX Code	Description	Rock description
20	475m W	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	37

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 123 >**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
3	On site	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
4	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
5	On site	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
6	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
8	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	On site	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
10	On site	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
11	On site	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
12	On site	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
13	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
14	On site	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
15	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	On site	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
17	On site	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
18	On site	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
19	On site	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
20	On site	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
21	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	On site	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
23	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
56	4m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
59	23m NE	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
64	94m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
65	105m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
66	142m W	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
68	177m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
72	299m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
75	424m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
77	435m NW	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
78	457m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
80	464m W	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
81	472m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
84	478m NW	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
85	500m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **48**

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 123 >**

ID	Location	Category	Description
24	**On site**	**ROCK**	**Coal seam, inferred coincident with bedrock geology boundary**
25	**On site**	**ROCK**	**Coal seam, inferred**

ID	Location	Category	Description
26	On site	ROCK	Coal seam, inferred
27	On site	ROCK	Coal seam, inferred
28	On site	ROCK	Coal seam, inferred
29	On site	ROCK	Coal seam, inferred
30	On site	ROCK	Coal seam, inferred
31	On site	ROCK	Coal seam, inferred
32	On site	ROCK	Coal seam, inferred
33	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
34	On site	ROCK	Coal seam, inferred
35	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
36	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
37	On site	ROCK	Coal seam, inferred
38	On site	ROCK	Coal seam, inferred
39	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
40	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
41	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
42	On site	ROCK	Coal seam, inferred
43	On site	ROCK	Coal seam, inferred
44	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
45	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
46	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
47	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
48	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
49	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
50	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
51	On site	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
52	On site	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
53	On site	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary

ID	Location	Category	Description
54	**On site**	**FOSSIL_HORIZON**	**Fossil horizon, marine band coincident with bedrock geology boundary**
55	**On site**	**LANDFORM**	**Kettle hole; closed hollow**
57	9m SE	LANDFORM	Drumlin, form-line at base of mound
58	18m S	LANDFORM	Kettle hole; closed hollow
60	38m NW	ROCK	Coal seam, inferred
61	48m NW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
62	72m E	LANDFORM	Drumlin, form-line at base of mound
63	89m NW	ROCK	Coal seam, inferred
67	146m NE	FOSSIL_HORIZON	Fossil horizon, marine band
69	190m NE	ROCK	Coal seam, inferred
70	212m E	LANDFORM	Drumlin, form-line at base of mound
71	236m W	FOSSIL_HORIZON	Fossil horizon, marine band
73	299m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
74	326m E	LANDFORM	Drumlin, form-line at base of mound
76	424m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
79	457m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
82	472m NW	FOSSIL_HORIZON	Fossil horizon, marine band
83	474m NW	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

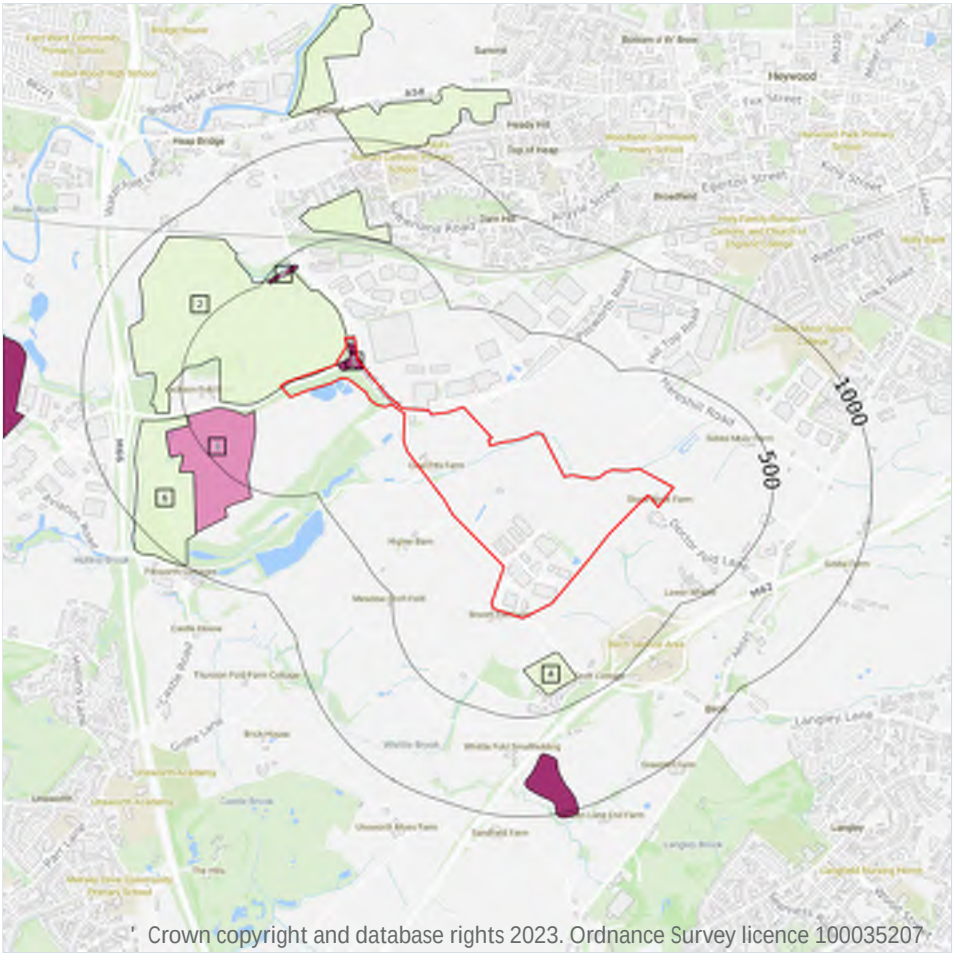
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 128 >**

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

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m **6**

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 129 >**

ID	Location	LEX Code	Description	Rock description
1	**On site**	**MGR-ARTDP**	**MADE GROUND (UNDIVIDED)**	**ARTIFICIAL DEPOSIT**
2	**On site**	**WMGR-ARTDP**	**INFILLED GROUND**	**ARTIFICIAL DEPOSIT**
3	182m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
4	227m S	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	425m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
6	491m W	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

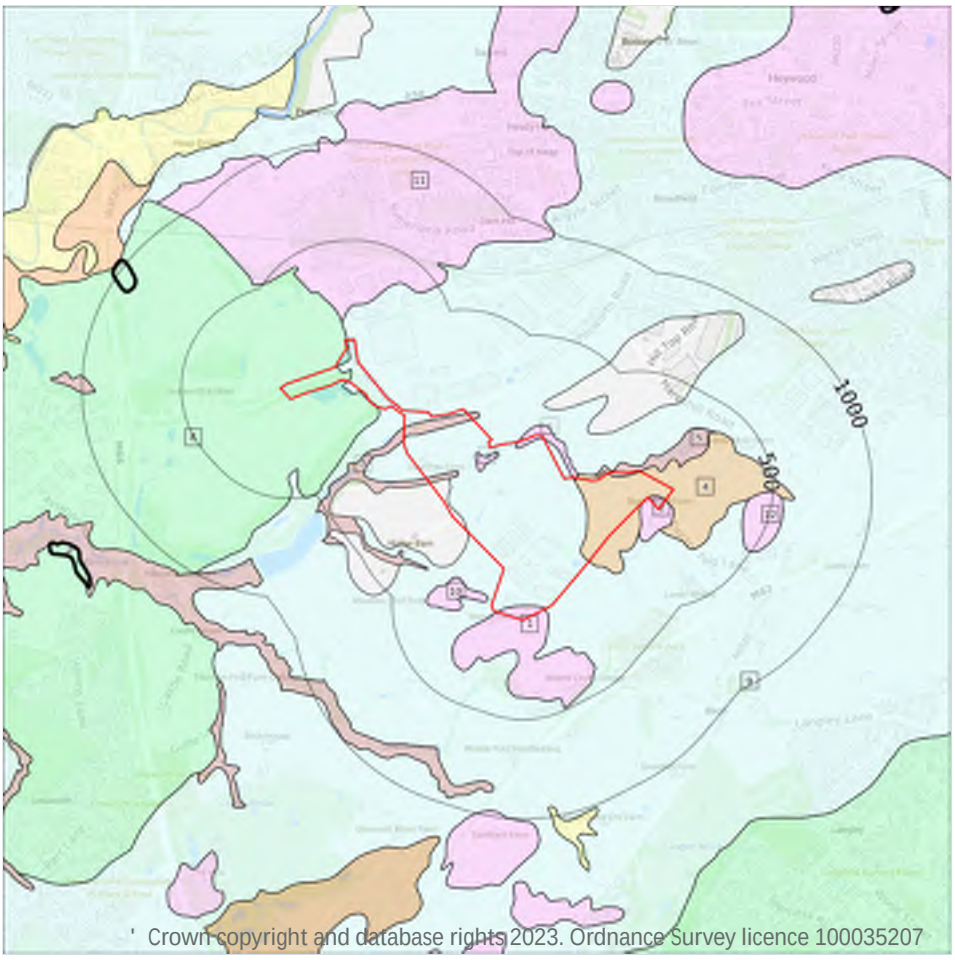
Records within 50m	**2**

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

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	12

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 131 >**

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	On site	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
4	On site	LDE-XSV	LACUSTRINE DEPOSITS	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
6	**On site**	**GFSDD-XSV**	**GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN**	**SAND AND GRAVEL**
7	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
8	**On site**	**HMGDD-DMTN**	**HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN**	**DIAMICTON**
9	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
10	27m S	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
11	90m NW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
12	371m E	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **10**

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**High**
On site	**Intergranular**	**Very High**	**High**
27m S	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	32

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 134 >**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	On site	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	On site	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
5	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	On site	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
7	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	On site	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
11	On site	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
12	On site	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
13	On site	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
14	On site	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
15	On site	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
16	On site	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
17	On site	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
18	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	On site	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
20	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
21	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
22	On site	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
23	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
47	4m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
48	24m NE	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
51	93m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
52	142m W	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN
54	176m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
56	424m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
58	435m NW	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
59	458m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
61	465m W	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **11**

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**
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**High**	**Moderate**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**High**	**Moderate**
On site	**Fracture**	**High**	**Moderate**
On site	**Fracture**	**High**	**Moderate**
4m NW	Fracture	Moderate	Low
24m NE	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**29**

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.

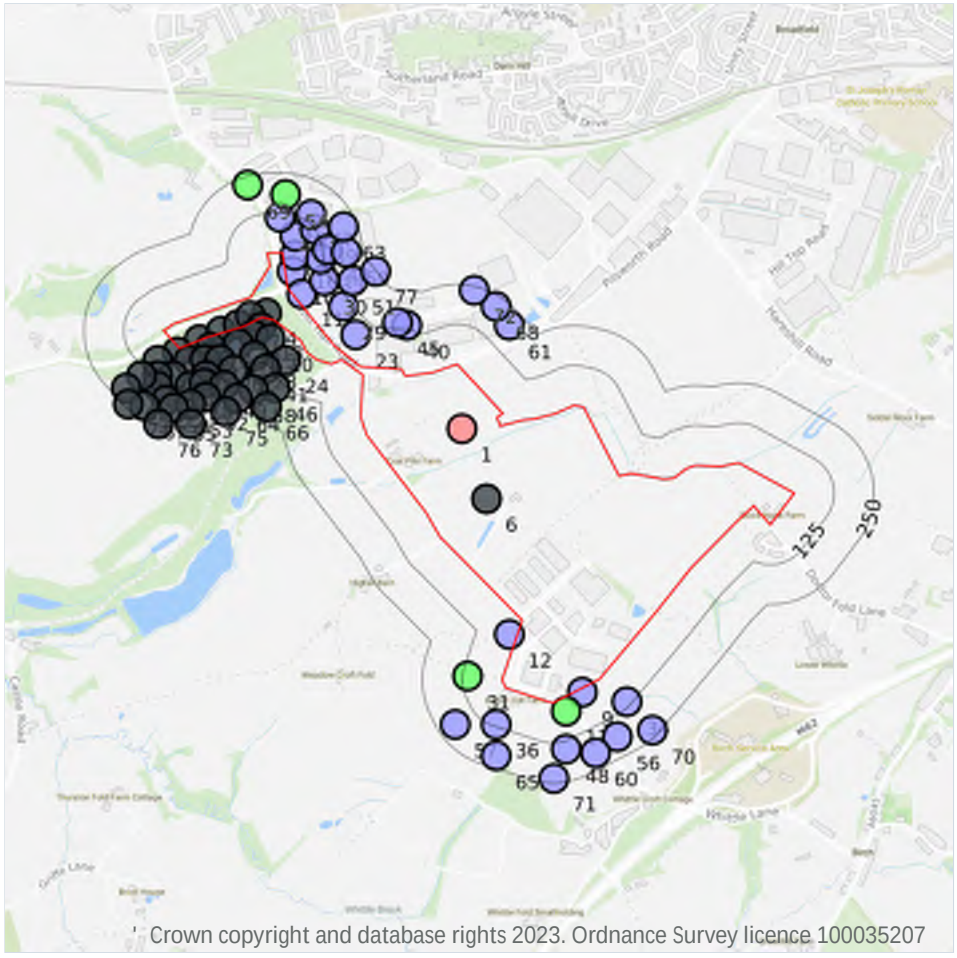
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 134 >**

ID	Location	Category	Description
24	**On site**	**FAULT**	**Fault, inferred**
25	**On site**	**FAULT**	**Fault, inferred**
26	**On site**	**FAULT**	**Fault, inferred**
27	**On site**	**FAULT**	**Fault, inferred**
28	**On site**	**FAULT**	**Fault, inferred**
29	**On site**	**FAULT**	**Fault, inferred**
30	**On site**	**ROCK**	**Coal seam, inferred**
31	**On site**	**ROCK**	**Coal seam, inferred**
32	**On site**	**ROCK**	**Coal seam, inferred**
33	**On site**	**ROCK**	**Coal seam, inferred**
34	**On site**	**ROCK**	**Coal seam, inferred**
35	**On site**	**ROCK**	**Coal seam, inferred**
36	**On site**	**ROCK**	**Coal seam, inferred**
37	**On site**	**ROCK**	**Coal seam, inferred**
38	**On site**	**ROCK**	**Coal seam, inferred**
39	**On site**	**FOSSIL_HORIZON**	**Marine band**
40	**On site**	**FOSSIL_HORIZON**	**Marine band**
41	**On site**	**FOSSIL_HORIZON**	**Marine band**
42	**On site**	**FOSSIL_HORIZON**	**Marine band**
43	**On site**	**ROCK**	**Coal seam, inferred**
44	**On site**	**ROCK**	**Coal seam, inferred**

ID	Location	Category	Description
45	**On site**	**ROCK**	**Coal seam, inferred**
46	**On site**	**ROCK**	**Coal seam, inferred**
49	49m NW	ROCK	Coal seam, inferred
50	89m NW	ROCK	Coal seam, inferred
53	146m NE	FOSSIL_HORIZON	Marine band
55	236m W	FOSSIL_HORIZON	Marine band
57	424m NE	FAULT	Fault, inferred
60	458m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



16.1 BGS Boreholes

Records within 250m	79

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 139 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	383851 408976	HEYWOOD 1	1616.0	N	27339 !
2	On site	383028 409255	PILSWORTH EAST EXTENSION 03/18	-	Y	N/A

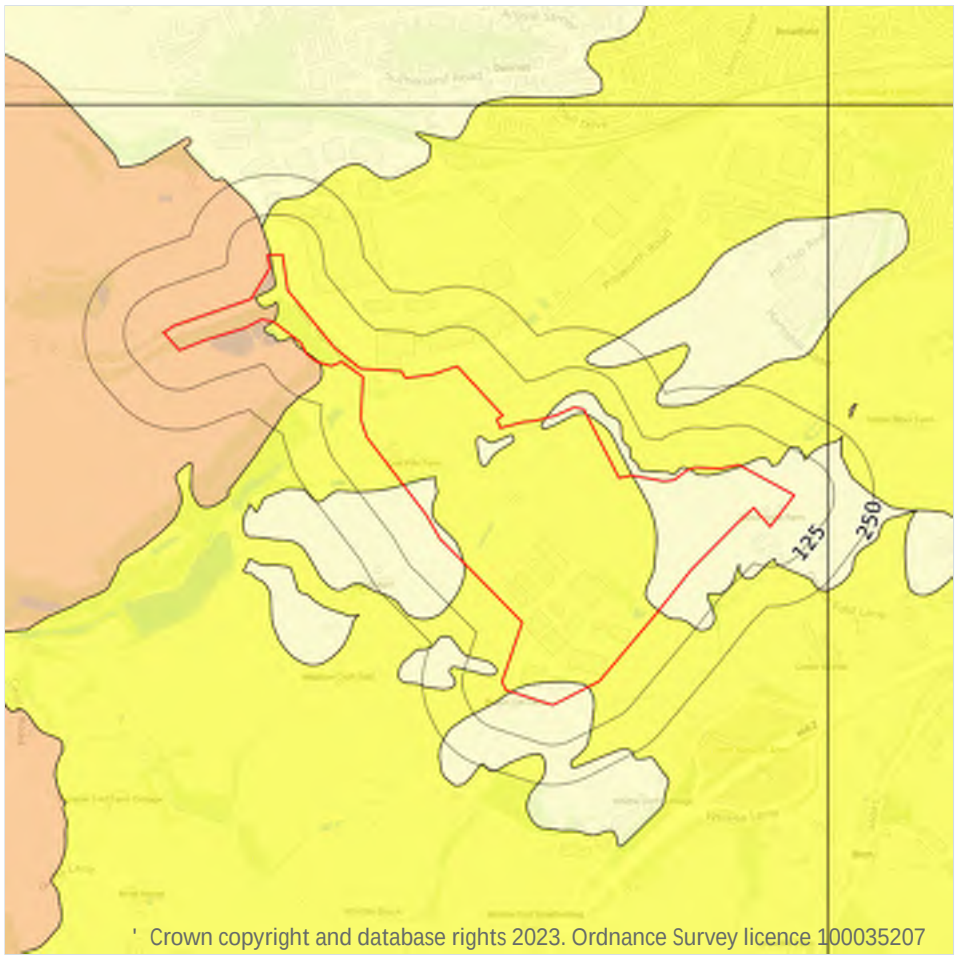
ID	Location	Grid reference	Name	Length	Confidential	Web link
3	**On site**	**383098 409284**	**PILSWORTH EAST EXTENSION 03/25A**	**-**	**Y**	**N/A**
4	**On site**	**383239 409339**	**PILSWORTH EAST EXTENSION 03/38**	**-**	**Y**	**N/A**
5	**On site**	**383149 409303**	**PILSWORTH EAST EXTENSION 03/25**	**-**	**Y**	**N/A**
6	**On site**	**383929 408758**	**PILSWORTH EAST EXTENSION 03/44A**	**-**	**Y**	**N/A**
7	**On site**	**383188 409330**	**PILSWORTH EAST EXTENSION 03/26**	**-**	**Y**	**N/A**
8	12m NW	382961 409218	PILSWORTH EAST EXTENSION 03/11	-	Y	N/A
9	12m S	384230 408150	BROOM HILL FARM 14	8.5	N	27357
10	22m NW	383320 409470	MOSSHILL RD HEYWOOD B	5.18	N	27389
11	24m NW	383350 409400	MOSSHILL RD HEYWOOD C	5.18	N	27390
12	25m S	384000 408330	BROOM HILL FARM 1	9.0	N	27344
13	25m NW	383221 409296	PILSWORTH EAST EXTENSION 03/33A	-	Y	N/A
14	33m NW	383063 409231	PILSWORTH EAST EXTENSION 03/19	-	Y	N/A
15	37m NW	383199 409272	PILSWORTH EAST EXTENSION 03/32	-	Y	N/A
16	39m NW	383330 409520	MOSSHILL RD HEYWOOD 2	5.49	N	27387
17	43m S	384180 408090	BROOM HILL FARM 5	10.5	N	27348
18	46m NW	382997 409192	PILSWORTH EAST EXTENSION 03/17	-	Y	N/A
19	47m NW	383150 409243	PILSWORTH EAST EXTENSION 03/27	-	Y	N/A
20	53m NW	383251 409260	PILSWORTH EAST EXTENSION 03/33	-	Y	N/A
21	62m NW	383047 409195	PILSWORTH EAST EXTENSION 03/24A	-	Y	N/A
22	66m NW	383330 409580	MOSSHILL RD HEYWOOD A	5.33	N	27388
23	68m NW	383520 409270	MOSSHILL RD HEYWOOD 7	5.49	N	27408
24	70m NW	383300 409191	PILSWORTH EAST EXTENSION 03/36	-	Y	N/A
25	77m W	382896 409192	PILSWORTH EAST EXTENSION 03/10	-	Y	N/A
26	77m NW	383095 409195	PILSWORTH EAST EXTENSION 03/24	-	Y	N/A
27	88m W	382946 409143	PILSWORTH EAST EXTENSION 03/12	-	Y	N/A
28	97m NW	383200 409206	PILSWORTH EAST EXTENSION 03/31	-	Y	N/A
29	99m NW	383480 409360	MOSSHILL RD HEYWOOD D	4.57	N	27391
30	103m NW	383420 409440	MOSSHILL RD HEYWOOD 1	6.4	N	27402

ID	Location	Grid reference	Name	Length	Confidential	Web link
31	109m S	383870 408200	BROOM HILL FARM 3	17.0	N	27346
32	110m W	382897 409143	PILSWORTH EAST EXTENSION 03/12A	-	Y	N/A
A	110m W	383048 409143	PILSWORTH EAST EXTENSION 03/20	-	Y	N/A
33	112m NW	383280 409640	HEYWOOD 28	9.0	N	13953542
34	112m SE	384370 408120	BROOM HILL FARM 15	5.5	N	27358
35	117m NW	383410 409510	MOSSHILL RD HEYWOOD E	5.18	N	27392
36	117m S	383960 408050	BROOM HILL FARM 6	9.8	N	27349
37	122m NW	383135 409160	PILSWORTH EAST EXTENSION 03/28	-	Y	N/A
38	123m W	382998 409110	PILSWORTH EAST EXTENSION 03/16	-	Y	N/A
39	123m NW	383390 409600	MOSSHILL RD HEYWOOD F	5.79	N	27393
A	130m W	383044 409120	PILSWORTH EAST EXTENSION 03/21A	-	Y	N/A
40	138m NW	383680 409300	HEYWOOD 58B	9.0	N	13953662
41	138m NW	383237 409163	PILSWORTH EAST EXTENSION 03/34	-	Y	N/A
42	139m W	382896 409109	PILSWORTH EAST EXTENSION 03/9	-	Y	N/A
43	141m NW	383430 409540	MOSSHILL RD HEYWOOD 1	5.49	N	27386
44	145m W	382848 409144	PILSWORTH EAST EXTENSION 03/4	-	Y	N/A
45	146m NW	383650 409310	HEYWOOD 58	9.0	N	13953658
46	150m NW	383266 409104	PILSWORTH EAST EXTENSION 03/35	-	Y	N/A
47	152m NW	383380 409650	HEYWOOD 29	10.0	N	13953546
48	152m S	384180 407970	BROOM HILL FARM 13	8.5	N	27356
49	158m W	383106 409114	PILSWORTH EAST EXTENSION 03/23	-	Y	N/A
50	168m W	382925 409066	PILSWORTH EAST EXTENSION 03/13A	-	Y	N/A
51	173m NW	383510 409440	MOSSHILL RD HEYWOOD J	7.01	N	27396
52	173m W	383048 409075	PILSWORTH EAST EXTENSION 03/21	-	Y	N/A
53	178m W	383000 409054	PILSWORTH EAST EXTENSION 03/23A	-	Y	N/A
54	182m NW	383300 409710	HEYWOOD 27	10.5	N	13953537

ID	Location	Grid reference	Name	Length	Confidential	Web link
55	187m W	382948 409043	PILSWORTH EAST EXTENSION 03/13	-	Y	N/A
56	187m S	384340 408010	BROOM HILL FARM 16	6.0	N	27359
57	196m S	383830 408050	BROOM HILL FARM 7	9.0	N	27350
58	199m W	383198 409099	PILSWORTH EAST EXTENSION 03/30	-	Y	N/A
59	199m NW	383490 409530	MOSSHILL RD HEYWOOD H	4.88	N	27395
60	199m S	384270 407960	BROOM HILL FARM 12	6.2	N	27355
61	202m N	384000 409300	HEYWOOD 9	9.0	N	13952703
62	207m W	382799 409105	PILSWORTH EAST EXTENSION 03/3	-	Y	N/A
63	207m NW	383480 409610	MOSSHILL RD HEYWOOD G	6.71	N	27394
64	210m W	383147 409072	PILSWORTH EAST EXTENSION 03/29	-	Y	N/A
65	212m S	383960 407950	BROOM HILL FARM 10	5.5	N	27353
66	213m W	383238 409046	PILSWORTH EAST EXTENSION 03/37	-	Y	N/A
67	213m W	382855 409047	PILSWORTH EAST EXTENSION 03/5	-	Y	N/A
68	219m N	383960 409360	HEYWOOD 10	9.0	N	13952704
69	222m NW	383180 409740	HEYWOOD 25	10.5	N	13952719
70	232m SE	384450 408030	BROOM HILL FARM 17	6.0	N	27360
71	236m S	384140 407880	BROOM HILL FARM 11	6.2	N	27354
72	237m N	383890 409410	HEYWOOD 18	9.0	N	13952712
73	238m W	383000 408993	PILSWORTH EAST EXTENSION 03/15	-	Y	N/A
74	238m W	382805 409053	PILSWORTH EAST EXTENSION 03/5A	-	Y	N/A
75	239m W	383111 409029	PILSWORTH EAST EXTENSION 03/29A	-	Y	N/A
76	246m W	382899 408992	PILSWORTH EAST EXTENSION 03/8	-	Y	N/A
77	246m NW	383580 409470	MOSSHILL RD HEYWOOD 2	6.1	N	27403

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	4

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).

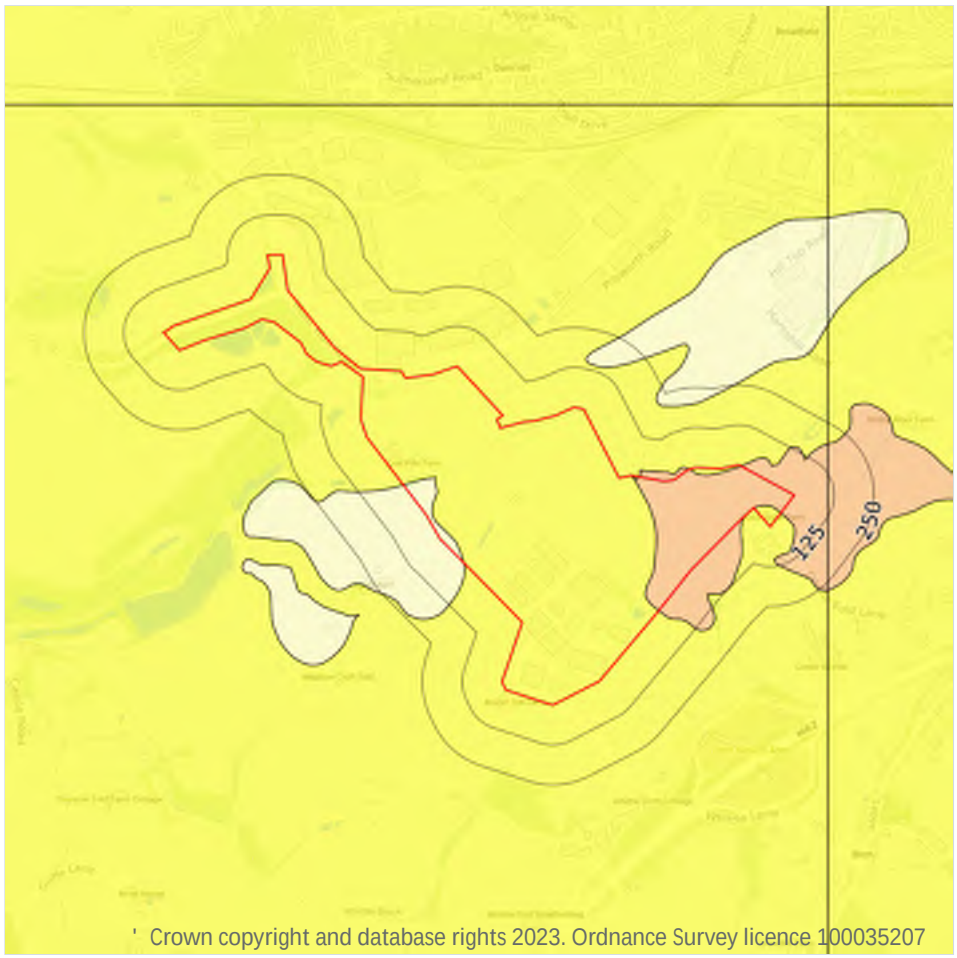
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 143 >**

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

Location	Hazard rating	Details
27m S	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	3

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

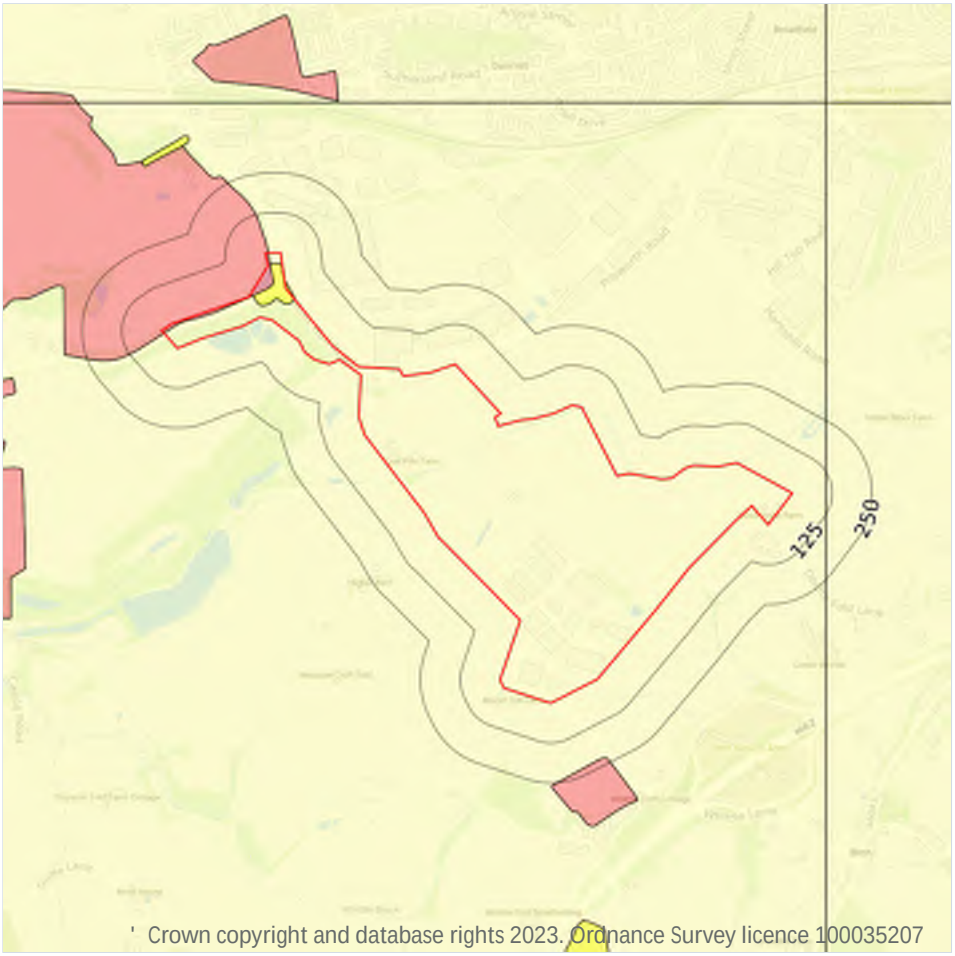
Features are displayed on the Natural ground subsidence - Running sands map on **page 145 >**

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
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**
On site	**Low**	**Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	3

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

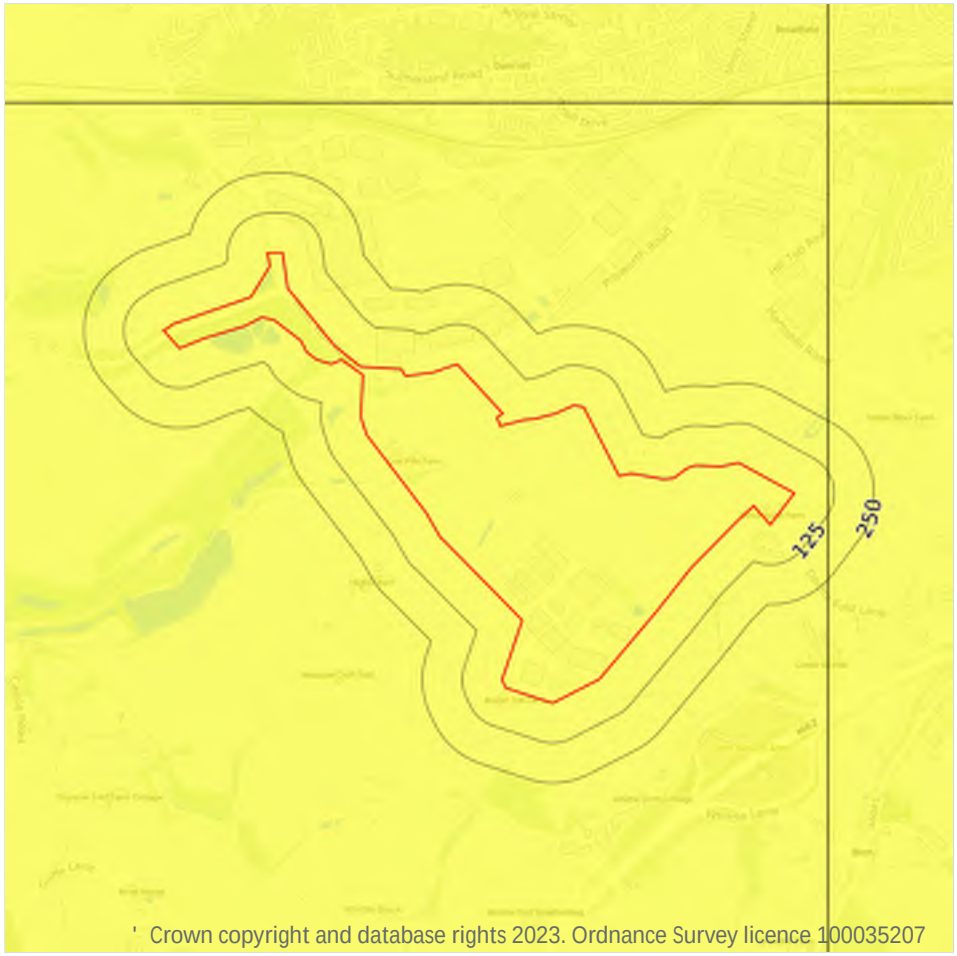
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 147 >**

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

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

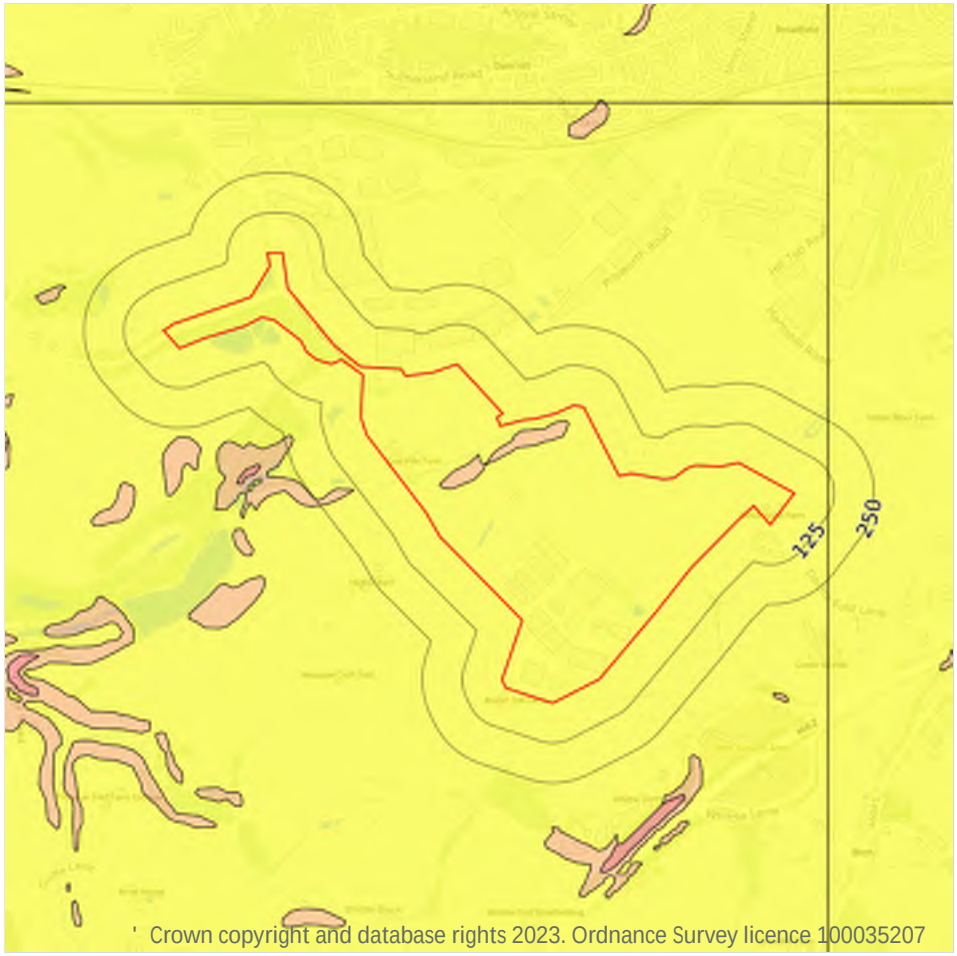
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 149 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	2

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.

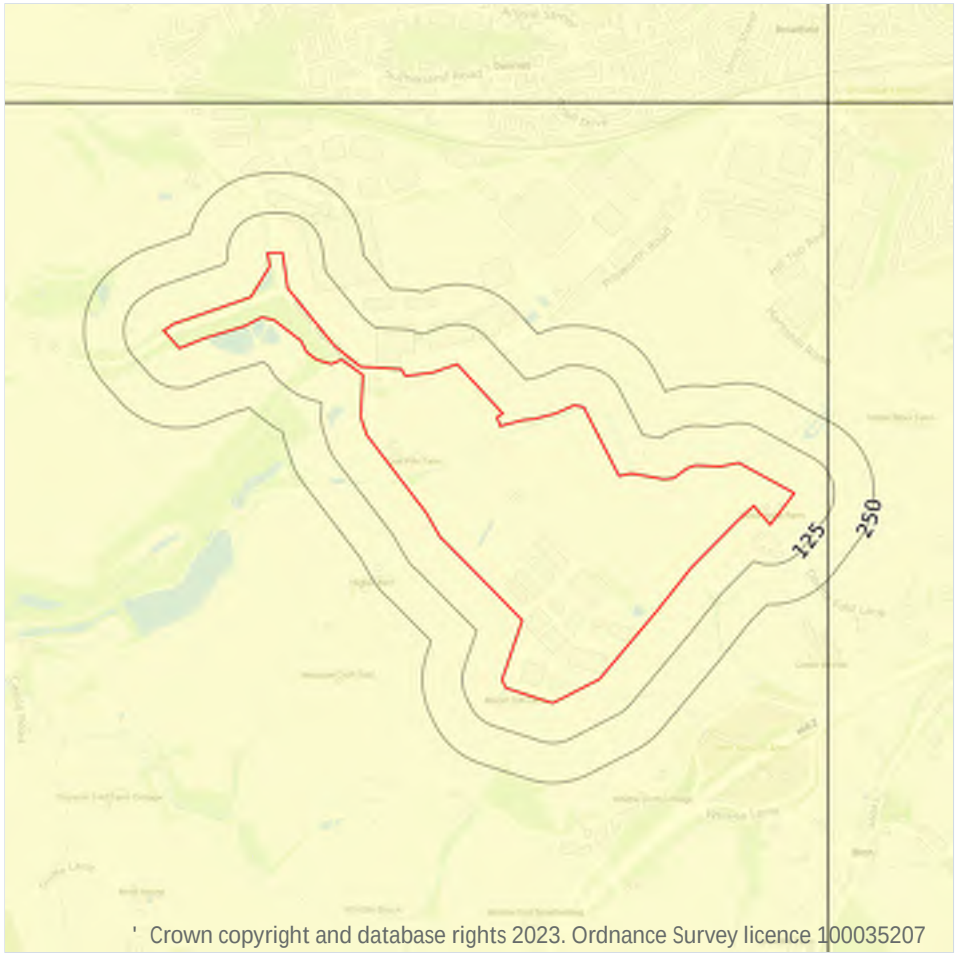
Features are displayed on the Natural ground subsidence - Landslides map on **page 150 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

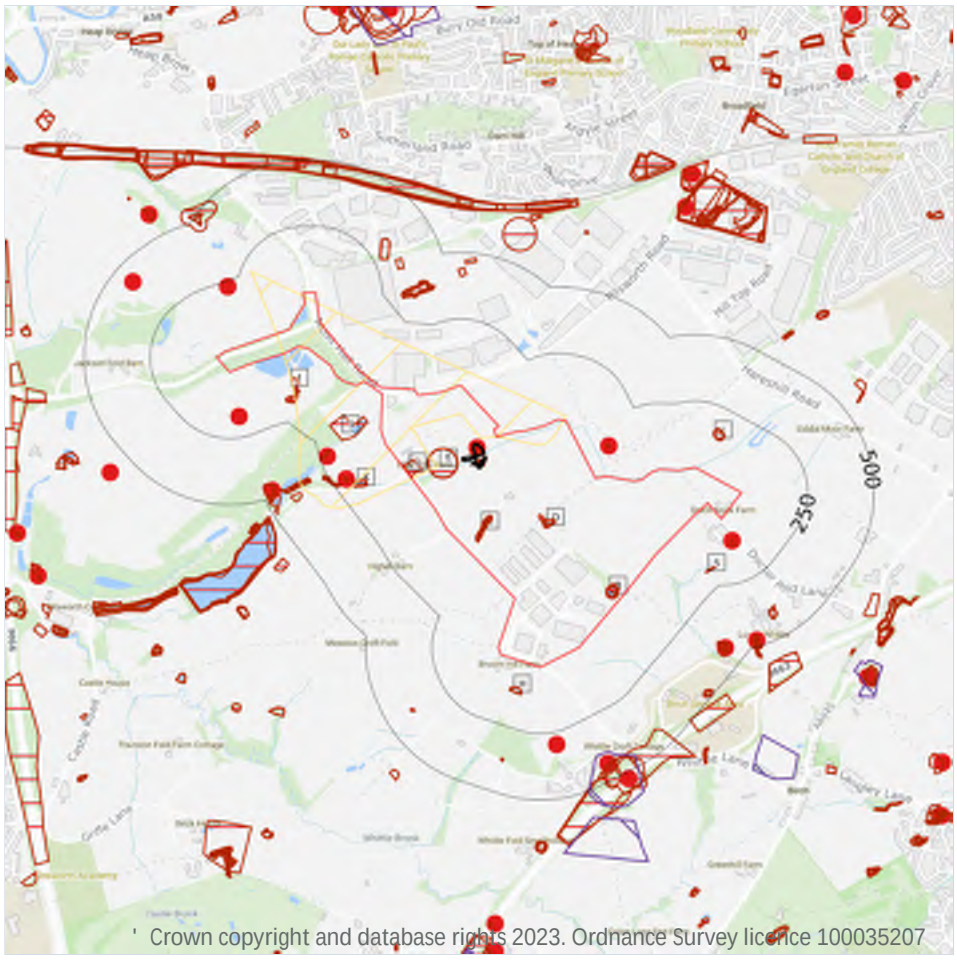
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 152 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



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Site Outline

Search buffers in metres (m)

- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining

Non Coal Mining

- Sporadic underground mining of restricted extent possible
- Localised small scale underground mining possible
- Small scale mining possible
- Underground mining known or likely within or in close proximity
- Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	13

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

Features are displayed on the Mining and ground workings map on **page 154 >**

ID	Location	Details	Description
A	**On site**	**Name: Three Land Ends** **Address: Darn Hill, HEYWOOD, Lancashire** **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**
F	91m E	Name: Doctor's Moss Address: Siddall Moor, HEYWOOD, Lancashire Commodity: Sand 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
G	101m NE	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire 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
4	172m W	Name: Pilsworth South Quarry Address: Pilsworth, BURY, Lancashire Commodity: Sand 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	197m W	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire Commodity: Sand 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
M	222m W	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire 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

ID	Location	Details	Description
6	227m NW	Name: Pilsworth Sand Quarry Address: Pilsworth, BURY, Lancashire Commodity: Sand 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
7	297m S	Name: Whittle Sandpit Address: Birch, ROCHDALE, Lancashire Commodity: Sand 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
S	422m SE	Name: Lower Whittle Quarries Address: Hopwood, HEYWOOD, Lancashire 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
12	426m NW	Name: Pilsworth Sand Quarry Address: Pilsworth, BURY, Lancashire Commodity: Sand 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
T	436m S	Name: Whittle Fold Sand Quarry Address: Birch, MIDDLETON, Lancashire Commodity: Sand 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
W	460m W	Name: Pilsworth Clough Address: HEYWOOD, Lancashire 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

ID	Location	Details	Description
X	475m SE	Name: Lower Whittle Sand Pit Address: Hopwood, HEYWOOD, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **65**

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

Features are displayed on the Mining and ground workings map on **page 154 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Coal Pits**	**1851**	**1:10560**
A	**On site**	**Coal Pits**	**1928**	**1:10560**
A	**On site**	**Coal Pits**	**1928**	**1:10560**
A	**On site**	**Coal Pits**	**1908**	**1:10560**
A	**On site**	**Coal Pits**	**1908**	**1:10560**
A	**On site**	**Unspecified Pit**	**1981**	**1:10000**
A	**On site**	**Unspecified Pit**	**1981**	**1:10000**
A	**On site**	**Unspecified Pit**	**1974**	**1:10000**
A	**On site**	**Unspecified Pit**	**1974**	**1:10000**
A	**On site**	**Coal Pits**	**1938**	**1:10560**
A	**On site**	**Coal Pits**	**1938**	**1:10560**
A	**On site**	**Coal Pits**	**1891**	**1:10560**
A	**On site**	**Old Sandstone Quarry**	**1851**	**1:10560**
A	**On site**	**Unspecified Pit**	**1965**	**1:10560**
A	**On site**	**Unspecified Pit**	**1965**	**1:10560**
A	**On site**	**Unspecified Pit**	**1955**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
B	**On site**	**Unspecified Pit**	**1928**	**1:10560**
B	**On site**	**Pond**	**1981**	**1:10000**
B	**On site**	**Pond**	**1891**	**1:10560**
B	**On site**	**Pond**	**1908**	**1:10560**
B	**On site**	**Unspecified Pit**	**1938**	**1:10560**
B	**On site**	**Pond**	**1851**	**1:10560**
C	**On site**	**Pond**	**1981**	**1:10000**
C	**On site**	**Pond**	**1974**	**1:10000**
C	**On site**	**Ponds**	**1938**	**1:10560**
C	**On site**	**Ponds**	**1891**	**1:10560**
C	**On site**	**Ponds**	**1891**	**1:10560**
C	**On site**	**Pond**	**1965**	**1:10560**
C	**On site**	**Pond**	**1955**	**1:10560**
C	**On site**	**Ponds**	**1928**	**1:10560**
C	**On site**	**Ponds**	**1908**	**1:10560**
C	**On site**	**Pond**	**1851**	**1:10560**
D	**On site**	**Ponds**	**1891**	**1:10560**
D	**On site**	**Ponds**	**1908**	**1:10560**
D	**On site**	**Ponds**	**1851**	**1:10560**
E	**On site**	**Coal Pits**	**1981**	**1:10000**
E	**On site**	**Coal Pits**	**1974**	**1:10000**
E	**On site**	**Coal Pits**	**1965**	**1:10560**
E	**On site**	**Coal Pits**	**1955**	**1:10560**
3	50m NW	Sewage Works	1974	1:10000
F	91m E	Sand Pit	1851	1:10560
G	93m NE	Old Sandstone Quarry	1851	1:10560
H	99m S	Unspecified Pit	1928	1:10560
H	99m S	Unspecified Pit	1908	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
H	99m S	Unspecified Pit	1938	1:10560
I	100m NW	Ponds	1974	1:10000
J	132m E	Pond	1938	1:10560
J	136m E	Pond	1981	1:10000
J	136m E	Pond	1974	1:10000
J	136m E	Pond	1965	1:10560
K	141m W	Reservoir	1981	1:10000
K	141m W	Reservoir	1974	1:10000
K	141m W	Pond	1965	1:10560
K	141m W	Reservoir	1955	1:10560
I	143m NW	Ponds	1981	1:10000
K	144m W	Reservoir	1938	1:10560
K	144m W	Reservoir	1891	1:10560
K	144m W	Reservoir	1928	1:10560
K	144m W	Reservoir	1908	1:10560
5	177m E	Pond	1890	1:10560
L	195m W	Sand Pit	1851	1:10560
M	208m W	Water Body	1955	1:10560
N	227m W	Filter Tanks	1955	1:10560
N	231m W	Filler Tanks	1938	1:10560
N	248m W	Filter Tanks	1928	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	**7**

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

Features are displayed on the Mining and ground workings map on **page 154 >**

ID	Location	Land Use	Year of mapping	Mapping scale
A	**On site**	**Coal Pits**	**1938**	**1:10560**
A	**On site**	**Coal Pits**	**1938**	**1:10560**
A	**On site**	**Coal Pits**	**1891**	**1:10560**
A	**On site**	**Coal Pits**	**1928**	**1:10560**
A	**On site**	**Coal Pits**	**1928**	**1:10560**
A	**On site**	**Coal Pits**	**1908**	**1:10560**
A	**On site**	**Coal Pits**	**1908**	**1:10560**

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	**0**

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	**1**

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

Features are displayed on the Mining and ground workings map on **page 154 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
T	394m S	Whittle Fold	Sand	Surface mineral working	Valid	Not available

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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

Features are displayed on the Mining and ground workings map on **page 154 >**

ID	Location	Name	Commodity	Class	Likelihood
2	**On site**	**Not available**	**Vein Mineral**	**A**	**Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data

is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

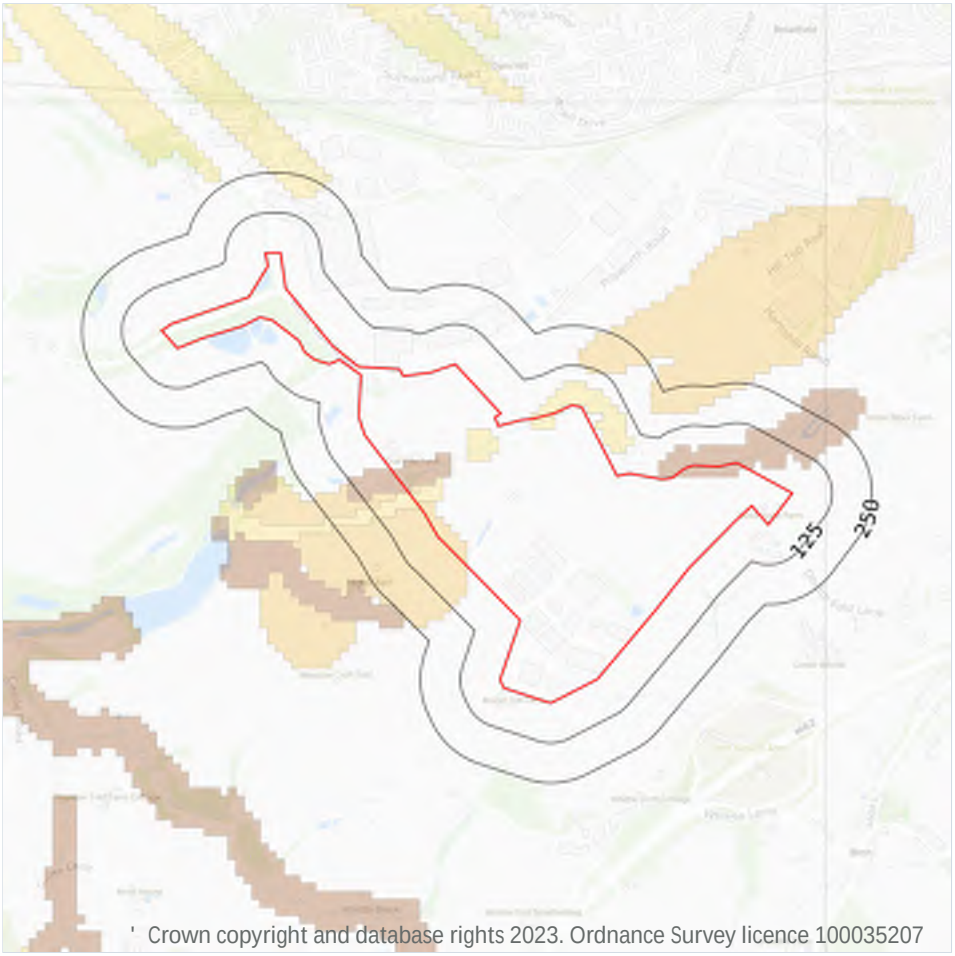
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

20.1 Radon

Records on site	4

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

Features are displayed on the Radon map on **page 166 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 10% and 30%**	**Full**
On site	**Between 3% and 5%**	**Basic**
On site	**Less than 1%**	**None**

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	74

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
8m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
8m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
10m E	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
16m NE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
25m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
37m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
46m E	25 - 35 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.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

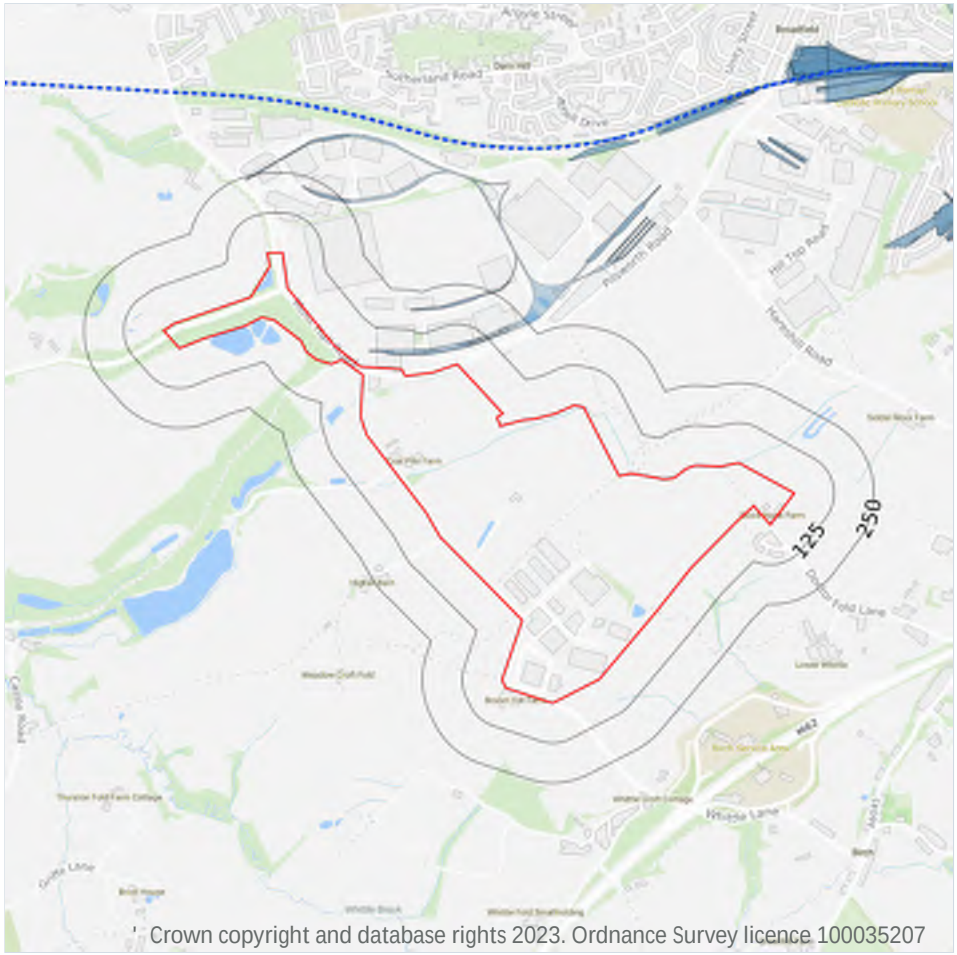
21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	9

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 173 >**

Location	Land Use	Year of mapping	Mapping scale
43m NW	Railway Sidings	1966	2500
44m NW	Railway Sidings	1966	1250
168m N	Railway Sidings	1966	2500
180m NW	Railway Sidings	1966	1250
180m NW	Railway Sidings	1966	2500
189m N	Railway Sidings	1968	2500
209m NW	Railway Sidings	1966	1250
210m NW	Railway Sidings	1966	2500
238m NW	Railway Sidings	1966	1250

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Northern Gateway

Order Details

Date: 11/12/2023

Your ref: Northern Gateway

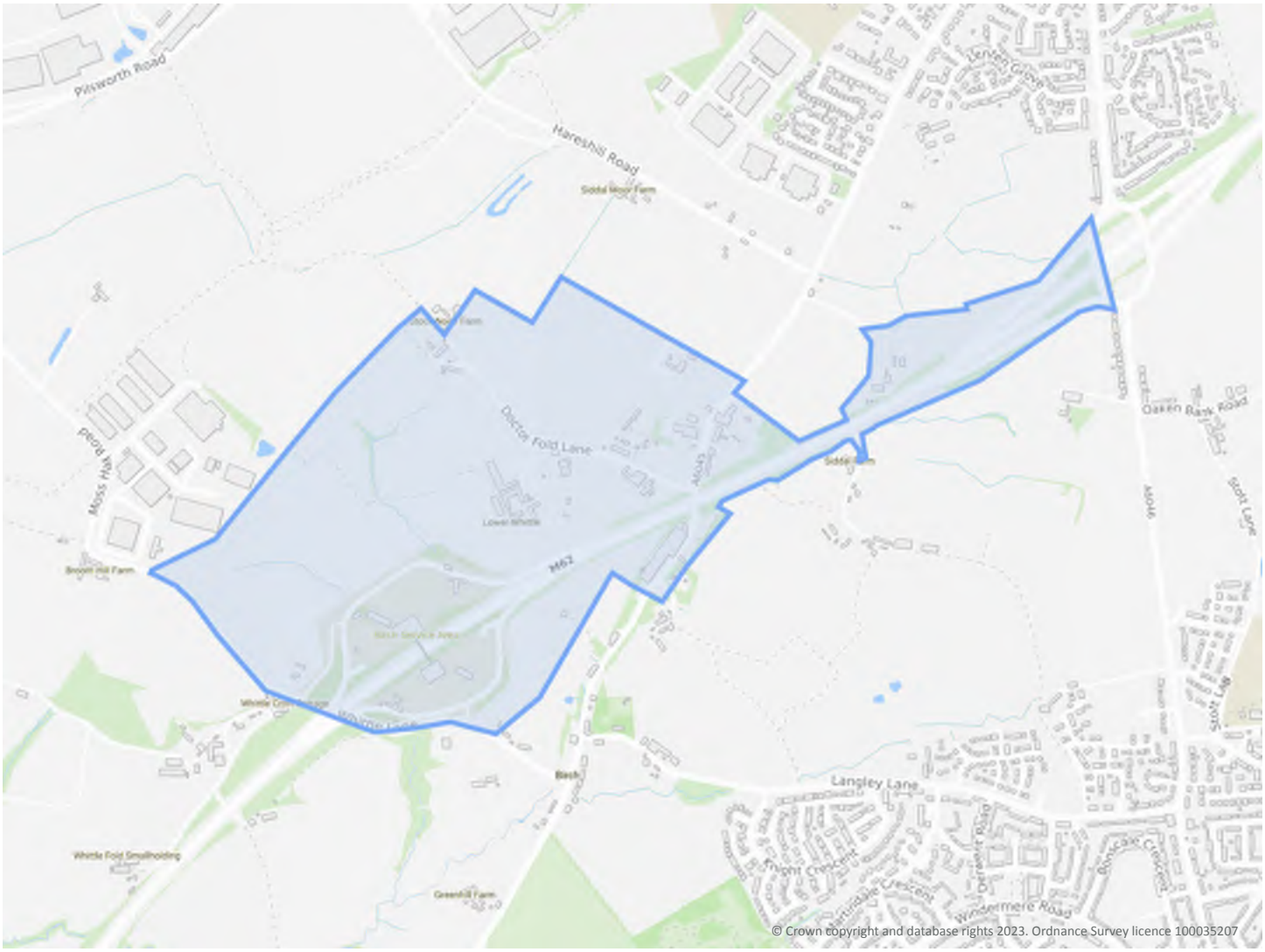
Our Ref: GSIP-2023-14200-16018_RR_B

Site Details

Location: 385343 408381

Area: 102.41 ha

Authority: Rochdale Metropolitan Borough Council



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

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

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	35	6	31	33	-
17 >	1.2 >	Historical tanks >	6	3	3	2	-
18 >	1.3 >	Historical energy features >	5	0	3	4	-
19	1.4	Historical petrol stations	0	0	0	0	-
19 >	1.5 >	Historical garages >	6	0	0	4	-
20	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
21 >	2.1 >	Historical industrial land uses >	46	8	39	42	-
26 >	2.2 >	Historical tanks >	8	4	4	6	-
27 >	2.3 >	Historical energy features >	9	0	4	6	-
28	2.4	Historical petrol stations	0	0	0	0	-
29 >	2.5 >	Historical garages >	7	0	0	7	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30	3.1	Active or recent landfill	0	0	0	0	-
30	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
31 >	3.5 >	Historical waste sites >	0	0	0	2	-
32 >	3.6 >	Licensed waste sites >	0	2	0	4	-
33 >	3.7 >	Waste exemptions >	3	2	55	65	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
43 >	4.1 >	Recent industrial land uses >	20	5	15	-	-
46 >	4.2 >	Current or recent petrol stations >	2	0	0	1	-
46	4.3	Electricity cables	0	0	0	0	-
47	4.4	Gas pipelines	0	0	0	0	-
47	4.5	Sites determined as Contaminated Land	0	0	0	0	-

47	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
47	4.7	Regulated explosive sites	0	0	0	0	-
47	4.8	Hazardous substance storage/usage	0	0	0	0	-
48	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
48	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
48 >	**4.11 >**	**Licensed pollutant release (Part A(2)/B) >**	2	0	0	0	-
49	4.12	Radioactive Substance Authorisations	0	0	0	0	-
49 >	**4.13 >**	**Licensed Discharges to controlled waters >**	6	3	19	3	-
54	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
54	4.15	Pollutant release to public sewer	0	0	0	0	-
54	4.16	List 1 Dangerous Substances	0	0	0	0	-
54	4.17	List 2 Dangerous Substances	0	0	0	0	-
54 >	**4.18 >**	**Pollution Incidents (EA/NRW) >**	2	1	10	3	-
56	4.19	Pollution inventory substances	0	0	0	0	-
57	4.20	Pollution inventory waste transfers	0	0	0	0	-
57	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	**Hydrogeology >**	On site	0-50m	50-250m	250-500m	500-2000m
58 >	**5.1 >**	**Superficial aquifer >**	Identified (within 500m)				
60 >	**5.2 >**	**Bedrock aquifer >**	Identified (within 500m)				
62 >	**5.3 >**	**Groundwater vulnerability >**	Identified (within 50m)				
65	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
65	5.5	Groundwater vulnerability- local information	None (within 0m)				
66 >	**5.6 >**	**Groundwater abstractions >**	0	0	3	0	16
71 >	**5.7 >**	**Surface water abstractions >**	0	0	0	0	12
74	5.8	Potable abstractions	0	0	0	0	0
75	5.9	Source Protection Zones	0	0	0	0	-
75	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	**Hydrology >**	On site	0-50m	50-250m	250-500m	500-2000m
76 >	**6.1 >**	**Water Network (OS MasterMap) >**	15	8	49	-	-

82 >	6.2 >	Surface water features >	1	8	20	-	-
82 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
83 >	6.4 >	WFD Surface water bodies >	0	0	0	-	-
83 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
84	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
84	7.2	Historical Flood Events	0	0	0	-	-
84	7.3	Flood Defences	0	0	0	-	-
85	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
85	7.5	Flood Storage Areas	0	0	0	-	-
86	7.6	Flood Zone 2	None (within 50m)				
86	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding >					
87 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
89 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
90 >	10.1 >	Sites of Special Scientific Interest (SSSI) >	0	0	0	0	1
91	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
91 >	10.3 >	Special Areas of Conservation (SAC) >	0	0	0	0	1
91	10.4	Special Protection Areas (SPA)	0	0	0	0	0
92	10.5	National Nature Reserves (NNR)	0	0	0	0	0
92 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	1	3
92 >	10.7 >	Designated Ancient Woodland >	0	0	0	0	7
93	10.8	Biosphere Reserves	0	0	0	0	0
93	10.9	Forest Parks	0	0	0	0	0
93	10.10	Marine Conservation Zones	0	0	0	0	0
94 >	10.11 >	Green Belt >	1	0	1	0	0
94	10.12	Proposed Ramsar sites	0	0	0	0	0

94	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
94	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
95	10.15	Nitrate Sensitive Areas	0	0	0	0	0
95 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	1	3
96 >	10.17 >	SSSI Impact Risk Zones >	3	-	-	-	-
97 >	10.18 >	SSSI Units >	0	0	0	0	1
Page	Section	Visual and cultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
99	11.1	World Heritage Sites	0	0	0	-	-
100	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
100	11.3	National Parks	0	0	0	-	-
100 >	11.4 >	Listed Buildings >	1	0	2	-	-
101 >	11.5 >	Conservation Areas >	1	0	0	-	-
101	11.6	Scheduled Ancient Monuments	0	0	0	-	-
101	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
102 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
103	12.2	Open Access Land	0	0	0	-	-
103 >	12.3 >	Tree Felling Licences >	24	2	3	-	-
104	12.4	Environmental Stewardship Schemes	0	0	0	-	-
105 >	12.5 >	Countryside Stewardship Schemes >	0	0	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
106 >	13.1 >	Priority Habitat Inventory >	2	1	5	-	-
107	13.2	Habitat Networks	0	0	0	-	-
107 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
107	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
109 >	14.1 >	10k Availability >	Identified (within 500m)				
110 >	14.2 >	Artificial and made ground (10k) >	18	3	4	8	-
113 >	14.3 >	Superficial geology (10k) >	8	1	4	2	-

114	14.4	Landslip (10k)	0	0	0	0	-
115 >	14.5 >	Bedrock geology (10k) >	6	0	2	4	-
116 >	14.6 >	Bedrock faults and other linear features (10k) >	11	1	8	27	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
119 >	15.1 >	50k Availability >	Identified (within 500m)				
120 >	15.2 >	Artificial and made ground (50k) >	0	1	0	1	-
121 >	15.3 >	Artificial ground permeability (50k) >	0	1	-	-	-
122 >	15.4 >	Superficial geology (50k) >	5	0	2	2	-
123 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
123	15.6	Landslip (50k)	0	0	0	0	-
124	15.7	Landslip permeability (50k)	None (within 50m)				
125 >	15.8 >	Bedrock geology (50k) >	4	0	2	4	-
126 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
126 >	15.10 >	Bedrock faults and other linear features (50k) >	5	0	2	7	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
128 >	16.1 >	BGS Boreholes >	8	3	6	-	-
Page	Section	**Natural ground subsidence >**					
130 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
131 >	17.2 >	Running sands >	Low (within 50m)				
133 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
135 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
136 >	17.5 >	Landslides >	Moderate (within 50m)				
138 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
140 >	18.1 >	BritPits >	3	1	4	6	-
143 >	18.2 >	Surface ground workings >	41	12	39	-	-
147 >	18.3 >	Underground workings >	0	0	0	3	8
147	18.4	Underground mining extents	0	0	0	0	-
148 >	18.5 >	Historical Mineral Planning Areas >	2	1	0	1	-

148 >	18.6 >	Non-coal mining >	0	0	0	0	1
149	18.7	JPB mining areas	None (within 0m)				
149	18.8	The Coal Authority non-coal mining	0	0	0	0	-
149	18.9	Researched mining	0	0	0	0	-
149	18.10	Mining record office plans	0	0	0	0	-
150	18.11	BGS mine plans	0	0	0	0	-
150 >	18.12 >	Coal mining >	Identified (within 0m)				
150	18.13	Brine areas	None (within 0m)				
150	18.14	Gypsum areas	None (within 0m)				
151	18.15	Tin mining	None (within 0m)				
151	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
152	19.1	Natural cavities	0	0	0	0	-
152	19.2	Mining cavities	0	0	0	0	0
152	19.3	Reported recent incidents	0	0	0	0	-
152	19.4	Historical incidents	0	0	0	0	-
153	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
154 >	20.1 >	Radon >	Less than 1% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
156 >	21.1 >	BGS Estimated Background Soil Chemistry >	50	5	-	-	-
159	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
159	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
160	22.1	Underground railways (London)	0	0	0	-	-
160	22.2	Underground railways (Non-London)	0	0	0	-	-
160	22.3	Railway tunnels	0	0	0	-	-
160	22.4	Historical railway and tunnel features	0	0	0	-	-
160	22.5	Royal Mail tunnels	0	0	0	-	-

161	22.6	Historical railways	0	0	0	-	-
161	22.7	Railways	0	0	0	-	-
161	22.8	Crossrail 1	0	0	0	0	-
161	22.9	Crossrail 2	0	0	0	0	-
161	22.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 102.41ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 102.41ha

Recent site history - 2011 aerial photograph



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Capture Date: 01/05/2011

Site Area: 102.41ha

Recent site history - 2000 aerial photograph

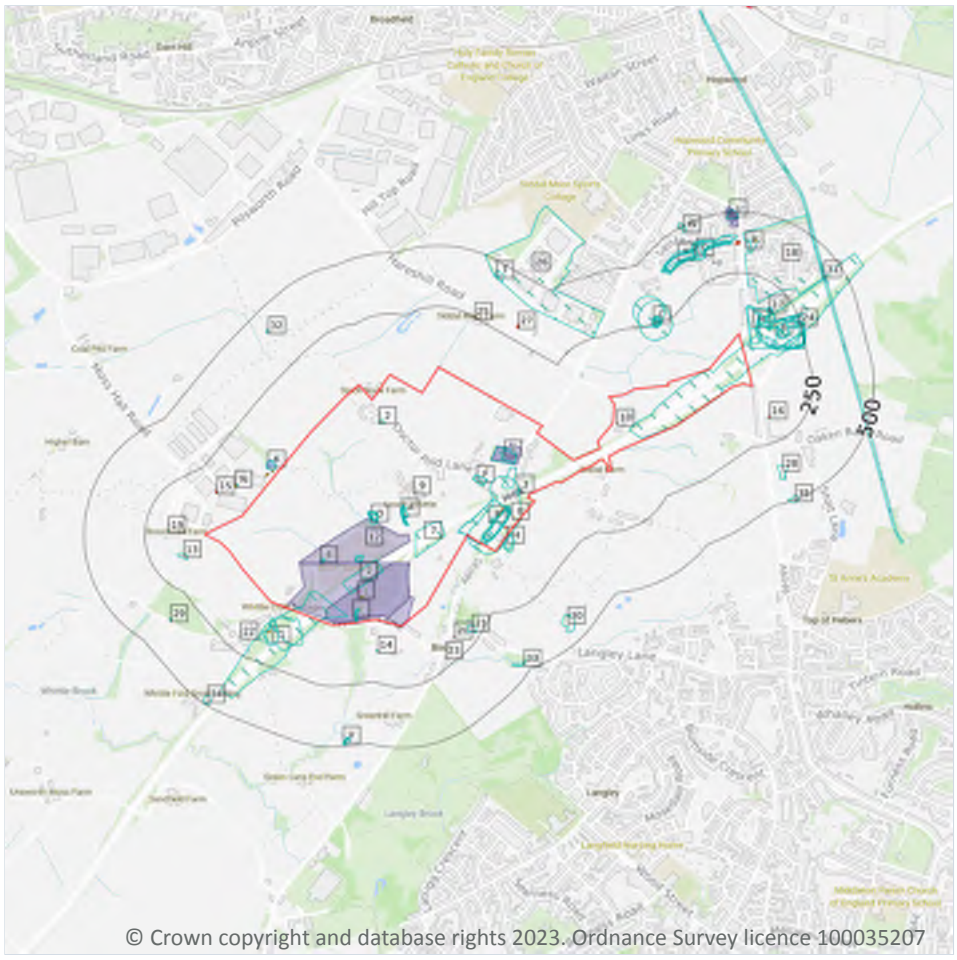


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Capture Date: 19/06/2000

Site Area: 102.41ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

1.1 Historical industrial land uses

Records within 500m	105

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 13 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Cuttings**	**1981**	**642588**

ID	Location	Land use	Dates present	Group ID
2	On site	Sand Pit	1851	643781
3	On site	Boat House	1909	668315
4	On site	Police Station	1981	680443
5	On site	Brick Yard	1851	681786
6	On site	Cuttings	1975 - 1982	711944
7	On site	Cuttings	1975 - 1982	746391
A	On site	Sand Pit	1851	643782
A	On site	Unspecified Old Quarries	1890	657762
A	On site	Unspecified Ground Workings	1938	694233
A	On site	Unspecified Ground Workings	1965 - 1981	737154
A	On site	Unspecified Ground Workings	1909 - 1928	740623
B	On site	Unspecified Ground Workings	1909	648185
B	On site	Cotton Mills	1955	659318
B	On site	Unspecified Works	1982	679027
B	On site	Unspecified Mills	1965	713439
B	On site	Cotton Mill	1851	721782
B	On site	Unspecified Mills	1909 - 1928	733312
B	On site	Unspecified Mills	1975	739474
B	On site	Unspecified Mills	1938	756513
B	On site	Cotton Mill	1890	770953
C	On site	Unspecified Ground Workings	1932	648186
C	On site	Unspecified Heap	1938	650933
D	On site	Unspecified Old Quarries	1890	657761
D	On site	Unspecified Pit	1955	694771
D	On site	Unspecified Pit	1938	727450
D	On site	Unspecified Pit	1909 - 1928	742360
E	On site	Unspecified Pit	1909	701887
E	On site	Unspecified Pit	1955	704411

ID	Location	Land use	Dates present	Group ID
F	**On site**	**Unspecified Works**	**1965**	**702965**
F	**On site**	**Unspecified Works**	**1975 - 1982**	**746457**
G	**On site**	**Cuttings**	**1974 - 1981**	**708487**
H	**On site**	**Unspecified Pit**	**1965 - 1982**	**725504**
I	**On site**	**Garage**	**1965 - 1975**	**778778**
I	**On site**	**Garage**	**1982**	**785858**
H	1m SE	Sand Pit	1955	643780
K	17m W	Unspecified Pit	1928 - 1938	717895
G	28m SW	Sand Quarry	1965	665372
L	35m NE	Brick Works	1890	668965
M	38m NE	Old Clay Pits	1909	665445
M	47m NE	Unspecified Pit	1890	690978
G	58m SW	Refuse Heap	1955	677974
L	69m NE	Unspecified Ground Workings	1928	762295
L	74m NE	Unspecified Ground Workings	1938 - 1955	740890
G	78m SW	Sand Pit	1851	643779
N	91m W	Unspecified Tank	1981	674847
M	100m NE	Old Clay Pits	1909	665450
L	101m NE	Unspecified Pit	1890	690980
13	113m W	Unspecified Pit	1908 - 1938	749732
L	113m E	Brick Field	1851	668543
L	115m NE	Old Clay Pits	1909	665451
L	117m NE	Unspecified Pit	1890	690979
14	118m S	Unspecified Tank	1981	674846
L	145m E	Unspecified Pit	1890	690981
17	145m NE	Unspecified Pit	1928 - 1938	721458
18	148m NE	Unspecified Depot	1975 - 1982	753060
19	151m W	Pump	1851	675596

ID	Location	Land use	Dates present	Group ID
L	157m NE	Unspecified Heap	1938	650934
L	168m E	Unspecified Pit	1890	690982
L	171m E	Unspecified Heap	1938	650936
L	171m E	Old Clay Pits	1909	665452
O	179m NE	Unspecified Shaft	1909	665143
21	190m S	Cuttings	1932 - 1938	698791
22	192m SW	Pump	1851	675601
23	210m S	Pump	1851	675602
L	214m E	Unspecified Ground Workings	1890	718854
24	227m NE	Unspecified Heaps	1938	679644
O	229m NE	Refuse Heap	1928	696875
O	231m NE	Refuse Heap	1938	695746
O	235m NE	Refuse Heap	1955	757963
O	238m NE	Unspecified Disused Shaft	1982	664293
O	249m NE	Unspecified Heap	1965 - 1982	785194
26	252m NE	Unspecified Depot	1975 - 1982	787385
O	263m NE	Unspecified Old Shaft	1928	745901
O	264m NE	Unspecified Old Shaft	1938	700145
O	265m NE	Unspecified Old Shaft	1955	752898
P	342m NE	Fire Station	1975 - 1982	701519
Q	343m NE	Old Gravel Pit	1890	771660
Q	343m NE	Sand Pit	1851	643895
28	343m E	Old Sand Pit	1851	682520
R	351m NE	Unspecified Pit	1909	701933
S	352m NE	Old Gravel Pit	1909 - 1928	784649
S	354m NE	Old Gravel Pit	1955	768602
S	355m NE	Unspecified Ground Workings	1938	648213
29	358m SW	Sand Pit	1851	643778

ID	Location	Land use	Dates present	Group ID
R	359m NE	Old Gravel Pit	1938	694268
R	359m NE	Unspecified Pit	1955	717314
R	360m NE	Unspecified Pit	1928	789396
R	364m NE	Unspecified Pit	1965	729369
30	387m SE	Old Sand Pit	1851	682509
Q	395m NE	Unspecified Pits	1928	659185
Q	395m NE	Unspecified Pit	1938 - 1955	740624
31	396m NE	Tramway Sidings	1851	670787
32	409m NW	Old Sandstone Quarry	1851	657656
33	428m SE	Unspecified Ground Workings	1915 - 1932	709270
T	431m N	Sewage Works	1982	659746
T	441m N	Unspecified Tank	1982	674845
34	460m SW	Unspecified Pit	1965	691091
V	464m S	Unspecified Ground Workings	1915 - 1932	715849
V	465m S	Unspecified Ground Workings	1938	724705
V	471m S	Sand Pit	1907	643942
W	471m NE	Unspecified Pit	1890 - 1909	716745
U	475m NE	Garage	1965	693865
35	483m E	Sand Pit	1851	643898
W	494m NE	Old Gravel Pit	1890	691660

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	14

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
8	**On site**	**Unspecified Tank**	**1956**	**84650**
9	**On site**	**Unspecified Tank**	**1956**	**84653**
10	**On site**	**Unspecified Tank**	**1956**	**84691**
11	**On site**	**Unspecified Tank**	**1956 - 1975**	**98373**
B	**On site**	**Unspecified Tank**	**1975**	**84648**
J	**On site**	**Unspecified Tank**	**1975 - 1992**	**88857**
K	15m W	Tanks	1992	89834
K	15m W	Tanks	1980	95622
K	23m W	Tanks	1980 - 1992	95895
N	95m W	Unspecified Tank	1980 - 1992	98192
G	114m SW	Tanks	1956	87868
25	250m N	Tanks	1956 - 1968	97834
P	385m NE	Tanks	1992 - 1993	97877
P	388m NE	Tanks	1992 - 1993	99432

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**12**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
B	**On site**	**Electricity Substation**	**1956 - 1975**	**48965**
B	**On site**	**Electricity Substation**	**1975 - 1992**	**53769**
B	**On site**	**Electricity Substation**	**1992**	**56470**
I	**On site**	**Electricity Substation**	**1975 - 1992**	**52518**

ID	Location	Land use	Dates present	Group ID
J	**On site**	**Electricity Substation**	**1975 - 1992**	**56768**
15	131m W	Electricity Substation	1980 - 1992	55593
16	143m E	Electricity Substation	1976	45651
20	171m S	Electricity Substation	1973	45644
27	299m NE	Electricity Substation	1975 - 1992	51488
P	368m NE	Electricity Substation	1989 - 1992	46801
P	369m NE	Electricity Substation	1993	57451
P	371m NE	Electricity Substation	1970	58815

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	**10**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
12	**On site**	**Service Area**	**1980 - 1992**	**19791**
I	**On site**	**Garage**	**1975**	**15150**
I	**On site**	**Garage**	**1956**	**15176**

ID	Location	Land use	Dates present	Group ID
I	**On site**	**Garage**	**1992**	**15732**
J	**On site**	**Service Area**	**1975**	**17177**
J	**On site**	**Service Area**	**1992**	**17221**
U	439m NE	Garage	1989	16889
U	458m NE	Garage	1992 - 1993	17541
U	474m NE	Garage	1955 - 1970	19531
U	475m NE	Garage	1956	15677

This data is sourced from Ordnance Survey / Groundsure.

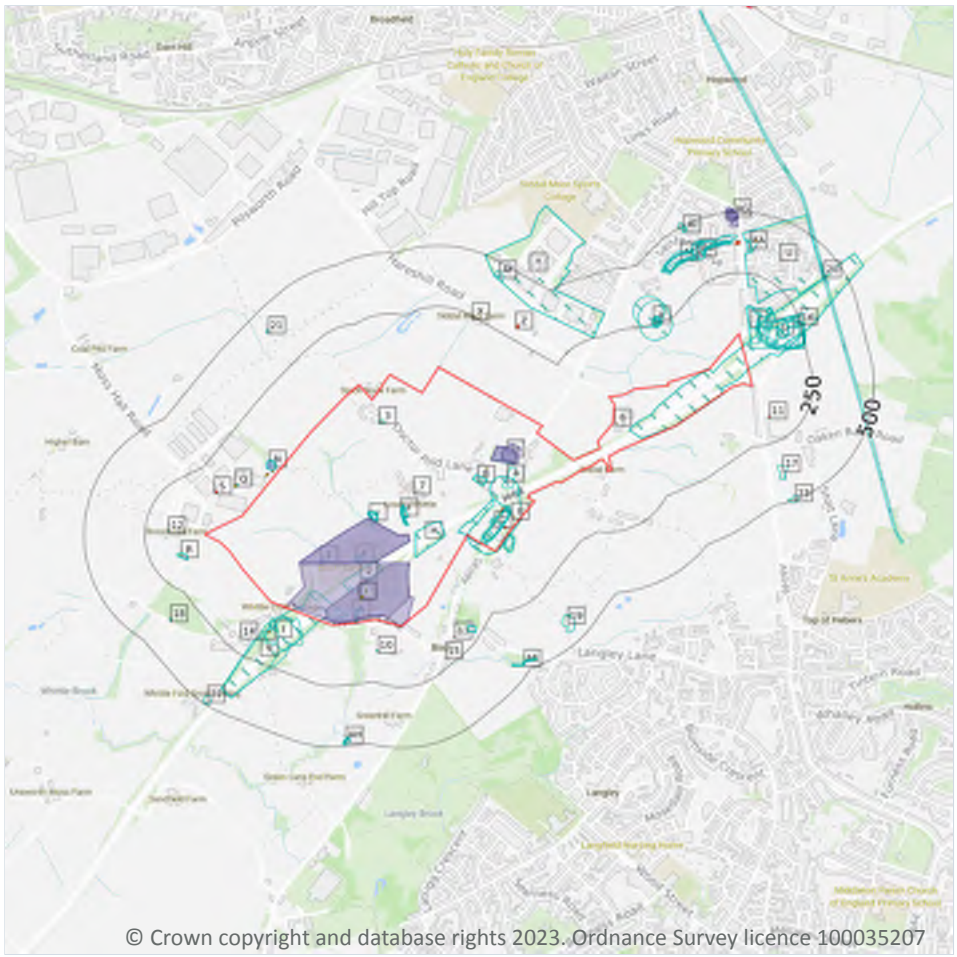
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	135

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 21 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Police Station**	**1981**	**680443**
2	**On site**	**Cuttings**	**1981**	**642588**
3	**On site**	**Sand Pit**	**1851**	**643781**

ID	Location	Land Use	Date	Group ID
4	On site	Brick Yard	1851	681786
5	On site	Boat House	1909	668315
A	On site	Unspecified Ground Workings	1932	648186
A	On site	Unspecified Heap	1938	650933
B	On site	Unspecified Works	1975	746457
B	On site	Unspecified Works	1965	702965
B	On site	Unspecified Works	1982	746457
C	On site	Unspecified Mills	1975	739474
C	On site	Unspecified Mills	1965	713439
C	On site	Cotton Mills	1955	659318
C	On site	Unspecified Mills	1928	733312
C	On site	Unspecified Mills	1909	733312
C	On site	Cotton Mill	1851	721782
C	On site	Unspecified Mills	1938	756513
C	On site	Unspecified Ground Workings	1909	648185
C	On site	Cotton Mill	1890	770953
C	On site	Unspecified Works	1982	679027
D	On site	Garage	1975	778778
D	On site	Garage	1965	778778
D	On site	Garage	1982	785858
E	On site	Unspecified Pit	1975	725504
E	On site	Unspecified Pit	1965	725504
E	On site	Unspecified Pit	1982	725504
F	On site	Unspecified Ground Workings	1981	737154
F	On site	Unspecified Ground Workings	1974	737154
F	On site	Unspecified Old Quarries	1890	657762
F	On site	Sand Pit	1851	643782
F	On site	Unspecified Ground Workings	1938	694233

ID	Location	Land Use	Date	Group ID
F	**On site**	**Unspecified Ground Workings**	**1928**	**740623**
F	**On site**	**Unspecified Ground Workings**	**1909**	**740623**
F	**On site**	**Unspecified Ground Workings**	**1965**	**737154**
G	**On site**	**Cuttings**	**1975**	**711944**
G	**On site**	**Cuttings**	**1982**	**711944**
H	**On site**	**Cuttings**	**1975**	**746391**
H	**On site**	**Cuttings**	**1982**	**746391**
I	**On site**	**Cuttings**	**1981**	**708487**
J	**On site**	**Unspecified Old Quarries**	**1890**	**657761**
J	**On site**	**Unspecified Pit**	**1938**	**727450**
J	**On site**	**Unspecified Pit**	**1928**	**742360**
J	**On site**	**Unspecified Pit**	**1909**	**742360**
J	**On site**	**Unspecified Pit**	**1955**	**694771**
K	**On site**	**Unspecified Pit**	**1909**	**701887**
K	**On site**	**Unspecified Pit**	**1955**	**704411**
E	1m SE	Sand Pit	1955	643780
N	17m W	Unspecified Pit	1938	717895
N	17m W	Unspecified Pit	1928	717895
I	28m SW	Sand Quarry	1965	665372
O	35m NE	Brick Works	1890	668965
9	36m SW	Cuttings	1974	708487
P	38m NE	Old Clay Pits	1909	665445
P	47m NE	Unspecified Pit	1890	690978
I	58m SW	Refuse Heap	1955	677974
O	69m NE	Unspecified Ground Workings	1928	762295
O	74m NE	Unspecified Ground Workings	1938	740890
O	77m NE	Unspecified Ground Workings	1955	740890
I	78m SW	Sand Pit	1851	643779

ID	Location	Land Use	Date	Group ID
Q	91m W	Unspecified Tank	1981	674847
P	100m NE	Old Clay Pits	1909	665450
O	101m NE	Unspecified Pit	1890	690980
R	113m W	Unspecified Pit	1938	749732
R	113m W	Unspecified Pit	1928	749732
R	113m W	Unspecified Pit	1908	749732
O	113m E	Brick Field	1851	668543
O	115m NE	Old Clay Pits	1909	665451
O	117m NE	Unspecified Pit	1890	690979
10	118m S	Unspecified Tank	1981	674846
O	145m E	Unspecified Pit	1890	690981
T	145m NE	Unspecified Pit	1928	721458
T	146m NE	Unspecified Pit	1938	721458
U	148m NE	Unspecified Depot	1975	753060
U	148m NE	Unspecified Depot	1982	753060
12	151m W	Pump	1851	675596
O	157m NE	Unspecified Heap	1938	650934
O	168m E	Unspecified Pit	1890	690982
O	171m E	Unspecified Heap	1938	650936
O	171m E	Old Clay Pits	1909	665452
V	179m NE	Unspecified Shaft	1909	665143
W	190m S	Cuttings	1938	698791
W	191m S	Cuttings	1932	698791
14	192m SW	Pump	1851	675601
15	210m S	Pump	1851	675602
O	214m E	Unspecified Ground Workings	1890	718854
16	227m NE	Unspecified Heaps	1938	679644
V	229m NE	Refuse Heap	1928	696875

ID	Location	Land Use	Date	Group ID
V	231m NE	Refuse Heap	1938	695746
V	235m NE	Refuse Heap	1955	757963
V	238m NE	Unspecified Disused Shaft	1982	664293
V	249m NE	Unspecified Heap	1975	785194
V	249m NE	Unspecified Heap	1965	785194
V	249m NE	Unspecified Heap	1982	785194
Y	252m NE	Unspecified Depot	1975	787385
Y	252m NE	Unspecified Depot	1982	787385
V	263m NE	Unspecified Old Shaft	1928	745901
V	264m NE	Unspecified Old Shaft	1938	700145
V	265m NE	Unspecified Old Shaft	1955	752898
AA	342m NE	Fire Station	1975	701519
AA	342m NE	Fire Station	1982	701519
AB	343m NE	Old Gravel Pit	1890	771660
AB	343m NE	Sand Pit	1851	643895
17	343m E	Old Sand Pit	1851	682520
AC	351m NE	Unspecified Pit	1909	701933
AD	352m NE	Old Gravel Pit	1909	784649
AD	354m NE	Old Gravel Pit	1928	784649
AD	354m NE	Old Gravel Pit	1955	768602
AD	355m NE	Unspecified Ground Workings	1938	648213
18	358m SW	Sand Pit	1851	643778
AC	359m NE	Old Gravel Pit	1938	694268
AC	359m NE	Unspecified Pit	1955	717314
AC	360m NE	Unspecified Pit	1928	789396
AC	364m NE	Unspecified Pit	1965	729369
19	387m SE	Old Sand Pit	1851	682509
AB	395m NE	Unspecified Pits	1928	659185

ID	Location	Land Use	Date	Group ID
AB	395m NE	Unspecified Pit	1955	740624
AB	396m NE	Unspecified Pit	1938	740624
20	396m NE	Tramway Sidings	1851	670787
21	409m NW	Old Sandstone Quarry	1851	657656
AE	428m SE	Unspecified Ground Workings	1932	709270
AE	428m SE	Unspecified Ground Workings	1915	709270
AE	428m SE	Unspecified Ground Workings	1923	709270
AF	431m N	Sewage Works	1982	659746
AF	441m N	Unspecified Tank	1982	674845
22	460m SW	Unspecified Pit	1965	691091
AH	464m S	Unspecified Ground Workings	1932	715849
AH	464m S	Unspecified Ground Workings	1915	715849
AH	464m S	Unspecified Ground Workings	1923	715849
AH	465m S	Unspecified Ground Workings	1938	724705
AH	471m S	Sand Pit	1907	643942
AI	471m NE	Unspecified Pit	1890	716745
AG	475m NE	Garage	1965	693865
AI	475m NE	Unspecified Pit	1909	716745
23	483m E	Sand Pit	1851	643898
AI	494m NE	Old Gravel Pit	1890	691660

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**22**

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 21 >**

ID	Location	Land Use	Date	Group ID
6	**On site**	**Unspecified Tank**	**1956**	**84691**
7	**On site**	**Unspecified Tank**	**1956**	**84653**
8	**On site**	**Unspecified Tank**	**1956**	**84650**
C	**On site**	**Unspecified Tank**	**1975**	**84648**
L	**On site**	**Unspecified Tank**	**1975**	**88857**
L	**On site**	**Unspecified Tank**	**1992**	**88857**
M	**On site**	**Unspecified Tank**	**1975**	**98373**
M	**On site**	**Unspecified Tank**	**1956**	**98373**
N	15m W	Tanks	1992	89834
N	15m W	Tanks	1980	95622
N	23m W	Tanks	1992	95895
N	24m W	Tanks	1980	95895
Q	95m W	Unspecified Tank	1980	98192
Q	95m W	Unspecified Tank	1992	98192
I	114m SW	Tanks	1956	87868
X	250m N	Tanks	1956	97834
X	250m N	Tanks	1956	97834
X	250m N	Tanks	1968	97834
AA	385m NE	Tanks	1992	97877
AA	386m NE	Tanks	1993	97877
AA	388m NE	Tanks	1992	99432
AA	389m NE	Tanks	1993	99432

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**19**

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 21 >**

ID	Location	Land Use	Date	Group ID
C	**On site**	**Electricity Substation**	**1975**	**48965**
C	**On site**	**Electricity Substation**	**1975**	**53769**
C	**On site**	**Electricity Substation**	**1956**	**48965**
C	**On site**	**Electricity Substation**	**1992**	**56470**
C	**On site**	**Electricity Substation**	**1992**	**53769**
D	**On site**	**Electricity Substation**	**1975**	**52518**
D	**On site**	**Electricity Substation**	**1992**	**52518**
L	**On site**	**Electricity Substation**	**1975**	**56768**
L	**On site**	**Electricity Substation**	**1992**	**56768**
S	131m W	Electricity Substation	1992	55593
S	132m W	Electricity Substation	1980	55593
11	143m E	Electricity Substation	1976	45651
13	171m S	Electricity Substation	1973	45644
Z	299m NE	Electricity Substation	1992	51488
Z	300m NE	Electricity Substation	1975	51488
AA	368m NE	Electricity Substation	1989	46801
AA	368m NE	Electricity Substation	1992	46801
AA	369m NE	Electricity Substation	1993	57451
AA	371m NE	Electricity Substation	1970	58815

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	14

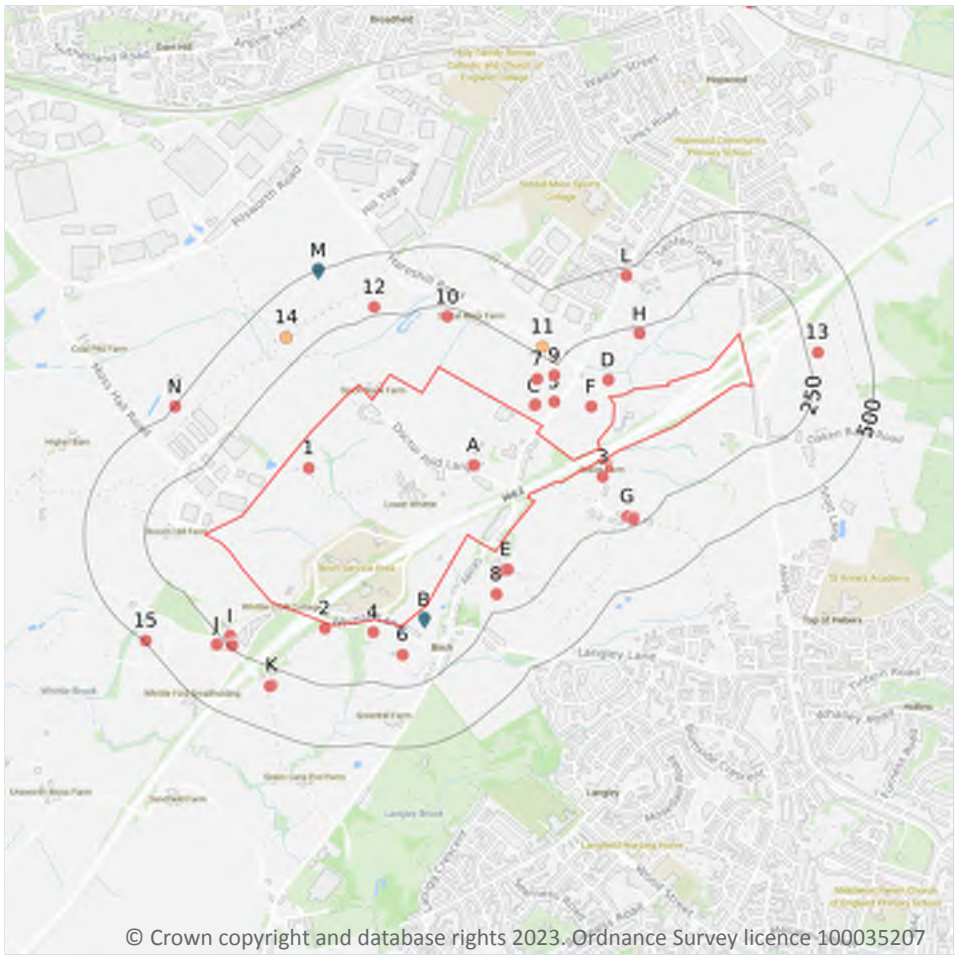
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
D	**On site**	**Garage**	**1992**	**15732**
D	**On site**	**Garage**	**1975**	**15150**
D	**On site**	**Garage**	**1956**	**15176**
K	**On site**	**Service Area**	**1992**	**19791**
K	**On site**	**Service Area**	**1980**	**19791**
L	**On site**	**Service Area**	**1992**	**17221**
L	**On site**	**Service Area**	**1975**	**17177**
AG	439m NE	Garage	1989	16889
AG	458m NE	Garage	1993	17541
AG	458m NE	Garage	1992	17541
AG	474m NE	Garage	1965	19531
AG	474m NE	Garage	1970	19531
AG	474m NE	Garage	1955	19531
AG	475m NE	Garage	1956	15677

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

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	0

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.

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

3.5 Historical waste sites

Records within 500m	2

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 30 >**

ID	Location	Address	Further Details	Date
11	257m NE	Site Address: 3 Hareshill Road, HEYWOOD, Greater Manchester, OL10 2TD	Type of Site: Waste Digestion Equipment Buildings Planning application reference: 09/D52429 Description: Scheme comprises construction of buildings associated with food waste based anaerobic digestion equipment including glasshouses, portable cabin and 24 reactors. An application (ref: 09/D52429) for detailed planning permission was withdrawn from RochdaleB .C. A detailed planning application has been withdrawn. Data source: Historic Planning Application Data Type: Point	-
14	318m NW	Site Address: Land Off, Whittle Lane, Heywood, Greater Manchester, OL10	Type of Site: Landfill Works (Refurb) Planning application reference: 13/00237/FUL Description: Scheme comprises infilling of redundant quarry to restore land for more beneficial agricultural use, including the construction of a new vehicular access to the site from whittle lane. 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 **6**

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

Features are displayed on the Waste and landfill map on **page 30 >**

ID	Location	Details		
B	38m S	Site Name: Land Off Whittle Lane Site Address: Land Off Whittle Lane, Heywood, Lancashire, OL10 2QL Correspondence Address: -	Type of Site: Use of waste for reclamation etc 100,000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOP058 EPR reference: EA/EPR/CB3708TM/A001 Operator: P Casey Enviro Ltd Waste Management licence No: 402303 Annual Tonnage: 100000	Issue Date: 03/06/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
B	38m S	Site Name: Land Off Whittle Lane Site Address: Land Off Whittle Lane, Land Off Whittle Lane, Heywood, Lancashire, OL10 2QL Correspondence Address: -	Type of Site: Use of waste in a deposit for recovery op Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 654740 EPR reference: EA/EPR/CB3708TM Operator: P. Casey Enviro Limited Waste Management licence No: 402303 Annual Tonnage: 0	Issue Date: 03/06/2015 Effective Date: 03/06/2015 Modified: 03/06/2015 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Surrendered
M	497m NW	Site Name: Hareshill Farm Equestrian Centre Site Address: Hareshill Farm, Hareshill Road, Pilsworth, Heywood, Lancashire, OL10 2TB Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PCE006 EPR reference: EA/EPR/KB3603LV/V003 Operator: P Casey Enviro Ltd Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: - Modified: 07/06/2022 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Modified

ID	Location	Details		
M	497m NW	Site Name: Hareshill Farm Equestrian Centre Site Address: Hareshill Farm Equestrian Centre, Hareshill Road, Pilsworth, Heywood, Lancashire, OL10 2TB Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PCE006 EPR reference: EA/EPR/CB3738AC/A001 Operator: P Casey Enviro Ltd Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued
M	497m NW	Site Name: Hareshill Farm Site Address: - Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: PCE006 EPR reference: EA/EPR/KB3603LV/T001 Operator: Russells South Heywood Limited Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: - Modified: 06/09/2021 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Transferred
M	497m NW	Site Name: Hareshill Farm Equestrian Centre Site Address: Hareshill Farm, Hareshill Road, Pilsworth, Heywood, Lancashire, OL10 2TB Correspondence Address: -	Type of Site: Deposit of waste to land as a recovery operation Size: >= 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 638494 EPR reference: EA/EPR/KB3603LV Operator: P. Casey Enviro Limited Waste Management licence No: 103489 Annual Tonnage: 306000	Issue Date: 08/03/2012 Effective Date: 08/03/2012 Modified: 08/03/2012 Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

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

3.7 Waste exemptions

Records within 500m	**125**

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 30 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	**On site**	**Lower Whittle Farm Doctor Fold Lane HEYWOOD Lancashire OL10 2QE**	**EPR/VE5746KJ /A001**	**Storing waste exemption**	**Non-Agricultural Waste Only**	**Storage of sludge**
A	**On site**	**40, DOCTOR FOLD LANE, HEYWOOD, OL10 2QE**	**WEX230602**	**Using waste exemption**	**On a Farm**	**Use of waste in construction**
A	**On site**	**40, DOCTOR FOLD LANE, HEYWOOD, OL10 2QE**	**WEX230602**	**Treating waste exemption**	**On a Farm**	**Screening and blending of waste**
2	25m SW	Lower Whittle Farm Heywood Lancasshire OL10 2QE	EPR/WE5387 WT/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
3	32m E	Siddal Farm (Mr A Fletcher) Manchester Road Lancashire OL10 2QB	EPR/PE5587V U/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste for a specified purpose
4	51m S	P Casey Enviro Ltd Whittle Lane HEYWOOD Lancashire OL10 2RB	EPR/JE5443ZZ/ A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
C	53m NE	-	WEX349762	Using waste exemption	Not on a farm	Use of waste in construction
C	59m NE	-	WEX120322	Storing waste exemption	On a farm	Storage of sludge
C	59m NE	-	WEX091295	Storing waste exemption	On a farm	Storage of sludge
D	67m NE	-	WEX233199	Storing waste exemption	On a Farm	Storage of sludge
D	67m NE	-	WEX145378	Storing waste exemption	On a farm	Storage of sludge
D	67m NE	Collop Gate Farm HEYWOOD OL10 2QR	EPR/LE5152W U/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	67m NE	-	WEX249339	Storing waste exemption	On a farm	Storage of sludge
E	86m SE	Siddal Fold Farm Manchester Road Heywood Lancashire OL10 2QB	EPR/JE5244PB /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
F	88m NE	-	WEX233202	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
F	88m NE	-	WEX145380	Storing waste exemption	On a farm	Storage of sludge
F	88m NE	-	WEX249340	Storing waste exemption	On a farm	Storage of sludge
F	88m NE	-	WEX298569	Storing waste exemption	On a Farm	Storage of sludge
E	89m SE	-	WEX278688	Storing waste exemption	On a Farm	Storage of sludge
E	93m SE	-	WEX364114	Storing waste exemption	On a farm	Storage of sludge
5	108m NE	Siddal Fold Farm Manchester Road Heywood Lancashire OL10 2QB	EPR/EE5644PM/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
6	118m S	GRANGE FARM, WHITTLE LANE, HEYWOOD, OL10 2RB	WEX281290	Using waste exemption	On a Farm	Use of waste in construction
7	156m NE	-	WEX360486	Using waste exemption	Not on a farm	Use of waste in construction
8	179m SE	RIVERS LANE, URMSTON, MANCHESTER, M41 7JB	WEX092451	Storing waste exemption	On a farm	Storage of sludge
G	203m E	-	WEX323651	Storing waste exemption	On a farm	Storage of sludge
9	203m NE	-	WEX112726	Storing waste exemption	On a farm	Storage of sludge
10	208m N	-	WEX119993	Storing waste exemption	On a farm	Storage of sludge
G	217m E	Siddal Fold Farm Manchester Road Heywood Lancashire OL10 2QB	EPR/EE5844PK/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
H	222m NE	-	WEX233201	Storing waste exemption	On a Farm	Storage of sludge
H	222m NE	-	WEX122898	Storing waste exemption	On a farm	Storage of sludge
H	222m NE	-	WEX101444	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
H	222m NE	Collop Gate Farm HEYWOOD Lancashire OL10 2QR	EPR/ME5552 WN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
G	222m E	SIDDAL FOLD FARM, MANCHESTER ROAD, HEYWOOD, OL10 2QB	WEX123937	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	222m E	SIDDAL FOLD FARM, MANCHESTER ROAD, HEYWOOD, OL10 2QB	WEX123937	Using waste exemption	On a farm	Use of waste for a specified purpose
G	222m E	SIDDAL FOLD FARM, MANCHESTER ROAD, HEYWOOD, OL10 2QB	WEX078195	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
G	222m E	SIDDAL FOLD FARM, MANCHESTER ROAD, HEYWOOD, OL10 2QB	WEX078195	Using waste exemption	On a farm	Use of waste for a specified purpose
I	222m SW	WHITTLEFOLD FARM, WHITTLE LANE, HEYWOOD, OL10 2RD	WEX202425	Using waste exemption	Not on a farm	Use of waste in construction
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste food
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Screening and blending of waste
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste derived biodiesel as fuel
I	238m SW	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Storing waste exemption	On a Farm	Storage of waste in a secure place
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Using waste exemption	On a Farm	Use of waste in construction
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of mulch
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste for a specified purpose
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Storing waste exemption	On a farm	Storage of waste in a secure place
I	243m SW	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Using waste exemption	On a farm	Use of waste in construction
12	283m N	RIVERS LANE, URMSTON, MANCHESTER, M41 7JB	WEX096761	Storing waste exemption	On a farm	Storage of sludge
J	286m SW	-	WEX207757	Storing waste exemption	On a Farm	Storage of sludge
J	286m SW	-	WEX207757	Disposing of waste exemption	On a Farm	Burning waste in the open
J	286m SW	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
J	286m SW	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
J	286m SW	-	WEX207757	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
J	286m SW	-	WEX207757	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
J	286m SW	-	WEX207757	Treating waste exemption	On a Farm	Recovery of scrap metal

ID	Location	Site	Reference	Category	Sub-Category	Description
J	286m SW	-	WEX207757	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	286m SW	-	WEX207757	Treating waste exemption	On a Farm	Screening and blending of waste
J	286m SW	-	WEX207757	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
J	286m SW	-	WEX207757	Using waste exemption	On a Farm	Use of mulch
J	286m SW	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on non-agricultural land to confer benefit
J	286m SW	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
J	286m SW	-	WEX336737	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
J	286m SW	-	WEX336737	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit
J	286m SW	-	WEX336737	Using waste exemption	On a farm	Use of mulch
J	286m SW	-	WEX336737	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
J	286m SW	-	WEX336737	Treating waste exemption	On a farm	Screening and blending of waste
J	286m SW	-	WEX336737	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	286m SW	-	WEX336737	Treating waste exemption	On a farm	Recovery of scrap metal
J	286m SW	-	WEX336737	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
J	286m SW	-	WEX336737	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal

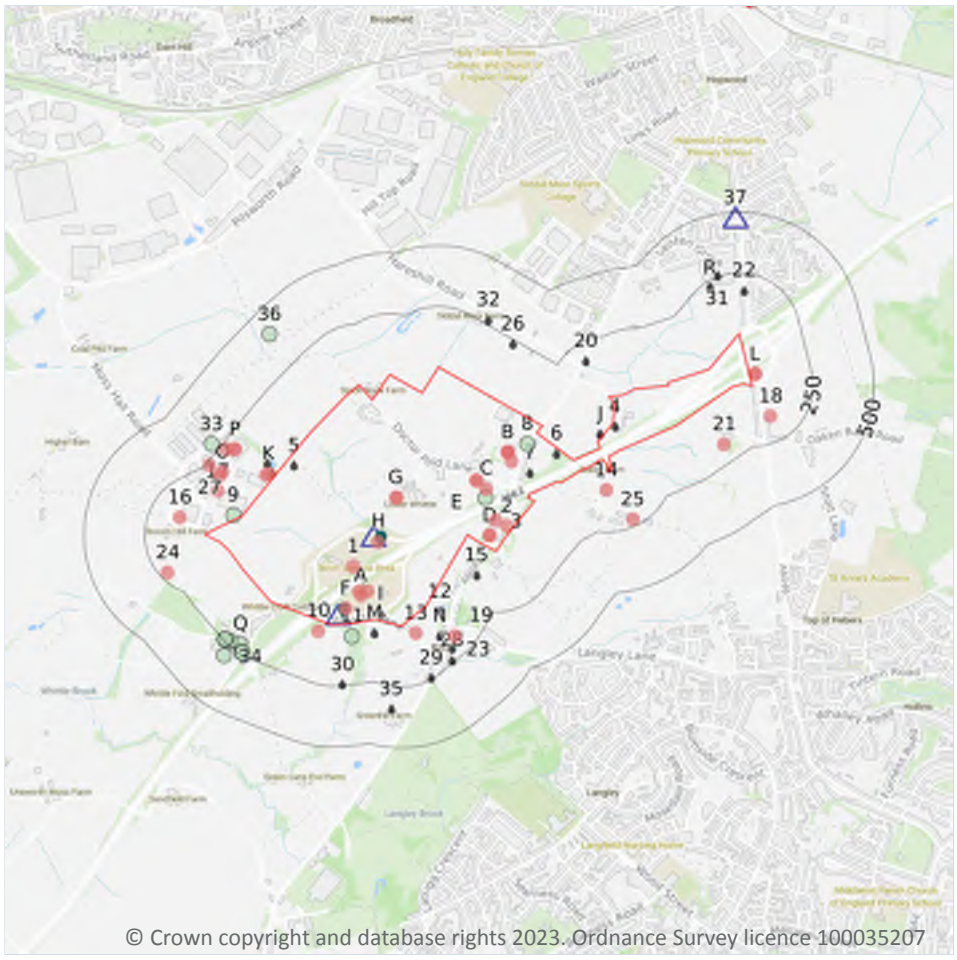
ID	Location	Site	Reference	Category	Sub-Category	Description
J	286m SW	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
J	286m SW	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
J	286m SW	-	WEX336737	Disposing of waste exemption	On a farm	Burning waste in the open
J	286m SW	-	WEX336737	Storing waste exemption	On a farm	Storage of sludge
13	291m E	10-14 Middleton Road HEYWOOD Lancashire OL10 2HT	EPR/LF0205KW/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
K	321m SW	Wittle Brook Farm Wittle Lane Heywood OL10 2RN	EPR/RE5549EN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
K	321m SW	Hesketh Villa Whittle Lane HEYWOOD Lancashire OL10 2RN	EPR/SE5956FR/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
K	330m SW	-	WEX233836	Storing waste exemption	On a Farm	Storage of sludge
K	330m SW	-	WEX138347	Storing waste exemption	On a farm	Storage of sludge
K	330m SW	-	WEX087102	Storing waste exemption	On a farm	Storage of sludge
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Disposing of waste exemption	On a farm	Burning waste in the open
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Storing waste exemption	On a farm	Storage of waste in secure containers
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Storing waste exemption	On a farm	Storage of waste in a secure place
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment

ID	Location	Site	Reference	Category	Sub-Category	Description
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Treating waste exemption	On a farm	Screening and blending of waste
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Use of waste in construction
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Use of mulch
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Incorporation of ash into soil
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
L	465m NE	Collopgate Farm, Manchester Road, Rochdale, OL10 2PX	WEX102427	Using waste exemption	On a farm	Use of waste for a specified purpose
L	465m NE	-	WEX245590	Storing waste exemption	On a farm	Storage of waste in a secure place
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Use of waste in construction
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Use of waste for a specified purpose
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Use of mulch
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
L	465m NE	-	WEX245590	Using waste exemption	On a farm	Incorporation of ash into soil
L	465m NE	-	WEX245590	Treating waste exemption	On a farm	Screening and blending of waste
L	465m NE	-	WEX245590	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
L	465m NE	-	WEX245590	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
L	465m NE	-	WEX245590	Disposing of waste exemption	On a farm	Burning waste in the open
L	465m NE	-	WEX245590	Storing waste exemption	On a farm	Storage of waste in secure containers
15	497m SW	Whittle Dairy Farm Heywood Lancashire ol10 2rd	EPR/ZE5880ZF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
N	497m W	-	WEX227640	Storing waste exemption	On a Farm	Storage of sludge
N	497m W	-	WEX151549	Storing waste exemption	On a Farm	Storage of sludge
N	497m W	-	WEX356548	Storing waste exemption	On a farm	Storage of sludge
N	497m W	-	WEX259862	Storing waste exemption	On a farm	Storage of sludge
N	497m W	-	WEX292468	Storing waste exemption	On a farm	Storage of sludge

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	40

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Birch Eastbound Motorway Service Area**	**Greater Manchester, OL10**	**Motorway Service Stations**	**Road and Rail**
2	**On site**	**Electricity Sub Station**	**Greater Manchester, OL10**	**Electrical Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
3	On site	Business Centre	Greater Manchester, OL10	Business Parks and Industrial Estates	Industrial Features
A	On site	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
A	On site	Birch Westbound Motorway Service Area	Greater Manchester, OL10	Motorway Service Stations	Road and Rail
A	On site	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
B	On site	R G Motors	Unit 1 Birch Garage, Manchester Road, Heywood, Greater Manchester, OL10 2QD	Secondhand Vehicles	Motoring
B	On site	Birch Garages Ltd	Unit 4, Manchester Road, Heywood, Greater Manchester, OL10 2QD	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	On site	Concept Assist	Unit 4 Birch Garage, Manchester Road, Heywood, Greater Manchester, OL10 2QD	Vehicle Repair, Testing and Servicing	Repair and Servicing
B	On site	Birch Flooring	Birch Garage, Manchester Road, Heywood, Greater Manchester, OL10 2QD	Construction Completion Services	Construction Services
B	On site	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
C	On site	Viking Coaches	Doctor Fold Farm, Doctor Fold Lane, Heywood, Greater Manchester, OL10 2QE	Vehicle Hire and Rental	Hire Services
D	On site	J Lewis & Co Ltd	Birch Mill Business Centre, Heywood Old Road, Middleton, Greater Manchester, OL10 2QQ	Carpets, Flooring, Rugs and Soft Furnishings	Consumer Products
D	On site	Embossing Rollers Ltd	Unit 1e Birch Mill Business Centre, Heywood Old Road, Middleton, Greater Manchester, OL10 2QQ	Stationery, Stamps, Tags and Labels	Industrial Products
E	On site	O B Trucks Ltd	Birch House, Doctor Fold Lane, Heywood, Greater Manchester, OL10 2QE	Vehicle Breakdown and Recovery Services	Personal, Consumer and Other Services
E	On site	Sovereign Bedrooms & Kitchens Ltd	Unit 1 Birch House, Doctor Fold Lane, Heywood, Greater Manchester, OL10 2QE	Furniture	Consumer Products
F	On site	BP Service Station	Birch West Motorway Services, M62 Motorway, Heywood, Greater Manchester, OL10 2QH	Petrol and Fuel Stations	Road and Rail
G	On site	Pylon	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
G	**On site**	**Mast**	**Greater Manchester, OL10**	**Telecommunications Features**	**Infrastructure and Facilities**
H	**On site**	**M62 Birch Moto Motorway Service Area Eastbound**	**M62 J18-19, Birch, Heywood, Greater Manchester, OL10 2QE**	**Petrol and Fuel Stations**	**Road and Rail**
L	21m E	Pumping Station	Greater Manchester, OL10	Water Pumping Stations	Industrial Features
L	23m E	Sewage Pumping Station	Greater Manchester, OL10	Waste Storage, Processing and Disposal	Infrastructure and Facilities
K	26m W	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
K	29m W	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
10	42m SW	Mast (Telecommunication)	Greater Manchester, OL10	Telecommunications Features	Infrastructure and Facilities
13	60m S	M & S Commercials Ltd	3, Whittle Lane, Heywood, Greater Manchester, OL10 2RB	Vehicle Repair, Testing and Servicing	Repair and Servicing
14	78m E	Vehicle Concepts	Holly Bungalow, Manchester Road, Heywood, Greater Manchester, OL10 2QB	Vehicle Repair, Testing and Servicing	Repair and Servicing
16	126m W	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
17	135m W	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
18	147m E	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
19	170m S	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
21	176m E	Acorn Dairy	Oakridge Farm, Hollin Lane, Middleton, Greater Manchester, M24 6XW	Dairy Farming	Farming
O	176m W	G J D Manufacturing	Unit 2 Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Special Purpose Machinery and Equipment	Industrial Products
O	178m W	Suilvision Ltd	Unit E Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Photographic and Optical Equipment	Household, Office, Leisure and Garden

ID	Location	Company	Address	Activity	Category
P	197m W	Archbold Logistics Ltd	Unit H Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery
P	197m W	Delice de France	Unit H Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery
24	219m W	Pump House	Greater Manchester, OL10	Water Pumping Stations	Industrial Features
25	222m E	Siddal Fold Farm	Siddal Fold Farm, Manchester Road, Heywood, Greater Manchester, OL10 2QB	Livestock Farming	Farming
P	223m W	Birch Business Park	Greater Manchester, OL10	Business Parks and Industrial Estates	Industrial Features
27	234m W	Ital Logistics	Unit 1 Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**3**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Company	Address	LPG	Status
F	**On site**	**BP**	**M62 J18-19, Birch, Heywood, Greater Manchester, OL10 2QH**	**No**	**Open**
H	**On site**	**BP**	**M62 J18-19, Birch, Heywood, Greater Manchester, OL10 2QH**	**No**	**Open**
37	477m NE	TEXACO	Middleton Road, Coronation Avenue, Heywood, Greater Manchester, OL10 2LU	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	2

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

Features are displayed on the Current industrial land use map on **page 43 >**

ID	Location	Address	Details	
F	**On site**	**Moto Hospitality Ltd, Birch Services (West), Heywood Old Road, Heywood, Lancashire, OL10 2QH**	**Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B**	**Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified**
H	**On site**	**Moto Hospitality Ltd, Birch Services (East), Heywood Old Road, Heywood, Lancashire, OL10 2QH**	**Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B**	**Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified**

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	31

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 43 >**

ID	Location	Address	Details	
4	**On site**	**MIDDLETON RD PS, HEYWOOD, ROCHDALE, GREATER MANCHESTER**	**Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016982942 Permit Version: 1 Receiving Water: WHITTLE BROOK**	**Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 17/11/1995 Revocation Date: 16/12/2013**
5	**On site**	**LONDON CARRIERS LTD, BIRCH, HEYWOOD, LANCASHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990242 Permit Version: 1 Receiving Water: TRIB WHITTLE BROOK**	**Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 01/11/1980 Revocation Date: 01/10/1996**
6	**On site**	**BIRCH HOTEL, MANCHESTER ROAD, HEYWOOD, LANCASHIRE**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0172/1689 Permit Version: 1 Receiving Water: WHITTLE BROOK**	**Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 06/03/1972 Revocation Date: -**
7	**On site**	**DOCTOR FOLD STW, BIRCH, HEYWOOD, GREATER MANCHESTER**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016982224 Permit Version: 1 Receiving Water: WHITTLE BROOK**	**Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 10/10/1990 Revocation Date: -**

ID	Location	Address	Details	
I	**On site**	**1 & 3 WHITTLE LA, HEYWOOD, LANCASHIRE, OL10 2RB**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0170/1195 Permit Version: 1 Receiving Water: WHITTLE BROOK**	**Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/02/1970 Effective Date: 17/02/1970 Revocation Date: -**
I	**On site**	**1 & 3 WHITTLE LA, HEYWOOD, LANCASHIRE, OL10 2RB**	**Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0170/1195 Permit Version: 1 Receiving Water: WHITTLE BROOK**	**Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/02/1970 Effective Date: 17/02/1970 Revocation Date: -**
J	11m E	MIDDLETON RD PS, HEYWOOD, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016982942 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/08/2013 Effective Date: 17/12/2013 Revocation Date: -
J	11m E	MIDDLETON RD PS, HEYWOOD, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016982942 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 14/08/2013 Effective Date: 17/12/2013 Revocation Date: -
K	16m W	YEARGATE LTD, BIRCH INDUSTRIAL PARK, WHITTLE LANE, HEYWOOD, GREATER MANCHESTER, OL10 2SX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993303 Permit Version: 1 Receiving Water: SURF WTR DRN TO TRIB WHITTL BK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/11/1998 Effective Date: 06/11/1998 Revocation Date: -
M	53m S	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991289 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/12/1988 Revocation Date: 31/10/1994
M	53m S	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991289 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1900 Revocation Date: 22/12/1988

ID	Location	Address	Details	
M	53m S	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016991289 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/12/1988 Revocation Date: 31/10/1994
M	53m S	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016991289 Permit Version: 3 Receiving Water: WHITTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1994 Revocation Date: -
K	57m W	UNIT K BIRCH IND.EST, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991177 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 02/09/1987 Revocation Date: 01/10/1996
12	59m S	ST MARY'S CHURCH, LANGLEY LANE, BIRCH-IN-HOPWOOD, MIDDLETON, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991065 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 20/12/1985 Revocation Date: -
15	114m SE	759/763 HEYWOOD OLD ROAD STP, MIDDLETON, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990360 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 05/05/1982 Revocation Date: -
N	130m S	622 & 624 HEYWOOD ROAD, MIDDLETON, MANCHESTER, OL10 2QL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0171/1339 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/01/1971 Effective Date: 25/01/1971 Revocation Date: -
N	130m S	622 & 624 HEYWOOD ROAD, MIDDLETON, MANCHESTER, OL10 2QL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0171/1339 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/01/1971 Effective Date: 25/01/1971 Revocation Date: -

ID	Location	Address	Details	
N	131m S	WHITE HART HOTEL, 701 HEYWOOD OLD ROAD, BIRCH, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991441 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 11/08/1989 Revocation Date: -
20	175m NE	WHITEHOUSE FIELDS PS, HEYWOOD, ROCHDALE, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016982947 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 23/06/1995 Revocation Date: -
22	178m NE	MIDDLETON ROAD CSO, REAR OF NORTHOLT FOLD, HEYWOOD, GREATER MANCHESTER, OL10 2WH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0033 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 31/08/2013
23	201m S	614 HEYWOOD OLD RD, BIRCH, HEYWOOD, LANCASHIRE, OL10 2QN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0168/934 Permit Version: 1 Receiving Water: UNKNOWN	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 30/10/1968 Effective Date: 30/10/1968 Revocation Date: -
R	223m NE	MIDDLETON ROAD CSO, REAR OF NORTHOLT FOLD, HEYWOOD, GREATER MANCHESTER, OL10 2WH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0033 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 26/03/2010 Effective Date: 31/08/2013 Revocation Date: 26/11/2019
R	226m NE	MIDDLETON ROAD CSO, REAR OF NORTHOLT FOLD, HEYWOOD, GREATER MANCHESTER, OL10 2WH	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: NPSWQD010709 Permit Version: 1 Receiving Water: WHITTLE BROOK VIA SWS	Status: VARIED UNDER EPR 2010 Issue date: 27/11/2019 Effective Date: 27/11/2019 Revocation Date: -
26	232m NE	HARESHILL ROAD (1/3/5), HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990481 Permit Version: 1 Receiving Water: WHITTLE BROOK (RIVER ROCH	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 27/04/1984 Revocation Date: -

ID	Location	Address	Details	
28	239m S	600, 602,604,606 HEYWOOD OLD RD, MIDDLETON, MANCHESTER, M24 4GS	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0174/2101 Permit Version: 1 Receiving Water: TRIB OF WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 01/02/1974 Effective Date: 01/02/1974 Revocation Date: -
29	244m S	588 HEYWOOD OLD RD, BIRCH, HEYWOOD, LANCASHIRE, OL10 2QN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0169/1134 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 14/11/1969 Effective Date: 14/11/1969 Revocation Date: -
30	247m S	GREEN LANE END FARM SWO, HAYWARD OLD ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991437 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 01/07/1991
31	254m NE	BIRTH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 01ROC0181 Permit Version: 1 Receiving Water: -	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 01/01/1995 Revocation Date: 01/01/1995
32	270m N	SIDDAL MOOR FARM, HARESHILL ROAD, HEYWOOD, LANCASHIRE, OL10 2TB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0172/1669 Permit Version: 1 Receiving Water: UNKNOWN	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 09/02/1972 Effective Date: 09/02/1972 Revocation Date: -
35	343m S	590 HEYWOOD RD BIRCH, BIRCH, HEYWOOD, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0169/1133 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 14/11/1969 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	16

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 43 >**

ID	Location	Details	
8	**On site**	**Incident Date: 20/05/2002** **Incident Identification: 79977** **Pollutant: Sewage Materials** **Pollutant Description: Final Effluent**	**Water Impact: Category 3 (Minor)** **Land Impact: Category 4 (No Impact)** **Air Impact: Category 4 (No Impact)**
C	**On site**	**Incident Date: 15/02/2020** **Incident Identification: 1781845** **Pollutant: Inert Materials and Wastes** **Pollutant Description: Construction and Demolition Materials and Wastes**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 2 (Significant)** **Air Impact: Category 4 (No Impact)**
9	19m W	Incident Date: 05/11/2002 Incident Identification: 121012 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	51m SW	Incident Date: 21/07/2002 Incident Identification: 93262 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
Q	213m SW	Incident Date: 19/04/2001 Incident Identification: 2774 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	234m SW	Incident Date: 26/09/2001 Incident Identification: 33123 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	239m SW	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Commercial Waste:Household Waste:Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	239m SW	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	239m SW	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
Q	239m SW	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	245m SW	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	245m SW	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
Q	245m SW	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
33	284m W	Incident Date: 22/09/2003 Incident Identification: 193616 Pollutant: Organic Chemicals/Products Pollutant Description: Dyes and Inks	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
34	294m SW	Incident Date: 03/05/2002 Incident Identification: 76525 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
36	402m NW	Incident Date: 22/07/2002 Incident Identification: 93563 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

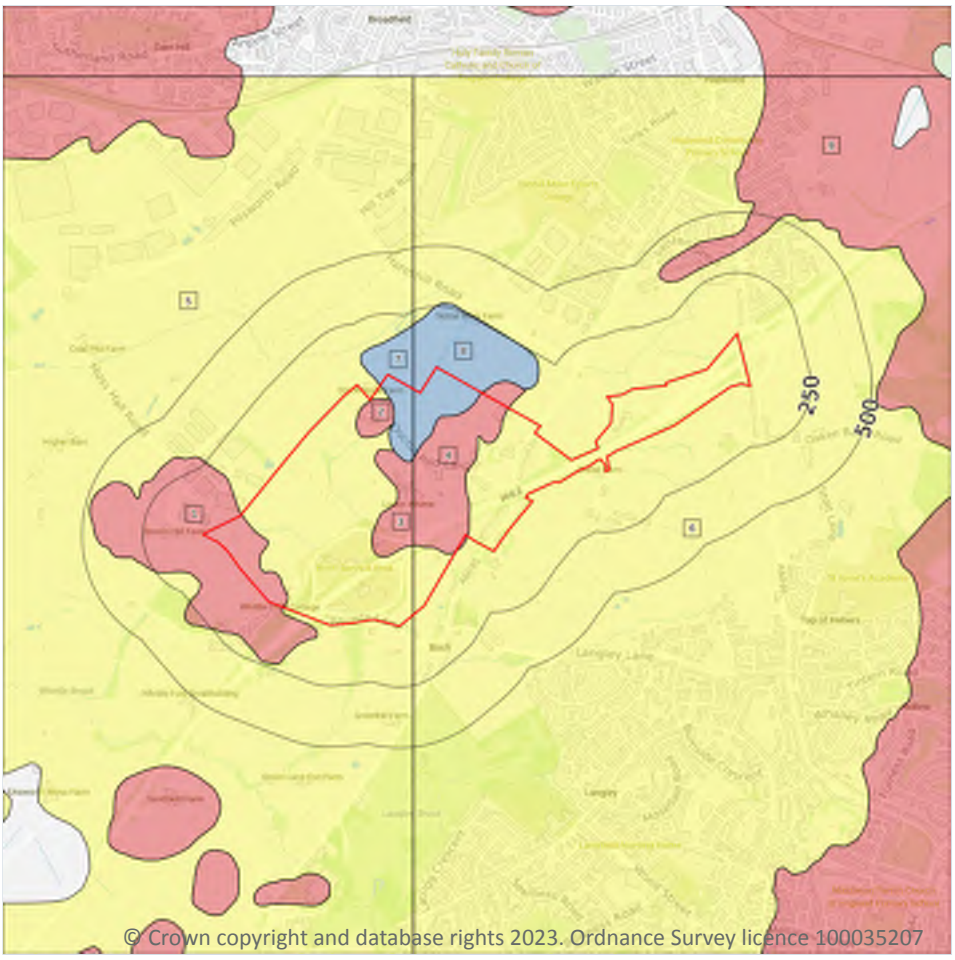
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	9

Aquifer status of groundwater held within superficial geology.

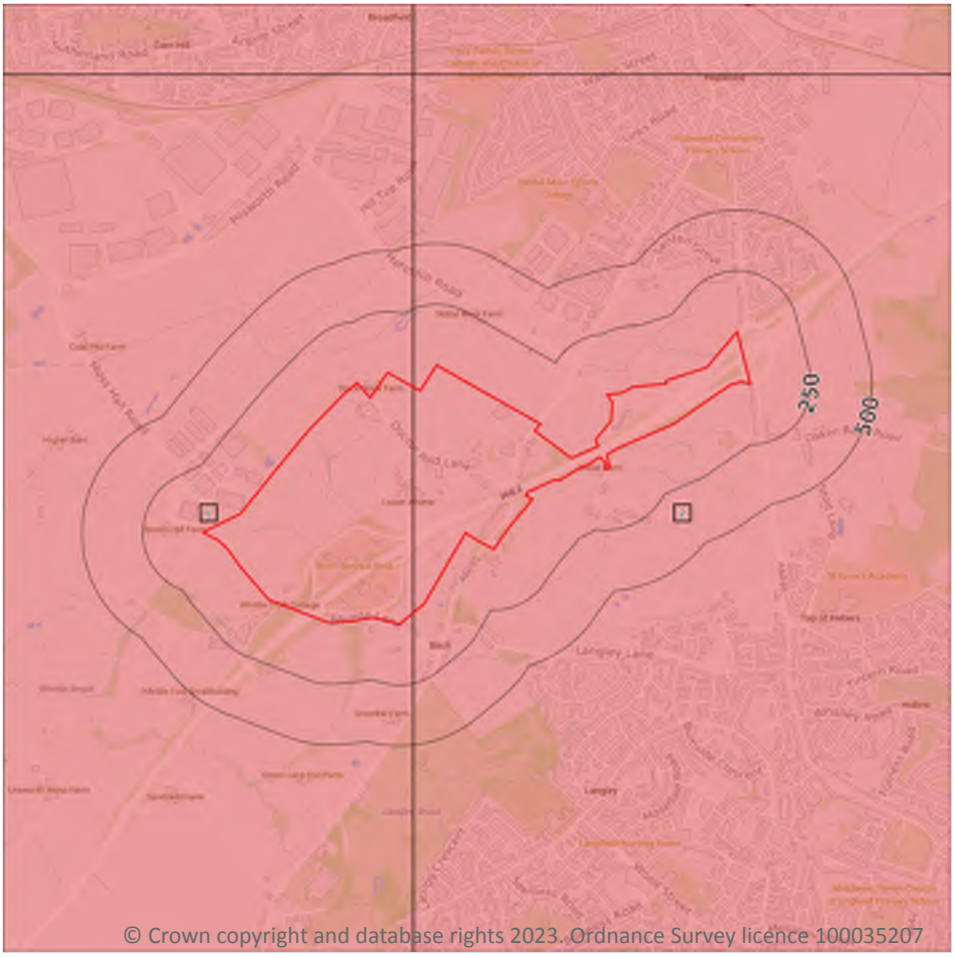
Features are displayed on the Hydrogeology map on **page 58 >**

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	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

ID	Location	Designation	Description
3	**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**
4	**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**
5	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
6	**On site**	**Secondary Undifferentiated**	**Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type**
7	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
8	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
9	307m NE	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

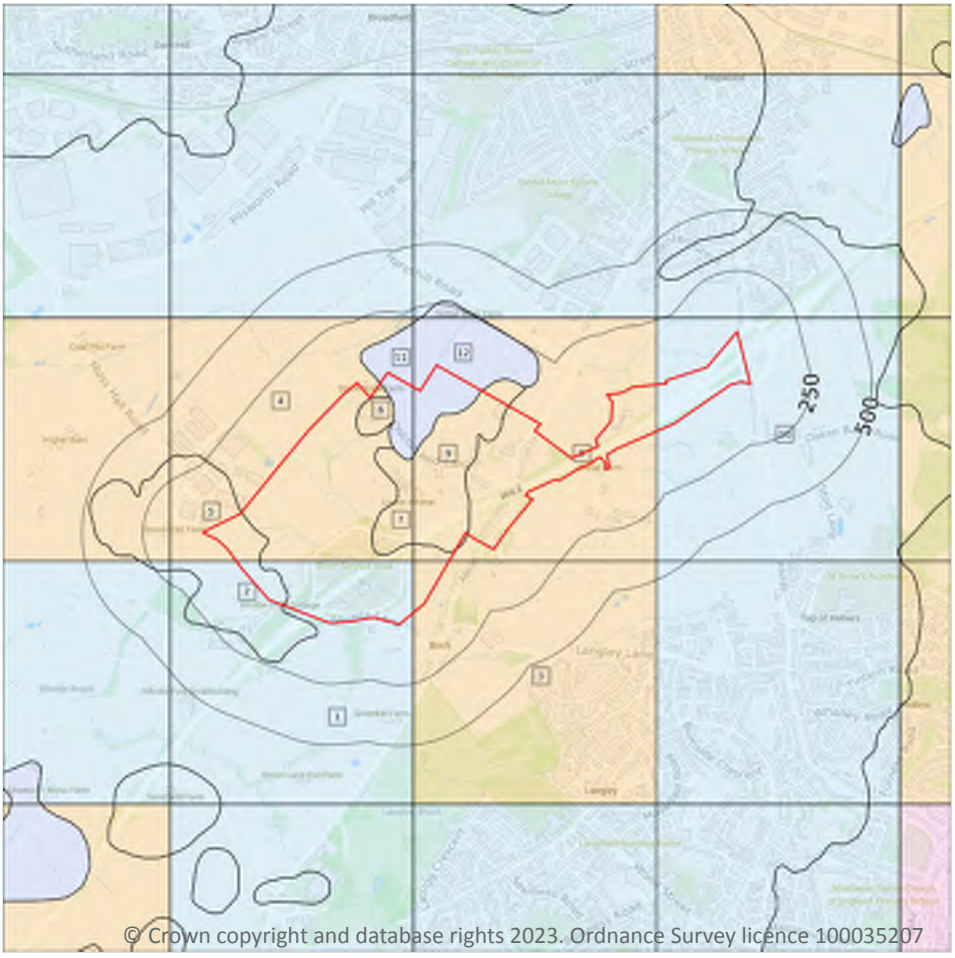
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 60 >**

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

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

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

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

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	12

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 62 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

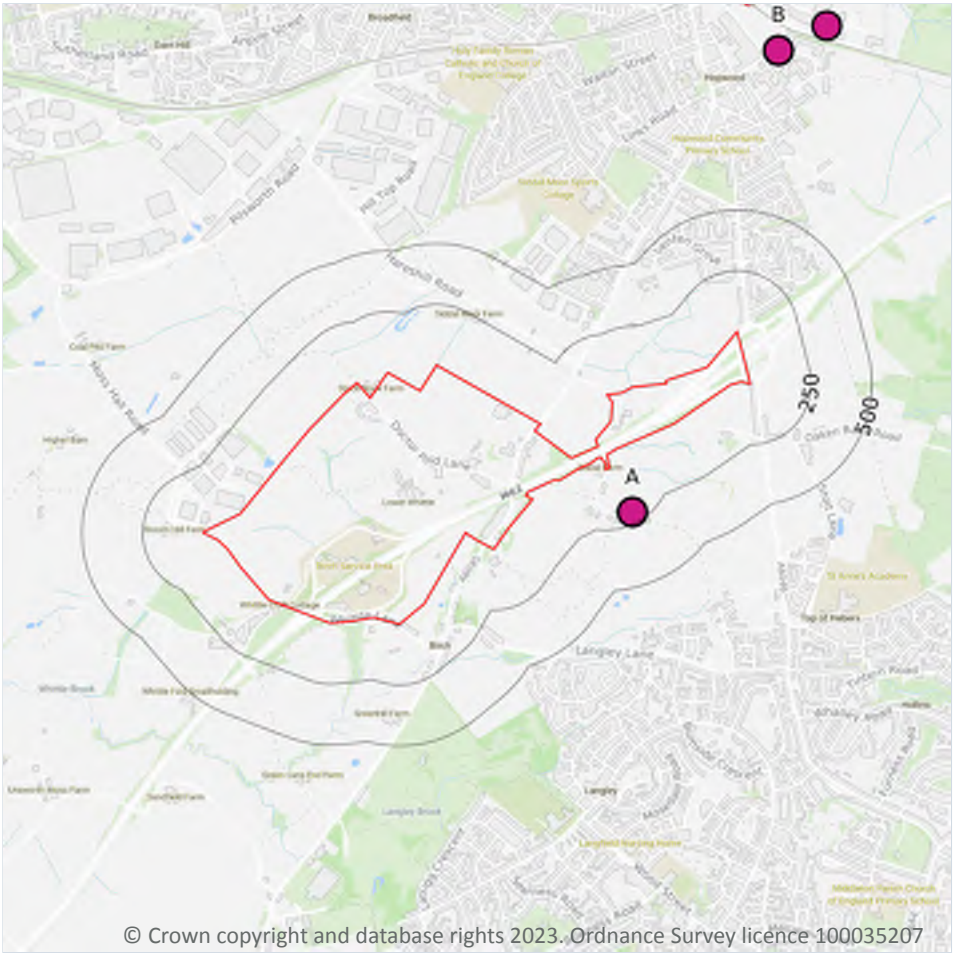
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	19

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 66 >**

ID	Location	Details	
A	205m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SIDDALL FOLD FARM,BIRCH" Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
A	205m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM,BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
A	205m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM, BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
B	1169m NE	Status: Active Licence No: 2569002029 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD Data Type: Point Name: OAK BREWING COMPANY LTD Easting: 386500 Northing: 410100	Annual Volume (m^3): 79645.92 Max Daily Volume (m^3): 218.21 Original Application No: 0203 Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/11/1990 Version End Date: -

ID	Location	Details	
B	1169m NE	Status: Historical Licence No: 2569002029 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD" Data Type: Point Name: OAK BREWING COMPANY LTD Easting: 386500 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/11/1990 Version End Date: -
B	1169m NE	Status: Historical Licence No: 2569002029 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, GREEN LANE, HEYWOOD Data Type: Point Name: OAK BREWING COMPANY LTD Easting: 386500 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/11/1990 Version End Date: -
1	1306m NW	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
2	1310m NE	Status: Historical Licence No: 2569002257 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT GREEN LANE,HEYWOOD Data Type: Point Name: TARMAC TOPMIX LTD Easting: 386700 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 28/06/1993 Expiry Date: - Issue No: 100 Version Start Date: 28/06/1993 Version End Date: -

ID	Location	Details	
-	1662m NE	Status: Historical Licence No: 2569002082 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT PREMISES, ROEACRE TANNERY, HEYWOOD, L97 Data Type: Point Name: G. S. COLD STORAGE AND WAREHOUSING LTD. Easting: 386200 Northing: 410600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2000 Version End Date: -
-	1762m NE	Status: Historical Licence No: 2569002082 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLES (2) AT PREMISES, ROEACRE TANNERY, HEYWOOD Data Type: Point Name: G. S. COLD STORAGE AND WAREHOUSING LTD. Easting: 386200 Northing: 410700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 22/12/2000 Version End Date: -
-	1876m SW	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1876m SW	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
-	1876m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1876m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1876m SW	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
-	1876m SW	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
-	1911m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1911m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	1957m W	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	**12**

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 66 >**

ID	Location	Details	
-	1226m E	Status: Historical Licence No: 2569005053 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: TRUB BRK AT ROCHDALE *34 Data Type: Point Name: THE MANCHESTER GOLF CLUB LTD Easting: 387600 Northing: 408900	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/03/1997 Version End Date: -
-	1226m E	Status: Historical Licence No: 2569005053 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: TRUB BRK AT ROCHDALE Data Type: Point Name: THE MANCHESTER GOLF CLUB LTD Easting: 387600 Northing: 408900	Annual Volume (m^3): 1473 Max Daily Volume (m^3): 26.20 Original Application No: 1704 Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1268m E	Status: Historical Licence No: 2569005053 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: TRUB BRK AT ROCHDALE 122 Data Type: Point Name: THE MANCHESTER GOLF CLUB LTD Easting: 387600 Northing: 409100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/03/1997 Version End Date: -
-	1268m E	Status: Historical Licence No: 2569005053 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: TRUB BRK AT ROCHDALE $122 Data Type: Point Name: THE MANCHESTER GOLF CLUB LTD Easting: 387600 Northing: 409100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 21/03/1997 Version End Date: -
-	1268m E	Status: Historical Licence No: 2569005053 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: TRUB BRK AT ROCHDALE Data Type: Point Name: THE MANCHESTER GOLF CLUB LTD Easting: 387600 Northing: 409100	Annual Volume (m^3): 1473 Max Daily Volume (m^3): 26.20 Original Application No: 1704 Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1571m NE	Status: Historical Licence No: 2569005053 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: TRUB BRK AT ROCHDALE Data Type: Point Name: THE MANCHESTER GOLF CLUB LTD Easting: 387800 Northing: 409500	Annual Volume (m^3): 1473 Max Daily Volume (m^3): 26.20 Original Application No: 1704 Original Start Date: 18/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -
-	1648m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1648m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1648m W	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -

ID	Location	Details	
-	1648m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1648m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1648m W	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	**0**

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

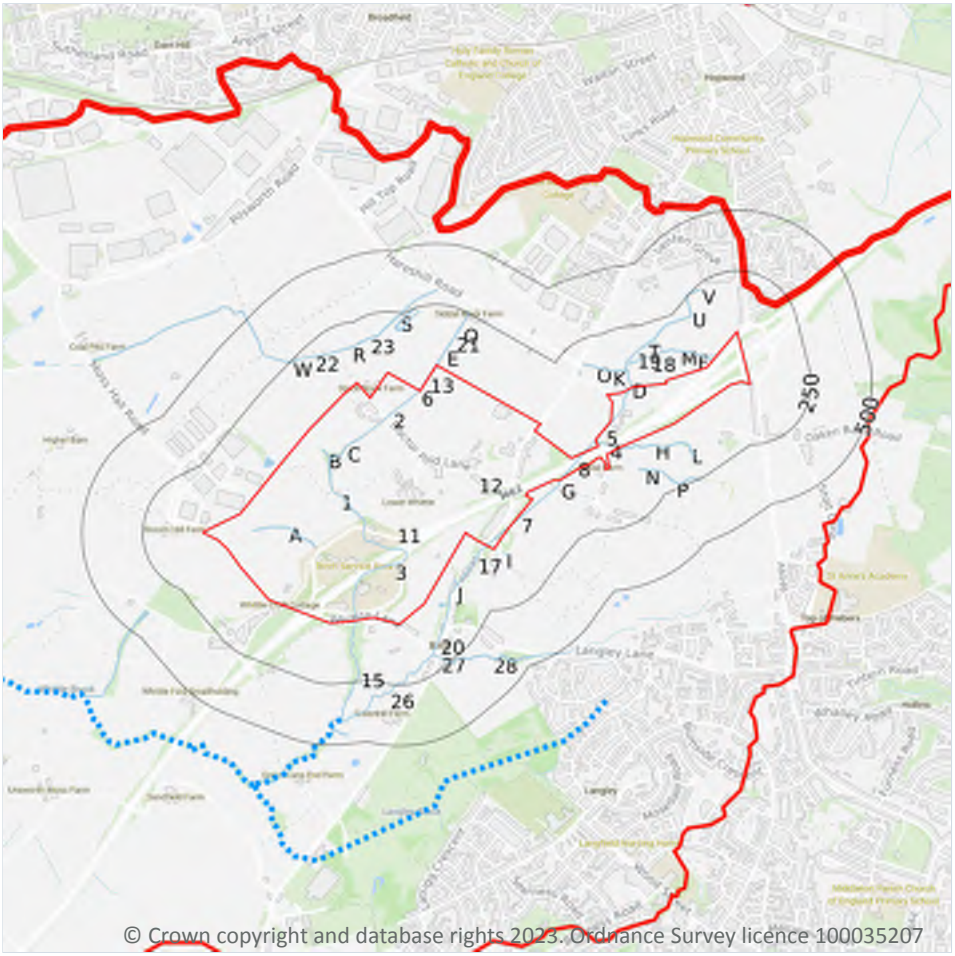
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	72

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 76 >**

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

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
D	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
D	**On site**	**Inland river not influenced by normal tidal action.**	**On ground surface**	**Watercourse contains water year round (in normal circumstances)**	**Whittle Brook**
13	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	1m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	3m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	5m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
H	7m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	10m SW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
17	34m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
I	37m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	54m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	61m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	70m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
J	70m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
J	71m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	72m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
D	73m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
K	73m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	74m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
J	80m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
J	92m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
L	92m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	92m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	93m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	93m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
D	94m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	99m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
18	99m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	101m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	108m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
N	111m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	112m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
19	112m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
M	112m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	112m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
20	116m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
O	122m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
O	127m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	133m E	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
21	134m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
P	136m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	138m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	146m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	155m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
22	159m NW	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
23	159m N	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
T	165m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
T	172m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
T	172m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
T	173m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
26	183m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
27	183m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
U	185m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
T	213m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
V	229m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
V	229m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
V	229m NE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
28	239m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	243m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	29

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 76 >**

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 76 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
11	**On site**	**River**	**Whittle Brook (Irwell)**	**GB112069061250**	**Roch Irk Medlock**	**Irwell**

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

6.4 WFD Surface water bodies

Records identified	**1**

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

Features are displayed on the Hydrology map on **page 76 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
33	399m S	River	Whittle Brook (Irwell)	GB112069061250	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	**1**

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

Features are displayed on the Hydrology map on **page 76 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
12	**On site**	**Northern Manchester Carboniferous Aquifers**	**GB41202G101800 ↗**	**Poor**	**Poor**	**Good**	**2019**

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

7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m	0

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding



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Site Outline
Search buffers in metres (m)

1 in 1000 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period
- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site	**1 in 30 year, Greater than 1.0m**
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 87 >**

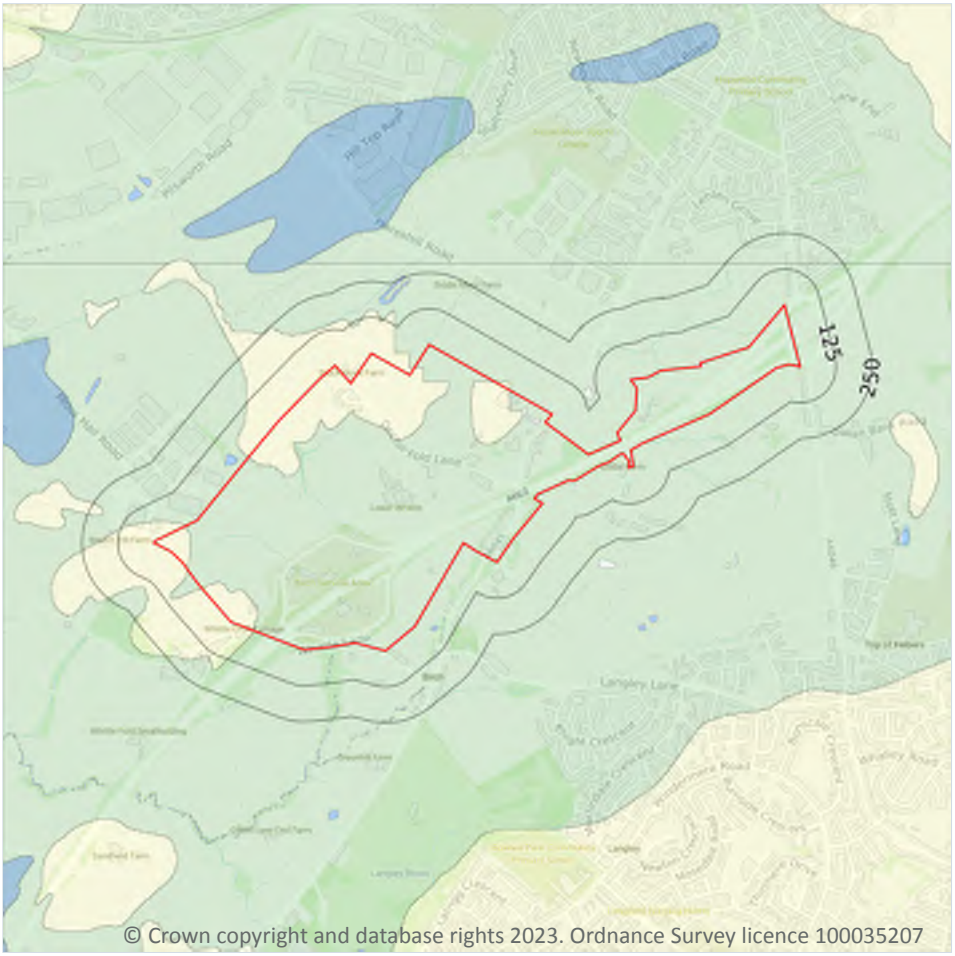
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

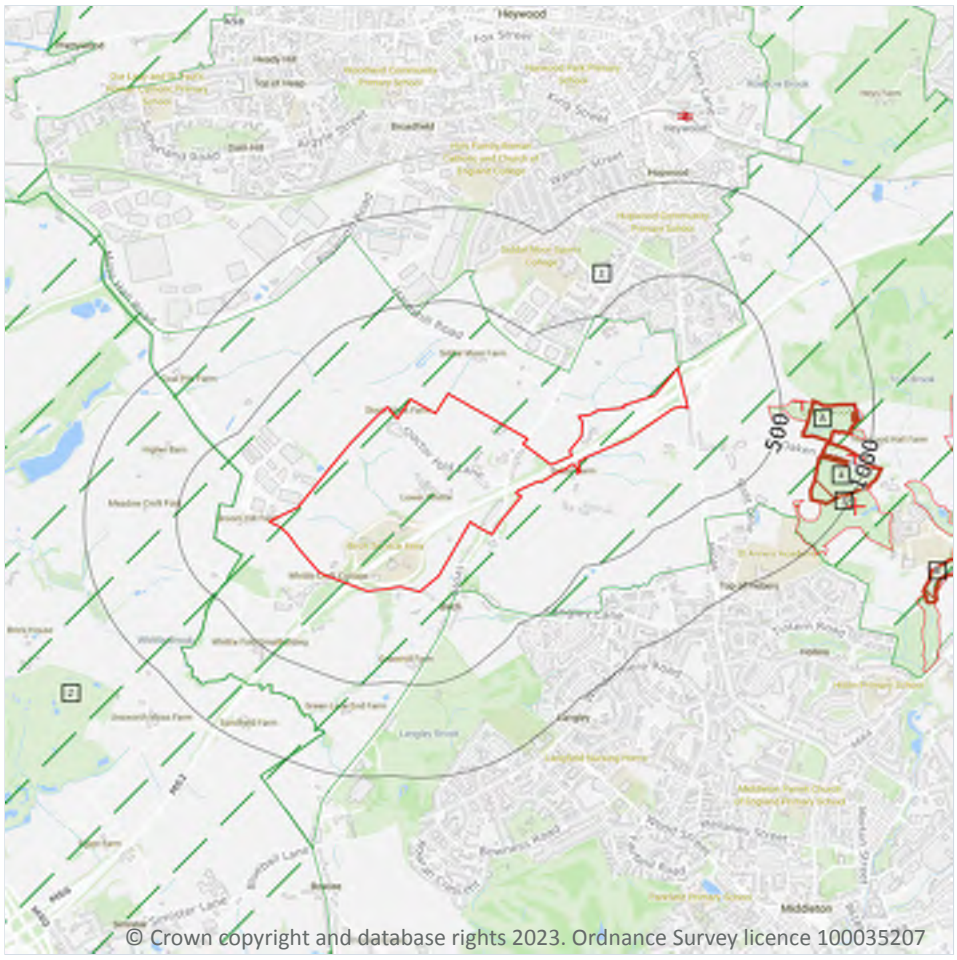
Highest risk on site	**Moderate**
Highest risk within 50m	**Moderate**

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

Features are displayed on the Groundwater flooding map on **page 89 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Sites of Special Scientific Interest (SSSI)

Special Areas of Conservation (SAC)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	1

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.

Features are displayed on the Environmental designations map on **page 90 >**

ID	Location	Name	Data source
-	1829m E	Rochdale Canal	Natural England

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	1

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.

Features are displayed on the Environmental designations map on **page 90 >**

ID	Location	Name	Features of interest	Habitat description	Data source
-	1829m E	Rochdale Canal	Floating water-plantain.	Other land (including Towns, Villages, Roads, Waste places, Mines, Industrial sites); Inland water bodies (Standing water, Running water)	Natural England

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	4

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

Features are displayed on the Environmental designations map on **page 90 >**

ID	Location	Name	Data source
A	430m E	Hopwood Woodlands	Natural England
3	752m E	Hopwood Woodlands	Natural England
B	1235m E	Hopwood Woodlands	Natural England
5	1389m E	Hopwood Woodlands	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	7

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 90 >**

ID	Location	Name	Woodland Type
A	632m E	Oaken Bank Wood	Ancient & Semi-Natural Woodland
4	754m E	Oaken Bank Wood	Ancient & Semi-Natural Woodland

ID	Location	Name	Woodland Type
B	1576m E	Hopwood Clough	Ancient & Semi-Natural Woodland
-	1595m E	Hopwood Clough	Ancient & Semi-Natural Woodland
-	1679m E	Unknown	Ancient & Semi-Natural Woodland
-	1698m E	Unknown	Ancient & Semi-Natural Woodland
-	1707m E	Unknown	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	2

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

Features are displayed on the Environmental designations map on **page 90 >**

ID	Location	Name	Local Authority name
1	**On site**	**Merseyside and Greater Manchester**	**Rochdale**
2	218m W	Merseyside and Greater Manchester	Bury

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

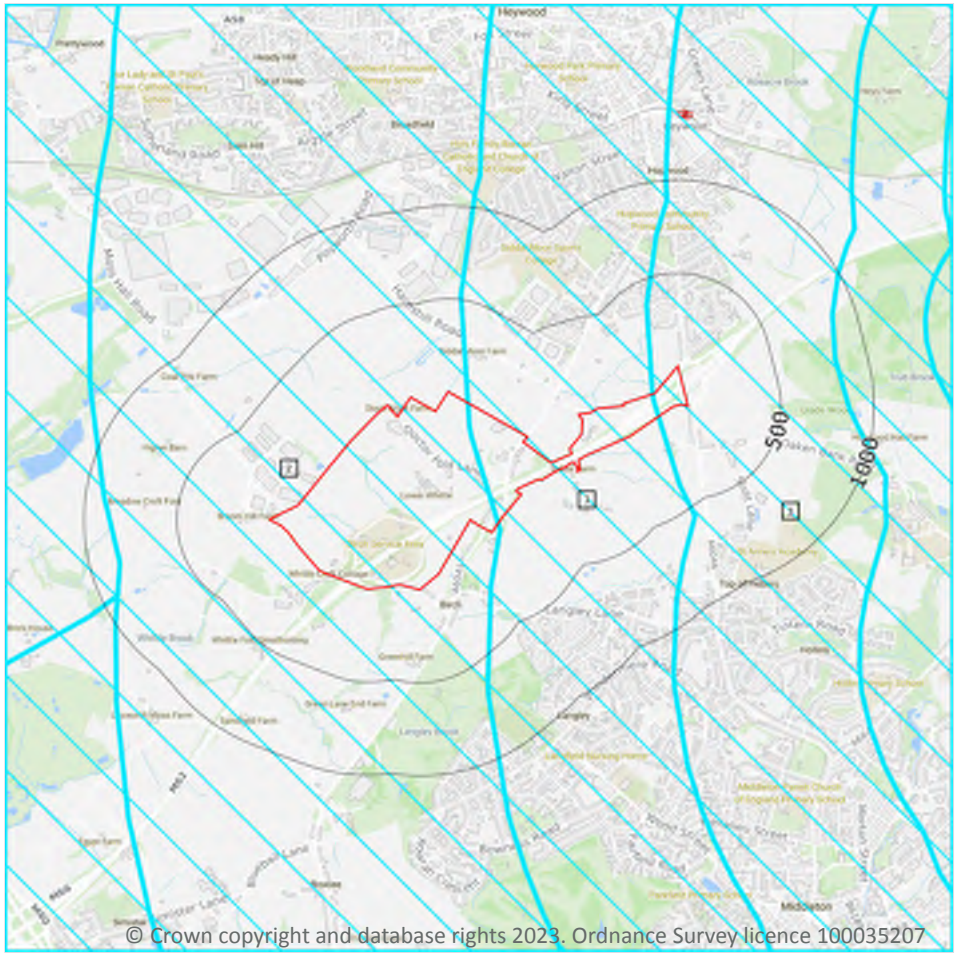
Records within 2000m	4

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

Location	Name	Type	NVZ ID	Status
430m E	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1716m SW	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1758m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1852m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	3

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 96 >**

ID	Location	Type of developments requiring consultation
1	On site	**Infrastructure - Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**
2	On site	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 750m², manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**
3	On site	**Infrastructure - Pipelines and underground cables, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals. Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons & digestate stores > 200m², manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 75000 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where total net additional gross internal floorspace following development is 1,000m² or more.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	1

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.

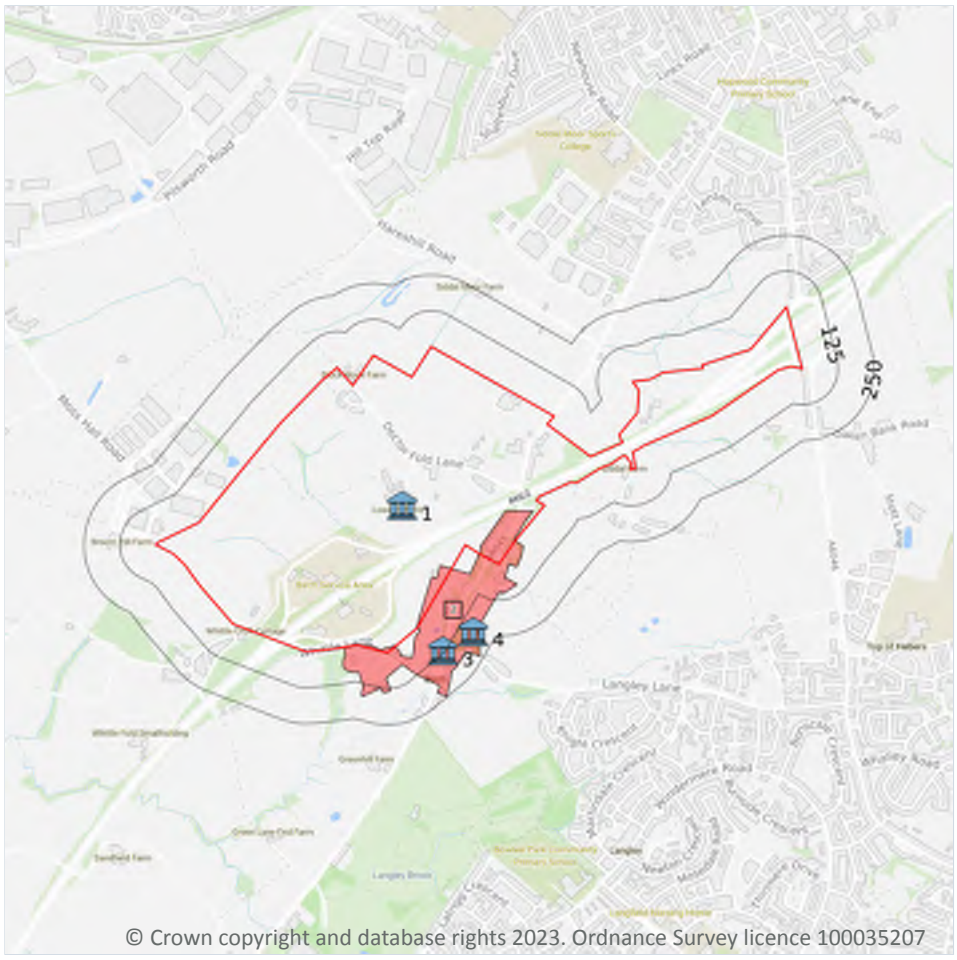
Features are displayed on the SSSI Impact Zones and Units map on **page 96 >**

ID: -
Location: 1829m E
SSSI name: Rochdale Canal
Unit name: Failsworth
Broad habitat: Standing Open Water And Canals
Condition: Unfavourable - Recovering
Reportable features:

Feature name	Feature condition	Date of assessment
Population of Schedule 8 plant - Luronium natans, Floating Water-plantain	Unfavourable - Recovering	25/11/2010

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

11 Visual and cultural designations



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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	3

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 99 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	**On site**	**Lower Whittle Farmhouse**	**II**	**1068502**	**23/03/1987**
3	120m S	Fountain Horse Trough To North Of White Hart Inn	II	1245928	26/06/2001
4	177m SE	Birch-In-Hopwood War Memorial	II	1441324	20/12/2016

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 99 >**

ID	Location	Name	District	Date of designation
2	**On site**	**Birch Village**	**Rochdale**	**17/07/2013**

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.

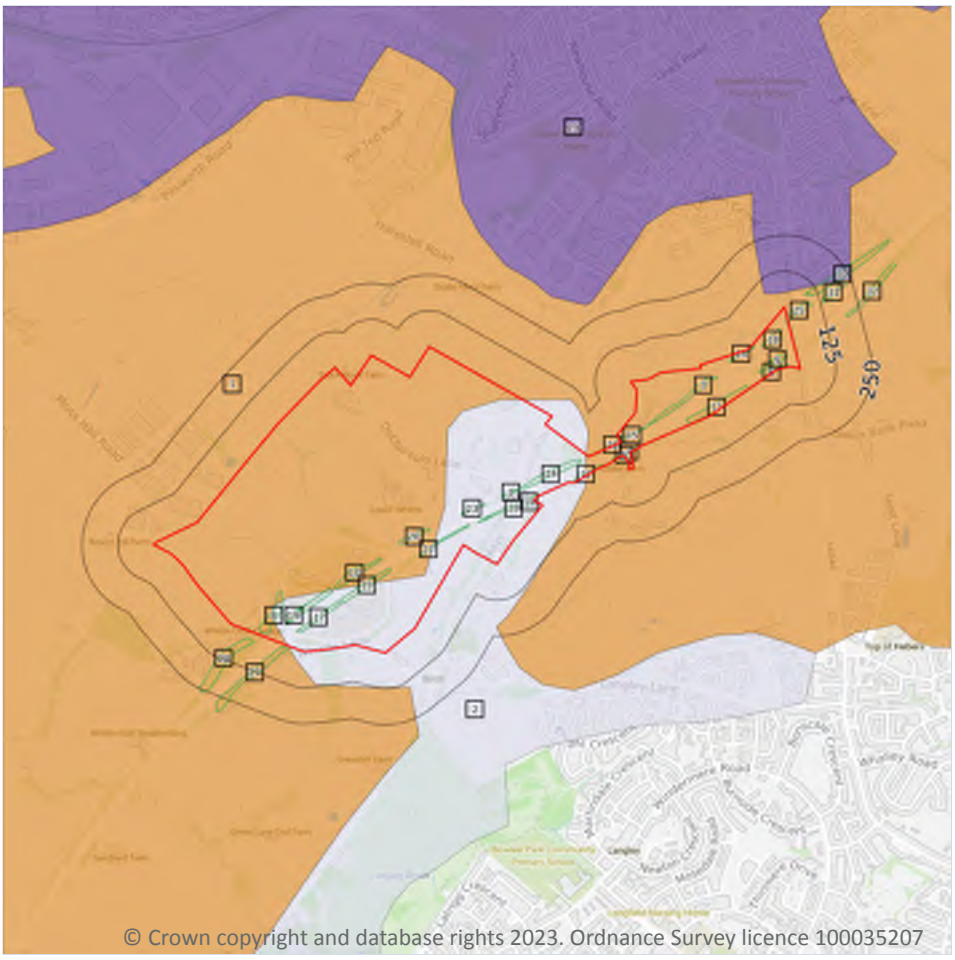
11.7 Registered Parks and Gardens

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	3

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 102 >**

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

ID	Location	Classification	Description
2	**On site**	**Grade 4**	**Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.**
29	51m NE	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	**29**

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

Features are displayed on the Agricultural designations map on **page 102 >**

ID	Location	Description	Reference	Application date
3	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
4	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
5	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
6	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
7	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
8	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
9	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
10	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-
11	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	-

ID	Location	Description	Reference	Application date
12	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
13	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
14	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
15	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
16	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
17	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
18	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
19	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
20	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
21	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
22	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
23	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
24	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
25	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
26	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
27	9m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
28	23m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
30	84m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
31	136m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
32	201m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	**0**

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

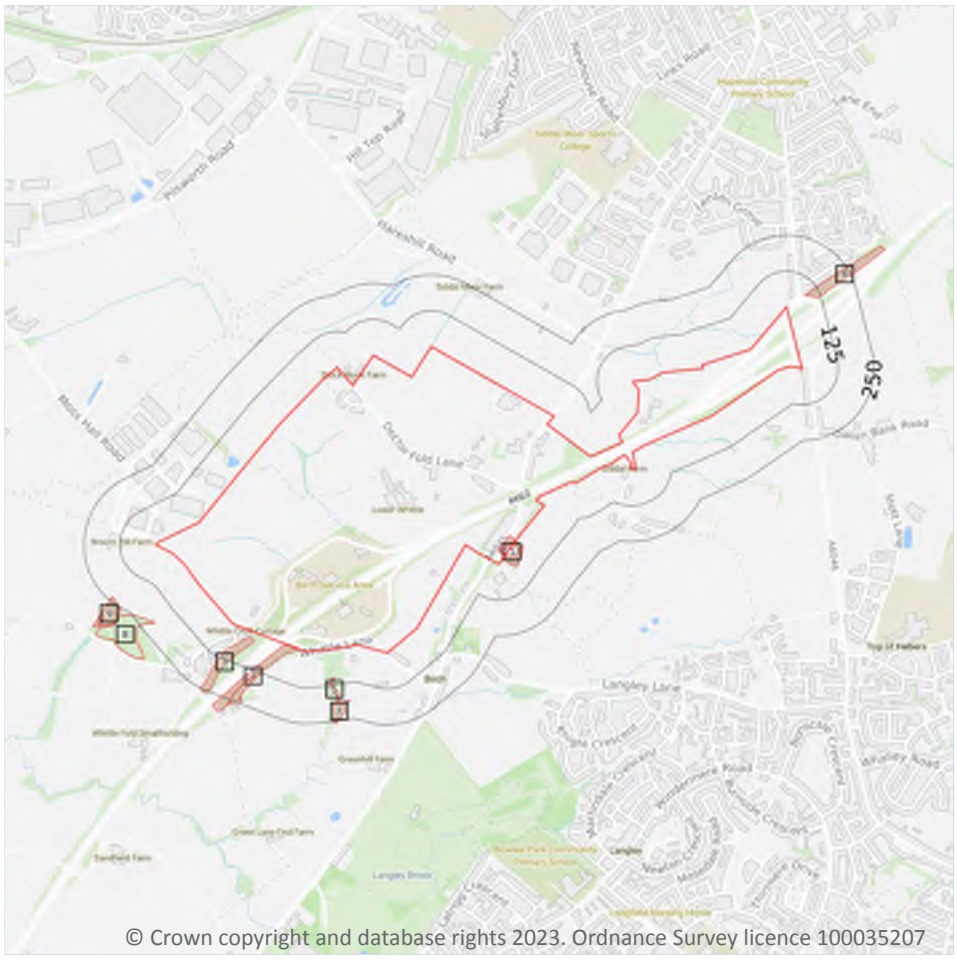
Records within 250m	**1**

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.

Location	Reference	Scheme	Start Date	End Date
232m E	1484536	Countryside Stewardship (Higher Tier)	01/07/2023	30/06/2026

This data is sourced from Natural England.

13 Habitat designations



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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	8

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 106 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
3	20m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	76m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	100m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	139m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	187m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	236m W	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 106 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
8	204m SW	BRITPITS ref: 3821	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

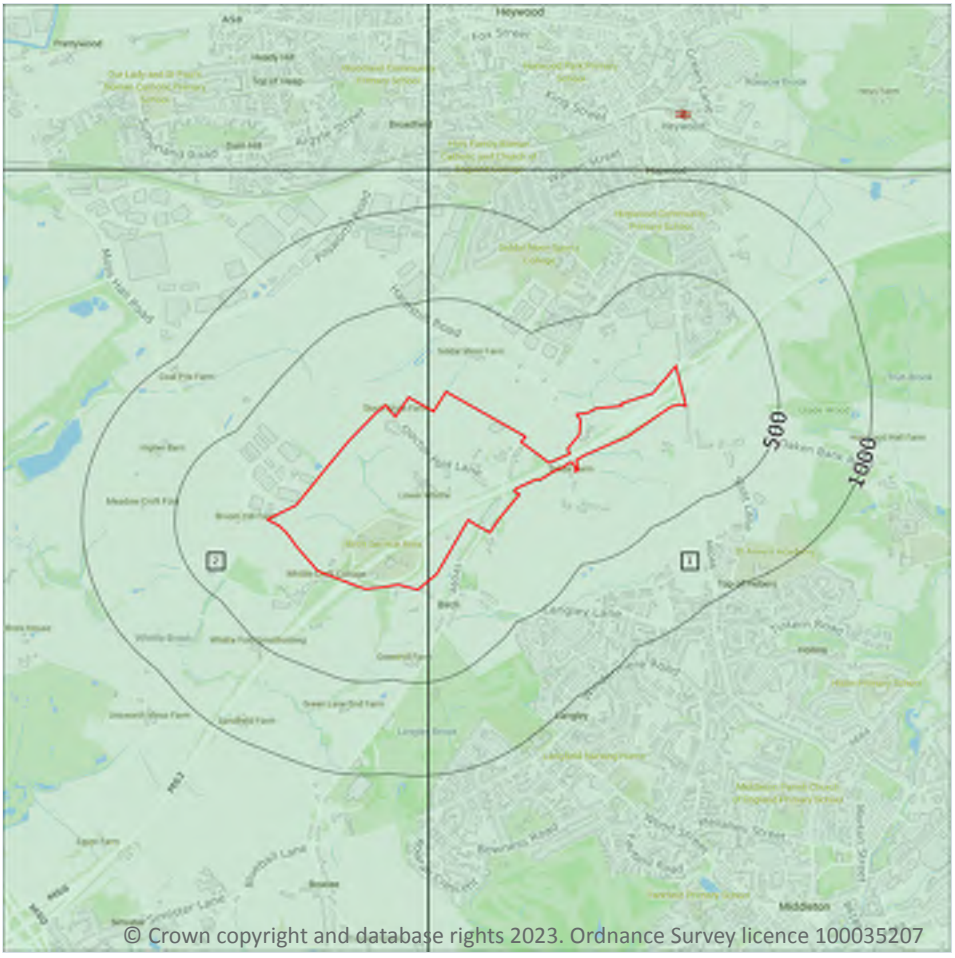
Records within 250m	**0**

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

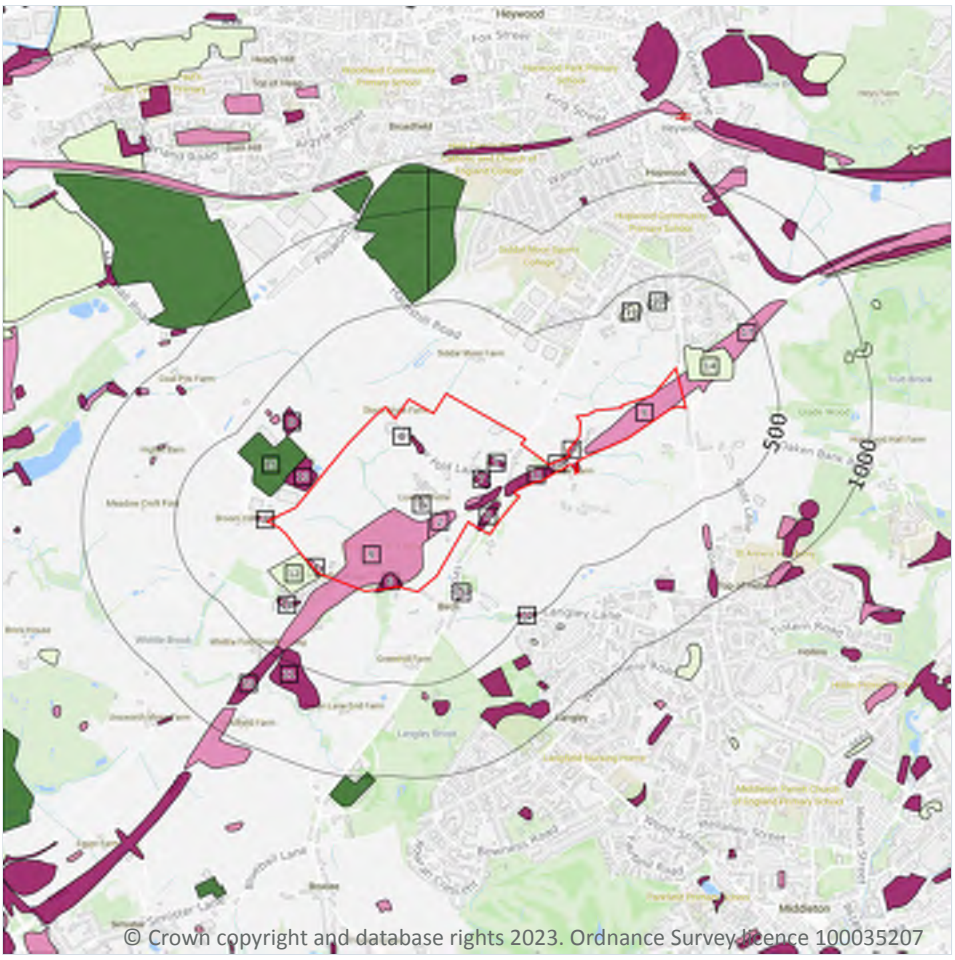
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 109 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SD80NE**
2	**On site**	**Full**	**Full**	**Full**	**Full**	**SD80NW**

This data is sourced from the British Geological Survey.

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



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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	33

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 110 >**

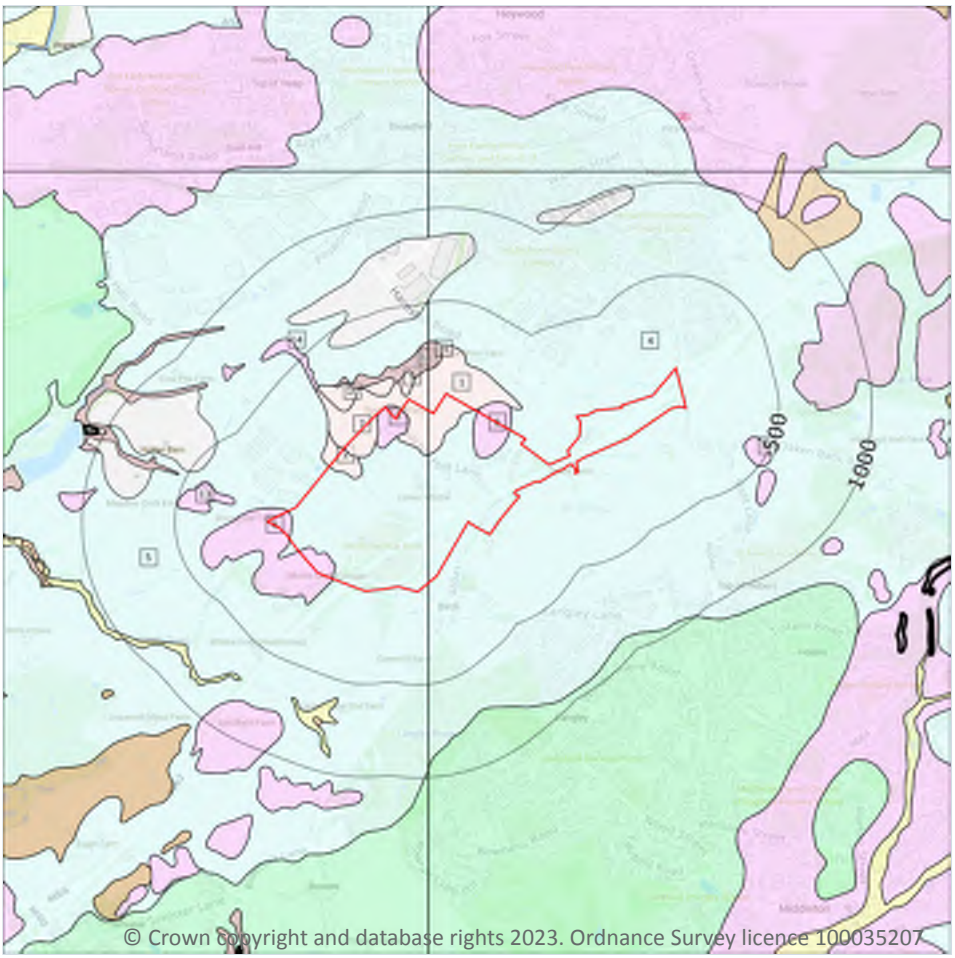
ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	On site	WGR-VOID	Worked Ground (Undivided)	Void
4	On site	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
5	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
6	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
7	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
8	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
9	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
10	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
11	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	**On site**	**WGR-VOID**	**Worked Ground (Undivided)**	**Void**
B	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
B	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
C	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
C	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
12	3m SW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	12m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	50m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	114m W	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
16	129m S	WGR-VOID	Worked Ground (Undivided)	Void
17	174m NE	WGR-VOID	Worked Ground (Undivided)	Void
18	177m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
D	263m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
19	346m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
20	354m NE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
D	360m NW	WGR-VOID	Worked Ground (Undivided)	Void
D	418m NW	WGR-VOID	Worked Ground (Undivided)	Void
21	438m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
22	449m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
23	450m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	15

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 113 >**

ID	Location	LEX Code	Description	Rock description
1	On site	GLLDD-XCZ	Glaciolacustrine Deposits, Devensian - Clay And Silt	Clay And Silt
2	On site	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
3	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
5	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
6	**On site**	**GFICD-XSV**	**Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
7	**On site**	**GLLDD-XCZ**	**Glaciolacustrine Deposits, Devensian - Clay And Silt**	**Clay And Silt**
8	**On site**	**GFICD-XSV**	**Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
9	22m N	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
10	62m NW	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
11	109m N	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
12	155m N	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
13	205m W	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
14	320m NW	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
15	371m E	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

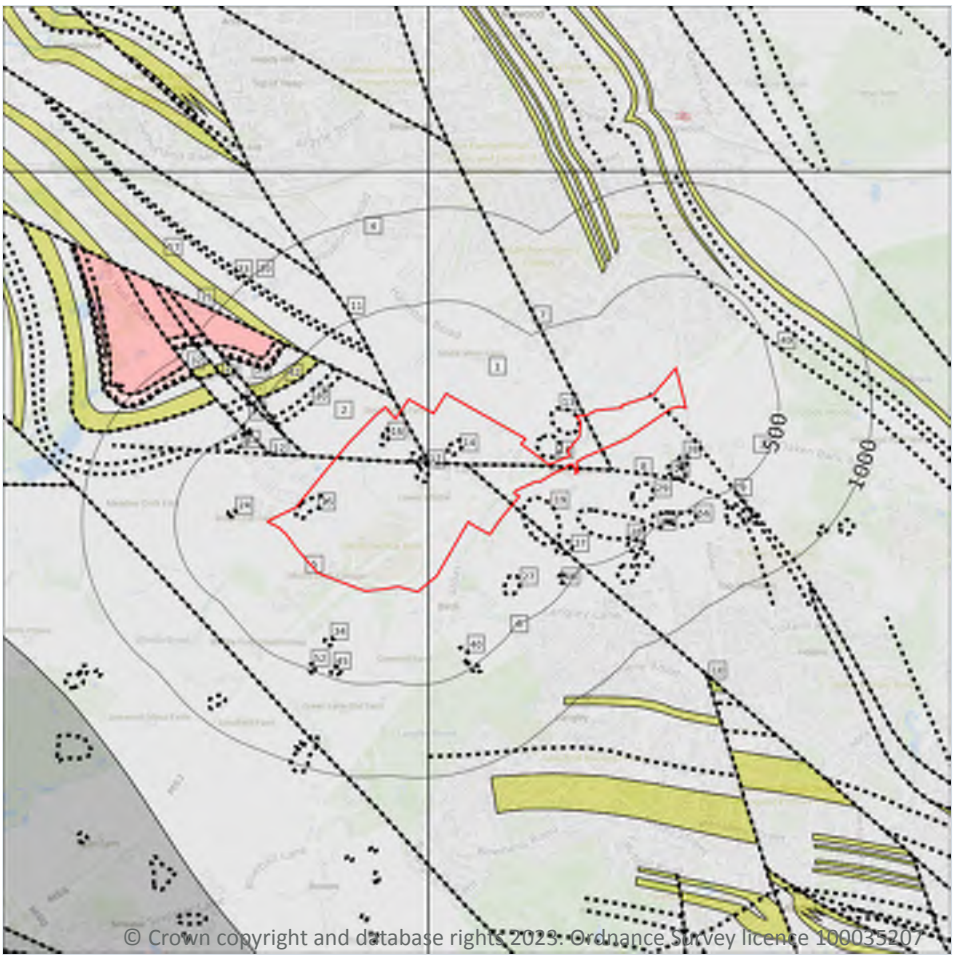
14.4 Landslip (10k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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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	12

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 115 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
2	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**

ID	Location	LEX Code	Description	Rock age
3	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
4	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
5	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
6	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
20	70m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	132m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
35	313m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
42	420m NW	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
57	482m NW	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
59	497m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **47**

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 115 >**

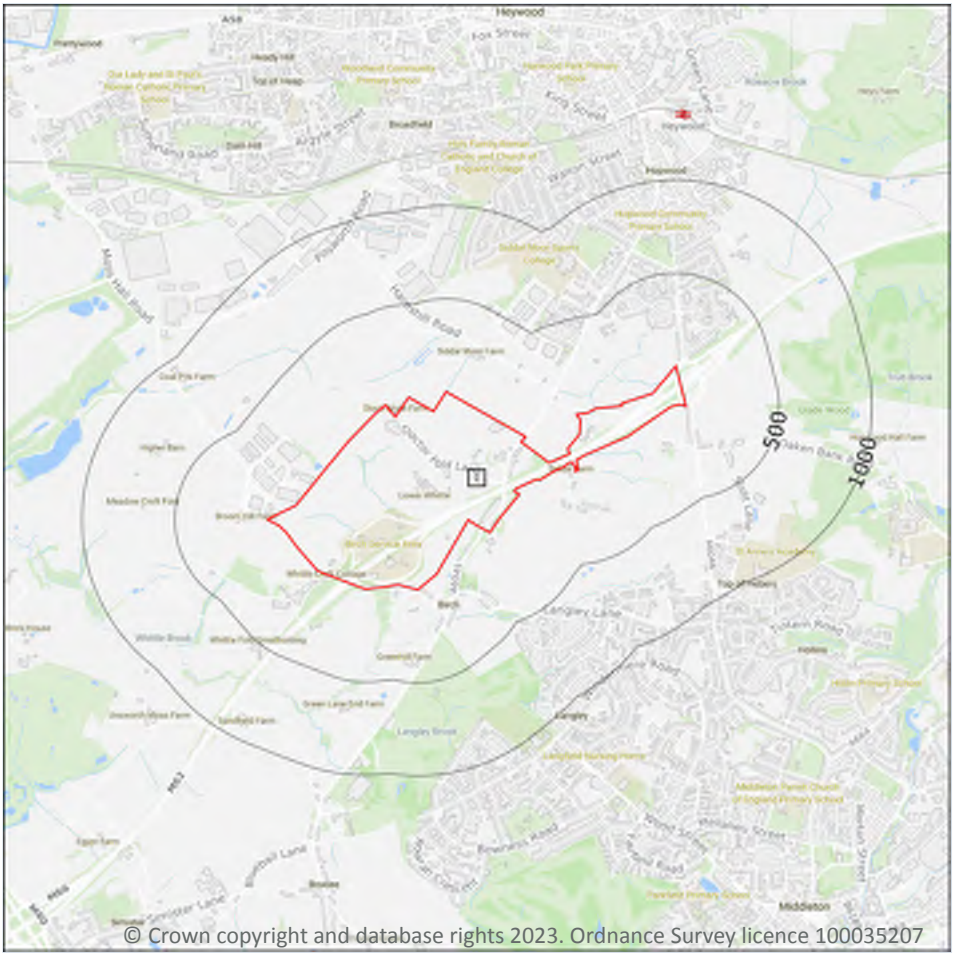
ID	Location	Category	Description
7	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
8	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
9	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
10	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
11	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**

ID	Location	Category	Description
12	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
13	**On site**	**LANDFORM**	**Drumlin, form-line at base of mound**
14	**On site**	**LANDFORM**	**Drumlin, form-line at base of mound**
15	**On site**	**LANDFORM**	**Drumlin, form-line at base of mound**
16	**On site**	**LANDFORM**	**Drumlin, form-line at base of mound**
17	**On site**	**LANDFORM**	**Drumlin, form-line at base of mound**
18	19m E	LANDFORM	Drumlin, form-line at base of mound
19	50m E	LANDFORM	Drumlin, form-line at base of mound
21	70m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
23	132m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	175m W	LANDFORM	Kettle hole; closed hollow
25	203m E	LANDFORM	Drumlin, form-line at base of mound
26	242m E	LANDFORM	Drumlin, form-line at base of mound
27	248m SE	LANDFORM	Drumlin, form-line at base of mound
28	249m E	LANDFORM	Kettle hole; closed hollow
29	253m E	LANDFORM	Drumlin, form-line at base of mound
30	283m NW	ROCK	Coal seam, inferred
31	286m E	LANDFORM	Kettle hole; closed hollow
32	289m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
33	291m NW	FOSSIL_HORIZON	Fossil horizon, marine band
34	299m SW	LANDFORM	Kettle hole; closed hollow
36	313m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
37	327m SE	LANDFORM	Drumlin, form-line at base of mound
38	333m NW	ROCK	Coal seam, inferred
39	335m NW	ROCK	Coal seam, inferred
40	378m S	LANDFORM	Kettle hole; closed hollow
41	404m W	ROCK	Coal seam, inferred
43	420m NW	ROCK	Coal seam, inferred coincident with bedrock geology boundary

ID	Location	Category	Description
44	430m E	LANDFORM	Drumlin, form-line at base of mound
45	431m SW	LANDFORM	Kettle hole; closed hollow
46	434m SE	LANDFORM	Kettle hole; closed hollow
47	435m W	LANDFORM	Kettle hole; closed hollow
48	443m E	LANDFORM	Kettle hole; closed hollow
49	447m NE	ROCK	Coal seam, inferred
50	450m E	LANDFORM	Kettle hole; closed hollow
51	455m W	ROCK	Coal seam, inferred
52	460m SW	LANDFORM	Kettle hole; closed hollow
53	461m E	LANDFORM	Kettle hole; closed hollow
54	468m E	LANDFORM	Drumlin, form-line at base of mound
55	473m S	LANDFORM	Kettle hole; closed hollow
56	475m E	LANDFORM	Kettle hole; closed hollow
58	492m E	LANDFORM	Kettle hole; closed hollow

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

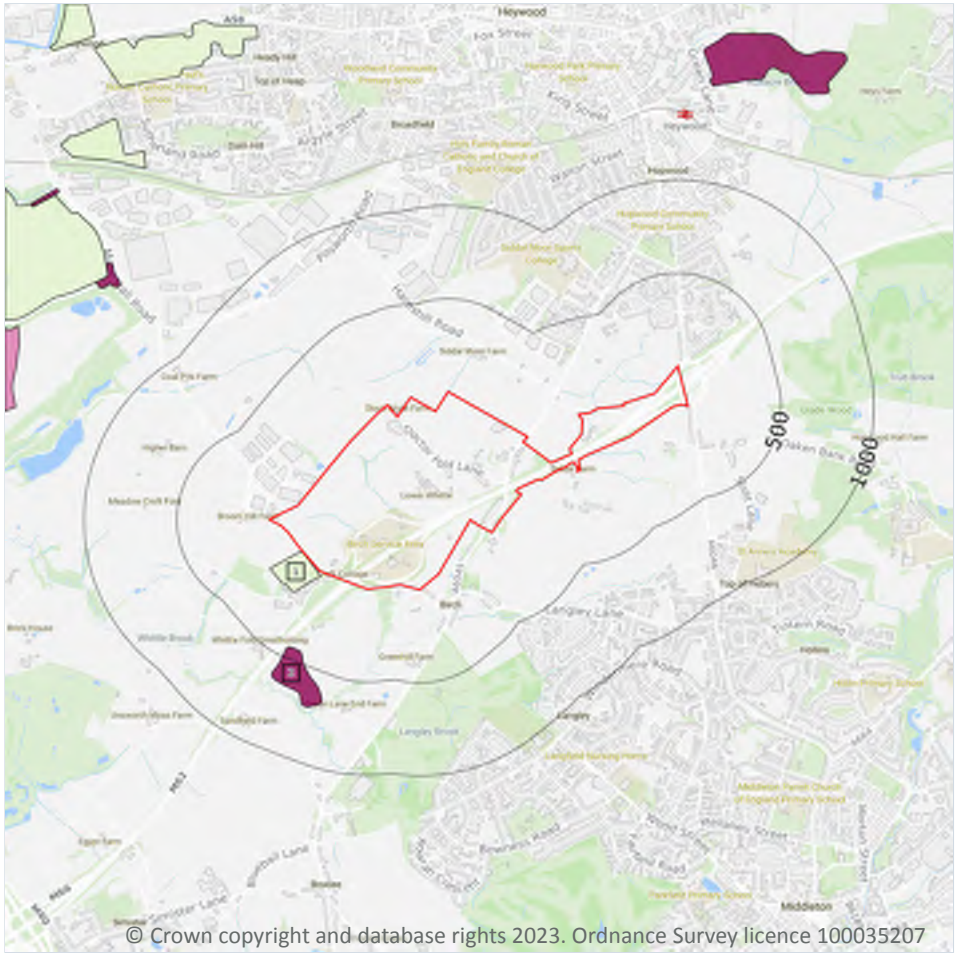
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 119 >**

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

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 120 >**

ID	Location	LEX Code	Description	Rock description
1	3m SW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	437m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

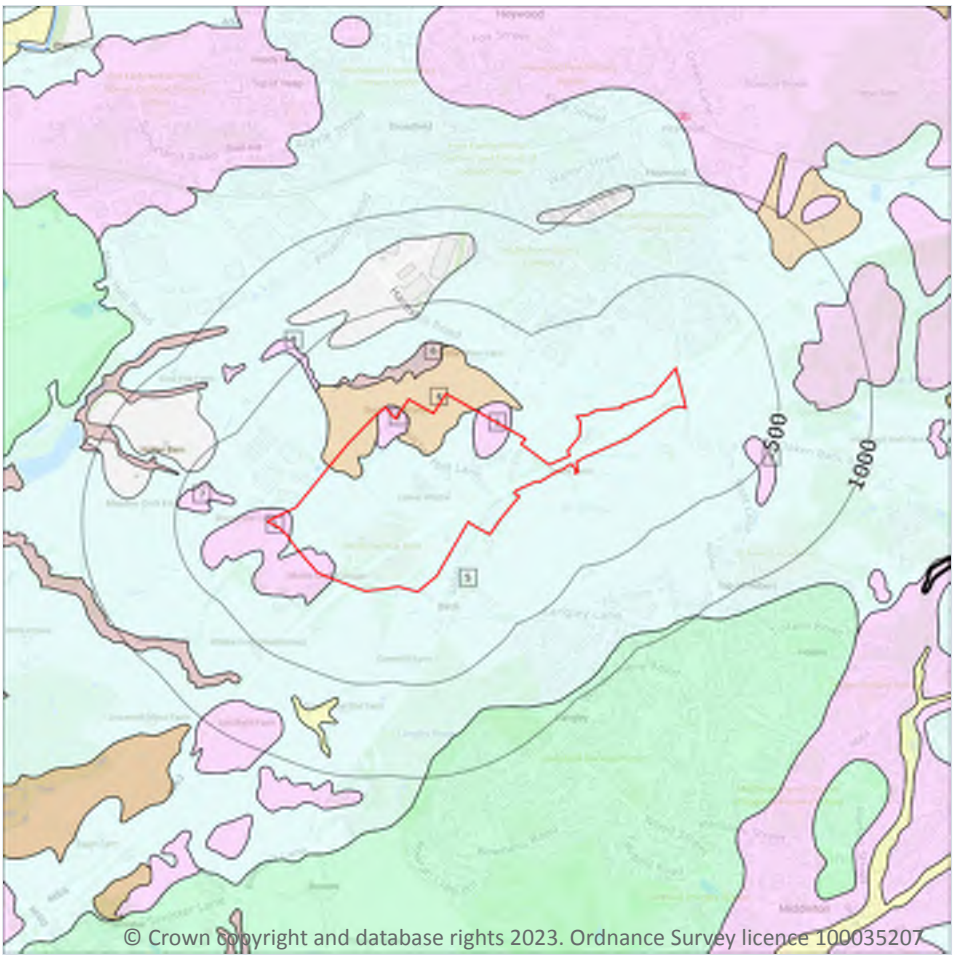
Records within 50m	**1**

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
3m SW	Mixed	Very High	Low

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	9

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

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

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
4	On site	LDE-XSV	LACUSTRINE DEPOSITS	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
5	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
6	109m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
7	205m W	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
8	319m NW	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
9	371m E	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m **7**

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m **0**

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

This data is sourced from the British Geological Survey.

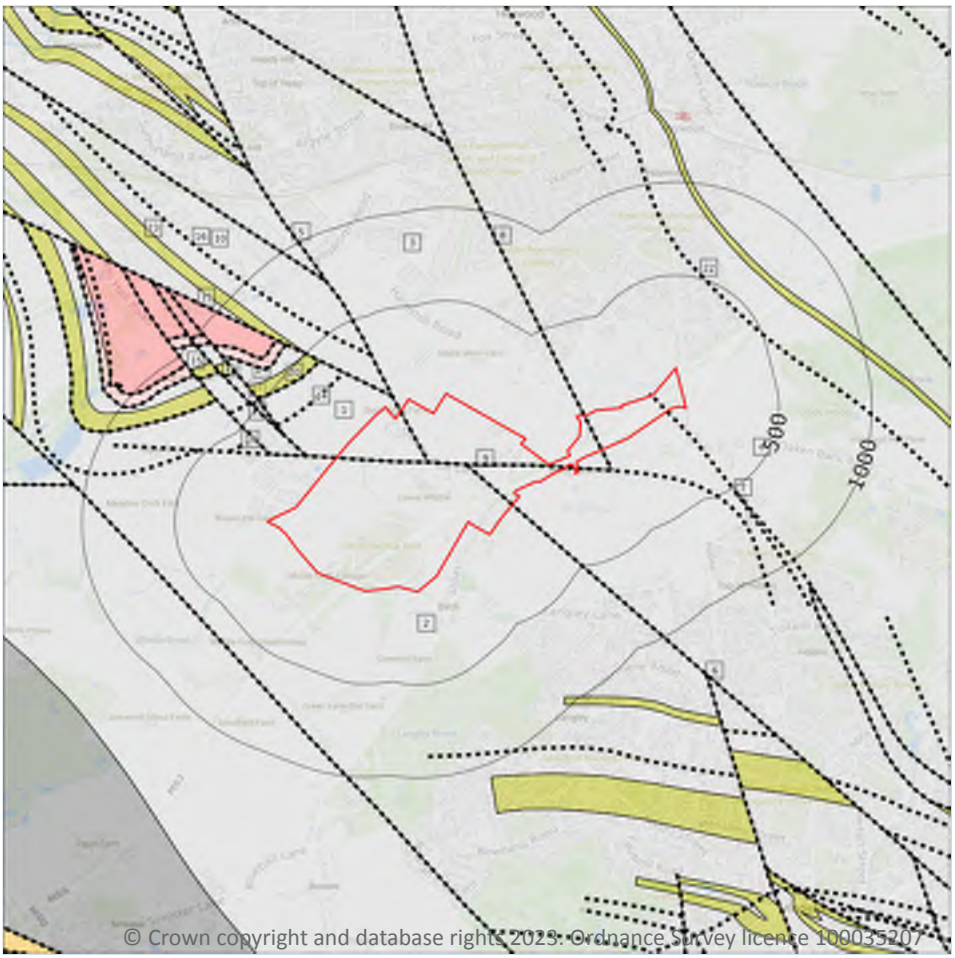
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	10

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 125 >**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
3	**On site**	**PLCM-MDSS**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
4	**On site**	**PLCM-MDSS**	**PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
10	70m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	132m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	313m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
20	420m NW	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
23	481m NW	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
24	497m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **2**

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m **14**

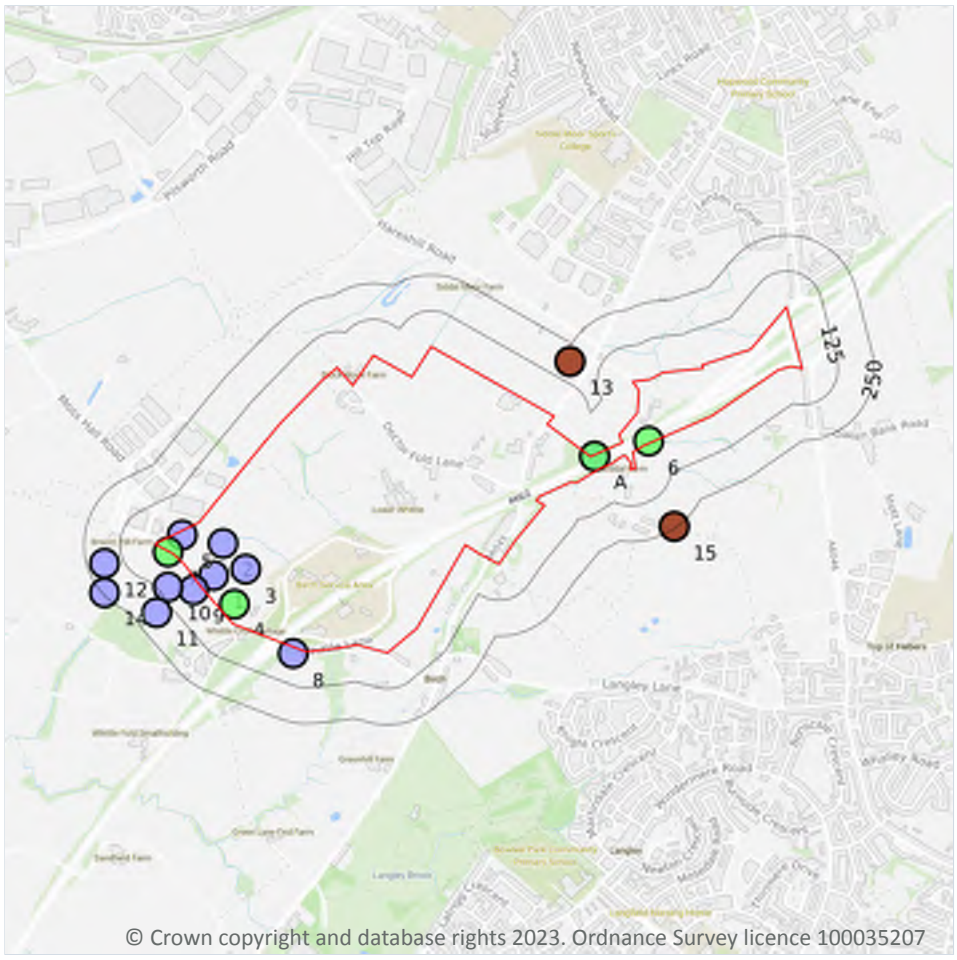
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

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

ID	Location	Category	Description
5	**On site**	**FAULT**	**Fault, inferred**
6	**On site**	**FAULT**	**Fault, inferred**
7	**On site**	**FAULT**	**Fault, inferred**
8	**On site**	**FAULT**	**Fault, inferred**
9	**On site**	**FAULT**	**Fault, inferred**
11	70m NW	FAULT	Fault, inferred
13	132m W	FAULT	Fault, inferred
14	284m NW	ROCK	Coal seam, inferred
15	289m W	FAULT	Fault, inferred
16	291m NW	FOSSIL_HORIZON	Marine band
18	313m W	FAULT	Fault, inferred
19	404m W	ROCK	Coal seam, inferred
21	420m NW	ROCK	Coal seam, inferred
22	447m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	17

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.

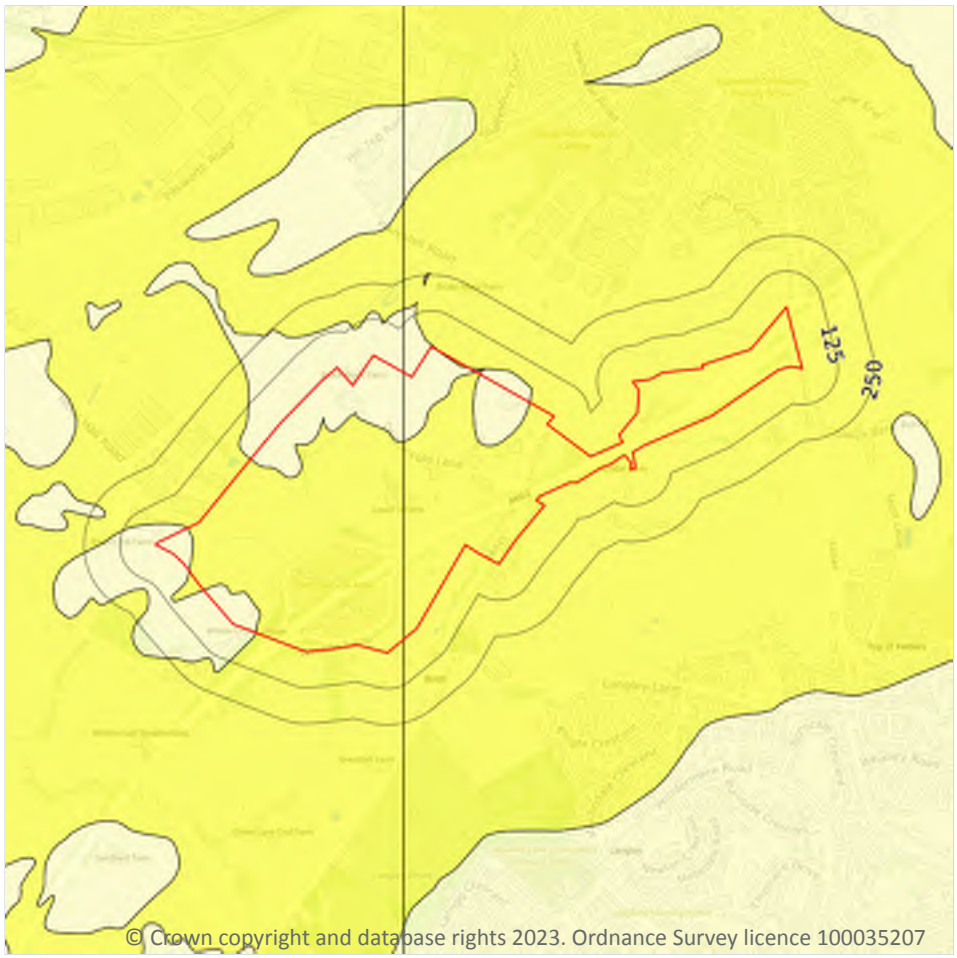
Features are displayed on the Boreholes map on **page 128 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	384340 408010	BROOM HILL FARM 16	6.0	N	27359 ↗
2	On site	384370 408120	BROOM HILL FARM 15	5.5	N	27358 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	**On site**	**384450 408030**	**BROOM HILL FARM 17**	**6.0**	**N**	**27360** ↗
4	**On site**	**384410 407910**	**BROOM HILL FARM 18**	**14.5**	**N**	**27361** ↗
5	**On site**	**384230 408150**	**BROOM HILL FARM 14**	**8.5**	**N**	**27357** ↗
6	**On site**	**385851 408476**	**Manchester Smart Motorway M60 BH23900B**	**10.5**	**N**	**20344045** ↗
A	**On site**	**385665 408424**	**Manchester Smart Motorway M60 BH23900A**	**10.0**	**N**	**20672085** ↗
A	**On site**	**385665 408424**	**Manchester Smart Motorway M60 BH4016A**	**23.95**	**N**	**20344032** ↗
7	4m W	384180 408090	BROOM HILL FARM 5	10.5	N	27348
8	22m SW	384616 407737	TELECOM TOWER GMN0348 SERVICES M62 BIRCH 1	4.0	N	20310529
9	25m SW	384270 407960	BROOM HILL FARM 12	6.2	N	27355
10	92m W	384180 407970	BROOM HILL FARM 13	8.5	N	27356
11	178m SW	384140 407880	BROOM HILL FARM 11	6.2	N	27354
12	189m W	383960 408050	BROOM HILL FARM 6	9.8	N	27349
13	195m NE	385579 408755	NEW GAF FARM, MANCHESTER ROAD	-1.0	N	26956
14	243m W	383960 407950	BROOM HILL FARM 10	5.5	N	27353
15	243m E	385940 408180	SIDDALL FOLD FARM	-1.0	N	27193

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

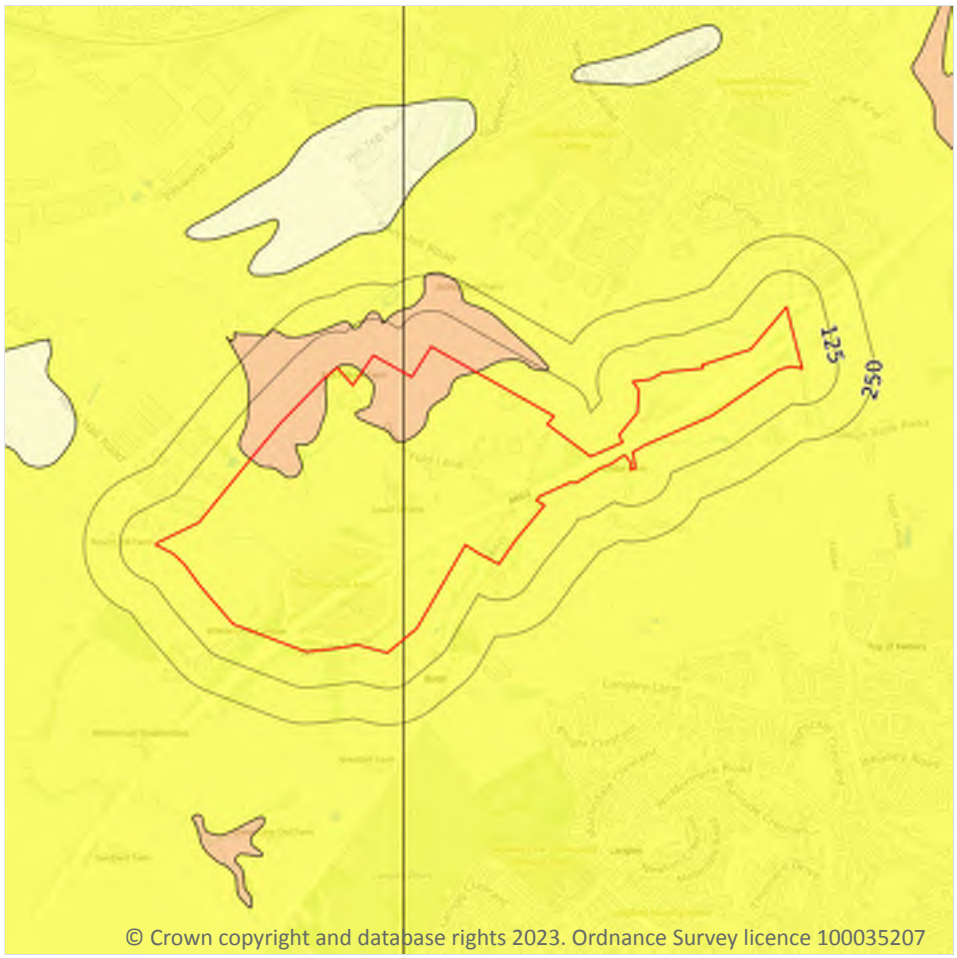
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 130 >**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	2

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

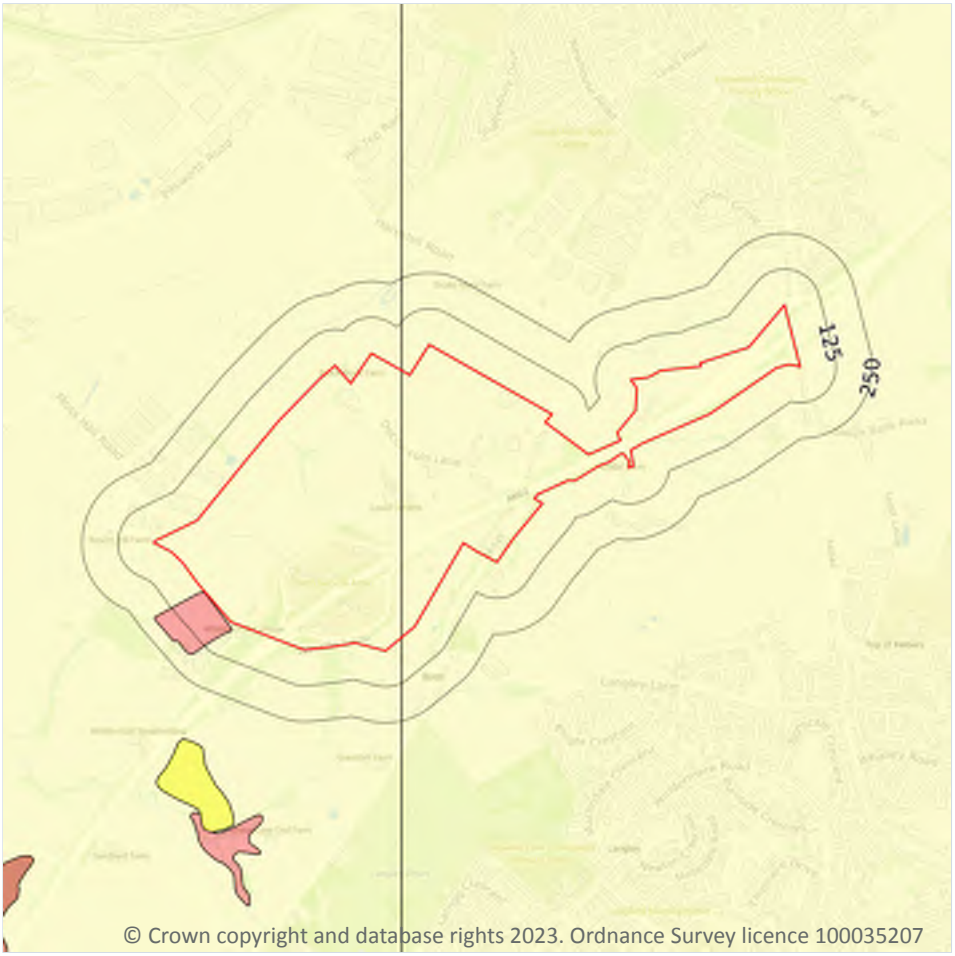
Features are displayed on the Natural ground subsidence - Running sands map on **page 131 >**

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

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

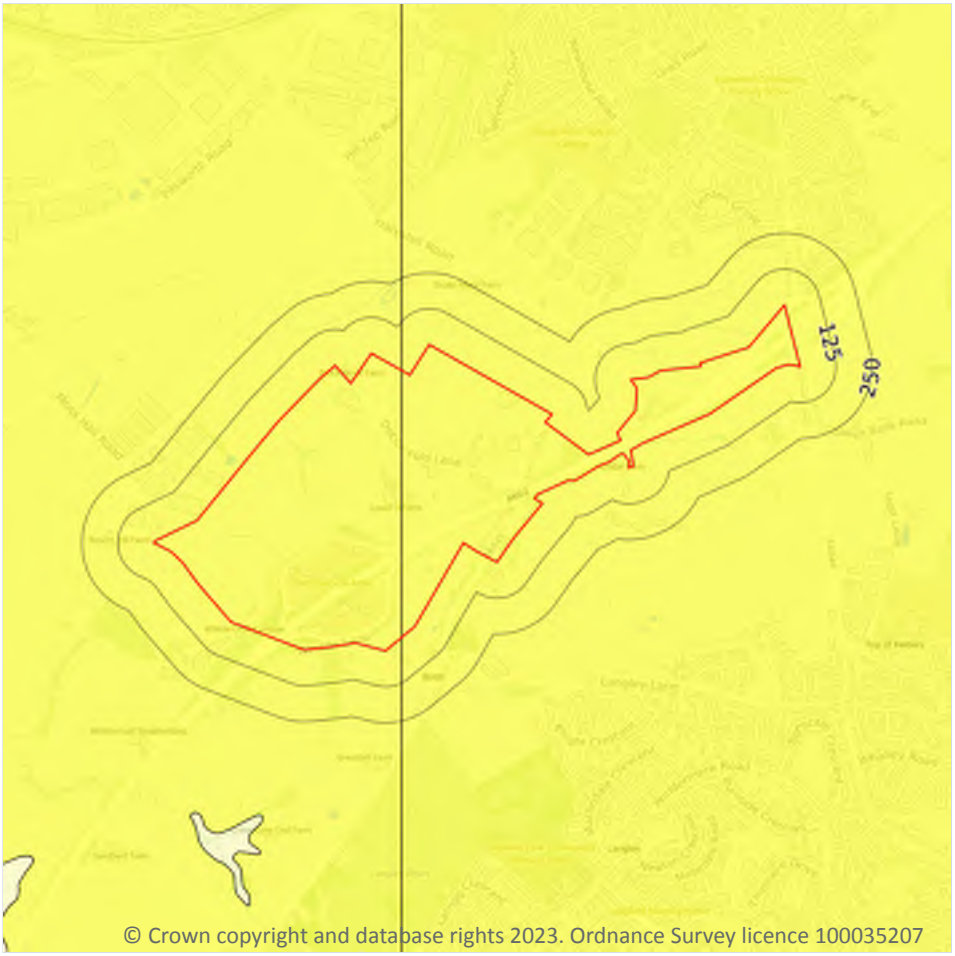
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 133 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**
3m SW	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

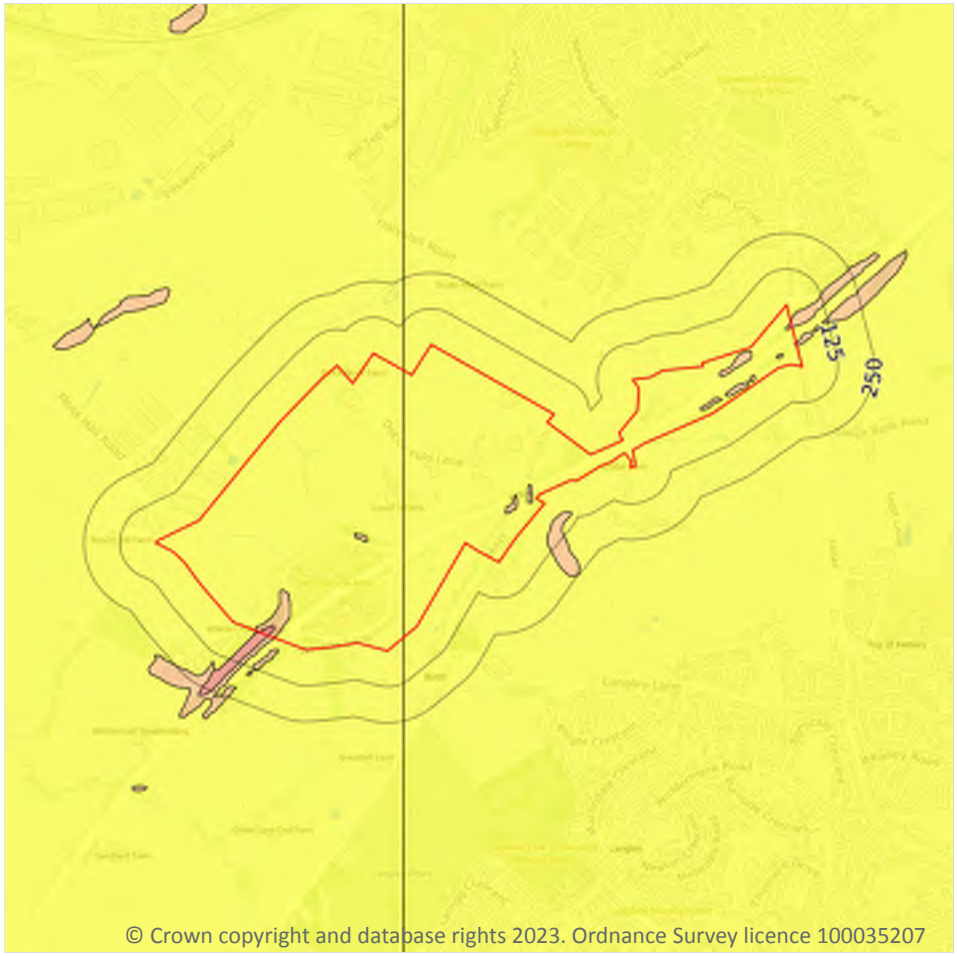
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

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

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	4

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.

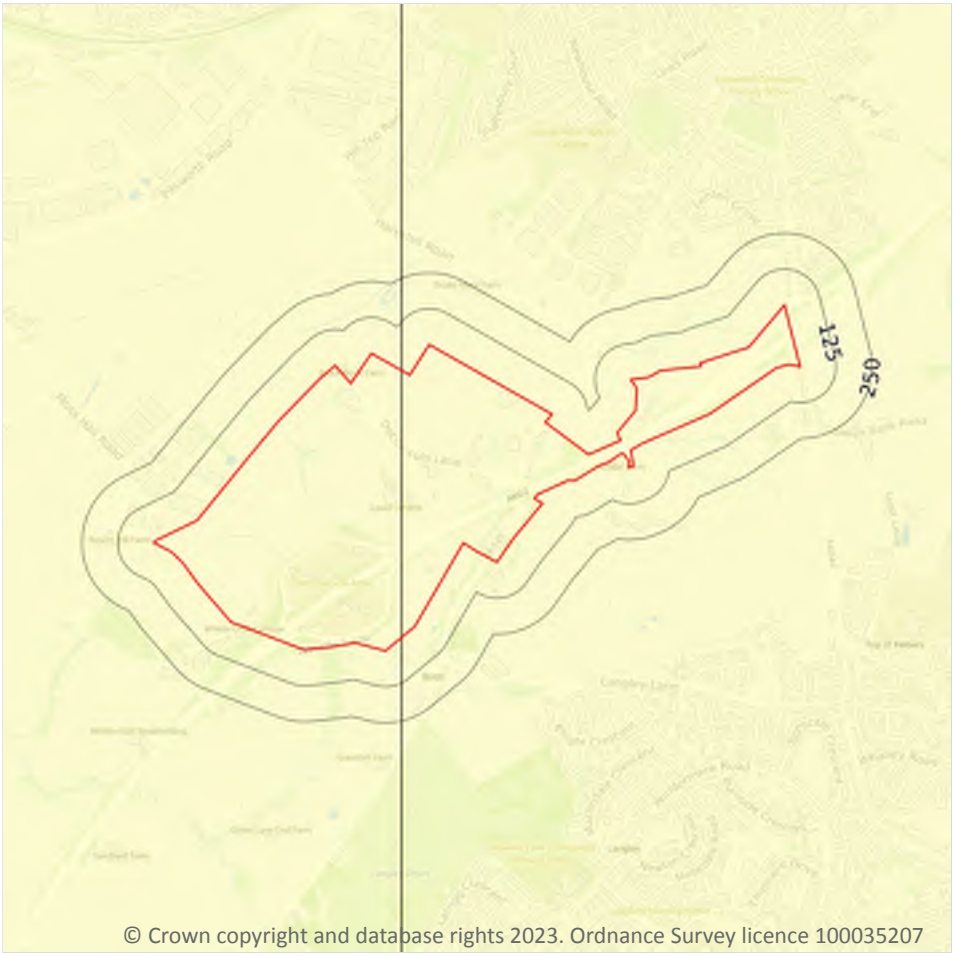
Features are displayed on the Natural ground subsidence - Landslides map on **page 136 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
On site	**Moderate**	**Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.**
33m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

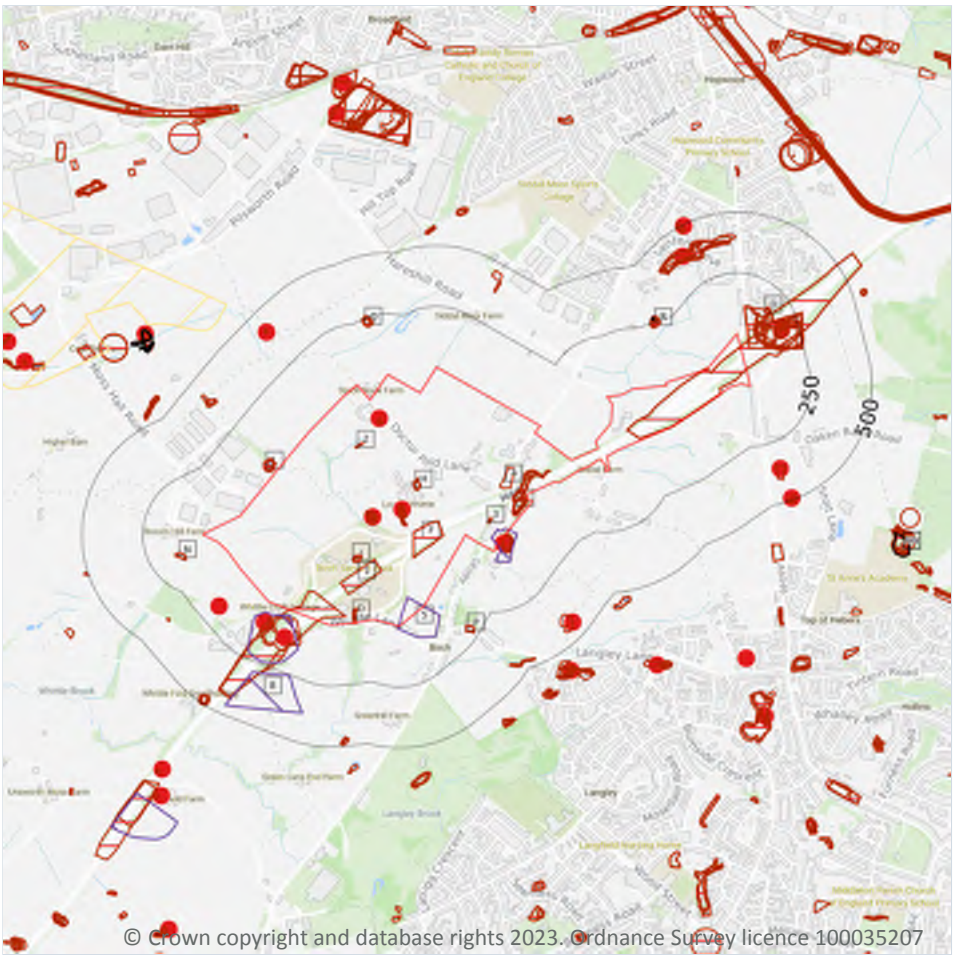
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 138 >**

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



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Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	14

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

Features are displayed on the Mining and ground workings map on **page 140 >**

ID	Location	Details	Description
A	**On site**	**Name: Doctor's Moss** **Address: Siddall Moor, HEYWOOD, Lancashire** **Commodity: Sand** **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**
B	**On site**	**Name: Lower Whittle Sand Pit** **Address: Hopwood, HEYWOOD, Lancashire** **Commodity: Sand** **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**
C	**On site**	**Name: Lower Whittle Quarries** **Address: Hopwood, HEYWOOD, Lancashire** **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**
K	14m SE	Name: Manchester Road Sand Pit Address: Birch, MIDDLETON, Lancashire Commodity: Sand 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
I	85m SW	Name: Whittle Fold Sand Quarry Address: Birch, MIDDLETON, Lancashire Commodity: Sand 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
I	112m SW	Name: Whittle Fold Sand Quarry Address: Birch, MIDDLETON, Lancashire Commodity: Sand 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

ID	Location	Details	Description
7	166m SW	Name: Whittle Sandpit Address: Birch, ROCHDALE, Lancashire Commodity: Sand 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
M	179m NE	Name: Cow Field Address: Hopwood, HEYWOOD, Lancashire Commodity: Clay & Shale Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
T	362m E	Name: Hopwood Sand Pit Address: Hopwood, HEYWOOD, Lancashire Commodity: Sand 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
S	391m NE	Name: Collop Gate Address: Hopwood, HEYWOOD, Lancashire Commodity: Sand 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
Y	412m NW	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire 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
X	435m SE	Name: Langley Hall Sand Pit Address: MIDDLETON, Lancashire Commodity: Sand 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

ID	Location	Details	Description
AD	493m E	Name: Hopwood Sand Pit Address: Hopwood, HEYWOOD, Lancashire Commodity: Sand 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
AC	494m NE	Name: Wicken Bank Farn Gravel Pit Address: Hopwood, HEYWOOD, Lancashire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m **92**

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

Features are displayed on the Mining and ground workings map on **page 140 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Cuttings**	**1981**	**1:10000**
2	**On site**	**Pond**	**1890**	**1:10560**
3	**On site**	**Unspecified Ground Workings**	**1909**	**1:10560**
4	**On site**	**Brick Yard**	**1851**	**1:10560**
A	**On site**	**Sand Pit**	**1851**	**1:10560**
B	**On site**	**Unspecified Old Quarries**	**1890**	**1:10560**
B	**On site**	**Unspecified Ground Workings**	**1981**	**1:10000**
B	**On site**	**Unspecified Ground Workings**	**1974**	**1:10000**
B	**On site**	**Unspecified Ground Workings**	**1938**	**1:10560**
B	**On site**	**Unspecified Ground Workings**	**1928**	**1:10560**
B	**On site**	**Unspecified Ground Workings**	**1909**	**1:10560**
B	**On site**	**Sand Pit**	**1851**	**1:10560**

ID	Location	Land Use	Year of mapping	Mapping scale
B	On site	Unspecified Ground Workings	1965	1:10560
C	On site	Unspecified Old Quarries	1890	1:10560
C	On site	Unspecified Pit	1938	1:10560
C	On site	Unspecified Pit	1928	1:10560
C	On site	Unspecified Pit	1909	1:10560
C	On site	Unspecified Pit	1955	1:10560
D	On site	Unspecified Heap	1938	1:10560
D	On site	Unspecified Ground Workings	1932	1:10560
E	On site	Cuttings	1975	1:10000
E	On site	Cuttings	1982	1:10000
F	On site	Cuttings	1975	1:10000
F	On site	Cuttings	1982	1:10000
G	On site	Pond	1965	1:10560
G	On site	Reservoir	1955	1:10560
G	On site	Reservoir	1938	1:10560
G	On site	Reservoirs	1928	1:10560
G	On site	Reservoirs	1909	1:10560
G	On site	Reservoirs	1890	1:10560
G	On site	Water Bodies	1851	1:10560
H	On site	Pond	1955	1:10560
H	On site	Pond	1938	1:10560
H	On site	Pond	1928	1:10560
I	On site	Cuttings	1981	1:10000
J	On site	Pond	1928	1:10560
J	On site	Unspecified Pit	1909	1:10560
J	On site	Unspecified Pit	1955	1:10560
K	On site	Unspecified Pit	1975	1:10000
K	On site	Unspecified Pit	1965	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
K	**On site**	**Unspecified Pit**	**1982**	**1:10000**
K	1m SE	Sand Pit	1955	1:10560
L	13m W	Pond	1891	1:10560
L	17m W	Unspecified Pit	1928	1:10560
L	17m W	Pond	1908	1:10560
L	17m W	Unspecified Pit	1938	1:10560
L	23m W	Pond	1851	1:10560
L	23m W	Pond	1981	1:10000
I	28m SW	Sand Quarry	1965	1:10560
M	35m NE	Brick Works	1890	1:10560
6	36m SW	Cuttings	1974	1:10000
M	38m NE	Old Clay Pits	1909	1:10560
M	47m NE	Unspecified Pit	1890	1:10560
I	58m SW	Refuse Heap	1955	1:10560
M	69m NE	Pond	1890	1:10560
M	69m NE	Unspecified Ground Workings	1928	1:10560
M	74m NE	Unspecified Ground Workings	1938	1:10560
M	77m NE	Unspecified Ground Workings	1955	1:10560
I	78m SW	Sand Pit	1851	1:10560
M	100m NE	Old Clay Pits	1909	1:10560
M	101m NE	Unspecified Pit	1890	1:10560
N	113m W	Unspecified Pit	1928	1:10560
N	113m W	Unspecified Pit	1908	1:10560
N	113m W	Unspecified Pit	1938	1:10560
M	113m E	Brick Field	1851	1:10560
M	115m NE	Old Clay Pits	1909	1:10560
M	117m NE	Unspecified Pit	1890	1:10560
M	145m E	Unspecified Pit	1890	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
O	145m NE	Unspecified Pit	1928	1:10560
O	146m NE	Unspecified Pit	1938	1:10560
M	157m NE	Unspecified Heap	1938	1:10560
M	165m NE	Pond	1938	1:10560
M	166m NE	Pond	1928	1:10560
M	168m E	Unspecified Pit	1890	1:10560
M	171m E	Unspecified Heap	1938	1:10560
M	171m E	Old Clay Pits	1909	1:10560
M	182m NE	Pond	1955	1:10560
P	190m S	Cuttings	1938	1:10560
P	191m S	Cuttings	1932	1:10560
M	201m NE	Pond	1890	1:10560
Q	211m N	Pond	1938	1:10560
M	214m E	Unspecified Ground Workings	1890	1:10560
Q	216m N	Pond	1981	1:10000
Q	216m N	Pond	1974	1:10000
Q	216m N	Pond	1965	1:10560
M	227m NE	Unspecified Heaps	1938	1:10560
R	229m NE	Refuse Heap	1928	1:10560
R	231m NE	Refuse Heap	1938	1:10560
R	235m NE	Refuse Heap	1955	1:10560
R	249m NE	Unspecified Heap	1975	1:10000
R	249m NE	Unspecified Heap	1965	1:10560
R	249m NE	Unspecified Heap	1982	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	11

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

Features are displayed on the Mining and ground workings map on **page 140 >**

ID	Location	Land Use	Year of mapping	Mapping scale
R	263m NE	Unspecified Old Shaft	1928	1:10560
R	264m NE	Unspecified Old Shaft	1938	1:10560
R	265m NE	Unspecified Old Shaft	1949	1:10560
AQ	718m NW	Coal Pits	1891	1:10560
AQ	722m NW	Coal Pits	1938	1:10560
AQ	722m NW	Coal Pits	1928	1:10560
AQ	722m NW	Coal Pits	1908	1:10560
AQ	744m NW	Coal Pits	1938	1:10560
AQ	744m NW	Coal Pits	1928	1:10560
AQ	744m NW	Coal Pits	1908	1:10560
AW	846m E	Old Coal Pit	1890	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	4

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

Features are displayed on the Mining and ground workings map on **page 140 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
5	**On site**	**Whittle Lane Sand Pit**	**Sand**	**Surface mineral working**	**Valid**	**09/07/1947**
K	**On site**	**Manchester Road**	**Sand**	**Surface mineral working**	**Valid**	**Not available**
I	22m SW	Whittle Fold	Sand	Surface mineral working	Valid	Not available
8	253m SW	Whittle Fold Farm	Sand and gravel	Surface mineral working	Valid	18/5/67

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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

Features are displayed on the Mining and ground workings map on **page 140 >**

ID	Location	Name	Commodity	Class	Likelihood
12	586m NW	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

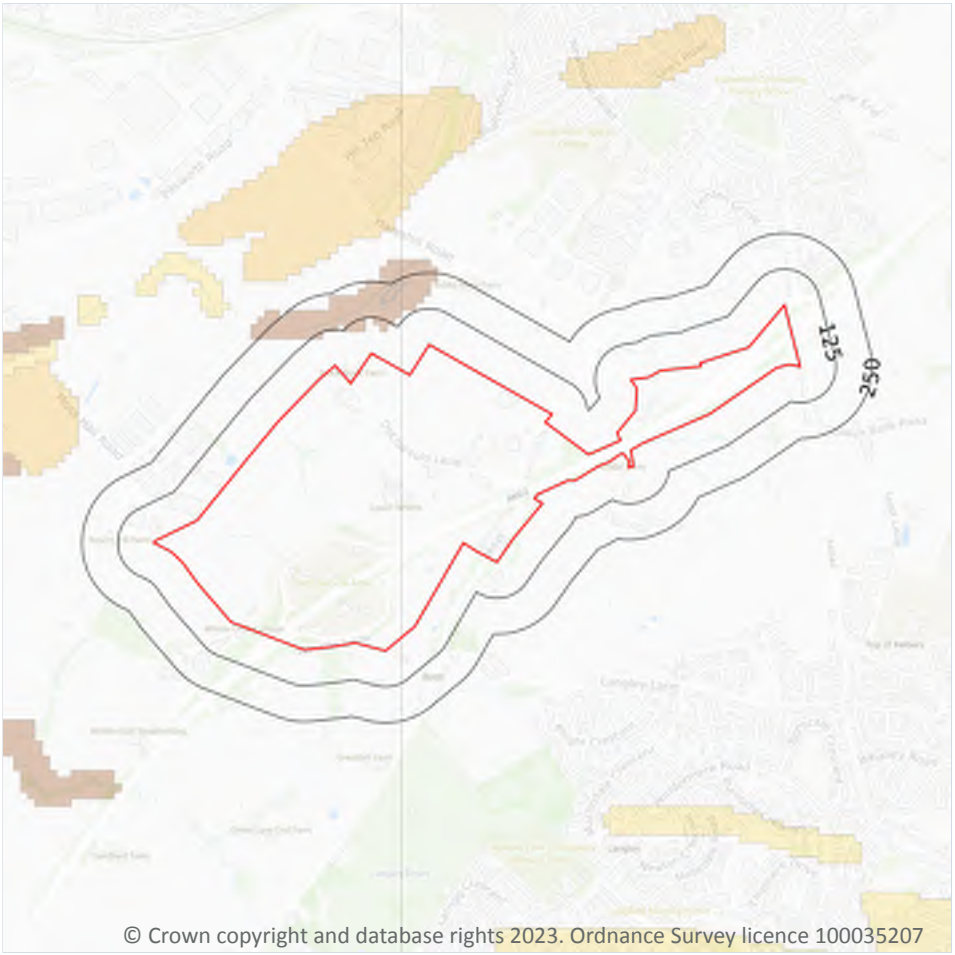
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

Greater than 30%

Between 10% and 30%

Between 5% and 10%

Between 3% and 5%

Between 1% and 3%

Less than 1%

20.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 154 >**

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	55

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**25 - 35 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
5m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
27m SW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m W	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
30m E	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
42m E	15 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.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

Northern Gateway

Order Details

Date: 11/12/2023

Your ref: Northern Gateway

Our Ref: GSIP-2023-14200-16018_RR_C

Site Details

Location: 383882 407627

Area: 74.34 ha

Authority: Bury Metropolitan Borough Council , Rochdale Metropolitan Borough Council



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Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	13	0	16	25	-
16 >	1.2 >	Historical tanks >	1	0	5	7	-
16 >	1.3 >	Historical energy features >	0	0	2	0	-
17	1.4	Historical petrol stations	0	0	0	0	-
17 >	1.5 >	Historical garages >	0	2	1	0	-
18	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
19 >	2.1 >	Historical industrial land uses >	16	0	19	35	-
22 >	2.2 >	Historical tanks >	1	0	9	10	-
23 >	2.3 >	Historical energy features >	0	0	4	0	-
24	2.4	Historical petrol stations	0	0	0	0	-
24 >	2.5 >	Historical garages >	0	2	2	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
26	3.5	Historical waste sites	0	0	0	0	-
26 >	3.6 >	Licensed waste sites >	0	0	0	2	-
27 >	3.7 >	Waste exemptions >	55	0	36	41	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
38 >	4.1 >	Recent industrial land uses >	2	2	6	-	-
39 >	4.2 >	Current or recent petrol stations >	0	1	0	1	-
40	4.3	Electricity cables	0	0	0	0	-
40	4.4	Gas pipelines	0	0	0	0	-
40	4.5	Sites determined as Contaminated Land	0	0	0	0	-

40	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
40	4.7	Regulated explosive sites	0	0	0	0	-
41	4.8	Hazardous substance storage/usage	0	0	0	0	-
41	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
41	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
41 >	4.11 >	Licensed pollutant release (Part A(2)/B) >	0	0	1	1	-
42	4.12	Radioactive Substance Authorisations	0	0	0	0	-
42 >	4.13 >	Licensed Discharges to controlled waters >	0	0	7	9	-
44	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
45	4.15	Pollutant release to public sewer	0	0	0	0	-
45	4.16	List 1 Dangerous Substances	0	0	0	0	-
45	4.17	List 2 Dangerous Substances	0	0	0	0	-
45 >	4.18 >	Pollution Incidents (EA/NRW) >	10	0	4	1	-
47	4.19	Pollution inventory substances	0	0	0	0	-
47	4.20	Pollution inventory waste transfers	0	0	0	0	-
48	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
49 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
51 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
53 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
55	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
55	5.5	Groundwater vulnerability- local information	None (within 0m)				
56 >	5.6 >	Groundwater abstractions >	0	0	0	0	15
60 >	5.7 >	Surface water abstractions >	0	0	0	0	6
62 >	5.8 >	Potable abstractions >	0	0	0	0	2
63	5.9	Source Protection Zones	0	0	0	0	-
63	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
64 >	6.1 >	Water Network (OS MasterMap) >	15	0	8	-	-

66 >	6.2 >	Surface water features >	1	0	5	-	-
67 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
67 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
67 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
70	7.2	Historical Flood Events	0	0	0	-	-
70	7.3	Flood Defences	0	0	0	-	-
70	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
70	7.5	Flood Storage Areas	0	0	0	-	-
71 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
72 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
73 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
75 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
76	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
77	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
77	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
77	10.4	Special Protection Areas (SPA)	0	0	0	0	0
77	10.5	National Nature Reserves (NNR)	0	0	0	0	0
78 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	1
78	10.7	Designated Ancient Woodland	0	0	0	0	0
78	10.8	Biosphere Reserves	0	0	0	0	0
78	10.9	Forest Parks	0	0	0	0	0
79	10.10	Marine Conservation Zones	0	0	0	0	0
79 >	10.11 >	Green Belt >	2	0	0	0	1
79	10.12	Proposed Ramsar sites	0	0	0	0	0

79	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
80	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
80	10.15	Nitrate Sensitive Areas	0	0	0	0	0
80 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	4
81 >	10.17 >	SSSI Impact Risk Zones >	2	-	-	-	-
82	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
83	11.1	World Heritage Sites	0	0	0	-	-
84	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
84	11.3	National Parks	0	0	0	-	-
84	11.4	Listed Buildings	0	0	0	-	-
84 >	11.5 >	Conservation Areas >	0	0	1	-	-
85	11.6	Scheduled Ancient Monuments	0	0	0	-	-
85	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	12.1 >	Agricultural Land Classification >	Grade 4 (within 250m)				
87	12.2	Open Access Land	0	0	0	-	-
87 >	12.3 >	Tree Felling Licences >	4	2	5	-	-
88	12.4	Environmental Stewardship Schemes	0	0	0	-	-
88	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	13.1 >	Priority Habitat Inventory >	16	0	2	-	-
90	13.2	Habitat Networks	0	0	0	-	-
90 >	13.3 >	Open Mosaic Habitat >	1	0	0	-	-
91	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
92 >	14.1 >	10k Availability >	Identified (within 500m)				
93 >	14.2 >	Artificial and made ground (10k) >	6	0	7	8	-
95 >	14.3 >	Superficial geology (10k) >	4	0	3	10	-

96	14.4	Landslip (10k)	0	0	0	0	-
97 >	14.5 >	Bedrock geology (10k) >	2	0	0	7	-
98 >	14.6 >	Bedrock faults and other linear features (10k) >	2	0	11	12	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
100 >	15.1 >	50k Availability >	Identified (within 500m)				
101 >	15.2 >	Artificial and made ground (50k) >	1	0	1	0	-
102 >	15.3 >	Artificial ground permeability (50k) >	1	0	-	-	-
103 >	15.4 >	Superficial geology (50k) >	4	0	3	3	-
104 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
104	15.6	Landslip (50k)	0	0	0	0	-
105	15.7	Landslip permeability (50k)	None (within 50m)				
106 >	15.8 >	Bedrock geology (50k) >	2	0	0	6	-
107 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
107 >	15.10 >	Bedrock faults and other linear features (50k) >	1	0	2	7	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
109 >	16.1 >	BGS Boreholes >	12	2	6	-	-
Page	Section	Natural ground subsidence >					
111 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
112 >	17.2 >	Running sands >	Very low (within 50m)				
113 >	17.3 >	Compressible deposits >	Moderate (within 50m)				
115 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
116 >	17.5 >	Landslides >	Moderate (within 50m)				
118 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
120 >	18.1 >	BritPits >	3	0	2	1	-
122 >	18.2 >	Surface ground workings >	18	0	14	-	-
123 >	18.3 >	Underground workings >	0	0	0	0	7
124	18.4	Underground mining extents	0	0	0	0	-
124 >	18.5 >	Historical Mineral Planning Areas >	2	0	1	1	-

124 >	18.6 >	Non-coal mining >	0	0	0	0	1
125	18.7	JPB mining areas	None (within 0m)				
125	18.8	The Coal Authority non-coal mining	0	0	0	0	-
125	18.9	Researched mining	0	0	0	0	-
126	18.10	Mining record office plans	0	0	0	0	-
126	18.11	BGS mine plans	0	0	0	0	-
126 >	18.12 >	Coal mining >	Identified (within 0m)				
126	18.13	Brine areas	None (within 0m)				
127	18.14	Gypsum areas	None (within 0m)				
127	18.15	Tin mining	None (within 0m)				
127	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
128	19.1	Natural cavities	0	0	0	0	-
128	19.2	Mining cavities	0	0	0	0	0
128	19.3	Reported recent incidents	0	0	0	0	-
128	19.4	Historical incidents	0	0	0	0	-
129	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
130 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
132 >	21.1 >	BGS Estimated Background Soil Chemistry >	27	0	-	-	-
134	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
134	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
135	22.1	Underground railways (London)	0	0	0	-	-
135	22.2	Underground railways (Non-London)	0	0	0	-	-
135	22.3	Railway tunnels	0	0	0	-	-
135	22.4	Historical railway and tunnel features	0	0	0	-	-
135	22.5	Royal Mail tunnels	0	0	0	-	-

136	22.6	Historical railways	0	0	0	-	-
136	22.7	Railways	0	0	0	-	-
136	22.8	Crossrail 1	0	0	0	0	-
136	22.9	Crossrail 2	0	0	0	0	-
136	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 74.34ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 74.34ha

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 74.34ha

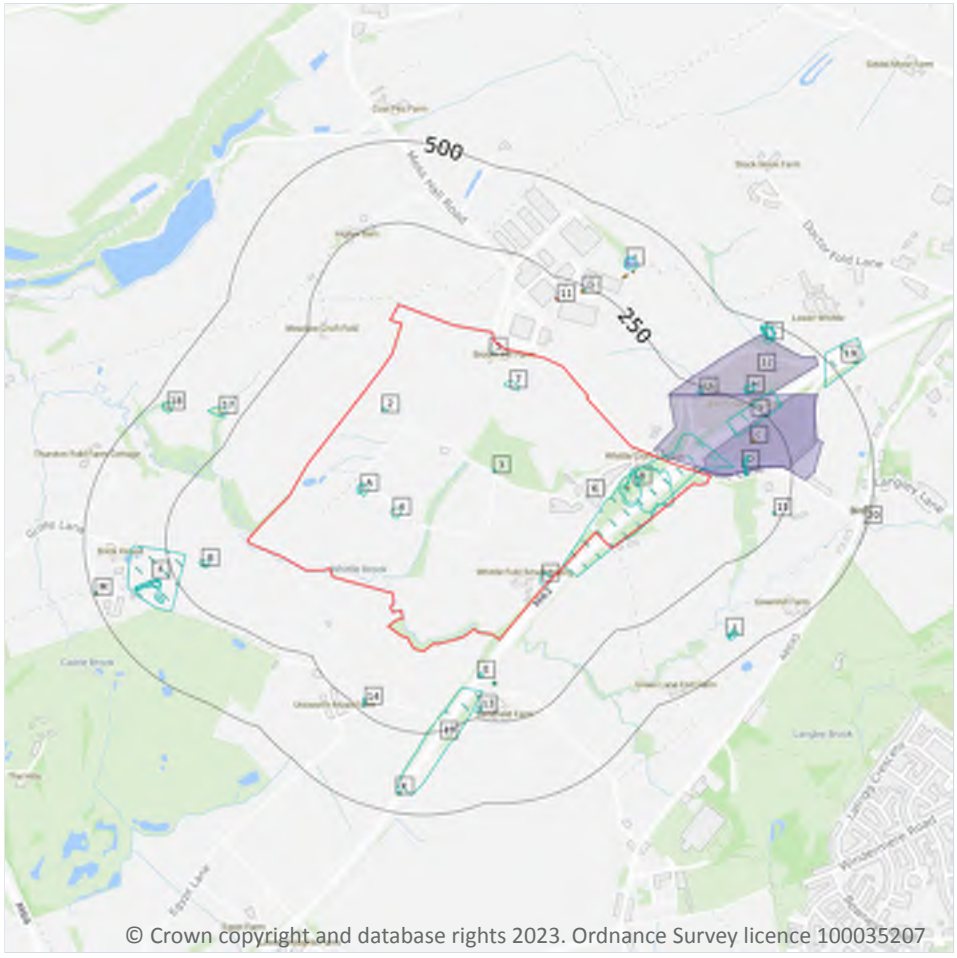
Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 74.34ha

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	54

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 13 >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Pit	1965	691091

ID	Location	Land use	Dates present	Group ID
2	On site	Sand Pit	1851	643777
3	On site	Sand Pit	1851	643778
4	On site	Unspecified Tank	1965	674848
5	On site	Pump	1851	675596
6	On site	Pump	1851	675601
7	On site	Unspecified Pit	1908 - 1938	749732
A	On site	Unspecified Pit	1974	691090
A	On site	Unspecified Tank	1907	674849
B	On site	Sand Pit	1851	643779
B	On site	Sand Quarry	1965	665372
B	On site	Refuse Heap	1955	677974
B	On site	Cuttings	1974 - 1981	708487
D	104m E	Unspecified Ground Workings	1932	648186
D	105m E	Unspecified Heap	1938	650933
E	114m S	Sand Pit	1851	643941
E	129m S	Unspecified Tank	1915	715433
E	132m S	Unspecified Tank	1932 - 1938	721008
E	134m S	Unspecified Tank	1955	738766
E	134m S	Unspecified Tank	1923	781622
8	136m W	Unspecified Pit	1915	691088
9	146m E	Cuttings	1981	642588
10	147m S	Cuttings	1974 - 1981	698402
F	195m W	Old Brick Field	1891	684716
13	209m S	Sand Pit	1851	643943
14	211m SW	Unspecified Ground Workings	1932 - 1938	715723
15	219m E	Unspecified Tank	1981	674846
16	225m E	Police Station	1981	680443
G	235m NE	Unspecified Tank	1981	674847

ID	Location	Land use	Dates present	Group ID
H	273m E	Unspecified Pit	1909	701887
H	281m E	Unspecified Pit	1955	704411
17	290m W	Unspecified Pit	1974 - 1981	767350
F	295m W	Unspecified Ground Workings	1923 - 1932	741001
F	298m W	Unspecified Ground Workings	1907	738009
F	302m W	Unspecified Ground Workings	1891	733797
F	319m W	Unspecified Pit	1907	691092
I	358m NE	Unspecified Pit	1928 - 1938	717895
J	422m SE	Unspecified Ground Workings	1915 - 1932	715849
J	422m SE	Unspecified Ground Workings	1938	724705
J	431m SE	Sand Pit	1907	643942
K	435m S	Unspecified Tank	1915	742534
K	437m S	Unspecified Tank	1932 - 1955	764469
18	440m W	Unspecified Pit	1965	691089
K	441m S	Unspecified Tank	1923	695877
L	442m NE	Unspecified Old Quarries	1890	657761
19	443m E	Cuttings	1975 - 1982	746391
L	457m NE	Unspecified Pit	1938	727450
L	457m NE	Unspecified Pit	1909 - 1928	742360
L	462m NE	Unspecified Pit	1955	694771
M	487m W	Unspecified Tank	1932 - 1938	740090
M	487m W	Unspecified Tank	1923	787789
M	488m W	Unspecified Tank	1955	777068
M	488m W	Unspecified Tank	1915	779986
20	490m E	Pump	1851	675602

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	13

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

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
B	On site	Tanks	1956	87868
E	129m S	Unspecified Tank	1992	102948
E	130m S	Unspecified Tank	1956 - 1975	91698
E	139m S	Unspecified Tank	1922 - 1932	94702
C	163m E	Unspecified Tank	1975 - 1992	88857
G	228m NE	Unspecified Tank	1980 - 1992	98192
I	326m NE	Tanks	1980 - 1992	95895
I	357m NE	Tanks	1992	89834
I	359m NE	Tanks	1980	95622
K	435m S	Unspecified Tank	1956	84645
K	443m S	Unspecified Tank	1922 - 1932	103792
M	487m W	Unspecified Tank	1956	84657
M	491m W	Unspecified Tank	1922 - 1932	93095

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	2

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

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
C	170m E	Electricity Substation	1975 - 1992	56768
11	179m NE	Electricity Substation	1980 - 1992	55593

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	3

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

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
C	8m E	Service Area	1992	17221
C	11m E	Service Area	1975	17177
12	187m NE	Service Area	1980 - 1992	19791

This data is sourced from Ordnance Survey / Groundsure.

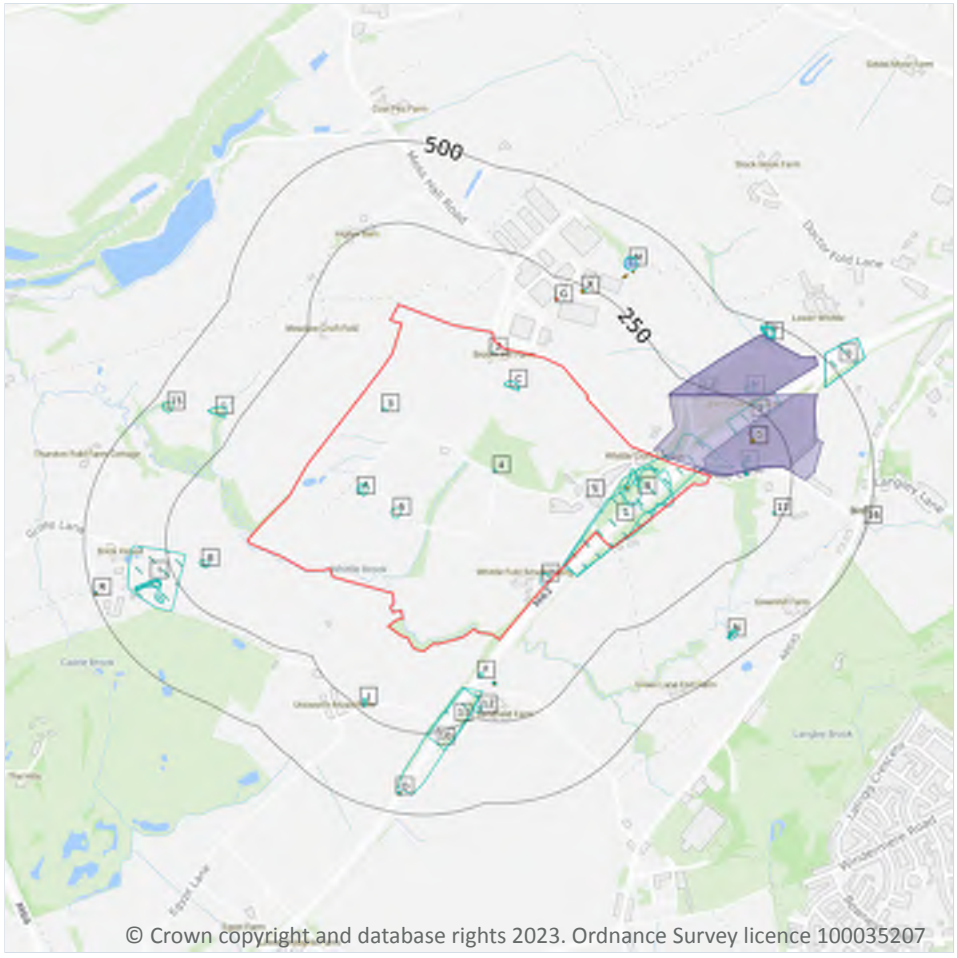
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	70

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 19 >

ID	Location	Land Use	Date	Group ID
1	On site	Cuttings	1974	708487
2	On site	Pump	1851	675596
3	On site	Sand Pit	1851	643777

ID	Location	Land Use	Date	Group ID
4	On site	Sand Pit	1851	643778
5	On site	Pump	1851	675601
6	On site	Unspecified Tank	1965	674848
7	On site	Unspecified Pit	1965	691091
A	On site	Unspecified Tank	1907	674849
A	On site	Unspecified Pit	1974	691090
B	On site	Cuttings	1981	708487
B	On site	Sand Pit	1851	643779
B	On site	Sand Quarry	1965	665372
B	On site	Refuse Heap	1955	677974
C	On site	Unspecified Pit	1938	749732
C	On site	Unspecified Pit	1928	749732
C	On site	Unspecified Pit	1908	749732
E	104m E	Unspecified Ground Workings	1932	648186
E	105m E	Unspecified Heap	1938	650933
F	114m S	Sand Pit	1851	643941
F	129m S	Unspecified Tank	1915	715433
F	132m S	Unspecified Tank	1932	721008
F	132m S	Unspecified Tank	1938	721008
F	134m S	Unspecified Tank	1955	738766
F	134m S	Unspecified Tank	1923	781622
8	136m W	Unspecified Pit	1915	691088
9	146m E	Cuttings	1981	642588
10	147m S	Cuttings	1974	698402
11	151m S	Cuttings	1981	698402
I	195m W	Old Brick Field	1891	684716
12	209m S	Sand Pit	1851	643943
J	211m SW	Unspecified Ground Workings	1932	715723

ID	Location	Land Use	Date	Group ID
J	215m SW	Unspecified Ground Workings	1938	715723
13	219m E	Unspecified Tank	1981	674846
14	225m E	Police Station	1981	680443
K	235m NE	Unspecified Tank	1981	674847
H	273m E	Unspecified Pit	1909	701887
H	281m E	Unspecified Pit	1955	704411
L	290m W	Unspecified Pit	1981	767350
L	290m W	Unspecified Pit	1974	767350
I	295m W	Unspecified Ground Workings	1932	741001
I	298m W	Unspecified Ground Workings	1907	738009
I	298m W	Unspecified Ground Workings	1923	741001
I	302m W	Unspecified Ground Workings	1891	733797
I	319m W	Unspecified Pit	1907	691092
M	358m NE	Unspecified Pit	1938	717895
M	358m NE	Unspecified Pit	1928	717895
N	422m SE	Unspecified Ground Workings	1932	715849
N	422m SE	Unspecified Ground Workings	1915	715849
N	422m SE	Unspecified Ground Workings	1923	715849
N	422m SE	Unspecified Ground Workings	1938	724705
N	431m SE	Sand Pit	1907	643942
O	435m S	Unspecified Tank	1915	742534
O	437m S	Unspecified Tank	1955	764469
O	438m S	Unspecified Tank	1932	764469
O	438m S	Unspecified Tank	1938	764469
15	440m W	Unspecified Pit	1965	691089
O	441m S	Unspecified Tank	1923	695877
P	442m NE	Unspecified Old Quarries	1890	657761
Q	443m E	Cuttings	1975	746391

ID	Location	Land Use	Date	Group ID
Q	443m E	Cuttings	1982	746391
P	457m NE	Unspecified Pit	1938	727450
P	457m NE	Unspecified Pit	1928	742360
P	457m NE	Unspecified Pit	1909	742360
P	462m NE	Unspecified Pit	1955	694771
R	487m W	Unspecified Tank	1932	740090
R	487m W	Unspecified Tank	1938	740090
R	487m W	Unspecified Tank	1923	787789
R	488m W	Unspecified Tank	1955	777068
R	488m W	Unspecified Tank	1915	779986
16	490m E	Pump	1851	675602

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	20

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 19 >

ID	Location	Land Use	Date	Group ID
B	On site	Tanks	1956	87868
F	129m S	Unspecified Tank	1992	102948
F	130m S	Unspecified Tank	1956	91698
F	130m S	Unspecified Tank	1975	91698
F	139m S	Unspecified Tank	1922	94702
F	139m S	Unspecified Tank	1932	94702
D	163m E	Unspecified Tank	1992	88857
D	165m E	Unspecified Tank	1975	88857
K	228m NE	Unspecified Tank	1992	98192

ID	Location	Land Use	Date	Group ID
K	229m NE	Unspecified Tank	1980	98192
M	326m NE	Tanks	1992	95895
M	328m NE	Tanks	1980	95895
M	357m NE	Tanks	1992	89834
M	359m NE	Tanks	1980	95622
O	435m S	Unspecified Tank	1956	84645
O	443m S	Unspecified Tank	1922	103792
O	443m S	Unspecified Tank	1932	103792
R	487m W	Unspecified Tank	1956	84657
R	491m W	Unspecified Tank	1922	93095
R	491m W	Unspecified Tank	1932	93095

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	4

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 19 >

ID	Location	Land Use	Date	Group ID
D	170m E	Electricity Substation	1992	56768
D	172m E	Electricity Substation	1975	56768
G	179m NE	Electricity Substation	1992	55593
G	179m NE	Electricity Substation	1980	55593

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	4

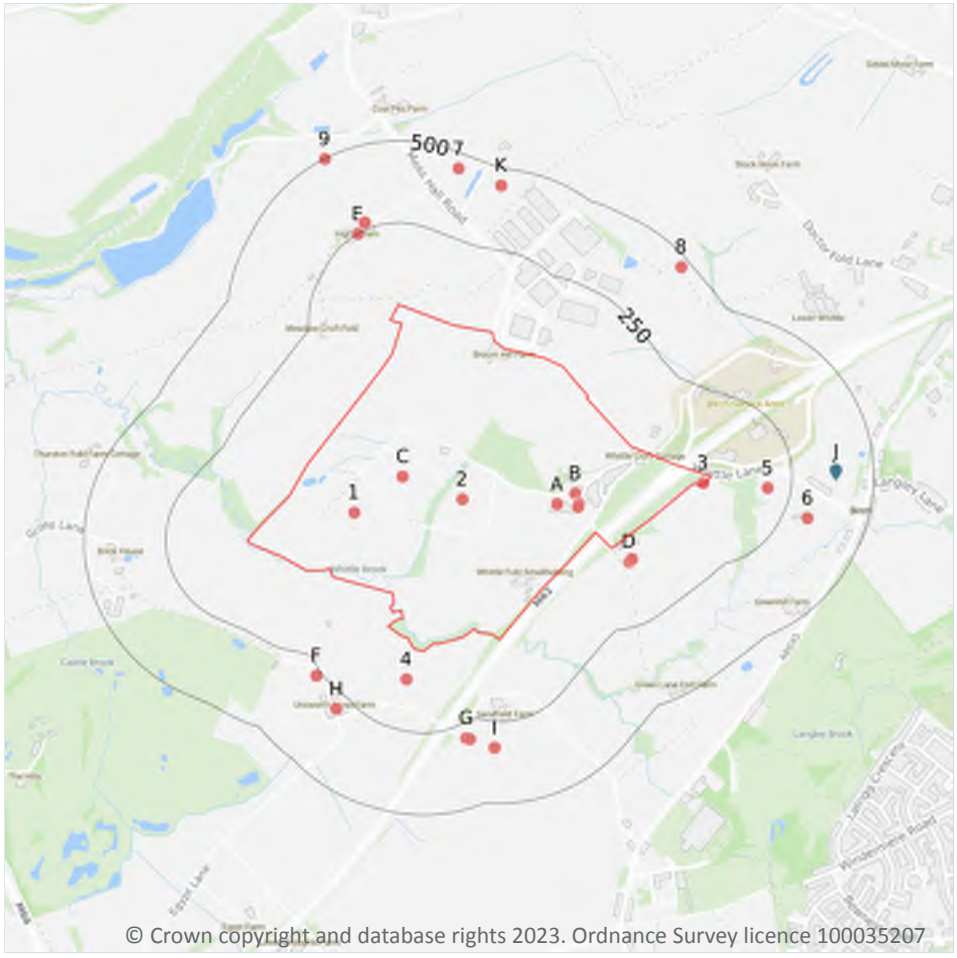
Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on page 19 >

ID	Location	Land Use	Date	Group ID
D	8m E	Service Area	1992	17221
D	11m E	Service Area	1975	17177
H	187m NE	Service Area	1992	19791
H	189m NE	Service Area	1980	19791

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

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	0

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.

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	2

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

Features are displayed on the Waste and landfill map on page 25 >

ID	Location	Details		
J	383m E	Site Name: Land Off Whittle Lane Site Address: Land Off Whittle Lane, Heywood, Lancashire, OL10 2QL Correspondence Address: -	Type of Site: Use of waste for reclamation etc 100,000 tps Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: HOP058 EPR reference: EA/EPR/CB3708TM/A001 Operator: P Casey Enviro Ltd Waste Management licence No: 402303 Annual Tonnage: 100000	Issue Date: 03/06/2015 Effective Date: - Modified: - Surrendered Date: - Expiry Date: - Cancelled Date: - Status: Issued

ID	Location	Details		
J	383m E	Site Name: Land Off Whittle Lane Site Address: Land Off Whittle Lane, Land Off Whittle Lane, Heywood, Lancashire, OL10 2QL Correspondence Address: -	Type of Site: Use of waste in a deposit for recovery op Size: 25000 tonnes Environmental Permitting Regulations (Waste) Licence Number: 654740 EPR reference: EA/EPR/CB3708TM Operator: P. Casey Enviro Limited Waste Management licence No: 402303 Annual Tonnage: 0	Issue Date: 03/06/2015 Effective Date: 03/06/2015 Modified: 03/06/2015 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	132

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 25 >

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5750JS/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
2	On site	Whittle Dairy Farm Heywood Lancashire ol10 2rd	EPR/ZE5880ZF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
3	On site	Lower Whittle Farm Heywood Lancasshire OL10 2QE	EPR/WE5387WT/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
A	On site	-	WEX207757	Storing waste exemption	On a Farm	Storage of sludge
A	On site	-	WEX207757	Disposing of waste exemption	On a Farm	Burning waste in the open
A	On site	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX207757	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
A	On site	-	WEX207757	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
A	On site	-	WEX207757	Treating waste exemption	On a Farm	Recovery of scrap metal
A	On site	-	WEX207757	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	On site	-	WEX207757	Treating waste exemption	On a Farm	Screening and blending of waste
A	On site	-	WEX207757	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
A	On site	-	WEX207757	Using waste exemption	On a Farm	Use of mulch
A	On site	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on non-agricultural land to confer benefit
A	On site	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	On site	-	WEX336737	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	On site	-	WEX336737	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit
A	On site	-	WEX336737	Using waste exemption	On a farm	Use of mulch
A	On site	-	WEX336737	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	On site	-	WEX336737	Treating waste exemption	On a farm	Screening and blending of waste
A	On site	-	WEX336737	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	-	WEX336737	Treating waste exemption	On a farm	Recovery of scrap metal
A	On site	-	WEX336737	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
A	On site	-	WEX336737	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
A	On site	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
A	On site	-	WEX336737	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	-	WEX336737	Storing waste exemption	On a farm	Storage of sludge
B	On site	WHITTLEFOLD FARM, WHITTLE LANE, HEYWOOD, OL10 2RD	WEX202425	Using waste exemption	Not on a farm	Use of waste in construction
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Storing waste exemption	On a Farm	Storage of waste in a secure place
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Using waste exemption	On a Farm	Use of waste in construction
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste in construction
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of mulch
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel

ID	Location	Site	Reference	Category	Sub-Category	Description
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste for a specified purpose
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste food
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Screening and blending of waste
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch

ID	Location	Site	Reference	Category	Sub-Category	Description
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste derived biodiesel as fuel
B	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Storing waste exemption	On a farm	Storage of waste in a secure place
B	On site	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Using waste exemption	On a farm	Use of waste in construction
C	On site	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5250JV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	On site	Whittle Dairy Farm Heywood Lancashire OL10 2RD	EPR/CE5080ZD/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	64m SE	-	WEX233836	Storing waste exemption	On a Farm	Storage of sludge
D	64m SE	-	WEX138347	Storing waste exemption	On a farm	Storage of sludge
D	64m SE	-	WEX087102	Storing waste exemption	On a farm	Storage of sludge
D	64m SE	Wittle Brook Farm Wittle Lane Heywood OL10 2RN	EPR/RE5549EN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	64m SE	Hesketh Villa Whittle Lane HEYWOOD Lancashire OL10 2RN	EPR/SE5956FR/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
4	98m S	-	WEX173397	Storing waste exemption	On a farm	Storage of sludge
5	178m E	P Casey Enviro Ltd Whittle Lane HEYWOOD Lancashire OL10 2RB	EPR/JE5443ZZ/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of waste for a specified purpose
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of mulch
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of waste in construction
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Storing waste exemption	On a farm	Storage of waste in a secure place
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Disposing of waste exemption	On a farm	Burning waste in the open
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Disposing of waste exemption	On a farm	Burning waste in the open
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of waste in construction
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of mulch
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of waste for a specified purpose
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Storing waste exemption	On a Farm	Storage of waste in a secure place
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Disposing of waste exemption	On a Farm	Burning waste in the open
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of mulch
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of waste for a specified purpose
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
E	249m NW	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of waste in construction
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Disposing of waste exemption	On a Farm	Burning waste in the open
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Using waste exemption	On a Farm	Use of waste in construction
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Disposing of waste exemption	On a Farm	Burning waste in the open
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Using waste exemption	On a Farm	Use of waste in construction
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Disposing of waste exemption	On a farm	Burning waste in the open
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Using waste exemption	On a farm	Use of waste in construction
F	269m SW	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open

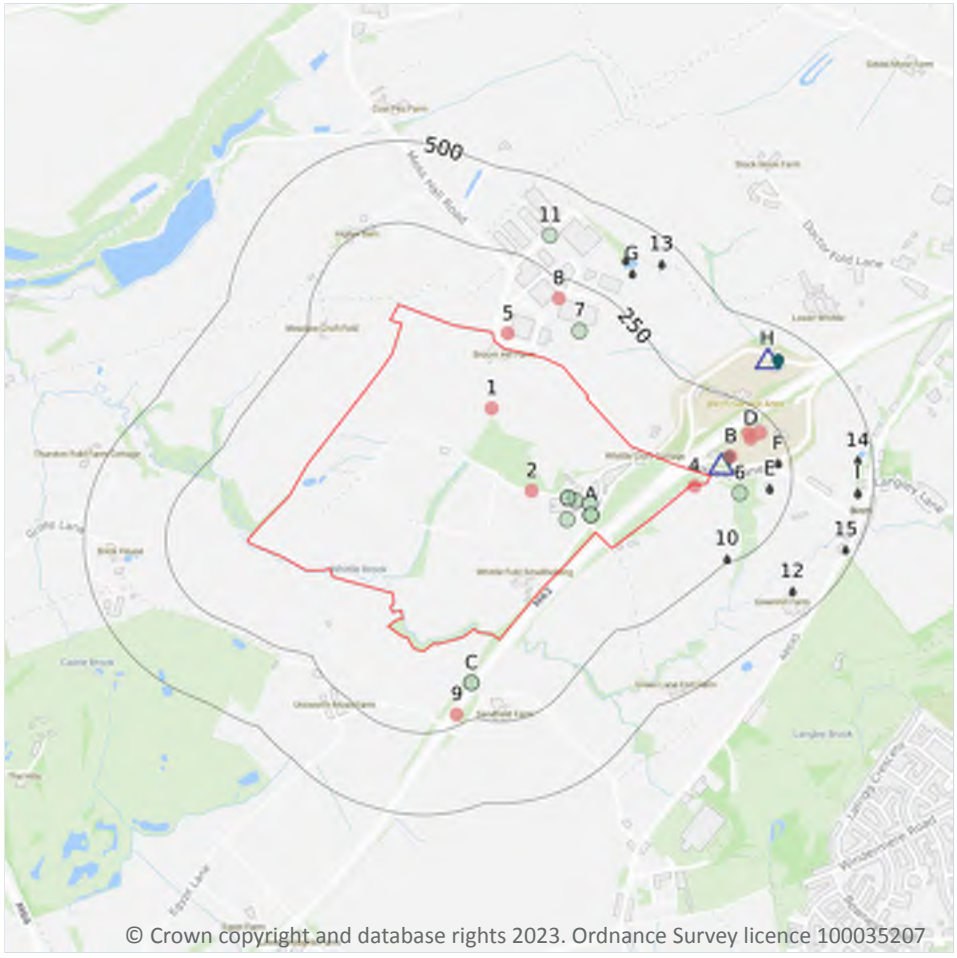
ID	Location	Site	Reference	Category	Sub-Category	Description
F	269m SW	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Using waste exemption	On a farm	Use of waste in construction
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Disposing of waste exemption	On a farm	Burning waste in the open
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Using waste exemption	On a farm	Use of waste in construction
F	269m SW	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Disposing of waste exemption	On a farm	Burning waste in the open
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
E	270m N	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
G	296m S	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/SE5548EZ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
H	298m SW	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX167290	Using waste exemption	On a farm	Use of waste in construction
H	298m SW	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX006923	Using waste exemption	On a farm	Use of waste in construction
H	298m SW	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX304511	Using waste exemption	On a farm	Use of waste in construction
G	304m S	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/HE5244GN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
6	323m E	GRANGE FARM, WHITTLE LANE, HEYWOOD, OL10 2RB	WEX281290	Using waste exemption	On a Farm	Use of waste in construction
I	333m S	-	WEX224909	Storing waste exemption	On a Farm	Storage of sludge
I	333m S	-	WEX148466	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
I	333m S	-	WEX126623	Storing waste exemption	On a farm	Storage of sludge
I	333m S	-	WEX356536	Storing waste exemption	On a farm	Storage of sludge
I	333m S	-	WEX259793	Storing waste exemption	On a farm	Storage of sludge
I	333m S	-	WEX289499	Storing waste exemption	On a farm	Storage of sludge
K	446m N	-	WEX227640	Storing waste exemption	On a Farm	Storage of sludge
K	446m N	-	WEX151549	Storing waste exemption	On a Farm	Storage of sludge
K	446m N	-	WEX356548	Storing waste exemption	On a farm	Storage of sludge
K	446m N	-	WEX259862	Storing waste exemption	On a farm	Storage of sludge
K	446m N	-	WEX292468	Storing waste exemption	On a farm	Storage of sludge
7	451m N	-	WEX127088	Storing waste exemption	On a farm	Storage of sludge
8	471m NE	Lower Whittle Farm Doctor Fold Lane HEYWOOD Lancashire OL10 2QE	EPR/VE5746KJ /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
9	499m NW	-	WEX112724	Storing waste exemption	On a farm	Storage of sludge

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

4 Current industrial land use



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Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

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

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	10

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 38 >

ID	Location	Company	Address	Activity	Category
1	On site	Pump House	Greater Manchester, OL10	Water Pumping Stations	Industrial Features
2	On site	Mast (Telecommunication)	Greater Manchester, OL10	Telecommunications Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	7m E	Mast (Telecommunication)	Greater Manchester, OL10	Telecommunications Features	Infrastructure and Facilities
5	43m N	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
B	86m E	BP Service Station	Birch West Motorway Services, M62 Motorway, Heywood, Greater Manchester, OL10 2QH	Petrol and Fuel Stations	Road and Rail
D	169m E	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
D	177m E	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
8	187m NE	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
D	201m E	Birch Westbound Motorway Service Area	Greater Manchester, OL10	Motorway Service Stations	Road and Rail
9	218m S	Gantry	Greater Manchester, M24	Travelling Cranes and Gantries	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on page 38 >

ID	Location	Company	Address	LPG	Status
B	48m E	BP	M62 J18-19, Birch, Heywood, Greater Manchester, OL10 2QH	No	Open
H	398m NE	BP	M62 J18-19, Birch, Heywood, Greater Manchester, OL10 2QH	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	2

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

Features are displayed on the Current industrial land use map on page 38 >

ID	Location	Address	Details	
B	76m E	Moto Hospitality Ltd, Birch Services (West), Heywood Old Road, Heywood, Lancashire, OL10 2QH	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
H	403m E	Moto Hospitality Ltd, Birch Services (East), Heywood Old Road, Heywood, Lancashire, OL10 2QH	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	16

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 38 >

ID	Location	Address	Details	
E	185m E	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991289 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/12/1988 Revocation Date: 31/10/1994
E	185m E	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991289 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/01/1900 Revocation Date: 22/12/1988
E	185m E	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016991289 Permit Version: 2 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 23/12/1988 Revocation Date: 31/10/1994
E	185m E	BIRCH TREE GRANGE, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 016991289 Permit Version: 3 Receiving Water: WHITTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1994 Revocation Date: -

ID	Location	Address	Details	
F	209m E	1 & 3 WHITTLE LA, HEYWOOD, LANCASHIRE, OL10 2RB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0170/1195 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/02/1970 Effective Date: 17/02/1970 Revocation Date: -
F	209m E	1 & 3 WHITTLE LA, HEYWOOD, LANCASHIRE, OL10 2RB	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0170/1195 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 17/02/1970 Effective Date: 17/02/1970 Revocation Date: -
10	236m E	GREEN LANE END FARM SWO, HAYWARD OLD ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991437 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 01/07/1991
G	352m NE	YEARGATE LTD, BIRCH INDUSTRIAL PARK, WHITTLE LANE, HEYWOOD, GREATER MANCHESTER, OL10 2SX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993303 Permit Version: 1 Receiving Water: SURF WTR DRN TO TRIB WHITTL BK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/11/1998 Effective Date: 06/11/1998 Revocation Date: -
G	375m NE	UNIT K BIRCH IND.EST, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991177 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 02/09/1987 Revocation Date: 01/10/1996
12	420m E	590 HEYWOOD RD BIRCH, BIRCH, HEYWOOD, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0169/1133 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 14/11/1969 Revocation Date: -
13	433m NE	LONDON CARRIERS LTD, BIRCH, HEYWOOD, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990242 Permit Version: 1 Receiving Water: TRIB WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 01/11/1980 Revocation Date: 01/10/1996

ID	Location	Address	Details	
14	452m E	ST MARY'S CHURCH, LANGLEY LANE, BIRCH-IN-HOPWOOD, MIDDLETON, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991065 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 20/12/1985 Revocation Date: -
I	452m E	622 & 624 HEYWOOD ROAD, MIDDLETON, MANCHESTER, OL10 2QL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0171/1339 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/01/1971 Effective Date: 25/01/1971 Revocation Date: -
I	452m E	622 & 624 HEYWOOD ROAD, MIDDLETON, MANCHESTER, OL10 2QL	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0171/1339 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 25/01/1971 Effective Date: 25/01/1971 Revocation Date: -
I	452m E	WHITE HART HOTEL, 701 HEYWOOD OLD ROAD, BIRCH, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991441 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 11/08/1989 Revocation Date: -
15	470m E	588 HEYWOOD OLD RD, BIRCH, HEYWOOD, LANCASHIRE, OL10 2QN	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 0169/1134 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: 14/11/1969 Effective Date: 14/11/1969 Revocation Date: -

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	15

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 38 >

ID	Location	Details	
3	On site	Incident Date: 03/05/2002 Incident Identification: 76525 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Commercial Waste:Household Waste:Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
A	On site	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 26/09/2001 Incident Identification: 33123 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 19/04/2001 Incident Identification: 2774 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	On site	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
6	103m E	Incident Date: 21/07/2002 Incident Identification: 93262 Pollutant: Sewage Materials Pollutant Description: Crude Sewage	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
7	122m NE	Incident Date: 05/11/2002 Incident Identification: 121012 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	141m S	Incident Date: 19/11/2002 Incident Identification: 121765 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	141m S	Incident Date: 19/11/2002 Incident Identification: 121765 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
11	344m N	Incident Date: 22/09/2003 Incident Identification: 193616 Pollutant: Organic Chemicals/Products Pollutant Description: Dyes and Inks	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

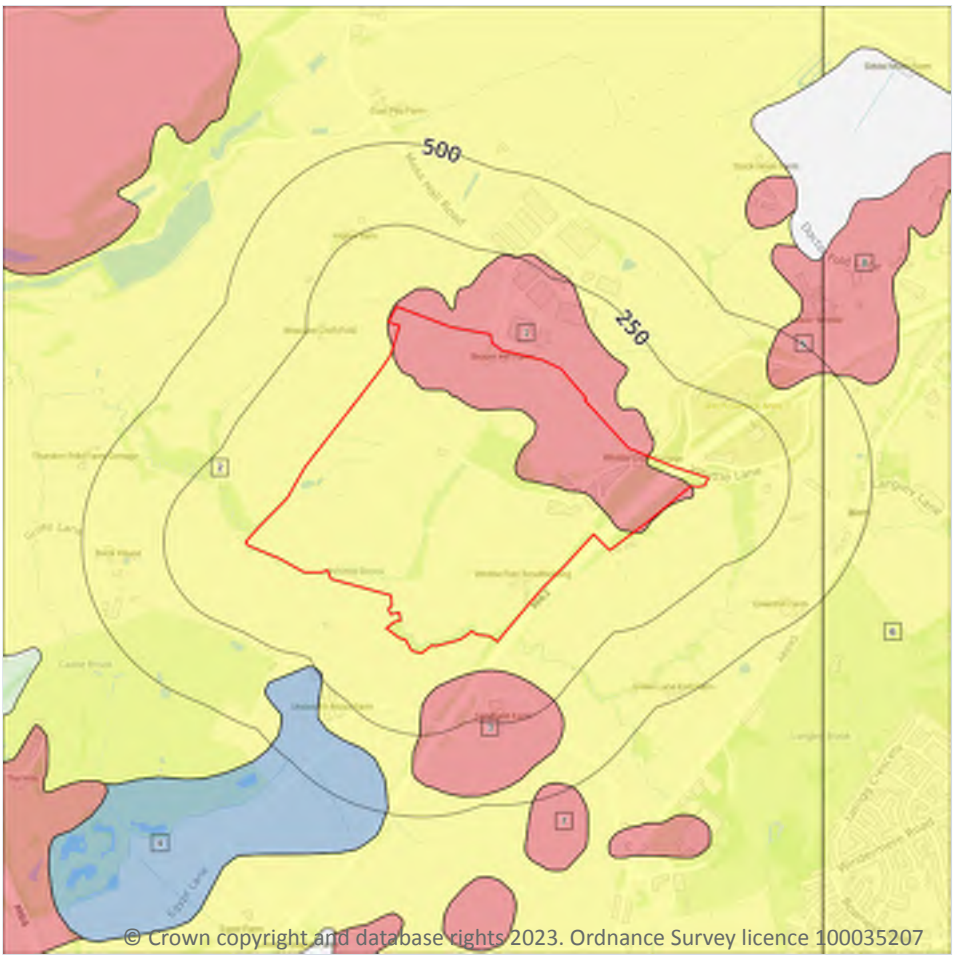
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	8

Aquifer status of groundwater held within superficial geology.

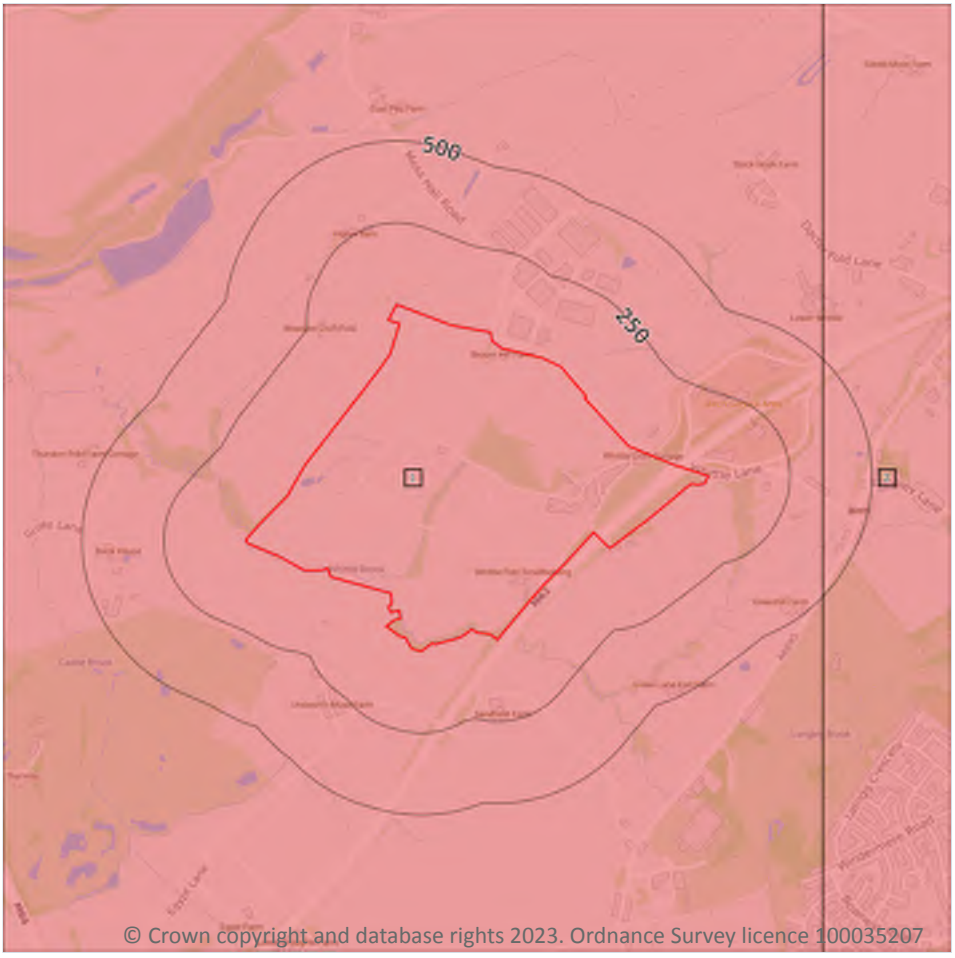
Features are displayed on the Hydrogeology map on page 49 >

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

ID	Location	Designation	Description
3	88m S	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
4	241m SW	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow
5	344m 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
6	350m E	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
7	463m S	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
8	474m 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.

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

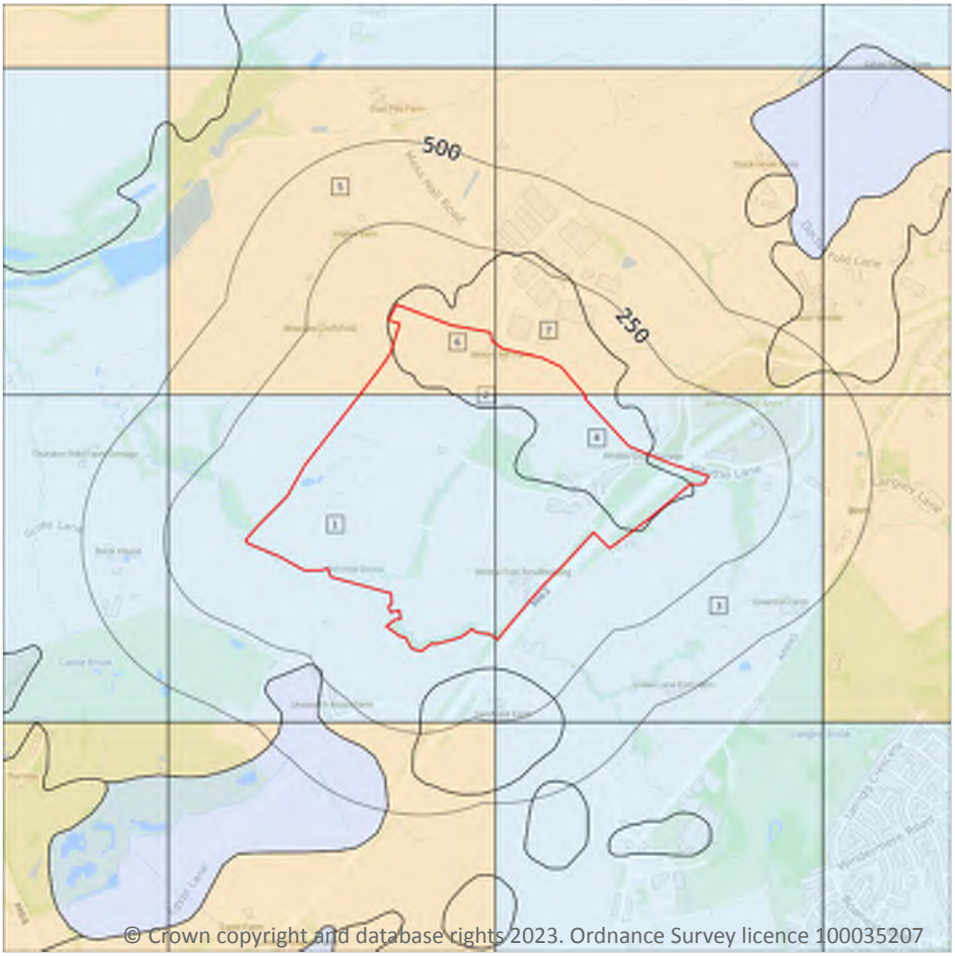
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 51 >

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	350m 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



Site Outline

Search buffers in metres (m)

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

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

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	7

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 53 >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



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Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	15

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 56 >

ID	Location	Details	
A	826m SW	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	826m SW	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	826m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
A	826m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -

ID	Location	Details	
A	826m SW	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	826m SW	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	857m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
A	857m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -

ID	Location	Details	
1	917m NW	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1327m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SIDDALL FOLD FARM,BIRCH" Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1327m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM,BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1327m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM, BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1487m NW	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -

ID	Location	Details	
-	1931m NW	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1931m NW	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	6

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 56 >

ID	Location	Details	
B	1043m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -

ID	Location	Details	
B	1043m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
B	1043m W	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
B	1043m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
B	1043m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

ID	Location	Details	
B	1043m W	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	2

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.

Features are displayed on the Abstractions and Source Protection Zones map on page 56 >

ID	Location	Details	
-	1931m NW	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1931m NW	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

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

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

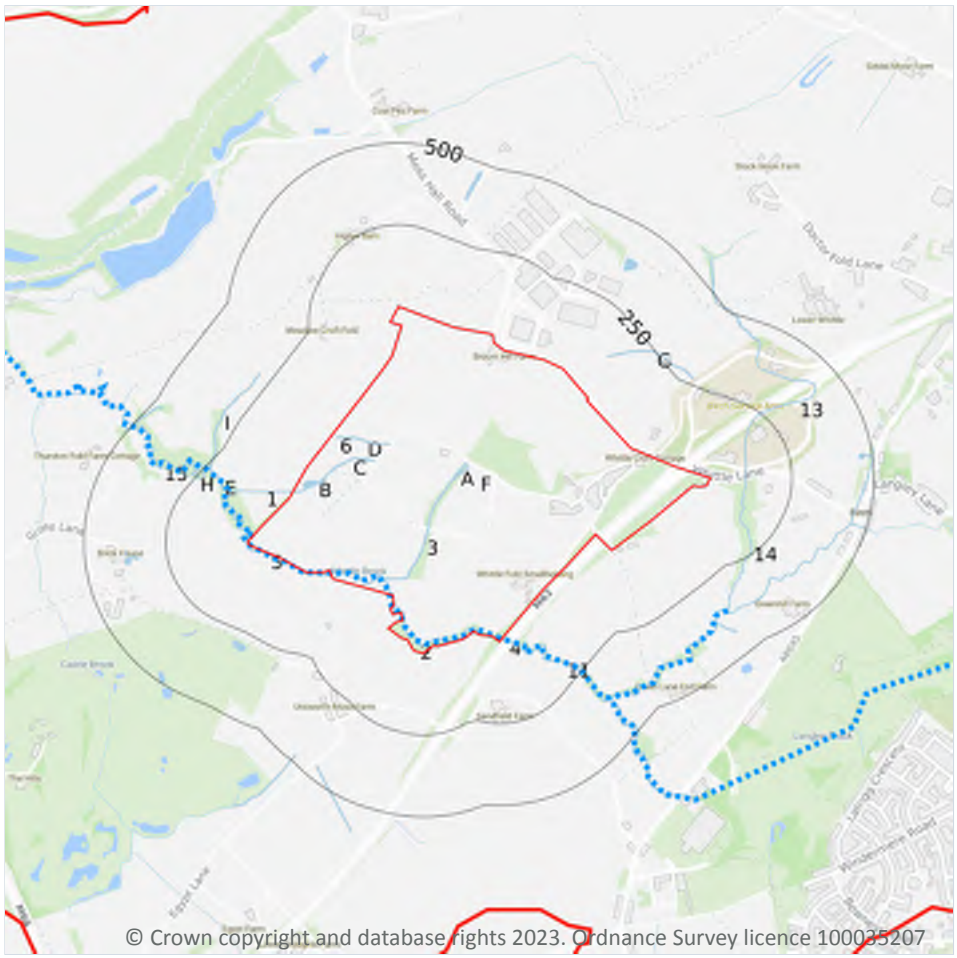
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	23

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 64 >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
6	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
11	58m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
13	108m E	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
14	108m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	128m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	147m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
H	230m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	236m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
15	237m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	6

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 64 >

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 64 >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
F	On site	River	Whittle Brook (Irwell)	GB112069061250	Roch Irk Medlock	Irwell

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on page 64 >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
9	On site	River	Whittle Brook (Irwell)	GB112069061250 !	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on page 64 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
F	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 !	Poor	Poor	Good	2019

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

High

Medium

Low

Very Low

Historical Flood Events

Areas Used for Flood Storage

Areas Benefiting from Flood Defences

Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	15

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 69 >

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on page 69 >

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

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

7.7 Flood Zone 3

Records within 50m	1

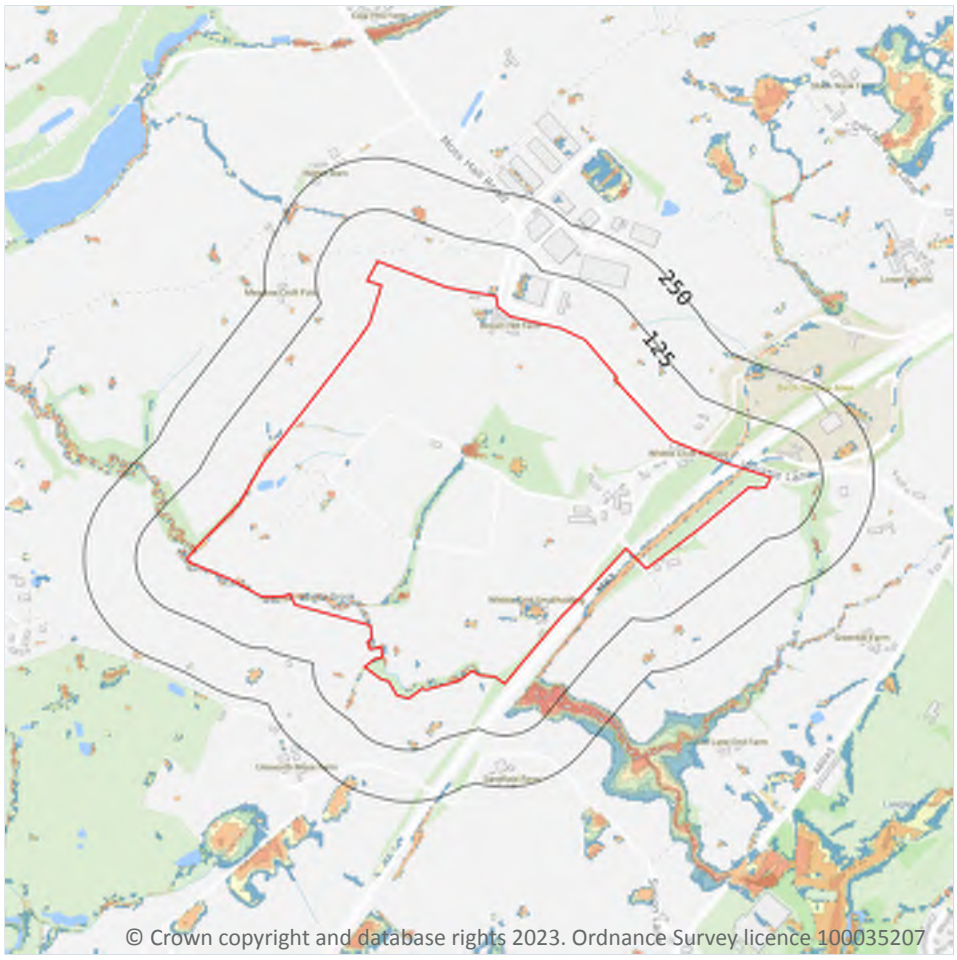
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on page 69 >

Location	Type
On site	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	1 in 30 year, Greater than 1.0m
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 73 >

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

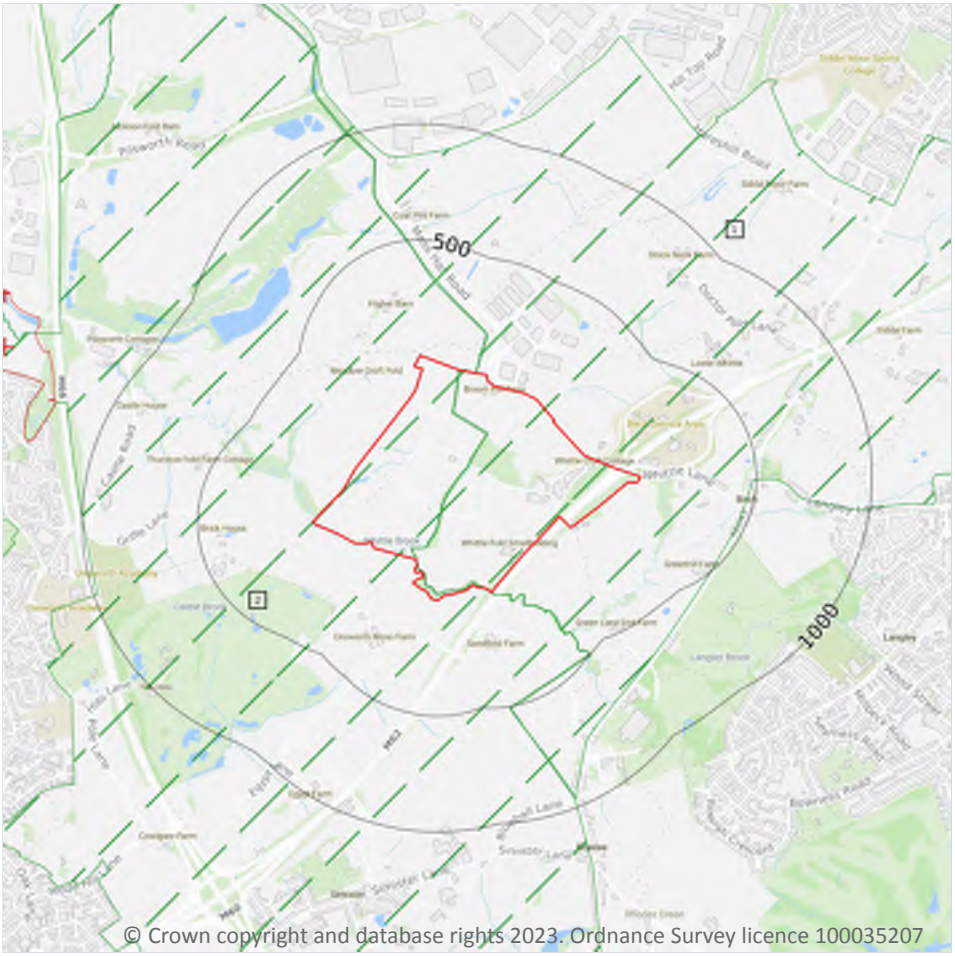
Highest risk on site	Moderate
Highest risk within 50m	Moderate

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

Features are displayed on the Groundwater flooding map on page 75 >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on page 76 >

ID	Location	Name	Data source
3	1225m W	Hollins Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	3

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

Features are displayed on the Environmental designations map on page 76 >

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Rochdale
2	On site	Merseyside and Greater Manchester	Bury
-	1903m S	Merseyside and Greater Manchester	Manchester

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

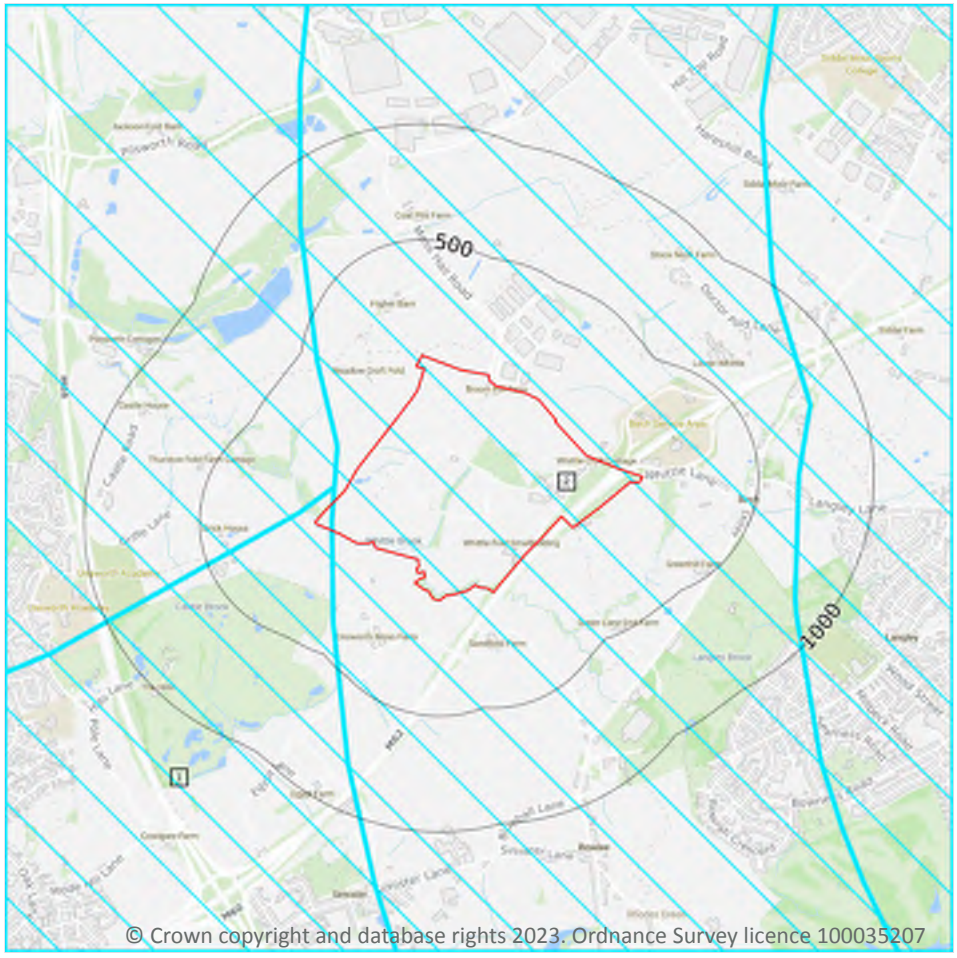
Records within 2000m	4

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

Location	Name	Type	NVZ ID	Status
1122m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1136m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1235m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1273m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	2

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 81 >

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". 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.

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	1

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

Features are displayed on the Visual and cultural designations map on page 83 >

ID	Location	Name	District	Date of designation
1	141m E	Birch Village	Rochdale	17/07/2013

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

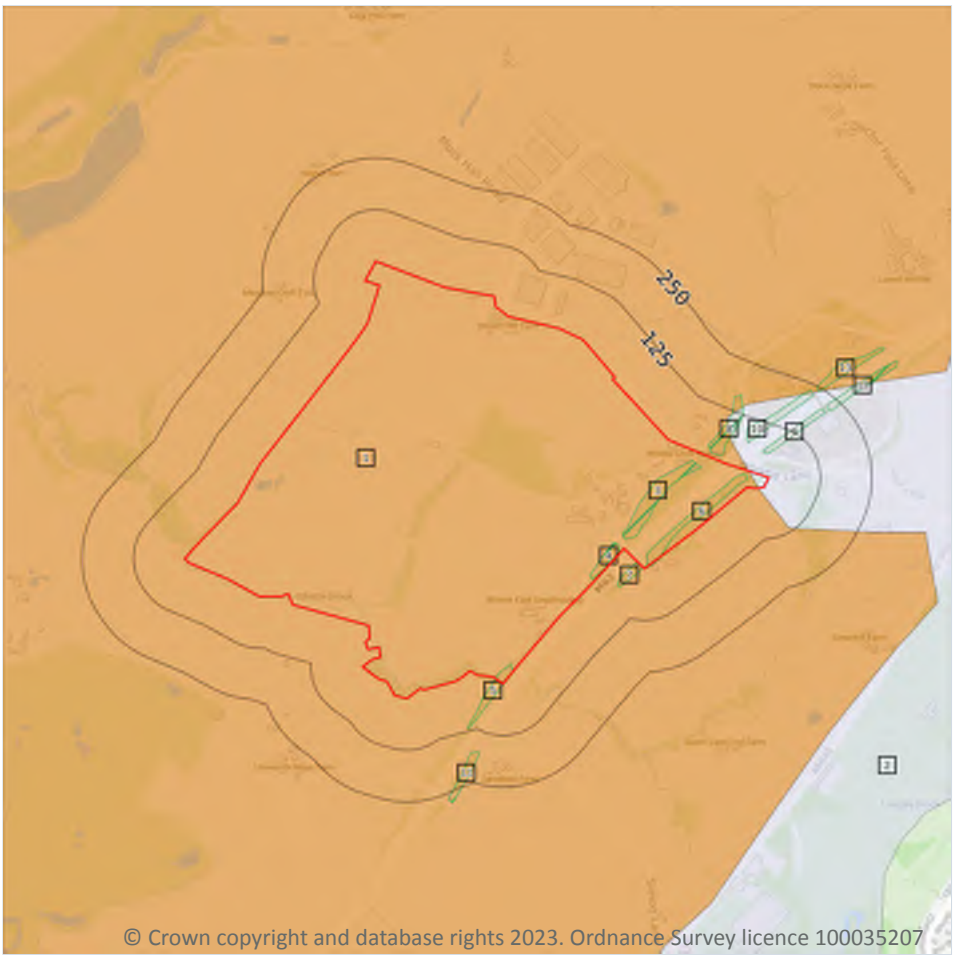
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m	2

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

Features are displayed on the Agricultural designations map on page 86 >

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

ID	Location	Classification	Description
2	On site	Grade 4	Poor quality agricultural land. Land with severe limitations which significantly restrict the range of crops and/or level of yields. It is mainly suited to grass with occasional arable crops (e.g. cereals and forage crops) the yields of which are variable. In moist climates, yields of grass may be moderate to high but there may be difficulties in utilisation. The grade also includes very droughty arable land.

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	11

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

Features are displayed on the Agricultural designations map on page 86 >

ID	Location	Description	Reference	Application date
3	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	2m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	11m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	54m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	65m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	175m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	219m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-

ID	Location	Description	Reference	Application date
13	241m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations



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	18

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 89 >

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	133m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	203m E	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 89 >

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
17	On site	BRITPITS ref: 3821	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

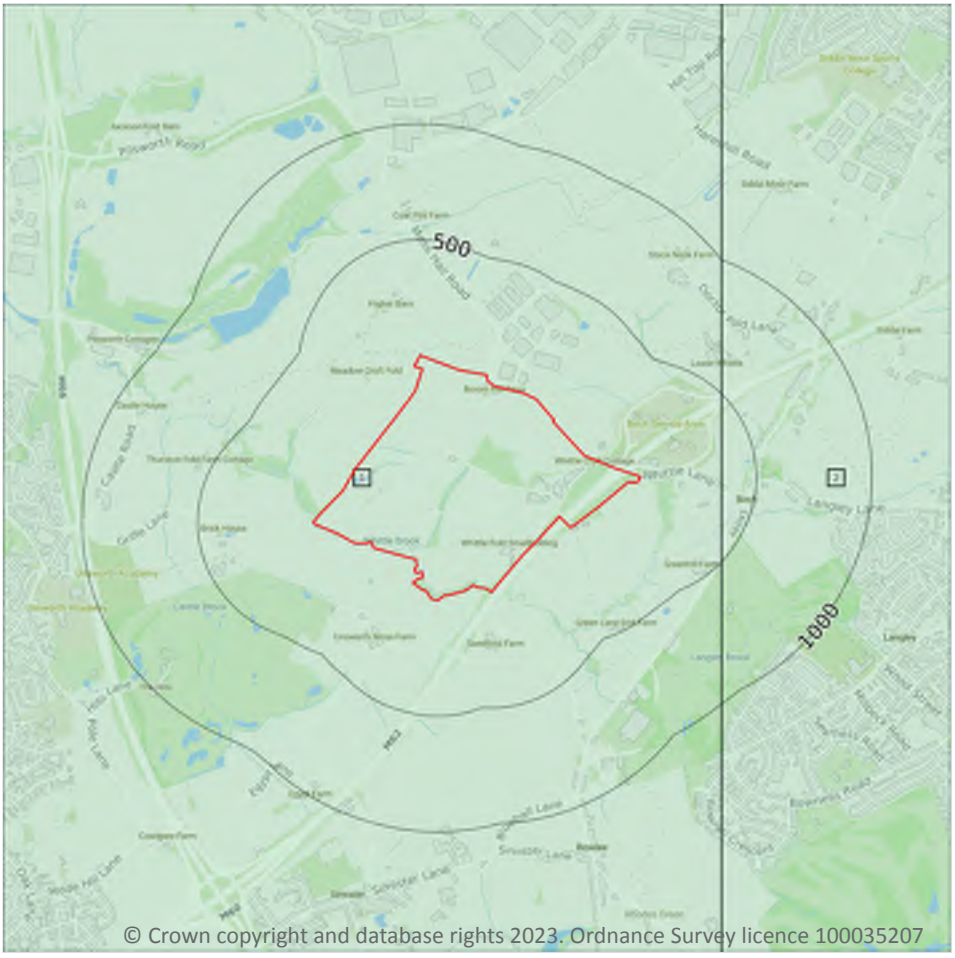
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	2

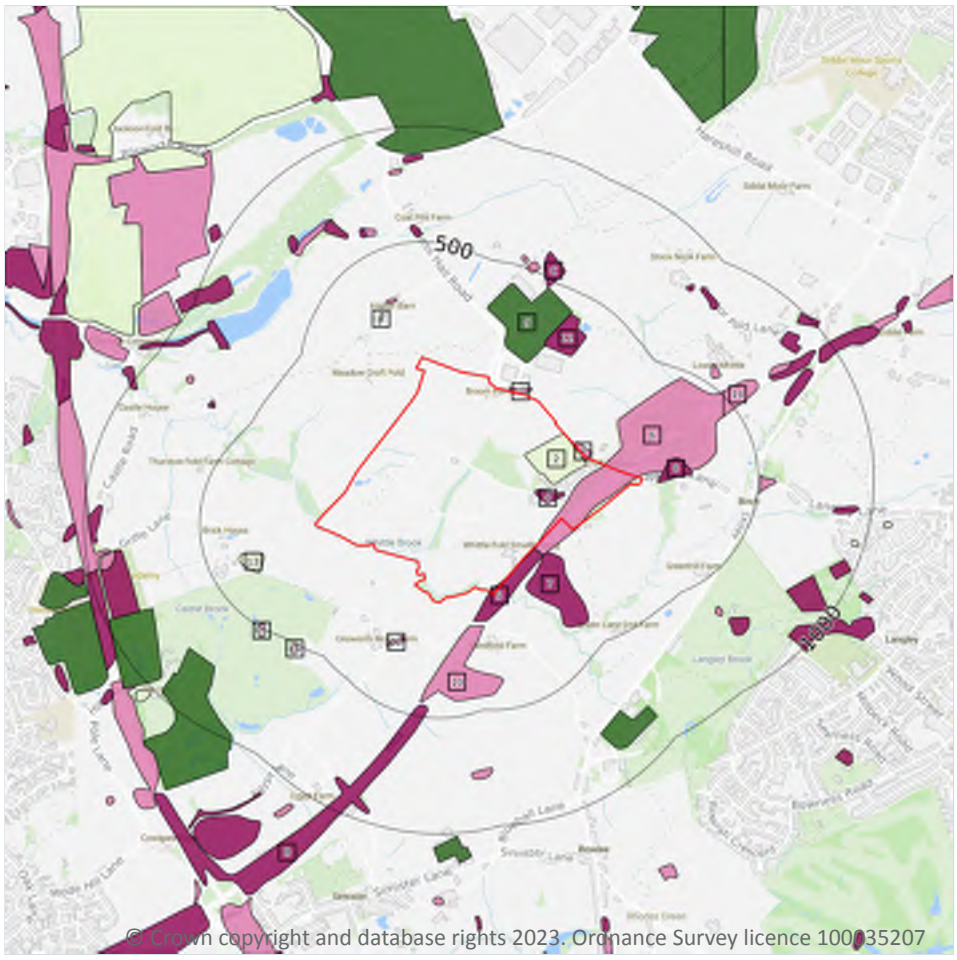
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on page 92 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD80NW
2	350m E	Full	Full	Full	Full	SD80NE

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	21

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.

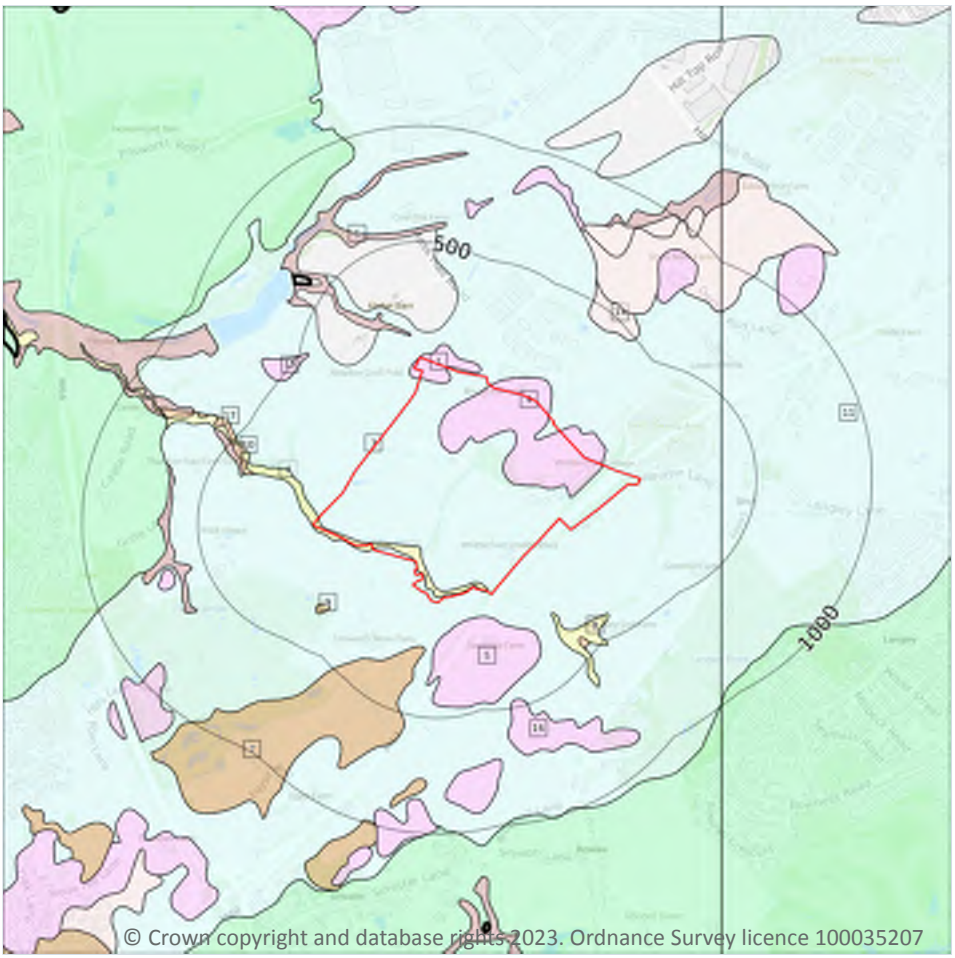
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on page 93 >

ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
3	On site	WGR-VOID	Worked Ground (Undivided)	Void
4	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	On site	WGR-VOID	Worked Ground (Undivided)	Void
7	53m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	66m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
9	138m NE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
10	143m S	WGR-VOID	Worked Ground (Undivided)	Void
11	202m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	229m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	233m NW	WGR-VOID	Worked Ground (Undivided)	Void
13	262m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
A	268m N	WGR-VOID	Worked Ground (Undivided)	Void
14	441m E	WGR-VOID	Worked Ground (Undivided)	Void
B	448m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	463m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	481m SW	WGR-VOID	Worked Ground (Undivided)	Void
C	488m N	WGR-VOID	Worked Ground (Undivided)	Void
16	495m SW	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	17

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 95 >

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
4	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
5	100m S	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	104m N	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	202m S	PEAT-P	Peat - Peat	Peat
8	254m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	284m SW	PEAT-P	Peat - Peat	Peat
10	332m W	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
11	350m E	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
12	366m W	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
13	413m SE	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
14	423m NE	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
15	460m NW	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
16	467m S	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
17	489m W	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

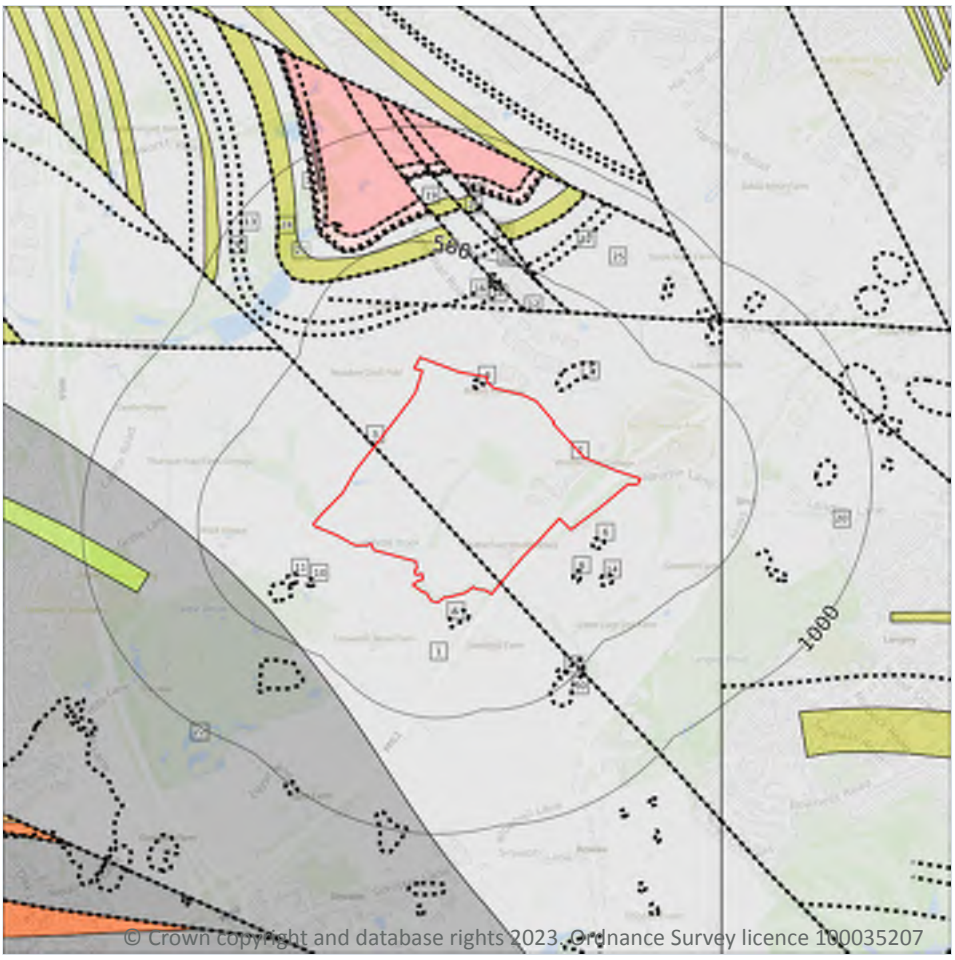
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



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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	9

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 97 >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
18	332m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
20	350m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	397m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
23	406m N	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
25	408m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
28	462m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
33	490m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	25

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 97 >

ID	Location	Category	Description
3	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
4	On site	LANDFORM	Kettle hole; closed hollow
5	65m S	LANDFORM	Kettle hole; closed hollow
6	95m SE	LANDFORM	Kettle hole; closed hollow
7	108m NE	LANDFORM	Drumlin, form-line at base of mound
8	178m SE	LANDFORM	Kettle hole; closed hollow
9	187m N	ROCK	Coal seam, inferred
10	216m SW	LANDFORM	Kettle hole; closed hollow
11	221m SW	LANDFORM	Kettle hole; closed hollow

ID	Location	Category	Description
12	229m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
13	233m N	ROCK	Coal seam, inferred
14	241m SE	LANDFORM	Kettle hole; closed hollow
15	247m N	ROCK	Coal seam, inferred
16	280m SW	LANDFORM	Kettle hole; closed hollow
17	284m N	ROCK	Coal seam, inferred
19	332m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
21	383m N	LANDFORM	Kettle hole; closed hollow
24	406m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
26	408m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
27	436m SE	LANDFORM	Kettle hole; closed hollow
29	462m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
30	464m SE	LANDFORM	Drumlin, form-line at base of mound
31	477m N	ROCK	Coal seam, inferred
32	485m N	ROCK	Coal seam, inferred
34	497m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

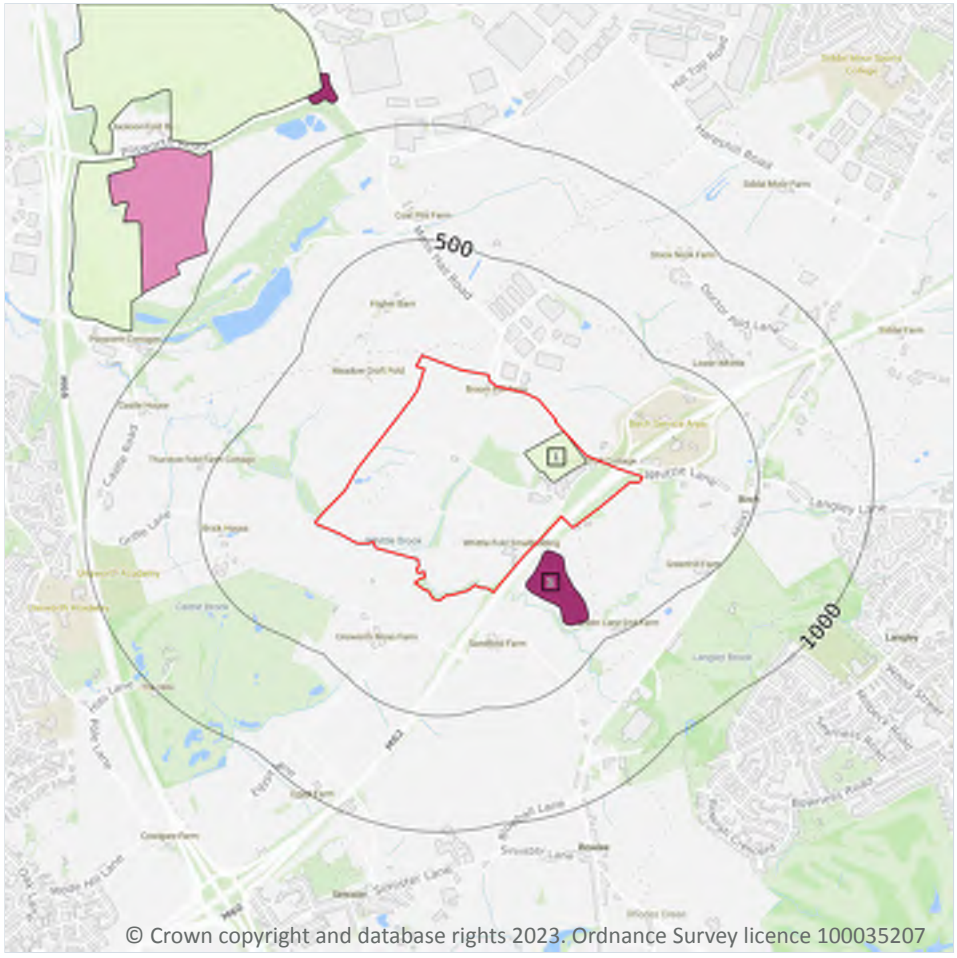
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on page 100 >

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

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on page 101 >

ID	Location	LEX Code	Description	Rock description
1	On site	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	53m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

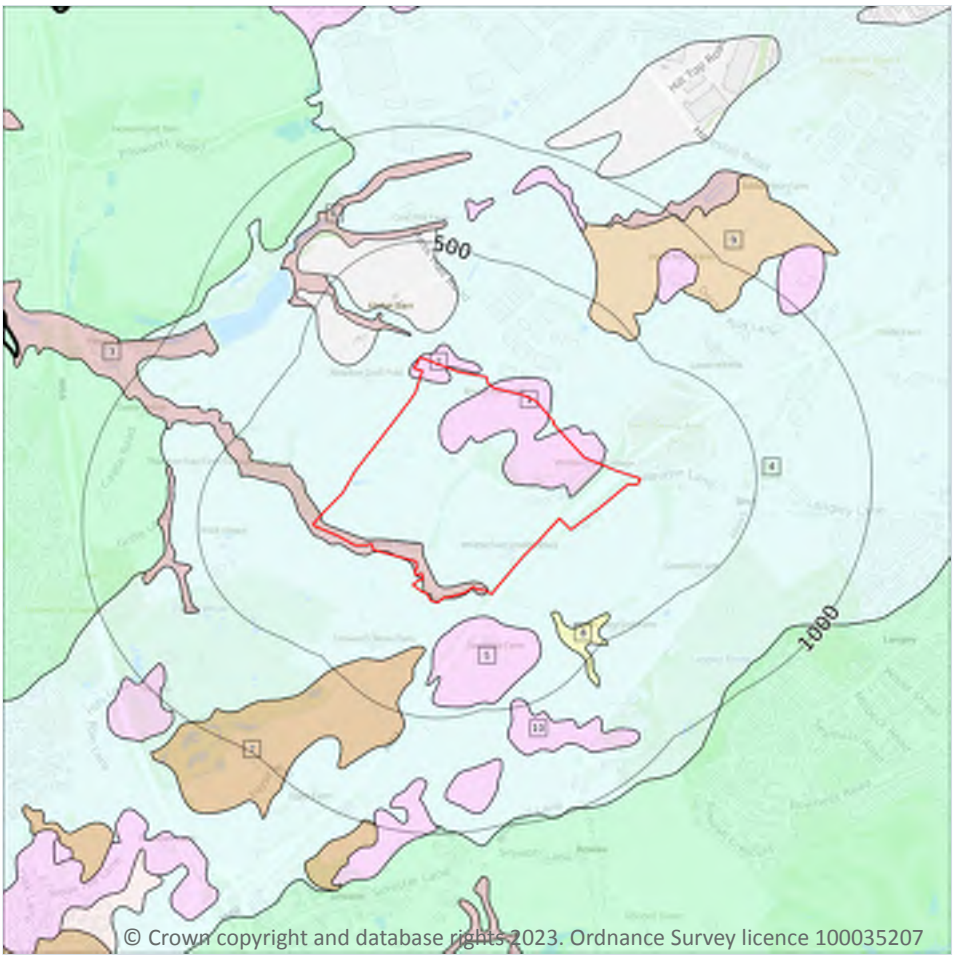
Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	10

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 103 >

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
5	100m S	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
6	103m N	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
7	202m S	PEAT-P	PEAT	PEAT
8	253m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
9	423m NE	LDE-XSV	LACUSTRINE DEPOSITS	SAND AND GRAVEL
10	467m S	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	4

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	8

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 106 >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
7	332m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	398m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	406m N	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
12	409m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	462m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	490m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	1

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	10

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.

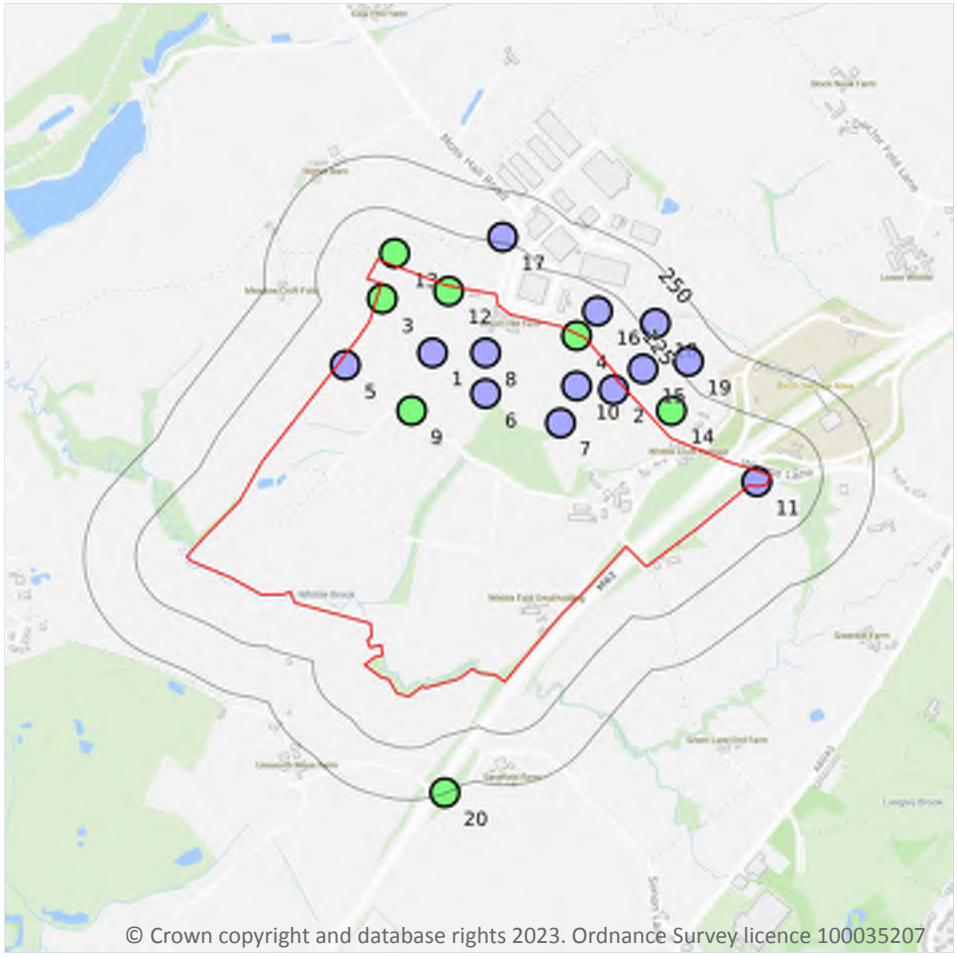
Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 106 >

ID	Location	Category	Description
3	On site	FAULT	Fault, inferred
4	187m N	ROCK	Coal seam, inferred
5	229m N	FAULT	Fault, inferred

ID	Location	Category	Description
6	284m N	ROCK	Coal seam, inferred
8	332m N	FAULT	Fault, inferred
11	406m N	ROCK	Coal seam, inferred
13	409m NE	FAULT	Fault, inferred
15	462m N	FAULT	Fault, inferred
16	477m N	ROCK	Coal seam, inferred
17	484m N	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	20

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.

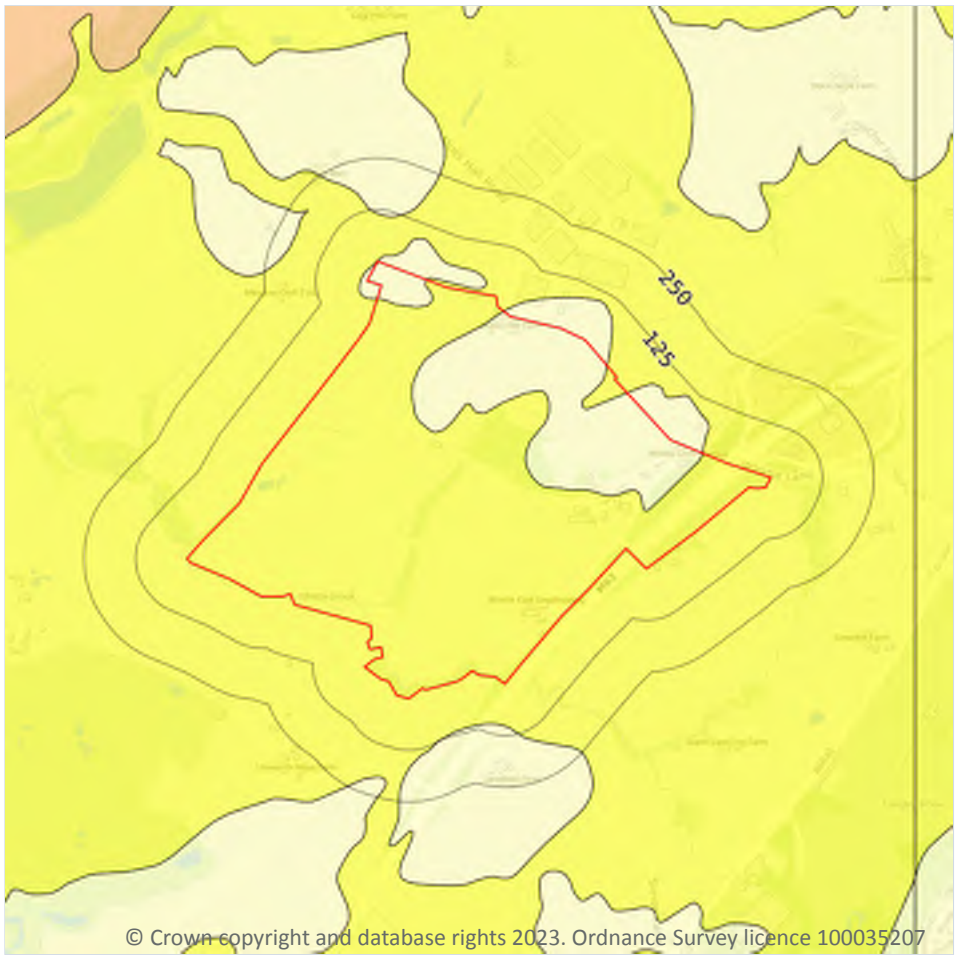
Features are displayed on the Boreholes map on page 109 >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	383830 408050	BROOM HILL FARM 7	9.0	N	27350 !
2	On site	384270 407960	BROOM HILL FARM 12	6.2	N	27355 !

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	383710 408180	BROOM HILL FARM 4	14.5	N	27347 !
4	On site	384180 408090	BROOM HILL FARM 5	10.5	N	27348 !
5	On site	383620 408020	BROOM HILL FARM 8	6.0	N	27351 !
6	On site	383960 407950	BROOM HILL FARM 10	5.5	N	27353 !
7	On site	384140 407880	BROOM HILL FARM 11	6.2	N	27354 !
8	On site	383960 408050	BROOM HILL FARM 6	9.8	N	27349 !
9	On site	383780 407910	BROOM HILL FARM 9	14.5	N	27352 !
10	On site	384180 407970	BROOM HILL FARM 13	8.5	N	27356 !
11	On site	384616 407737	TELECOM TOWER GMN0348 SERVICES M62 BIRCH 1	4.0	N	20310529 !
12	On site	383870 408200	BROOM HILL FARM 3	17.0	N	27346 !
13	28m N	383740 408290	BROOM HILL FARM 2	11.0	N	27345
14	47m E	384410 407910	BROOM HILL FARM 18	14.5	N	27361
15	63m NE	384340 408010	BROOM HILL FARM 16	6.0	N	27359
16	71m NE	384230 408150	BROOM HILL FARM 14	8.5	N	27357
17	139m N	384000 408330	BROOM HILL FARM 1	9.0	N	27344
18	151m NE	384370 408120	BROOM HILL FARM 15	5.5	N	27358
19	158m NE	384450 408030	BROOM HILL FARM 17	6.0	N	27360
20	247m S	383860 406985	Manchester Smart Motorway M60 BH21362A	10.5	N	20344043

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	2

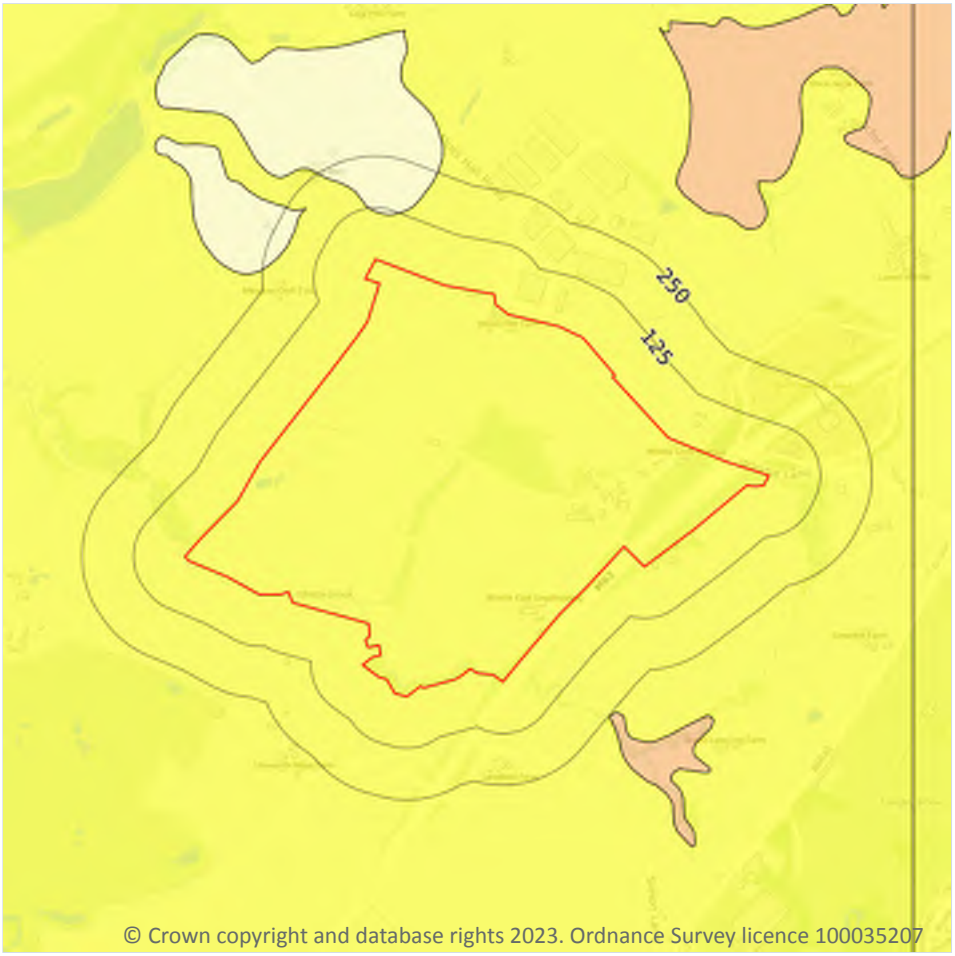
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 111 >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

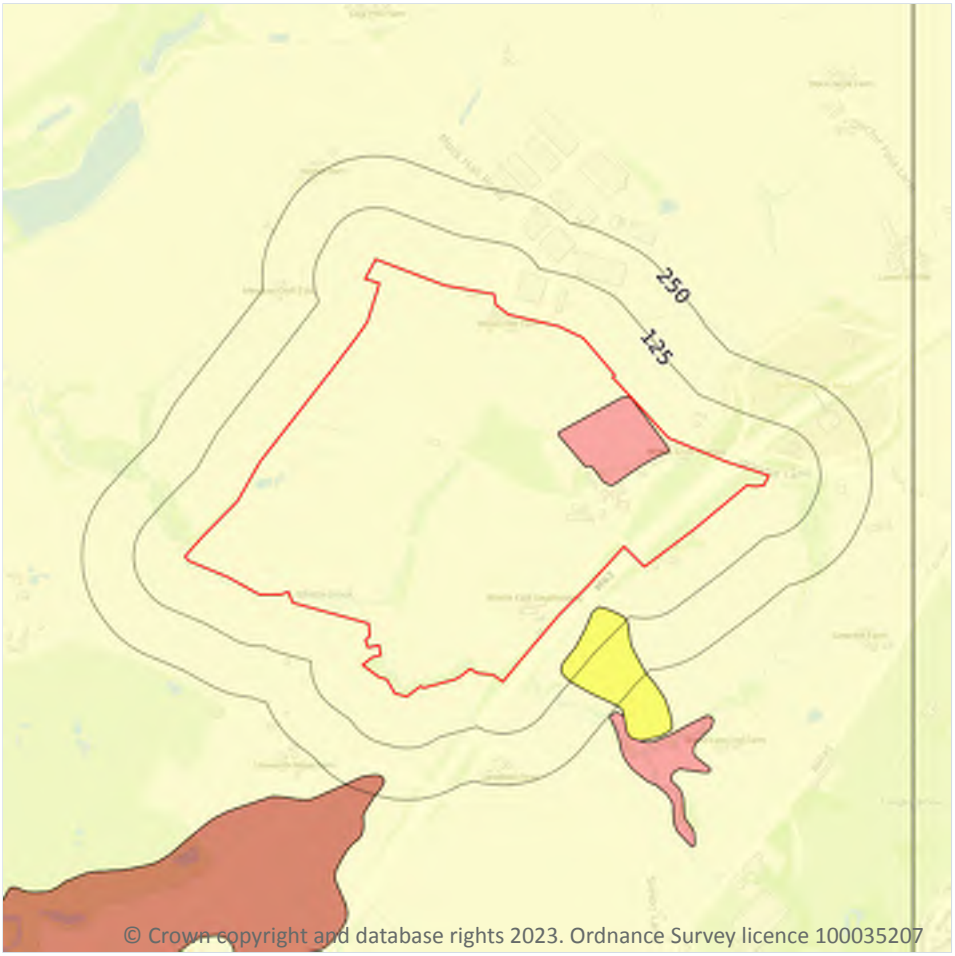
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on page 112 >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	2

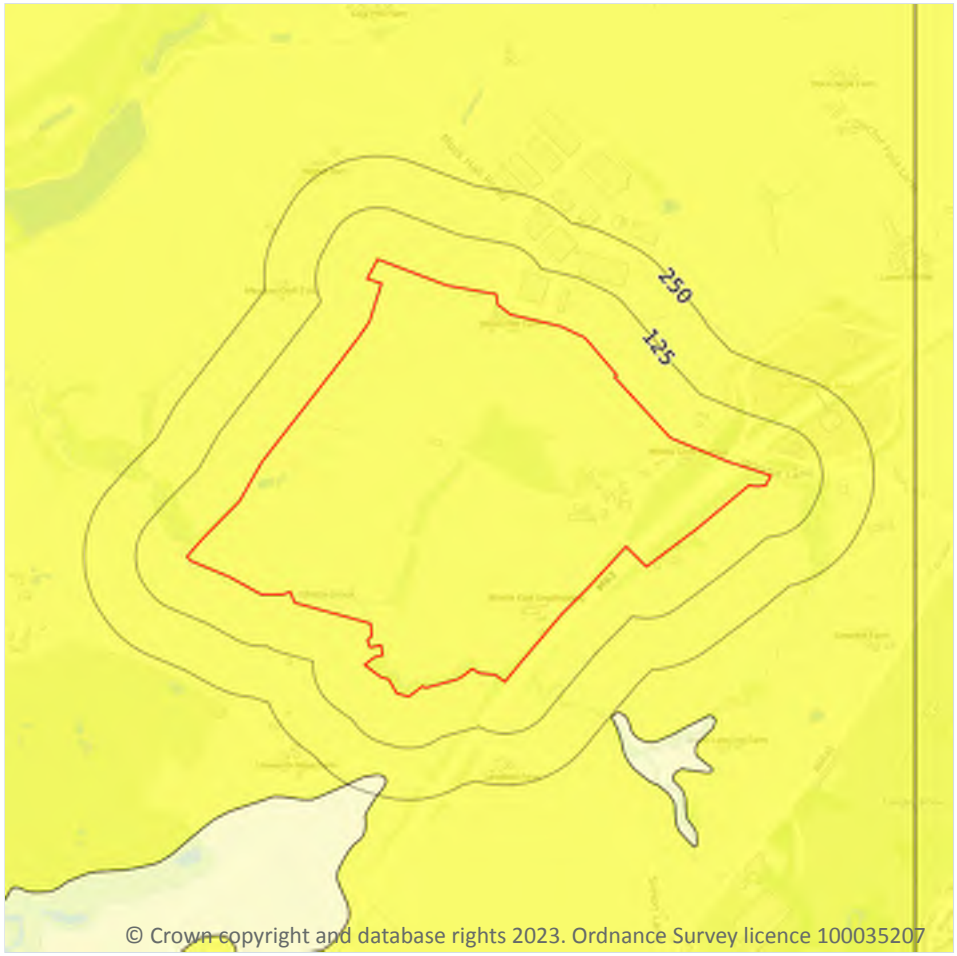
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 113 >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

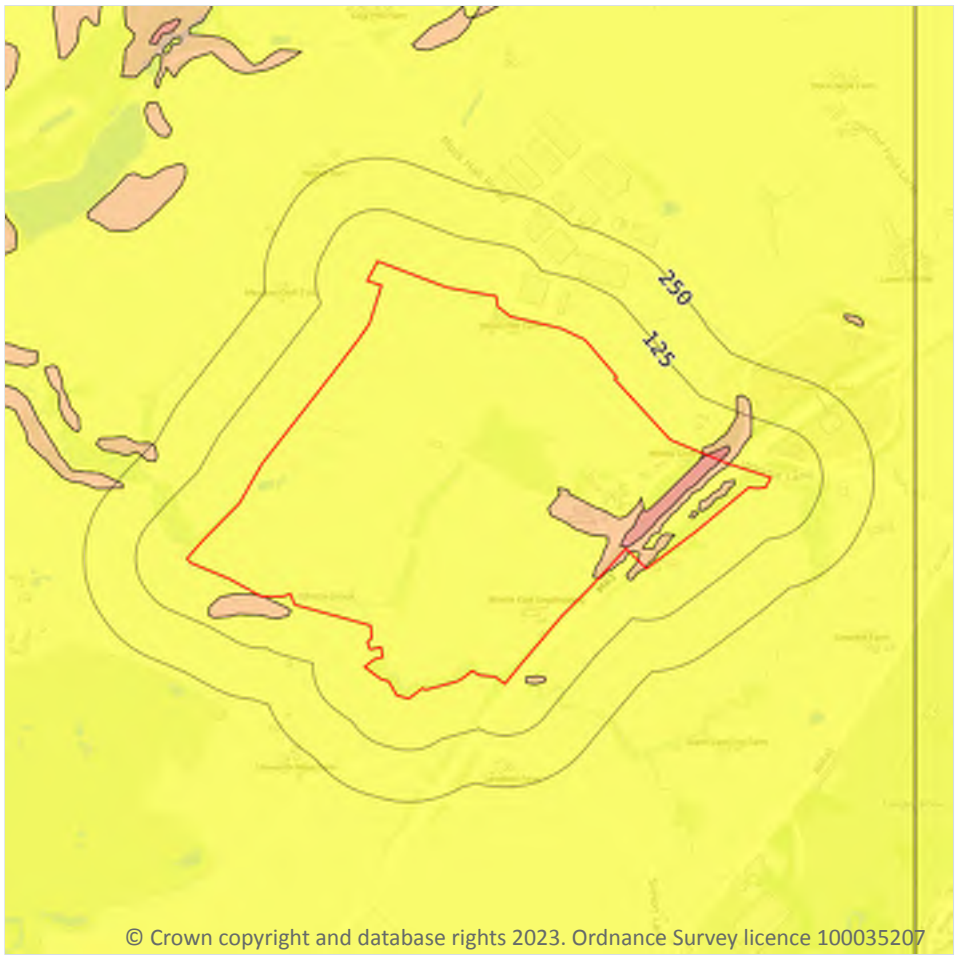
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 115 >

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	4

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 116 >

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.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
29m S	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

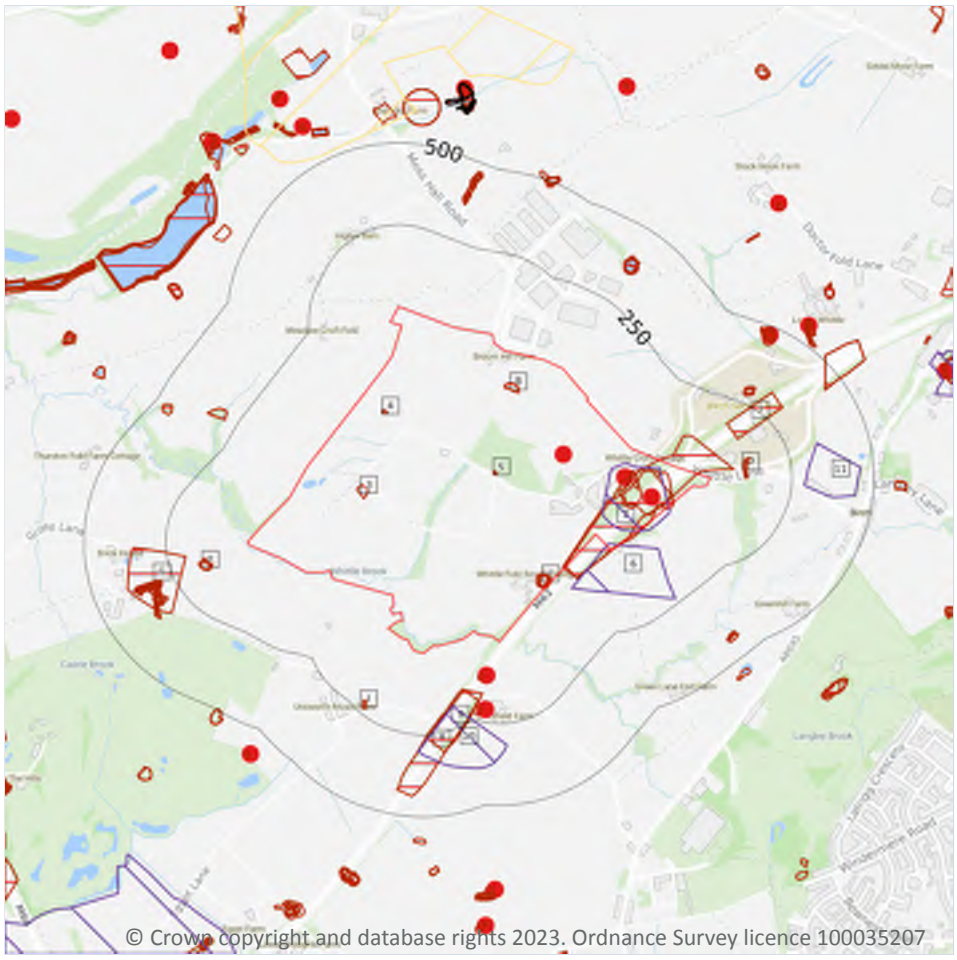
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 118 >

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	6

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

Features are displayed on the Mining and ground workings map on page 120 >

ID	Location	Details	Description
1	On site	Name: Whittle Sandpit Address: Birch, ROCHDALE, Lancashire Commodity: Sand 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
A	On site	Name: Whittle Fold Sand Quarry Address: Birch, MIDDLETON, Lancashire Commodity: Sand 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
A	On site	Name: Whittle Fold Sand Quarry Address: Birch, MIDDLETON, Lancashire Commodity: Sand 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
E	109m S	Name: Whittle Fold Sand Pit Address: Whitefield, BURY, Lancashire Commodity: Sand 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
H	211m S	Name: Sandfield Sand Pit Address: Bowlee, MIDDLETON, Lancashire Commodity: Sand 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
O	475m NE	Name: Lower Whittle Quarries Address: Hopwood, HEYWOOD, Lancashire 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.

18.2 Surface ground workings

Records within 250m	32

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

Features are displayed on the Mining and ground workings map on page 120 >

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Cuttings	1974	1:10000
3	On site	Unspecified Pit	1974	1:10000
4	On site	Sand Pit	1851	1:10560
5	On site	Sand Pit	1851	1:10560
A	On site	Cuttings	1981	1:10000
A	On site	Sand Quarry	1965	1:10560
A	On site	Sand Pit	1851	1:10560
A	On site	Refuse Heap	1955	1:10560
B	On site	Unspecified Pit	1928	1:10560
B	On site	Unspecified Pit	1908	1:10560
B	On site	Unspecified Pit	1938	1:10560
C	On site	Pond	1932	1:10560
C	On site	Pond	1891	1:10560
C	On site	Pond	1915	1:10560
C	On site	Pond	1907	1:10560
C	On site	Pond	1938	1:10560
C	On site	Pond	1923	1:10560
C	On site	Unspecified Pit	1965	1:10560
D	104m E	Unspecified Ground Workings	1932	1:10560
D	105m E	Unspecified Heap	1938	1:10560
E	114m S	Sand Pit	1851	1:10560
F	127m W	Pond	1981	1:10000
F	127m W	Pond	1974	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
F	127m W	Pond	1965	1:10560
F	136m W	Unspecified Pit	1915	1:10560
7	146m E	Cuttings	1981	1:10000
8	147m S	Cuttings	1974	1:10000
9	151m S	Cuttings	1981	1:10000
G	195m W	Old Brick Field	1891	1:10560
H	209m S	Sand Pit	1851	1:10560
I	211m SW	Unspecified Ground Workings	1932	1:10560
I	215m SW	Unspecified Ground Workings	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	7

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

Features are displayed on the Mining and ground workings map on page 120 >

ID	Location	Land Use	Year of mapping	Mapping scale
AB	626m N	Coal Pits	1891	1:10560
AB	629m N	Coal Pits	1938	1:10560
AB	629m N	Coal Pits	1928	1:10560
AB	629m N	Coal Pits	1908	1:10560
AB	637m N	Coal Pits	1938	1:10560
AB	637m N	Coal Pits	1928	1:10560
AB	637m N	Coal Pits	1908	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	4

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

Features are displayed on the Mining and ground workings map on page 120 >

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
6	On site	Whittle Fold Farm	Sand and gravel	Surface mineral working	Valid	18/5/67
A	On site	Whittle Fold	Sand	Surface mineral working	Valid	Not available
10	184m S	Sandfield Farm	Sand and gravel	Surface mineral working	Valid	17/8/69
11	289m E	Whittle Lane Sand Pit	Sand	Surface mineral working	Valid	09/07/1947

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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

Features are displayed on the Mining and ground workings map on page 120 >

ID	Location	Name	Commodity	Class	Likelihood
13	518m NW	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

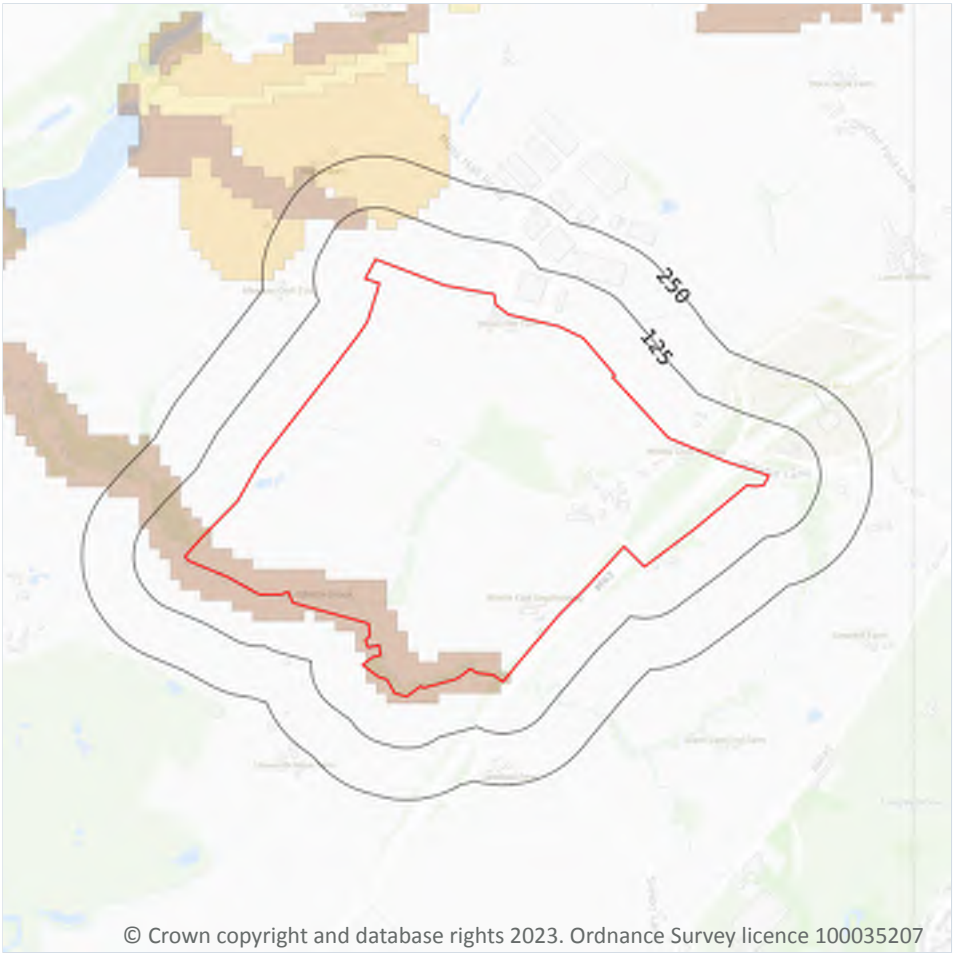
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

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

20.1 Radon

Records on site	2

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

Features are displayed on the Radon map on page 130 >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full

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

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	27

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	0

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

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Northern Gateway

Order Details

Date: 11/12/2023

Your ref: Northern Gateway

Our Ref: GSIP-2023-14200-16018_RR_D

Site Details

Location: 383173 408285

Area: 99.86 ha

Authority: Bury Metropolitan Borough Council , Rochdale Metropolitan Borough Council



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Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

groundsure.com/insightuserguide

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

Certified B Corporation

Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	22	17	26	27	-
17 >	1.2 >	Historical tanks >	11	8	14	27	-
19 >	1.3 >	Historical energy features >	1	0	3	4	-
20	1.4	Historical petrol stations	0	0	0	0	-
20	1.5	Historical garages	0	0	0	0	-
21	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
22 >	2.1 >	Historical industrial land uses >	35	25	44	37	-
28 >	2.2 >	Historical tanks >	12	11	19	40	-
31 >	2.3 >	Historical energy features >	1	0	5	6	-
32	2.4	Historical petrol stations	0	0	0	0	-
32	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
33 >	3.1 >	Active or recent landfill >	0	1	0	1	-
34	3.2	Historical landfill (BGS records)	0	0	0	0	-
34	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
34	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
34 >	3.5 >	Historical waste sites >	0	0	0	2	-
35	3.6	Licensed waste sites	0	0	0	0	-
35 >	3.7 >	Waste exemptions >	43	0	7	22	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
41 >	4.1 >	Recent industrial land uses >	1	3	17	-	-
43	4.2	Current or recent petrol stations	0	0	0	0	-
43	4.3	Electricity cables	0	0	0	0	-
43	4.4	Gas pipelines	0	0	0	0	-
43	4.5	Sites determined as Contaminated Land	0	0	0	0	-

44 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	1	2	-
44	4.7	Regulated explosive sites	0	0	0	0	-
44 >	4.8 >	Hazardous substance storage/usage >	0	0	0	1	-
45	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
45	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
45	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
45	4.12	Radioactive Substance Authorisations	0	0	0	0	-
46 >	4.13 >	Licensed Discharges to controlled waters >	1	1	2	10	-
48	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
48	4.15	Pollutant release to public sewer	0	0	0	0	-
48	4.16	List 1 Dangerous Substances	0	0	0	0	-
48	4.17	List 2 Dangerous Substances	0	0	0	0	-
49 >	4.18 >	Pollution Incidents (EA/NRW) >	0	0	6	6	-
50	4.19	Pollution inventory substances	0	0	0	0	-
50	4.20	Pollution inventory waste transfers	0	0	0	0	-
51	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
52 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
54 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
55 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
57	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
57	5.5	Groundwater vulnerability- local information	None (within 0m)				
58 >	5.6 >	Groundwater abstractions >	0	0	1	0	26
65 >	5.7 >	Surface water abstractions >	0	6	0	0	1
67 >	5.8 >	Potable abstractions >	0	0	0	0	2
68	5.9	Source Protection Zones	0	0	0	0	-
68	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	6.1 >	Water Network (OS MasterMap) >	30	17	13	-	-

74 >	6.2 >	Surface water features >	1	8	18	-	-
74 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
75 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
75 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
76 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
77	7.2	Historical Flood Events	0	0	0	-	-
77	7.3	Flood Defences	0	0	0	-	-
77	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
77	7.5	Flood Storage Areas	0	0	0	-	-
78 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
79 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
80 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
82 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
83	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
84	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
84	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
84	10.4	Special Protection Areas (SPA)	0	0	0	0	0
84	10.5	National Nature Reserves (NNR)	0	0	0	0	0
85 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	1	0
85	10.7	Designated Ancient Woodland	0	0	0	0	0
85	10.8	Biosphere Reserves	0	0	0	0	0
85	10.9	Forest Parks	0	0	0	0	0
86	10.10	Marine Conservation Zones	0	0	0	0	0
86 >	10.11 >	Green Belt >	2	0	0	0	3
86	10.12	Proposed Ramsar sites	0	0	0	0	0

86	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
87	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
87	10.15	Nitrate Sensitive Areas	0	0	0	0	0
87 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	4
88 >	10.17 >	SSSI Impact Risk Zones >	3	-	-	-	-
89	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
90	11.1	World Heritage Sites	0	0	0	-	-
90	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
90	11.3	National Parks	0	0	0	-	-
90	11.4	Listed Buildings	0	0	0	-	-
91	11.5	Conservation Areas	0	0	0	-	-
91	11.6	Scheduled Ancient Monuments	0	0	0	-	-
91	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
92 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
93	12.2	Open Access Land	0	0	0	-	-
93	12.3	Tree Felling Licences	0	0	0	-	-
93	12.4	Environmental Stewardship Schemes	0	0	0	-	-
93 >	12.5 >	Countryside Stewardship Schemes >	1	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
94 >	13.1 >	Priority Habitat Inventory >	11	1	8	-	-
95 >	13.2 >	Habitat Networks >	0	0	1	-	-
96 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
96	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
97 >	14.1 >	10k Availability >	Identified (within 500m)				
98 >	14.2 >	Artificial and made ground (10k) >	11	5	7	18	-
101 >	14.3 >	Superficial geology (10k) >	12	1	3	6	-

103 >	14.4 >	Landslip (10k) >	1	0	0	0	-
104 >	14.5 >	Bedrock geology (10k) >	7	1	11	10	-
106 >	14.6 >	Bedrock faults and other linear features (10k) >	11	2	16	14	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
108 >	15.1 >	50k Availability >	Identified (within 500m)				
109 >	15.2 >	Artificial and made ground (50k) >	0	0	1	4	-
110	15.3	Artificial ground permeability (50k)	0	0	-	-	-
111 >	15.4 >	Superficial geology (50k) >	5	1	3	2	-
112 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
113	15.6	Landslip (50k)	0	0	0	0	-
113	15.7	Landslip permeability (50k)	None (within 50m)				
114 >	15.8 >	Bedrock geology (50k) >	7	1	11	10	-
116 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
116 >	15.10 >	Bedrock faults and other linear features (50k) >	7	3	10	8	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
118 >	16.1 >	BGS Boreholes >	2	3	40	-	-
Page	Section	Natural ground subsidence >					
121 >	17.1 >	Shrink swell clays >	Low (within 50m)				
123 >	17.2 >	Running sands >	Very low (within 50m)				
125 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
126 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
127 >	17.5 >	Landslides >	Moderate (within 50m)				
129 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
131 >	18.1 >	BritPits >	2	0	1	5	-
133 >	18.2 >	Surface ground workings >	41	11	63	-	-
137 >	18.3 >	Underground workings >	0	0	7	0	0
138	18.4	Underground mining extents	0	0	0	0	-
138	18.5	Historical Mineral Planning Areas	0	0	0	0	-

138 >	18.6 >	Non-coal mining >	1	0	0	0	0
139	18.7	JPB mining areas	None (within 0m)				
139	18.8	The Coal Authority non-coal mining	0	0	0	0	-
139	18.9	Researched mining	0	0	0	0	-
140	18.10	Mining record office plans	0	0	0	0	-
140	18.11	BGS mine plans	0	0	0	0	-
140 >	18.12 >	Coal mining >	Identified (within 0m)				
140	18.13	Brine areas	None (within 0m)				
141	18.14	Gypsum areas	None (within 0m)				
141	18.15	Tin mining	None (within 0m)				
141	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
142	19.1	Natural cavities	0	0	0	0	-
142	19.2	Mining cavities	0	0	0	0	0
142	19.3	Reported recent incidents	0	0	0	0	-
142	19.4	Historical incidents	0	0	0	0	-
143	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
144 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
146 >	21.1 >	BGS Estimated Background Soil Chemistry >	35	3	-	-	-
148	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
148	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
149	22.1	Underground railways (London)	0	0	0	-	-
149	22.2	Underground railways (Non-London)	0	0	0	-	-
150	22.3	Railway tunnels	0	0	0	-	-
150 >	22.4 >	Historical railway and tunnel features >	0	0	2	-	-
150	22.5	Royal Mail tunnels	0	0	0	-	-

150	22.6	Historical railways	0	0	0	-	-
151	22.7	Railways	0	0	0	-	-
151	22.8	Crossrail 1	0	0	0	0	-
151	22.9	Crossrail 2	0	0	0	0	-
151	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 99.86ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 99.86ha

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 99.86ha

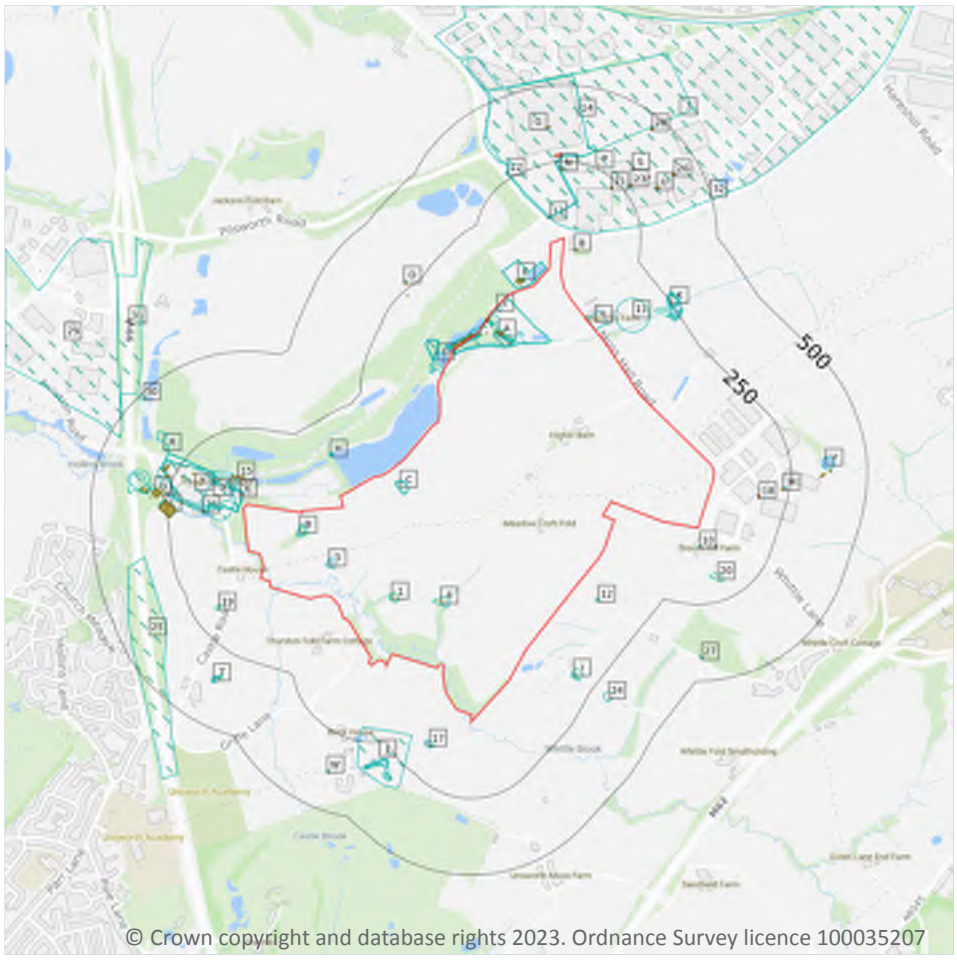
Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 99.86ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

1.1 Historical industrial land uses

Records within 500m	92

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 13 >

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Pit	1965	691089

ID	Location	Land use	Dates present	Group ID
2	On site	Sandstone Old Quarry	1851	686457
3	On site	Unspecified Pit	1965 - 1981	722536
4	On site	Unspecified Pit	1974 - 1981	767350
A	On site	Filler Tanks	1938	641131
A	On site	Sand Pit	1851	643776
A	On site	Bleach Works	1955	658156
A	On site	Unspecified Tanks	1955	695252
A	On site	Unspecified Tanks	1938	696704
A	On site	Filter Beds	1908	703665
A	On site	Filter Tanks	1955	705749
A	On site	Unspecified Tanks	1955	727681
A	On site	Unspecified Works	1965 - 1981	728288
A	On site	Unspecified Mill	1891 - 1938	729539
A	On site	Filter Tanks	1928	742678
A	On site	Unspecified Tanks	1928	771882
A	On site	Filter Beds	1928 - 1938	772902
A	On site	Filter Beds	1955	787128
B	On site	Unspecified Pit	1955	721106
B	On site	Unspecified Pit	1928 - 1938	734591
C	On site	Unspecified Pit	1955	745045
C	On site	Unspecified Pit	1928 - 1938	749256
D	1m N	Unspecified Pit	1891	740470
5	1m NE	Coal Pits	1851	648766
E	6m N	Sewage Works	1974	659720
E	6m N	Unspecified Works	1981	785608
E	6m N	Unspecified Works	1965	790896
F	14m W	Unspecified Works	1965	679026
F	16m W	Bleach Works	1908 - 1938	716760

ID	Location	Land use	Dates present	Group ID
F	19m W	Bleach Works	1955	719239
E	23m N	Unspecified Tanks	1981	778275
E	24m N	Unspecified Tanks	1965 - 1974	703760
D	25m NW	Pumping Station	1908 - 1938	756628
F	34m W	Bleach Works	1891	735729
7	36m N	Industrial Estate	1981	652312
D	37m N	Unspecified Old Pits	1955	675945
D	38m NW	Chimney	1965 - 1981	738204
D	43m NW	Unspecified Old Quarry	1908	681203
D	43m NW	Unspecified Pit	1928 - 1938	758055
9	53m W	Fustian Mill	1851	672593
10	57m E	Pump	1851	675596
11	71m NE	Coal Pits	1955 - 1981	772742
12	77m SE	Sand Pit	1851	643777
14	77m N	Unspecified Depot	1974 - 1981	777740
G	80m N	Unspecified Depot	1981	747080
H	126m W	Boat House	1965 - 1981	698691
H	127m W	Boat House	1908 - 1938	791169
H	131m W	Boat House	1955	702697
17	133m S	Unspecified Pit	1915	691088
19	154m W	Unspecified Pit	1891	691087
20	158m E	Unspecified Pit	1908 - 1938	749732
I	164m SE	Unspecified Pit	1974	691090
I	169m SE	Unspecified Tank	1907	674849
J	169m S	Old Brick Field	1891	684716
K	193m NE	Coal Pits	1908 - 1938	741602
K	213m NE	Coal Pits	1908 - 1938	737767
L	218m W	Unspecified Tanks	1908	751552

ID	Location	Land use	Dates present	Group ID
L	219m W	Settling Tanks	1974	681808
K	224m NE	Coal Pits	1891	738176
L	225m W	Unspecified Tanks	1928	789967
L	226m W	Unspecified Tanks	1955	711610
M	231m E	Unspecified Tank	1981	674847
K	232m NE	Unspecified Pit	1965 - 1981	697199
K	241m NE	Old Sandstone Quarry	1851	657655
K	244m NE	Unspecified Pit	1955 - 1981	731651
O	272m N	Pump	1851	675588
Q	277m W	Unspecified Tanks	1908 - 1938	753803
J	277m S	Unspecified Ground Workings	1923 - 1932	741001
F	278m W	Unspecified Tank	1891 - 1908	751118
Q	279m W	Unspecified Tanks	1955	726283
J	281m S	Unspecified Ground Workings	1907	738009
J	286m S	Unspecified Ground Workings	1891	733797
24	290m SE	Unspecified Tank	1965	674848
R	308m W	Sand Pit	1851	643775
Q	309m W	Unspecified Ground Workings	1965 - 1974	740129
J	310m S	Unspecified Pit	1907	691092
Q	314m W	Unspecified Pit	1928 - 1938	697367
Q	317m W	Filter Beds	1908	665791
T	327m SW	Unspecified Pits	1965	659190
T	329m SW	Unspecified Ground Workings	1974	648189
25	331m W	Cuttings	1981	642590
R	342m W	Cuttings	1928 - 1938	742850
V	352m E	Unspecified Pit	1928 - 1938	717895
W	371m SW	Unspecified Tank	1915	779986
W	371m SW	Unspecified Tank	1932 - 1938	740090

ID	Location	Land use	Dates present	Group ID
W	374m SW	Unspecified Tank	1955	777068
W	375m SW	Unspecified Tank	1923	787789
27	417m SE	Sand Pit	1851	643778
29	466m W	Industrial Estate	1981	652314
30	477m W	Sand Pit	1851	643773
31	494m W	Cuttings	1981	767563
32	495m NE	Pump	1851	675587

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	60

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

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
A	On site	Filter Tanks	1930	88227
A	On site	Tanks	1930	89782
A	On site	Old Settling Tanks	1956	78344
A	On site	Unspecified Tank	1910	84681
A	On site	Unspecified Tank	1956	84682
A	On site	Unspecified Tank	1910	84690
A	On site	Tanks	1930	87718
A	On site	Tanks	1956	87719
A	On site	Tanks	1956	87720
A	On site	Unspecified Tank	1910 - 1930	96822
A	On site	Tanks	1956	102936

ID	Location	Land use	Dates present	Group ID
A	1m N	Settling Tanks	1956	78164
A	6m N	Unspecified Tank	1890 - 1910	97967
E	19m N	Tanks	1956	92603
E	21m N	Tanks	1992	90746
E	28m N	Tanks	1957 - 1966	95471
E	32m N	Unspecified Tank	1992	84680
6	33m W	Unspecified Tank	1890	84654
8	40m N	Unspecified Tank	1957	95209
15	86m W	Tanks	1956	87714
F	160m W	Unspecified Tank	1910 - 1930	101060
F	168m W	Unspecified Tank	1956	84689
F	194m W	Unspecified Tank	1939	84685
L	197m W	Unspecified Tank	1956	84656
L	219m W	Settling Tanks	1930 - 1956	96450
21	221m N	Unspecified Tank	1978 - 1997	89678
L	223m W	Tanks	1910	87869
F	223m W	Unspecified Tank	1890	84688
M	224m E	Unspecified Tank	1980 - 1992	98192
N	225m N	Unspecified Tank	1966	92748
N	226m N	Unspecified Tank	1966	89639
F	229m W	Unspecified Tank	1930	84687
O	229m N	Unspecified Tank	1956 - 1992	97953
P	262m N	Unspecified Tank	1966	88887
P	262m N	Unspecified Tank	1966	94592
O	262m N	Unspecified Tank	1956	84683
F	263m W	Tanks	1956	87158
F	266m W	Unspecified Tank	1910 - 1930	93805
O	268m N	Unspecified Tank	1992	84684

ID	Location	Land use	Dates present	Group ID
Q	271m W	Settling Tanks	1930 - 1956	102471
23	275m NE	Unspecified Tank	1978 - 1997	101941
Q	276m W	Tanks	1910	87870
F	277m W	Unspecified Tank	1890 - 1910	102146
F	279m W	Unspecified Tank	1910	84664
F	280m W	Unspecified Tank	1910 - 1930	100149
F	281m W	Unspecified Tank	1956	84686
F	285m W	Unspecified Tank	1890 - 1910	94252
Q	303m W	Unspecified Tank	1956	84655
Q	316m W	Settling Tank	1956	78447
S	323m NE	Unspecified Tank	1966	95447
S	323m NE	Unspecified Tank	1966	92426
U	341m NE	Unspecified Tank	1966 - 1997	93770
V	347m E	Tanks	1980 - 1992	95895
G	365m N	Unspecified Tank	1966	84679
W	373m SW	Unspecified Tank	1956	84657
V	376m E	Tanks	1992	89834
V	377m E	Tanks	1980	95622
W	378m SW	Unspecified Tank	1922 - 1932	93095
26	409m NE	Unspecified Tank	1978 - 1997	96978
28	452m NE	Unspecified Tank	1978 - 1997	89682

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	8

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

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
A	On site	Electricity Substation	1956	45665
13	77m N	Electricity Substation	1973 - 1992	58554
16	128m W	Electricity Substation	1956	45645
18	153m E	Electricity Substation	1980 - 1992	55593
N	266m N	Electricity Substation	1978	56461
N	267m N	Electricity Substation	1997	50610
22	268m N	Electricity Substation	1973 - 1992	57335
U	339m NE	Electricity Substation	1978 - 1997	49665

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

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

This data is sourced from Ordnance Survey / Groundsure.

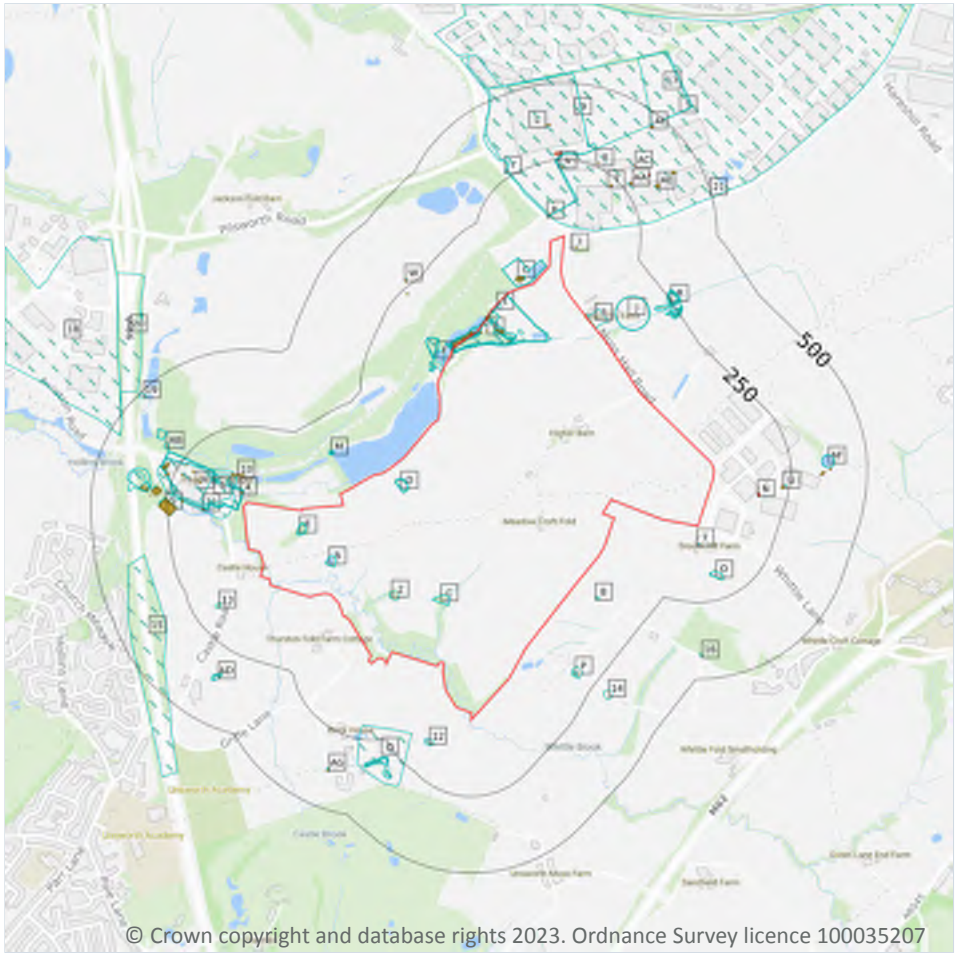
1.6 Historical military land

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

2.1 Historical industrial land uses

Records within 500m	141

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 22 >

ID	Location	Land Use	Date	Group ID
1	On site	Sandstone Old Quarry	1851	686457
2	On site	Unspecified Pit	1965	691089
A	On site	Unspecified Pit	1981	722536

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Pit	1974	722536
A	On site	Unspecified Pit	1965	722536
B	On site	Unspecified Works	1981	728288
B	On site	Unspecified Works	1974	728288
B	On site	Sand Pit	1851	643776
B	On site	Unspecified Tanks	1938	696704
B	On site	Unspecified Mill	1938	729539
B	On site	Filler Tanks	1938	641131
B	On site	Filter Beds	1938	772902
B	On site	Unspecified Mill	1891	729539
B	On site	Unspecified Works	1965	728288
B	On site	Unspecified Tanks	1955	727681
B	On site	Unspecified Tanks	1955	695252
B	On site	Filter Beds	1955	787128
B	On site	Filter Tanks	1955	705749
B	On site	Bleach Works	1955	658156
B	On site	Unspecified Tanks	1928	771882
B	On site	Filter Tanks	1928	742678
B	On site	Filter Beds	1928	772902
B	On site	Unspecified Mill	1928	729539
B	On site	Unspecified Mill	1908	729539
B	On site	Unspecified Mill	1908	729539
B	On site	Unspecified Mill	1908	729539
B	On site	Filter Beds	1908	703665
C	On site	Unspecified Pit	1981	767350
C	On site	Unspecified Pit	1974	767350
D	On site	Unspecified Pit	1938	749256
D	On site	Unspecified Pit	1955	745045

ID	Location	Land Use	Date	Group ID
D	On site	Unspecified Pit	1928	749256
E	On site	Unspecified Pit	1938	734591
E	On site	Unspecified Pit	1955	721106
E	On site	Unspecified Pit	1928	734591
F	1m N	Unspecified Pit	1891	740470
3	1m NE	Coal Pits	1851	648766
G	6m N	Unspecified Works	1981	785608
G	6m N	Sewage Works	1974	659720
G	6m N	Unspecified Works	1965	790896
H	14m W	Unspecified Works	1965	679026
H	16m W	Bleach Works	1938	716760
H	16m W	Bleach Works	1928	716760
H	16m W	Bleach Works	1908	716760
H	19m W	Bleach Works	1955	719239
G	23m N	Unspecified Tanks	1981	778275
G	24m N	Unspecified Tanks	1974	703760
G	24m N	Unspecified Tanks	1965	703760
F	25m NW	Pumping Station	1938	756628
F	25m NW	Pumping Station	1928	756628
F	25m NW	Pumping Station	1908	756628
H	34m W	Bleach Works	1891	735729
5	36m N	Industrial Estate	1981	652312
F	37m N	Unspecified Old Pits	1955	675945
F	38m NW	Chimney	1981	738204
F	38m NW	Chimney	1974	738204
F	38m NW	Chimney	1965	738204
F	43m NW	Unspecified Old Quarry	1908	681203
F	43m NW	Unspecified Pit	1938	758055

ID	Location	Land Use	Date	Group ID
F	43m NW	Unspecified Pit	1928	758055
6	53m W	Fustian Mill	1851	672593
7	57m E	Pump	1851	675596
J	71m NE	Coal Pits	1981	772742
J	71m NE	Coal Pits	1974	772742
J	71m NE	Coal Pits	1965	772742
J	71m NE	Coal Pits	1955	772742
8	77m SE	Sand Pit	1851	643777
9	77m N	Unspecified Depot	1974	777740
L	80m N	Unspecified Depot	1981	747080
M	126m W	Boat House	1981	698691
M	126m W	Boat House	1974	698691
M	126m W	Boat House	1965	698691
M	127m W	Boat House	1938	791169
M	127m W	Boat House	1928	791169
M	127m W	Boat House	1908	791169
M	131m W	Boat House	1955	702697
12	133m S	Unspecified Pit	1915	691088
13	154m W	Unspecified Pit	1891	691087
O	158m E	Unspecified Pit	1938	749732
O	158m E	Unspecified Pit	1928	749732
O	158m E	Unspecified Pit	1908	749732
P	164m SE	Unspecified Pit	1974	691090
P	169m SE	Unspecified Tank	1907	674849
Q	169m S	Old Brick Field	1891	684716
R	193m NE	Coal Pits	1938	741602
R	193m NE	Coal Pits	1928	741602
R	193m NE	Coal Pits	1908	741602

ID	Location	Land Use	Date	Group ID
R	213m NE	Coal Pits	1938	737767
R	213m NE	Coal Pits	1928	737767
R	213m NE	Coal Pits	1908	737767
S	218m W	Unspecified Tanks	1908	751552
S	219m W	Settling Tanks	1974	681808
R	224m NE	Coal Pits	1891	738176
S	225m W	Unspecified Tanks	1928	789967
S	226m W	Unspecified Tanks	1955	711610
U	231m E	Unspecified Tank	1981	674847
R	232m NE	Unspecified Pit	1981	697199
R	232m NE	Unspecified Pit	1974	697199
R	232m NE	Unspecified Pit	1965	697199
R	241m NE	Old Sandstone Quarry	1851	657655
R	244m NE	Unspecified Pit	1981	731651
R	244m NE	Unspecified Pit	1974	731651
R	244m NE	Unspecified Pit	1965	731651
R	244m NE	Unspecified Pit	1955	731651
W	272m N	Pump	1851	675588
Z	277m W	Unspecified Tanks	1938	753803
Z	277m W	Unspecified Tanks	1928	753803
Z	277m W	Unspecified Tanks	1908	753803
Q	277m S	Unspecified Ground Workings	1932	741001
H	278m W	Unspecified Tank	1891	751118
Z	279m W	Unspecified Tanks	1955	726283
Q	281m S	Unspecified Ground Workings	1907	738009
Q	281m S	Unspecified Ground Workings	1923	741001
H	283m W	Unspecified Tank	1908	751118
Q	286m S	Unspecified Ground Workings	1891	733797

ID	Location	Land Use	Date	Group ID
14	290m SE	Unspecified Tank	1965	674848
AB	308m W	Sand Pit	1851	643775
Z	309m W	Unspecified Ground Workings	1974	740129
Z	309m W	Unspecified Ground Workings	1965	740129
Q	310m S	Unspecified Pit	1907	691092
Z	314m W	Unspecified Pit	1938	697367
Z	314m W	Unspecified Pit	1928	697367
Z	317m W	Filter Beds	1908	665791
AD	327m SW	Unspecified Pits	1965	659190
AD	329m SW	Unspecified Ground Workings	1974	648189
15	331m W	Cuttings	1981	642590
AB	342m W	Cuttings	1938	742850
AB	342m W	Cuttings	1928	742850
AF	352m E	Unspecified Pit	1938	717895
AF	352m E	Unspecified Pit	1928	717895
AG	371m SW	Unspecified Tank	1915	779986
AG	371m SW	Unspecified Tank	1932	740090
AG	371m SW	Unspecified Tank	1938	740090
AG	374m SW	Unspecified Tank	1955	777068
AG	375m SW	Unspecified Tank	1923	787789
16	417m SE	Sand Pit	1851	643778
17	461m NE	Unspecified Depot	1981	777740
18	466m W	Industrial Estate	1981	652314
19	477m W	Sand Pit	1851	643773
20	494m W	Cuttings	1981	767563
21	495m NE	Pump	1851	675587

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	82

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 22 >

ID	Location	Land Use	Date	Group ID
B	On site	Unspecified Tank	1910	84681
B	On site	Unspecified Tank	1910	84690
B	On site	Unspecified Tank	1910	96822
B	On site	Unspecified Tank	1930	96822
B	On site	Tanks	1930	87718
B	On site	Tanks	1930	89782
B	On site	Filter Tanks	1930	88227
B	On site	Tanks	1956	87719
B	On site	Old Settling Tanks	1956	78344
B	On site	Unspecified Tank	1956	84682
B	On site	Tanks	1956	102936
B	On site	Tanks	1956	87720
B	1m N	Settling Tanks	1956	78164
B	6m N	Unspecified Tank	1890	97967
B	6m N	Unspecified Tank	1910	97967
G	19m N	Tanks	1956	92603
G	21m N	Tanks	1992	90746
G	28m N	Tanks	1966	95471
G	28m N	Tanks	1957	95471
G	32m N	Unspecified Tank	1992	84680
4	33m W	Unspecified Tank	1890	84654
I	40m N	Unspecified Tank	1957	95209
I	40m N	Unspecified Tank	1957	95209

ID	Location	Land Use	Date	Group ID
10	86m W	Tanks	1956	87714
H	160m W	Unspecified Tank	1910	101060
H	160m W	Unspecified Tank	1930	101060
H	168m W	Unspecified Tank	1956	84689
H	194m W	Unspecified Tank	1939	84685
S	197m W	Unspecified Tank	1956	84656
S	219m W	Settling Tanks	1956	96450
T	221m N	Unspecified Tank	1997	89678
T	223m N	Unspecified Tank	1978	89678
S	223m W	Tanks	1910	87869
S	223m W	Settling Tanks	1930	96450
H	223m W	Unspecified Tank	1890	84688
U	224m E	Unspecified Tank	1992	98192
U	225m E	Unspecified Tank	1980	98192
V	225m N	Unspecified Tank	1966	92748
V	226m N	Unspecified Tank	1966	89639
H	229m W	Unspecified Tank	1930	84687
W	229m N	Unspecified Tank	1956	97953
W	230m N	Unspecified Tank	1992	97953
X	262m N	Unspecified Tank	1966	88887
X	262m N	Unspecified Tank	1966	94592
W	262m N	Unspecified Tank	1956	84683
H	263m W	Tanks	1956	87158
H	266m W	Unspecified Tank	1910	93805
H	266m W	Unspecified Tank	1930	93805
W	268m N	Unspecified Tank	1992	84684
Z	271m W	Settling Tanks	1956	102471
AA	275m NE	Unspecified Tank	1997	101941

ID	Location	Land Use	Date	Group ID
AA	276m NE	Unspecified Tank	1978	101941
Z	276m W	Tanks	1910	87870
Z	276m W	Settling Tanks	1930	102471
H	277m W	Unspecified Tank	1890	102146
H	277m W	Unspecified Tank	1910	102146
H	279m W	Unspecified Tank	1910	84664
H	280m W	Unspecified Tank	1910	100149
H	280m W	Unspecified Tank	1930	100149
H	281m W	Unspecified Tank	1956	84686
H	285m W	Unspecified Tank	1890	94252
H	285m W	Unspecified Tank	1910	94252
Z	303m W	Unspecified Tank	1956	84655
Z	316m W	Settling Tank	1956	78447
AC	323m NE	Unspecified Tank	1966	95447
AC	323m NE	Unspecified Tank	1966	92426
AE	341m NE	Unspecified Tank	1997	93770
AE	342m NE	Unspecified Tank	1966	93770
AE	342m NE	Unspecified Tank	1966	93770
AE	343m NE	Unspecified Tank	1978	93770
AF	347m E	Tanks	1992	95895
AF	348m E	Tanks	1980	95895
L	365m N	Unspecified Tank	1966	84679
AG	373m SW	Unspecified Tank	1956	84657
AF	376m E	Tanks	1992	89834
AF	377m E	Tanks	1980	95622
AG	378m SW	Unspecified Tank	1922	93095
AG	378m SW	Unspecified Tank	1932	93095
AH	409m NE	Unspecified Tank	1978	96978

ID	Location	Land Use	Date	Group ID
AH	411m NE	Unspecified Tank	1997	96978
AI	452m NE	Unspecified Tank	1997	89682
AI	453m NE	Unspecified Tank	1978	89682

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	12

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 22 >

ID	Location	Land Use	Date	Group ID
B	On site	Electricity Substation	1956	45665
K	77m N	Electricity Substation	1973	58554
K	78m N	Electricity Substation	1992	58554
11	128m W	Electricity Substation	1956	45645
N	153m E	Electricity Substation	1980	55593
N	157m E	Electricity Substation	1992	55593
V	266m N	Electricity Substation	1978	56461
V	267m N	Electricity Substation	1997	50610
Y	268m N	Electricity Substation	1973	57335
Y	268m N	Electricity Substation	1992	57335
AE	339m NE	Electricity Substation	1997	49665
AE	340m NE	Electricity Substation	1978	49665

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.

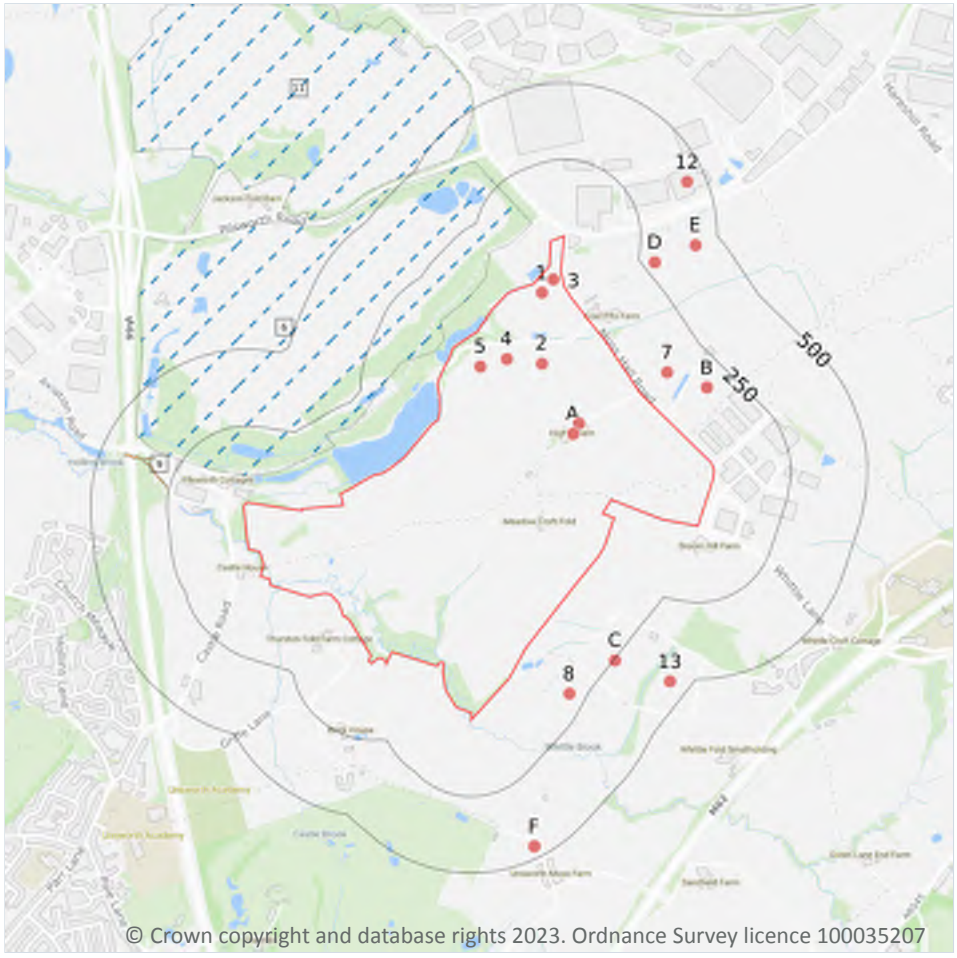
2.5 Historical garages

Records within 500m	0

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'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Active or recent landfill

Historical waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	2

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

Features are displayed on the Waste and landfill map on page 33 >

ID	Location	Details	
6	39m N	Operator: Viridor Waste Management Limited Site Address: Pilsworth South Landfill, Pilsworth Road, Lancashire, BL9 8QZ	WML Number: 0 EPR Reference: - Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: -

ID	Location	Details	
11	420m N	Operator: Viridor Waste Management Limited Site Address: Pilsworth North Landfill Site, Pilsworth Road, Lancashire, BL9 8QZ	WML Number: 0 EPR Reference: - Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: -

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	0

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.

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

3.5 Historical waste sites

Records within 500m	2

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 33 >

ID	Location	Address	Further Details	Date
9	255m W	Site Address: N/A	Type of Site: Refuse Pit Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1930
10	325m W	Site Address: N/A	Type of Site: Refuse Pit Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1930

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

3.6 Licensed waste sites

Records within 500m	0

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

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

3.7 Waste exemptions

Records within 500m	72

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 33 >

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	-	WEX151547	Storing waste exemption	On a Farm	Storage of sludge
2	On site	-	WEX112724	Storing waste exemption	On a farm	Storage of sludge
3	On site	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/BE5748EP/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
4	On site	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/JE5149VE/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
5	On site	-	WEX002345	Storing waste exemption	On a farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of waste for a specified purpose
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of mulch
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Use of waste in construction
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Storing waste exemption	On a farm	Storage of waste in a secure place
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX169201	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of waste in construction
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of mulch
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX009422	Using waste exemption	On a farm	Use of waste for a specified purpose
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Aerobic composting and associated prior treatment
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit

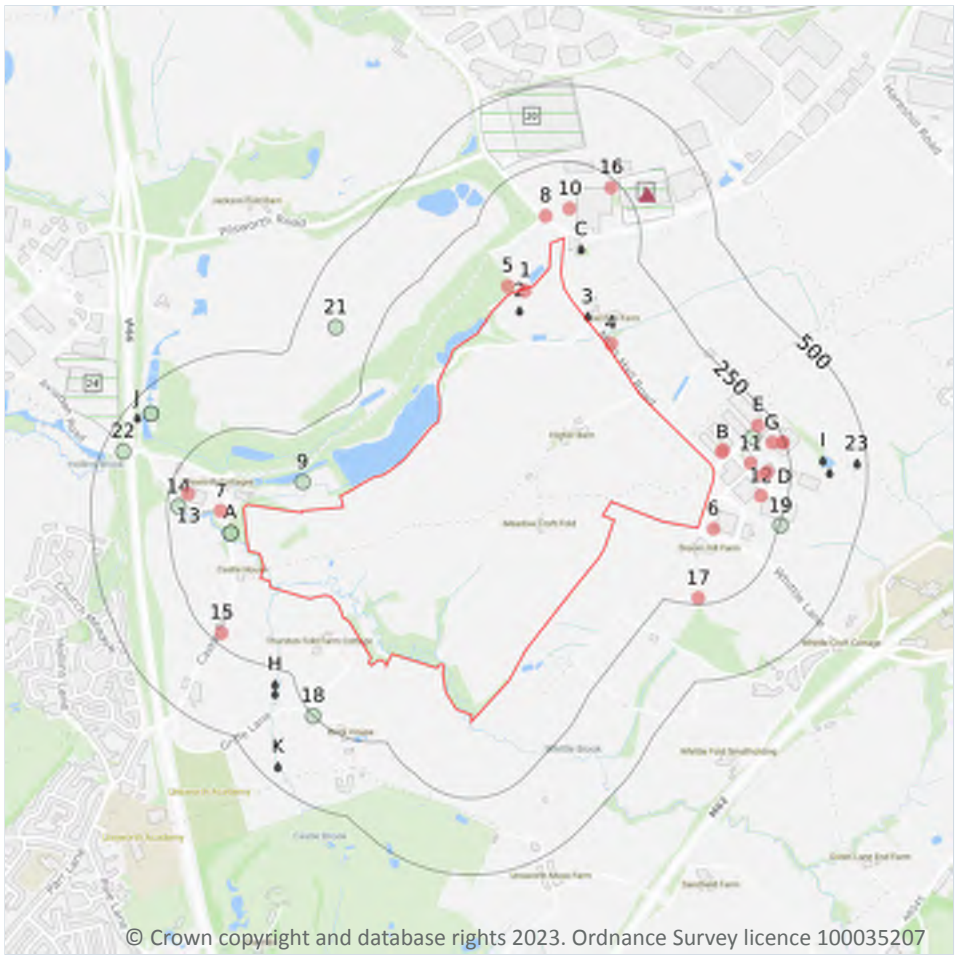
ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
A	On site	Higher Barn Farm Moss Hall Road HEYWOOD Lancashire OL10 2RE	EPR/GH0371LA/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Storing waste exemption	On a Farm	Storage of waste in a secure place
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Disposing of waste exemption	On a Farm	Burning waste in the open
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of mulch
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of waste for a specified purpose
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Burning of waste as a fuel in a small appliance
A	On site	HIGHER BARN FARM, MOSS HALL ROAD, HEYWOOD, OL10 2RE	WEX302932	Using waste exemption	On a Farm	Use of waste in construction
7	107m NE	-	WEX127088	Storing waste exemption	On a farm	Storage of sludge
B	163m NE	-	WEX227640	Storing waste exemption	On a Farm	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
B	163m NE	-	WEX151549	Storing waste exemption	On a Farm	Storage of sludge
B	163m NE	-	WEX356548	Storing waste exemption	On a farm	Storage of sludge
B	163m NE	-	WEX259862	Storing waste exemption	On a farm	Storage of sludge
B	163m NE	-	WEX292468	Storing waste exemption	On a farm	Storage of sludge
8	196m S	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5750JS/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	254m SE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5250JV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	254m SE	Whittle Dairy Farm Heywood Lancashire OL10 2RD	EPR/CE5080ZD/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	284m NE	-	WEX227718	Storing waste exemption	On a Farm	Storage of sludge
D	284m NE	-	WEX151544	Storing waste exemption	On a Farm	Storage of sludge
D	284m NE	-	WEX112722	Storing waste exemption	On a farm	Storage of sludge
D	284m NE	-	WEX292470	Storing waste exemption	On a farm	Storage of sludge
E	424m NE	-	WEX274438	Treating waste exemption	Not on a farm	Screening and blending of waste
E	424m NE	-	WEX274438	Using waste exemption	Not on a farm	Use of waste in construction
12	437m NE	Fowler Welch Limited, Moss Hall Road, Heywood, OL10 2TR	WEX241678	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
13	439m SE	Whittle Dairy Farm Heywood Lancashire ol10 2rd	EPR/ZE5880ZF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Disposing of waste exemption	On a Farm	Burning waste in the open

ID	Location	Site	Reference	Category	Sub-Category	Description
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Using waste exemption	On a Farm	Use of waste in construction
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Disposing of waste exemption	On a Farm	Burning waste in the open
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Using waste exemption	On a Farm	Use of waste in construction
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Disposing of waste exemption	On a farm	Burning waste in the open
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Using waste exemption	On a farm	Use of waste in construction
F	463m S	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
F	463m S	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Using waste exemption	On a farm	Use of waste in construction
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Disposing of waste exemption	On a farm	Burning waste in the open
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Using waste exemption	On a farm	Use of waste in construction
F	463m S	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Disposing of waste exemption	On a farm	Burning waste in the open

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

Hazardous substance storage/usage

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	21

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 41 >

ID	Location	Company	Address	Activity	Category
1	On site	Outfall	Greater Manchester, OL10	Waste Storage, Processing and Disposal	Infrastructure and Facilities
4	14m NE	Gas Valve Compound	Greater Manchester, OL10	Gas Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
5	28m N	Sewage Works	Greater Manchester, OL10	Waste Storage, Processing and Disposal	Infrastructure and Facilities
6	48m E	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
B	54m E	Pylon	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
B	61m E	Mast (Telecommunication)	Greater Manchester, OL10	Telecommunications Features	Infrastructure and Facilities
7	76m W	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities
8	89m N	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
10	97m N	Mast	Greater Manchester, OL10	Telecommunications Features	Infrastructure and Facilities
11	122m E	Ital Logistics	Unit 1 Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery
D	159m E	Suilvision Ltd	Unit E Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Photographic and Optical Equipment	Household, Office, Leisure and Garden
12	163m E	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
D	172m E	G J D Manufacturing	Unit 2 Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Special Purpose Machinery and Equipment	Industrial Products
13	187m W	Garic	Kingfisher Park, Castle Road, Bury, Greater Manchester, BL9 8GD	Construction and Tool Hire	Hire Services
E	200m E	Electricity Sub Station	Greater Manchester, OL10	Electrical Features	Infrastructure and Facilities
G	210m E	Birch Business Park	Greater Manchester, OL10	Business Parks and Industrial Estates	Industrial Features
15	218m SW	Gas Distribution Station	Greater Manchester, BL9	Gas Features	Infrastructure and Facilities
16	226m N	Tank	Greater Manchester, OL10	Tanks (Generic)	Industrial Features
17	230m SE	Pump House	Greater Manchester, OL10	Water Pumping Stations	Industrial Features

ID	Location	Company	Address	Activity	Category
G	242m E	Archbold Logistics Ltd	Unit H Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery
G	242m E	Delice de France	Unit H Birch Business Park, Whittle Lane, Heywood, Greater Manchester, OL10 2SX	Distribution and Haulage	Transport, Storage and Delivery

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	3

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 41 >

ID	Location	Company	Address	Operational status	Tier
F	200m NE	Eddie Stobart Logistics Limited	Eddie Stobart Logistics Limited, Heywood, Unit M2 Heywood Distribution Park, Pilsworth Road, Heywood, Greater Manchester, OL10 2TR	Historical COMAH Site	COMAH Upper Tier Operator
20	279m N	Beck & Pollitzer Ltd	Beck & Pollitzer Ltd, Mosshall Road, Bury	Historical NIHHS Site	-
24	469m W	Holchem Laboratories Limited	Holchem Laboratories Limited, Pilsworth/Bury, M66 Trading Estate, Pilsworth Road, Pilsworth, Bury, Lancashire, BL9 8RD	Current COMAH Site	COMAH Upper Tier Operator

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	1

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.

Features are displayed on the Current industrial land use map on page 41 >

ID	Location	Details	
F	304m NE	Application reference number: No Details Application status: Approved Application date: No Details Address: Eddie Stobart Logistics Ltd, Heywood Distribution Park, Unit M2, Pilsworth Road, Heywood, Greater Manchester, England, OL10 2TR	Details: No Details Enforcement: No Details Date of enforcement: No Details Comment: No Details

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	0

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.

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	14

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 41 >

ID	Location	Address	Details	
2	On site	HEYWOOD INDUSTRIAL ESTATE, PILSWORTH ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990243 Permit Version: 1 Receiving Water: BRIGHTLY BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/11/1980 Revocation Date: -
3	6m NE	THE BOSKINS STP, MOSS HALL ROAD, PILSWORTH, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993161 Permit Version: 1 Receiving Water: TRIB BRIGHTLEY BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 12/02/1997 Revocation Date: -
C	58m N	THREE ARROWS INN, PILSWORTH ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991442 Permit Version: 1 Receiving Water: BRIGHTLEY BROOK	Status: REVOKED NEW CONSENT ISSUED (WATER ACT 1989 SECTION 113) Issue date: - Effective Date: 11/08/1989 Revocation Date: 04/04/2000
C	58m N	THREE ARROWS INN, PILSWORTH ROAD, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016991442 Permit Version: 2 Receiving Water: BRIGHTLEY BROOK	Status: MODIFIED - (WRA 91 SCHED 10 - AS AMENDED BY ENV ACT 1995) Issue date: 05/04/2000 Effective Date: 05/04/2000 Revocation Date: -
H	299m SW	THE BUNGALOW, PILSWORTH COTTAGES, PILSWORTH, BURY, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990429 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 14/07/1983 Revocation Date: -
H	322m SW	CASTLEBROOK FARM SEPTIC TANK, CASTLE ROAD, UNSWORTH, BURY, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993185 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 10/06/1997 Revocation Date: -

ID	Location	Address	Details	
I	356m E	UNIT K BIRCH IND.EST, HEYWOOD, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991177 Permit Version: 1 Receiving Water: WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 02/09/1987 Revocation Date: 01/10/1996
I	374m E	YEARGATE LTD, BIRCH INDUSTRIAL PARK, WHITTLE LANE, HEYWOOD, GREATER MANCHESTER, OL10 2SX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993303 Permit Version: 1 Receiving Water: SURF WTR DRN TO TRIB WHITTL BK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: 06/11/1998 Effective Date: 06/11/1998 Revocation Date: -
K	450m SW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
K	450m SW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
K	450m SW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
K	450m SW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
J	456m W	PILSWORTH SOUTH QUARRY, OFF PILSWORTH ROAD, PILSWORTH, BURY, LANCASHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016993371 Permit Version: 2 Receiving Water: TRIB OF HOLLINS BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: 25/05/2005 Effective Date: 25/05/2005 Revocation Date: 29/03/2011

ID	Location	Address	Details	
23	465m E	LONDON CARRIERS LTD, BIRCH, HEYWOOD, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990242 Permit Version: 1 Receiving Water: TRIB WHITTLE BROOK	Status: LAPSED UNDER SCHEDULE 23 ENVIRONMENT ACT 1995 Issue date: - Effective Date: 01/11/1980 Revocation Date: 01/10/1996

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	12

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 41 >

ID	Location	Details	
A	52m W	Incident Date: 10/09/2001 Incident Identification: 29953 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	52m W	Incident Date: 10/09/2001 Incident Identification: 29953 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
A	52m W	Incident Date: 10/09/2001 Incident Identification: 29953 Pollutant: Inert Materials and Wastes:General Biodegradable Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
9	93m W	Incident Date: 19/06/2001 Incident Identification: 10200 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
E	162m E	Incident Date: 22/09/2003 Incident Identification: 193616 Pollutant: Organic Chemicals/Products Pollutant Description: Dyes and Inks	Water Impact: Category 3 (Minor) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
14	213m W	Incident Date: 19/09/2007 Incident Identification: 532544 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)
18	251m SW	Incident Date: 29/03/2002 Incident Identification: 67581 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
19	253m E	Incident Date: 05/11/2002 Incident Identification: 121012 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
21	380m NW	Incident Date: 30/07/2003 Incident Identification: 177877 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
J	430m W	Incident Date: 23/05/2001 Incident Identification: 6446 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
J	430m W	Incident Date: 23/05/2001 Incident Identification: 6446 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
22	435m W	Incident Date: 05/03/2003 Incident Identification: 141540 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

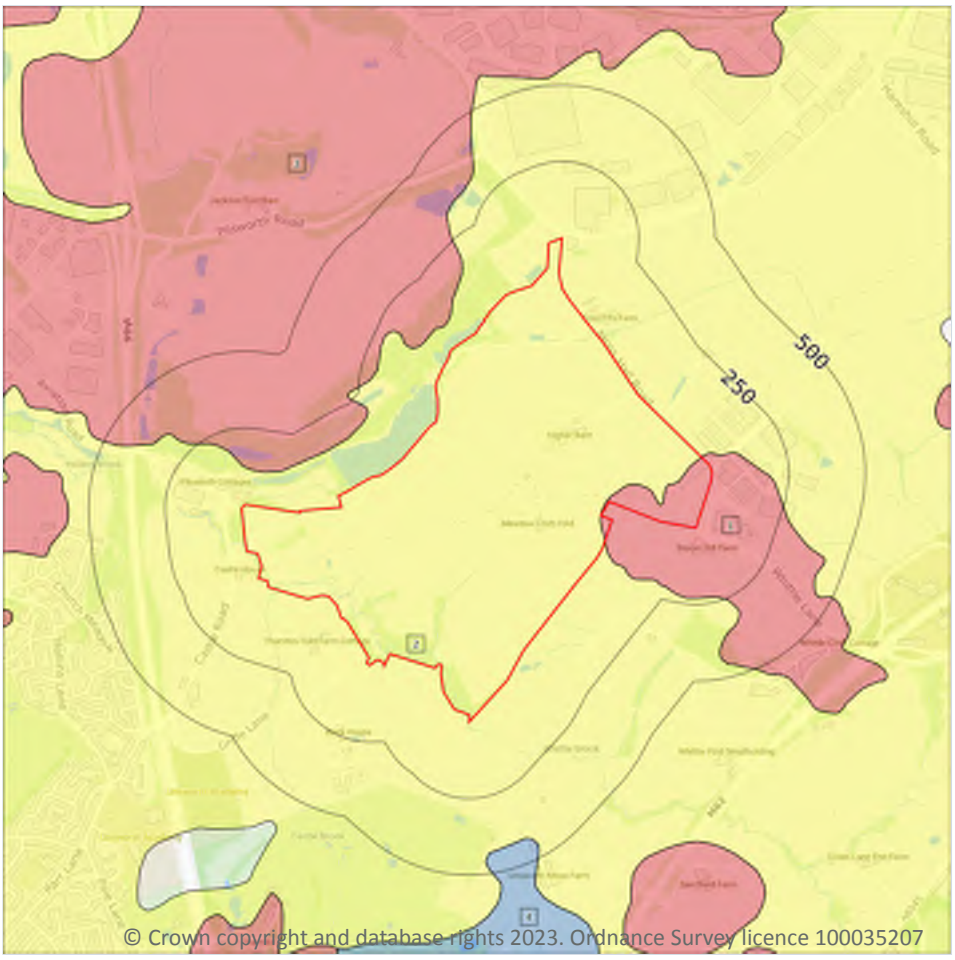
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	4

Aquifer status of groundwater held within superficial geology.

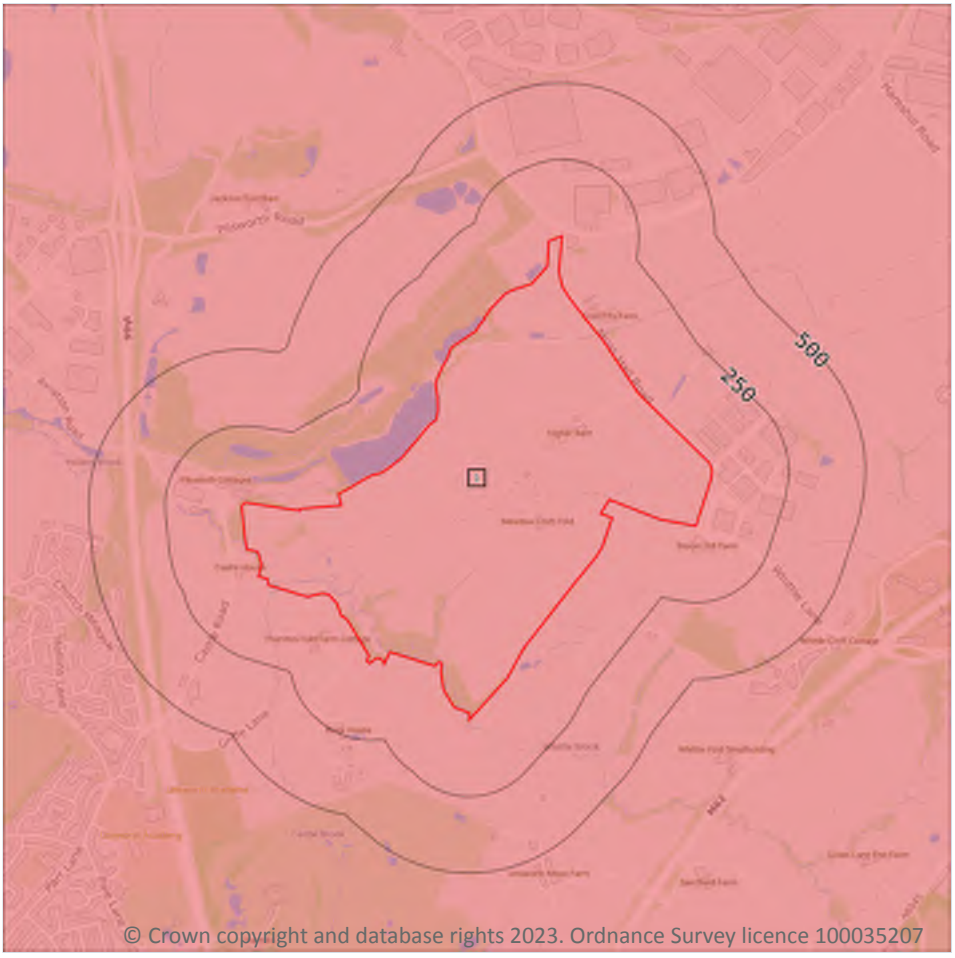
Features are displayed on the Hydrogeology map on page 52 >

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

ID	Location	Designation	Description
3	76m N	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
4	422m S	Unproductive	These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow

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

Bedrock aquifer



Site Outline

Search buffers in metres (m)

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

5.2 Bedrock aquifer

Records within 500m	1

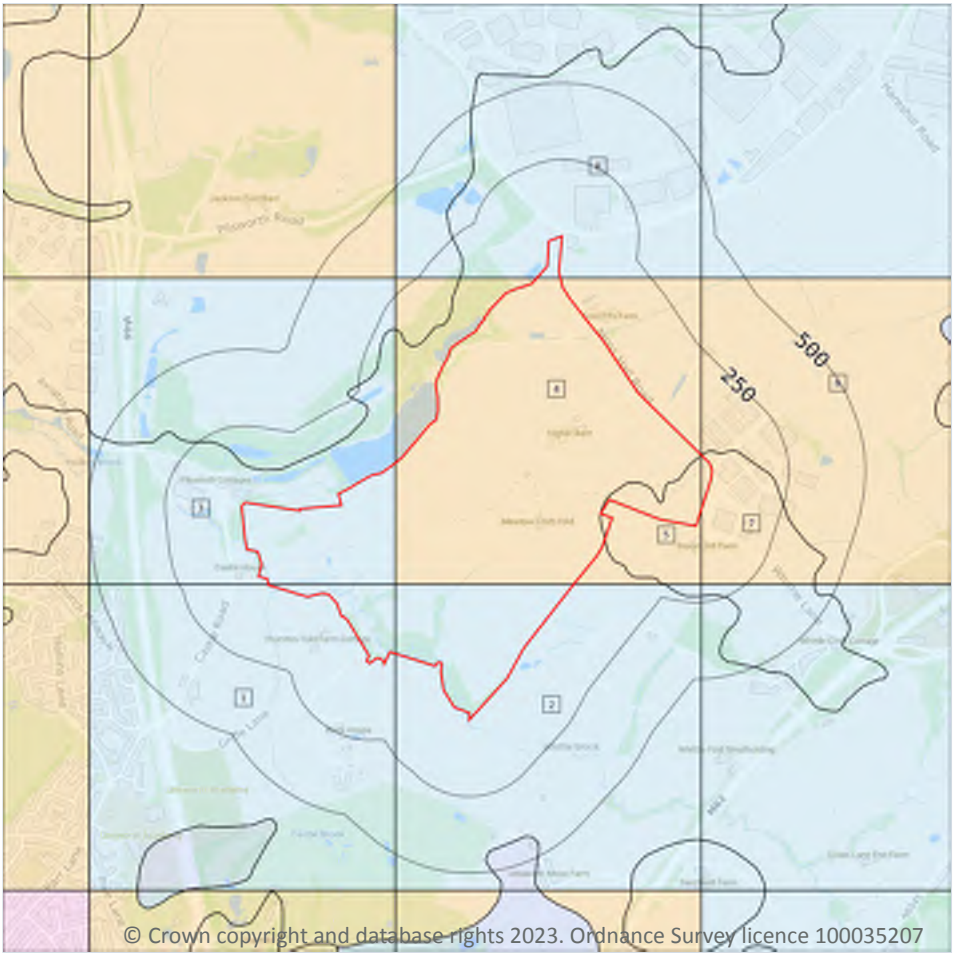
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on page 54 >

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

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

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

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

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	8

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 55 >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

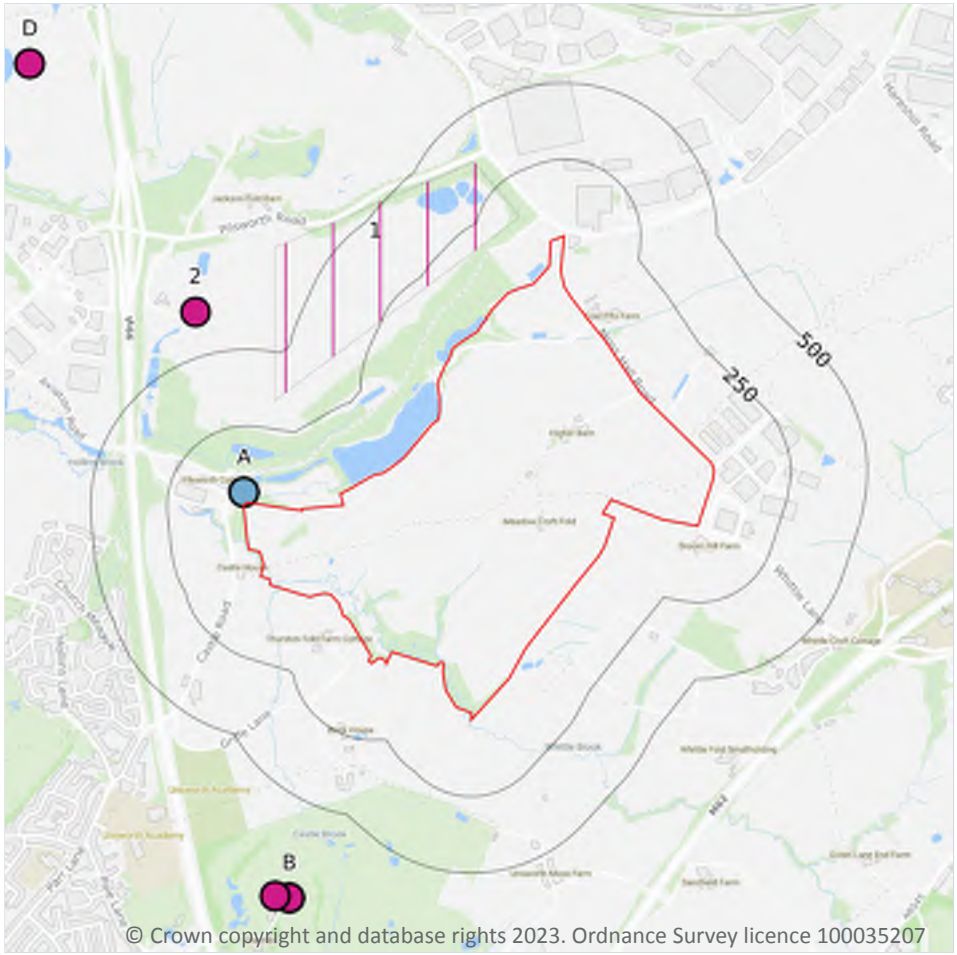
5.5 Groundwater vulnerability- local information

Records on site	0

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

Source Protection Zone 1
Inner catchment

Source Protection Zone 2
Outer catchment

Source Protection Zone 3
Total catchment

Source Protection Zone 4
Zone of Special Interest

Source Protection Zone 1c
Inner catchment - confined aquifer

Source Protection Zone 2c
Outer catchment - confined aquifer

Source Protection Zone 3c
Total catchment - confined aquifer

Drinking water abstraction licences

Drinking water abstraction licences
Polygon features

Drinking water abstraction licences
Linear features

Groundwater abstraction licence (point)

Groundwater abstraction licence (area)

Groundwater abstraction licence (linear)

Surface Water Abstractions (point)

Surface Water Abstractions (area)

Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	27

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 58 >

ID	Location	Details	
1	128m N	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
2	645m NW	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
B	812m SW	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
B	812m SW	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
B	812m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	812m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	812m SW	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
B	812m SW	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
B	824m SW	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	824m SW	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
-	931m W	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	931m W	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

ID	Location	Details	
D	1598m NW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATER FARM, HEAP BRIDGE, BURY" Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
D	1598m NW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATER FARM, HEAP BRIDGE, BURY Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
-	1608m W	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY" Data Type: Point Name: BURY GOLF CLUB Easting: 380970 Northing: 407670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16-Apr-07 Issue No: 100 Version Start Date: 17/04/1997 Version End Date: -
-	1608m W	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 55 Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16/04/2007 Issue No: 101 Version Start Date: 27/01/2004 Version End Date: 16/04/2007

ID	Location	Details	
-	1608m W	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1614m W	Status: Active Licence No: 2569002264R02 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: Bury Golf Club Limited Easting: 380963 Northing: 407673	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: NPS/WR/016967 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1614m W	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380963 Northing: 407673	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1614m NW	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE" Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -

ID	Location	Details	
-	1614m NW	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1778m NW	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATERFOLD FARM, HEAP BRIDGE,NEAR BURY" Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1778m NW	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATERFOLD FARM, HEAP BRIDGE,NEAR BURY Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1812m N	Status: Active Licence No: NW/069/0002/010 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE - NORTHERN MANCHESTER CARBONIFEROUS AQUIFERS Data Type: Point Name: Access Utilities Limited Easting: 382983 Northing: 410861	Annual Volume (m^3): 62400 Max Daily Volume (m^3): 200 Original Application No: - Original Start Date: 19/09/2018 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 19/09/2018 Version End Date: -

ID	Location	Details	
-	1872m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: "BOREHOLE AT SIDDALL FOLD FARM,BIRCH" Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1872m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM,BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -
-	1872m E	Status: Historical Licence No: 2569002247 Details: General Farming & Domestic Direct Source: Ground Water - North West Region Point: BOREHOLE AT SIDDALL FOLD FARM, BIRCH Data Type: Point Name: FLETCHER Easting: 385900 Northing: 408200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/1991 Expiry Date: - Issue No: 100 Version Start Date: 12/06/1991 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m	7

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 58 >

ID	Location	Details	
A	34m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	34m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	34m W	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	34m W	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

ID	Location	Details	
A	34m W	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
A	34m W	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1821m N	Status: Historical Licence No: NW/069/0002/002 Details: Hydroelectric Power Generation Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEAP BRIDGE WEIR Data Type: Point Name: Brother Investments Ltd Easting: 382536 Northing: 410666	Annual Volume (m^3): 76032000 Max Daily Volume (m^3): 345600 Original Application No: - Original Start Date: 17/09/2010 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 18/09/2015 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	2

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.

Features are displayed on the Abstractions and Source Protection Zones map on page 58 >

ID	Location	Details	
-	931m W	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	931m W	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0

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

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

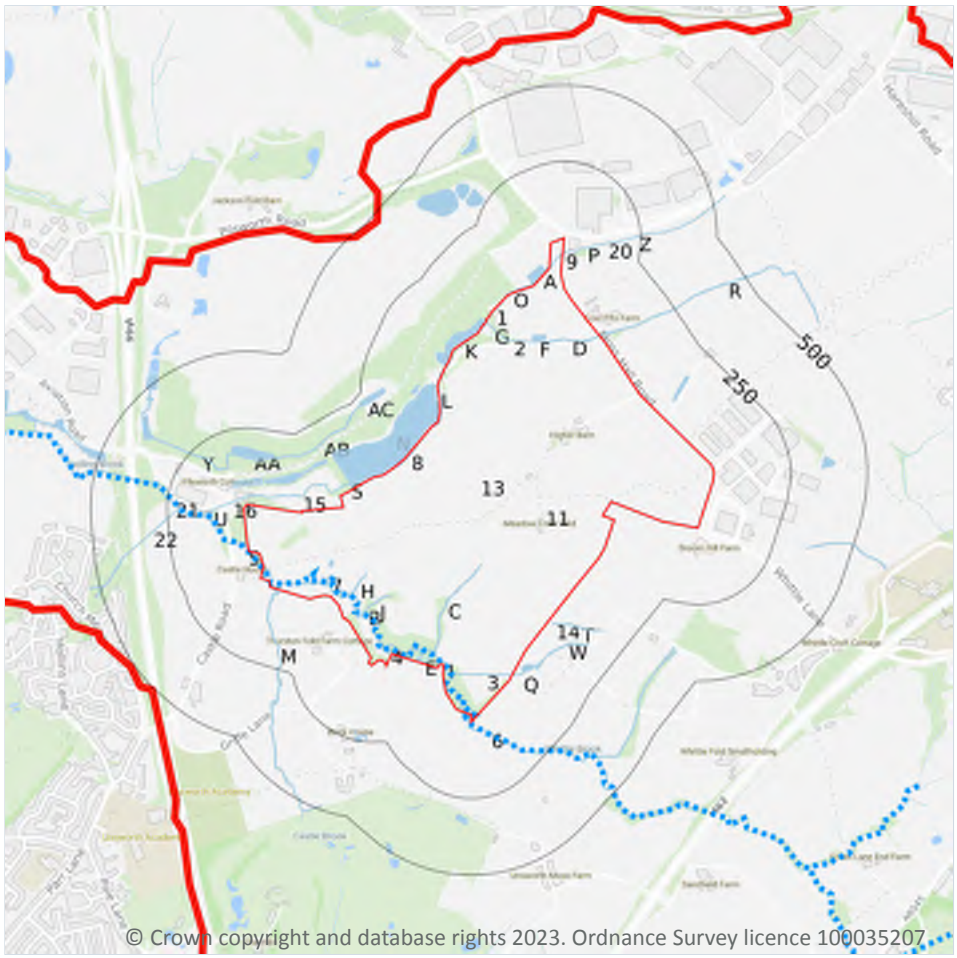
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	60

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 69 >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	On site	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
6	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
7	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
8	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
9	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Brightley Brook
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
B	On site	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	Not provided	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
L	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Brightley Brook
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
L	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
L	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Brightley Brook
O	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
N	8m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
P	14m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
14	15m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	18m S	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
R	19m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
S	22m W	Manmade watercourse for water transfer.	On ground surface	Watercourse may not contain water all year round	Brightley Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
15	24m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
S	24m W	Manmade watercourse for water transfer.	On ground surface	Watercourse may not contain water all year round	Brightley Brook
16	24m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
S	24m W	Manmade watercourse for water transfer.	On ground surface	Watercourse may not contain water all year round	-
Q	26m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	27m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	46m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	53m S	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	63m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
W	66m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
U	94m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
U	110m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hollins Brook
Y	135m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
20	137m NE	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Brightley Brook
Z	140m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
AA	160m W	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
AB	162m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
21	208m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Hollins Brook
22	208m W	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
AC	208m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	27

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 69 >

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 69 >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
11	On site	River	Whittle Brook (Irwell)	GB112069061250	Roch Irk Medlock	Irwell

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on page 69 >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
12	On site	River	Whittle Brook (Irwell)	GB112069061250 !	Moderate	Fail	Moderate	2019

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on page 69 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
13	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 !	Poor	Poor	Good	2019

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

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

High

Medium

Low

Very Low

Historical Flood Events

Areas Used for Flood Storage

Areas Benefiting from Flood Defences

Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	44

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 76 >

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

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on page 76 >

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

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

7.7 Flood Zone 3

Records within 50m	1

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

Features are displayed on the River and coastal flooding map on page 76 >

Location	Type
On site	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	1 in 30 year, Greater than 1.0m
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 80 >

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

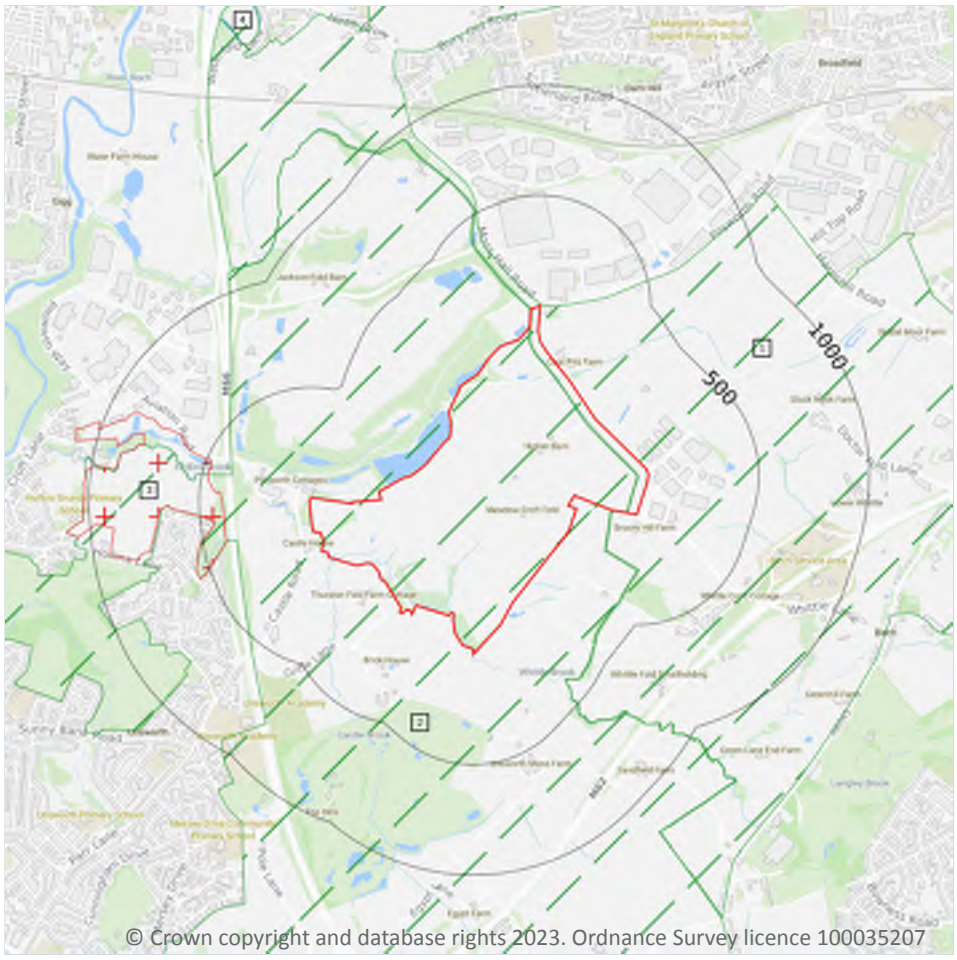
Highest risk on site	Moderate
Highest risk within 50m	Moderate

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

Features are displayed on the Groundwater flooding map on page 82 >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on page 83 >

ID	Location	Name	Data source
3	391m W	Hollins Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	0

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

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

10.8 Biosphere Reserves

Records within 2000m	0

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

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	5

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

Features are displayed on the Environmental designations map on page 83 >

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Rochdale
2	On site	Merseyside and Greater Manchester	Bury
4	1752m NW	Merseyside and Greater Manchester	Bury
-	1859m W	Merseyside and Greater Manchester	Bury
-	1990m N	Merseyside and Greater Manchester	Bury

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

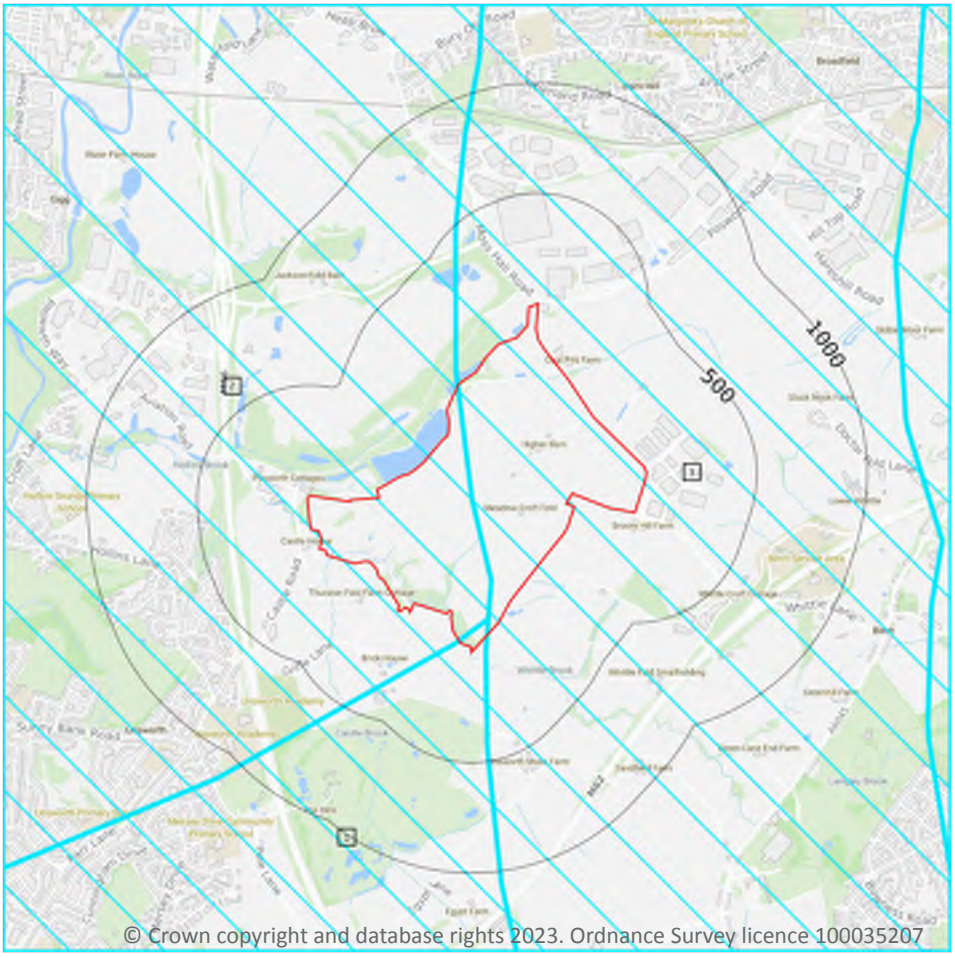
Records within 2000m	4

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

Location	Name	Type	NVZ ID	Status
1607m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1637m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1672m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1790m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

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

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	3

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 88 >

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". 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.

ID	Location	Type of developments requiring consultation
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
3	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 750m", manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

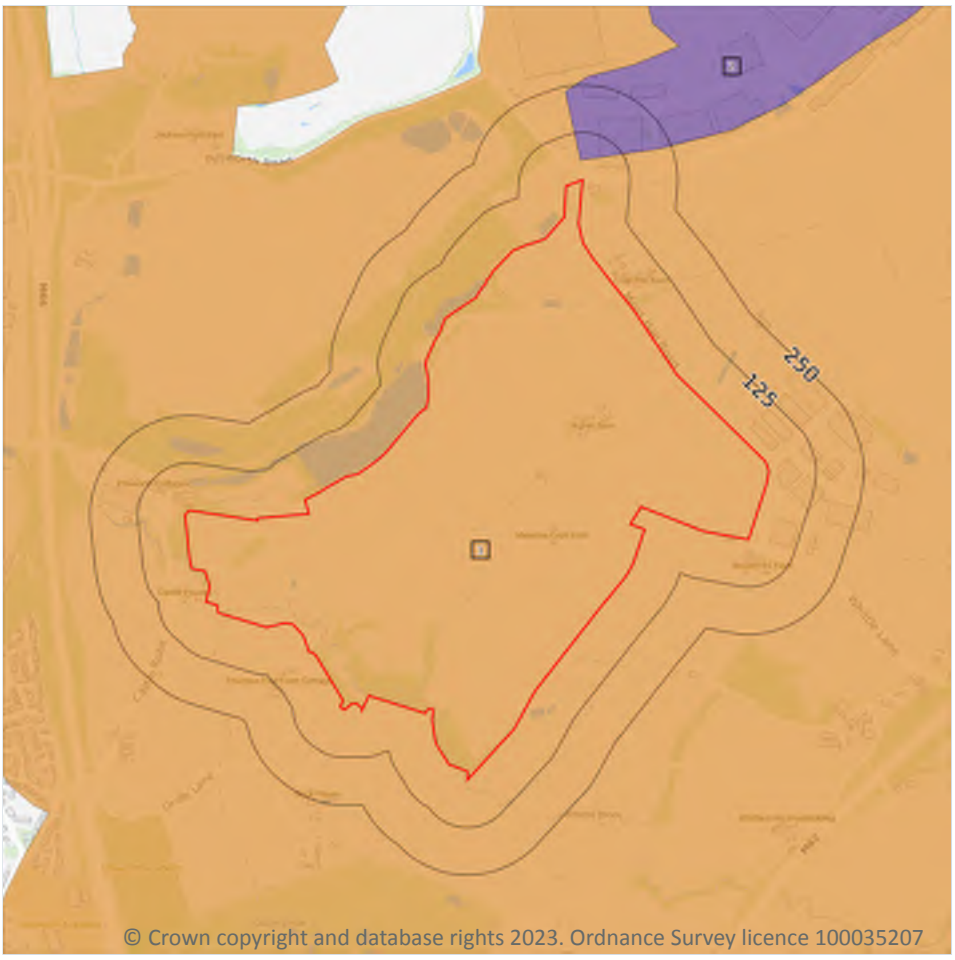
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	2

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

Features are displayed on the Agricultural designations map on page 92 >

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.
2	53m N	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	1

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.

Location	Reference	Scheme	Start Date	End Date
On site	643906	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

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	20

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 94 >

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	On site	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
9	On site	No main habitat but additional habitats present	Additional: DWOOD (INV 50%)
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	43m SW	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
11	57m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	61m W	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%); Additional: DWOOD (INV 50%)
B	97m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	110m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
16	184m SW	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
B	227m W	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
B	229m W	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
B	250m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	1

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.

Features are displayed on the Habitat designations map on page 94 >

ID	Location	Type	Habitat
15	123m W	Network Enhancement Zone 1	Not specified

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 94 >

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
14	115m W	BRITPITS ref: 96553	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

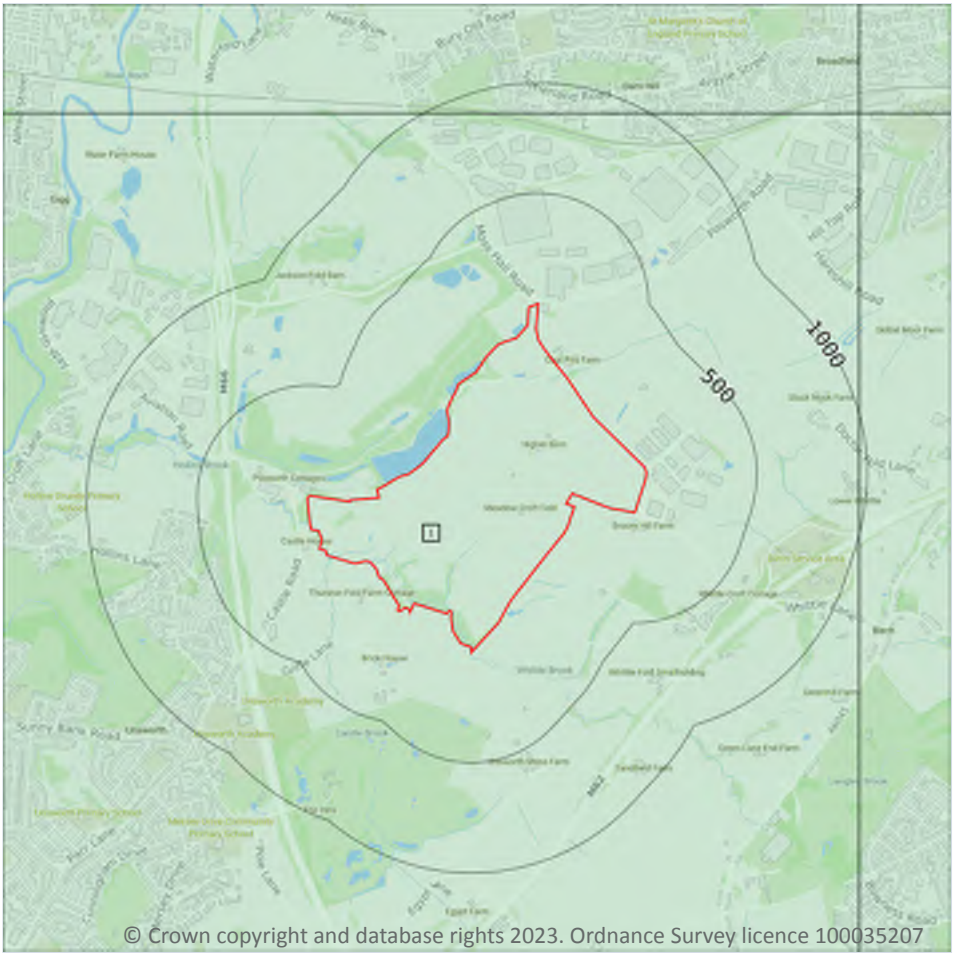
13.4 Limestone Pavement Orders

Records within 250m	0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

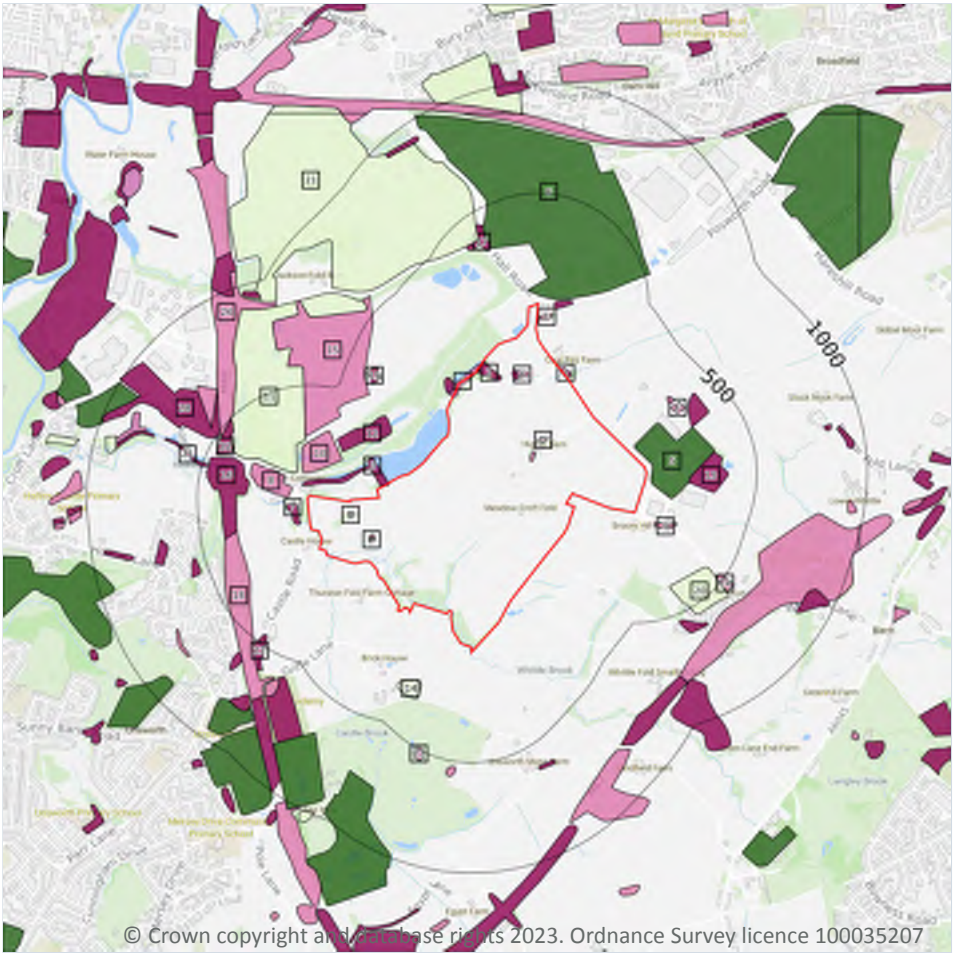
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on page 97 >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD80NW

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	41

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 98 >

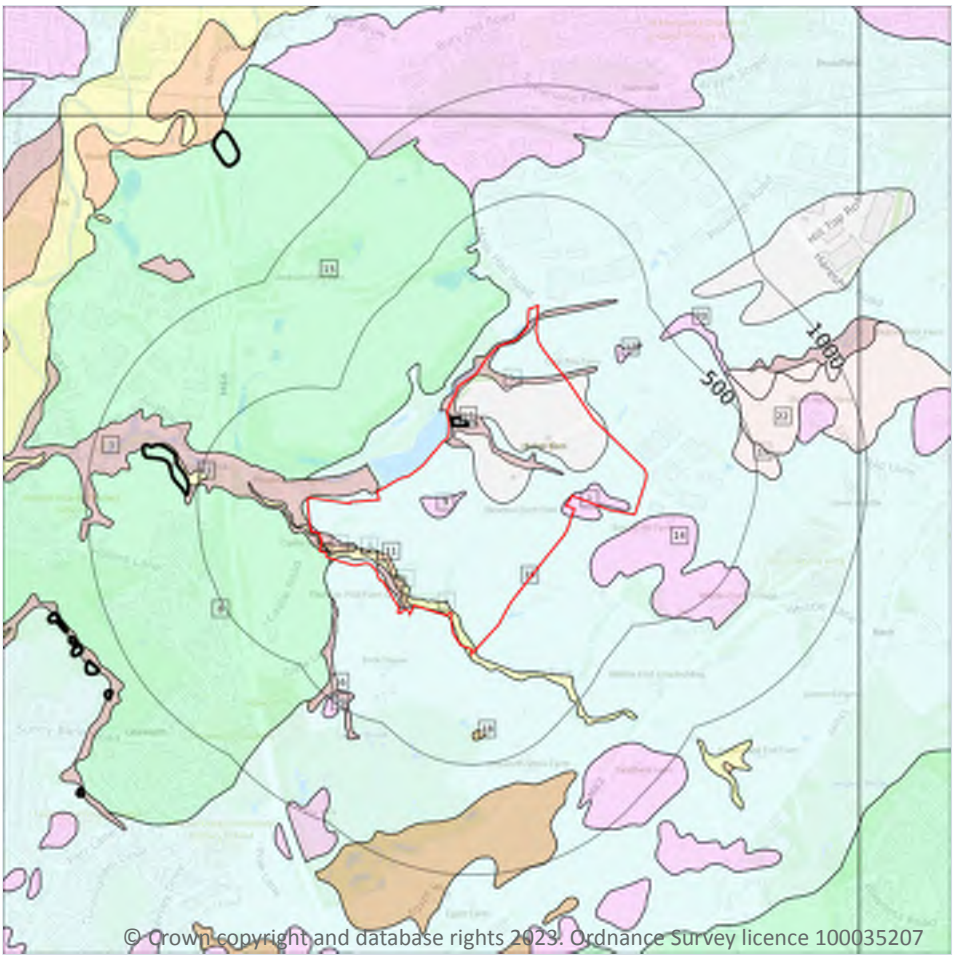
ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	On site	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
A	On site	WGR-VOID	Worked Ground (Undivided)	Void
A	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	On site	WGR-VOID	Worked Ground (Undivided)	Void
C	On site	WGR-VOID	Worked Ground (Undivided)	Void
D	On site	WGR-VOID	Worked Ground (Undivided)	Void
D	On site	WGR-VOID	Worked Ground (Undivided)	Void
E	13m N	WGR-VOID	Worked Ground (Undivided)	Void
C	15m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
5	23m E	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
6	36m N	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
7	43m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
E	73m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	81m W	WGR-VOID	Worked Ground (Undivided)	Void
9	102m E	WGR-VOID	Worked Ground (Undivided)	Void
10	105m W	WGR-VOID	Worked Ground (Undivided)	Void
11	121m W	WMGR-ARTDP	Infilled Ground	Artificial Deposit
12	190m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	196m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	252m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	268m W	WGR-VOID	Worked Ground (Undivided)	Void
16	272m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
F	275m NE	WGR-VOID	Worked Ground (Undivided)	Void
F	281m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
F	286m NE	WGR-VOID	Worked Ground (Undivided)	Void
17	323m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
18	328m W	WGR-VOID	Worked Ground (Undivided)	Void
19	332m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
20	369m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
21	383m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
22	402m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
23	454m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
24	473m E	WGR-VOID	Worked Ground (Undivided)	Void
25	477m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
26	481m W	WGR-VOID	Worked Ground (Undivided)	Void
27	489m S	WGR-VOID	Worked Ground (Undivided)	Void
28	492m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	22

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 101 >

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	On site	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
5	On site	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
7	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
8	On site	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
9	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
10	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
11	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
12	On site	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
14	41m E	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
15	59m N	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
16	171m SW	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
17	238m NE	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
18	348m S	PEAT-P	Peat - Peat	Peat
19	402m E	GLLDD-S	Glaciolacustrine Deposits, Devensian - Sand	Sand
20	458m NE	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
21	466m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
22	483m E	GLLDD-XCZ	Glaciolacustrine Deposits, Devensian - Clay And Silt	Clay And Silt
23	486m SW	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	1

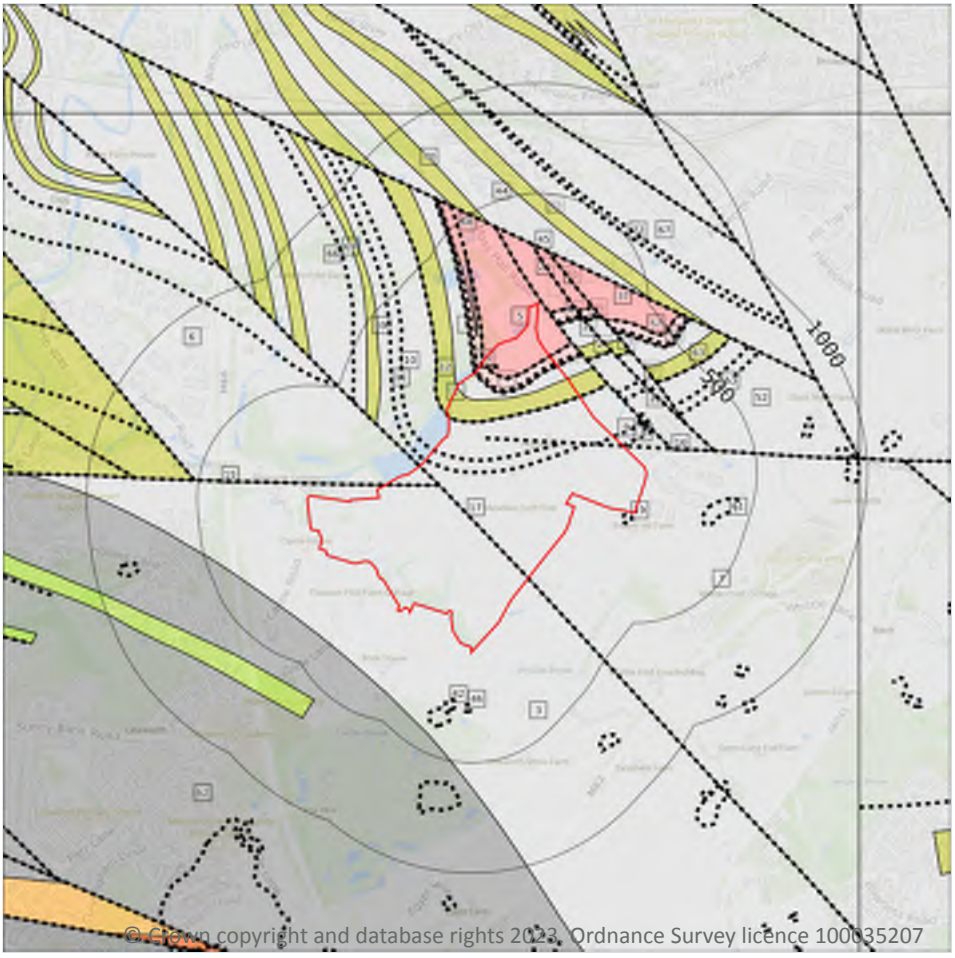
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on page 101 >

ID	Location	LEX Code	Description	Rock description
13	On site	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	29

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 104 >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
3	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
4	On site	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
5	On site	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
6	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
20	16m N	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
22	54m N	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
25	98m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
27	118m NE	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
28	120m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
30	123m N	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
35	178m NE	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
37	180m N	RR-SDST	Rough Rock - Sandstone	Yeadonian Sub-age
40	217m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
43	231m NE	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age
44	233m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
47	241m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
49	265m NW	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
52	271m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
56	295m NE	ROSSE-MDSI	Rossendale Formation - Mudstone And Siltstone	Yeadonian Sub-age
59	298m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
62	311m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
63	313m NE	WH-SDST	Woodhead Hill Rock - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
65	320m N	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
66	321m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
67	382m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
70	420m N	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	43

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.

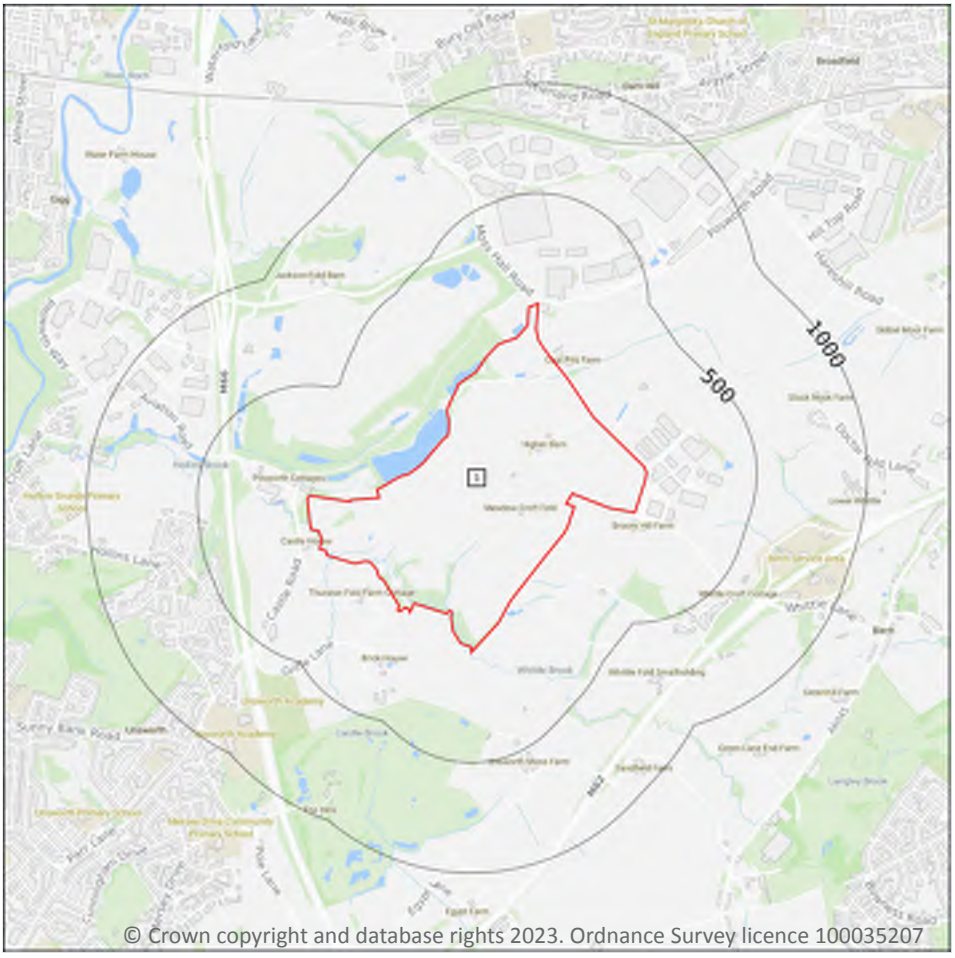
Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 104 >

ID	Location	Category	Description
8	On site	ROCK	Coal seam, inferred
9	On site	ROCK	Coal seam, inferred
10	On site	ROCK	Coal seam, inferred
11	On site	ROCK	Coal seam, inferred
12	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
13	On site	ROCK	Coal seam, inferred
14	On site	ROCK	Coal seam, inferred coincident with bedrock geology boundary
15	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
17	On site	FAULT	Normal fault, inferred; crossmarks on downthrow side
18	On site	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
19	16m E	LANDFORM	Kettle hole; closed hollow
21	16m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
23	54m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
24	89m N	ROCK	Coal seam, inferred

ID	Location	Category	Description
26	98m NE	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
29	120m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
31	123m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
32	125m E	LANDFORM	Kettle hole; closed hollow
33	147m NE	ROCK	Coal seam, inferred
34	149m NE	ROCK	Coal seam, inferred
36	178m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
38	180m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
39	208m NE	ROCK	Coal seam, inferred
41	217m NE	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
42	230m S	LANDFORM	Kettle hole; closed hollow
45	233m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
46	239m S	LANDFORM	Kettle hole; closed hollow
48	241m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
50	267m NE	ROCK	Coal seam, inferred
51	267m NE	ROCK	Coal seam, inferred
53	280m E	ROCK	Coal seam, inferred
54	289m S	LANDFORM	Kettle hole; closed hollow
55	289m NE	ROCK	Coal seam, inferred
57	295m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
58	297m NE	ROCK	Coal seam, inferred
60	298m NE	FOSSIL_HORIZON	Fossil horizon, marine band coincident with bedrock geology boundary
61	299m E	LANDFORM	Drumlin, form-line at base of mound
64	313m NE	ROCK	Coal seam, inferred coincident with bedrock geology boundary
68	388m N	ROCK	Coal seam, inferred
69	400m NW	FOSSIL_HORIZON	Fossil horizon, marine band
71	465m N	ROCK	Coal seam, inferred coincident with bedrock geology boundary
72	487m NE	FOSSIL_HORIZON	Fossil horizon, marine band

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

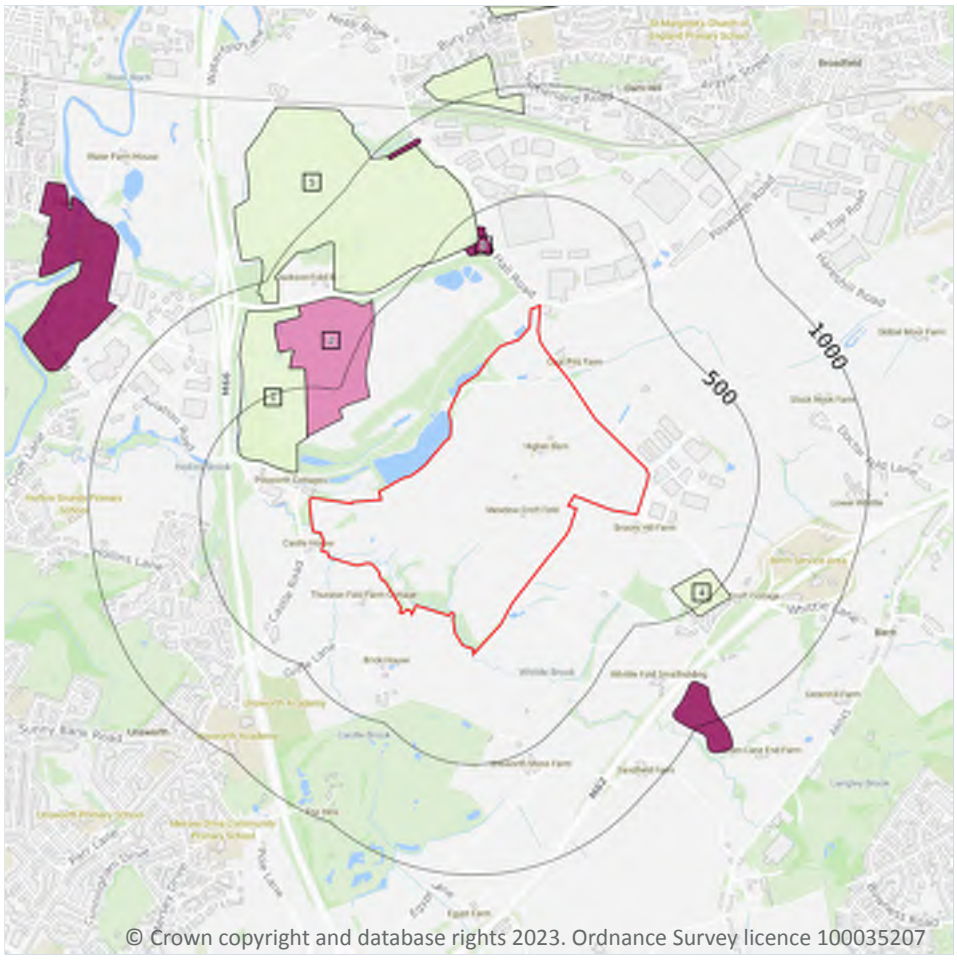
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on page 108 >

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

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	5

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 109 >

ID	Location	LEX Code	Description	Rock description
1	134m W	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	278m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
3	308m N	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
4	369m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

ID	Location	LEX Code	Description	Rock description
5	388m N	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

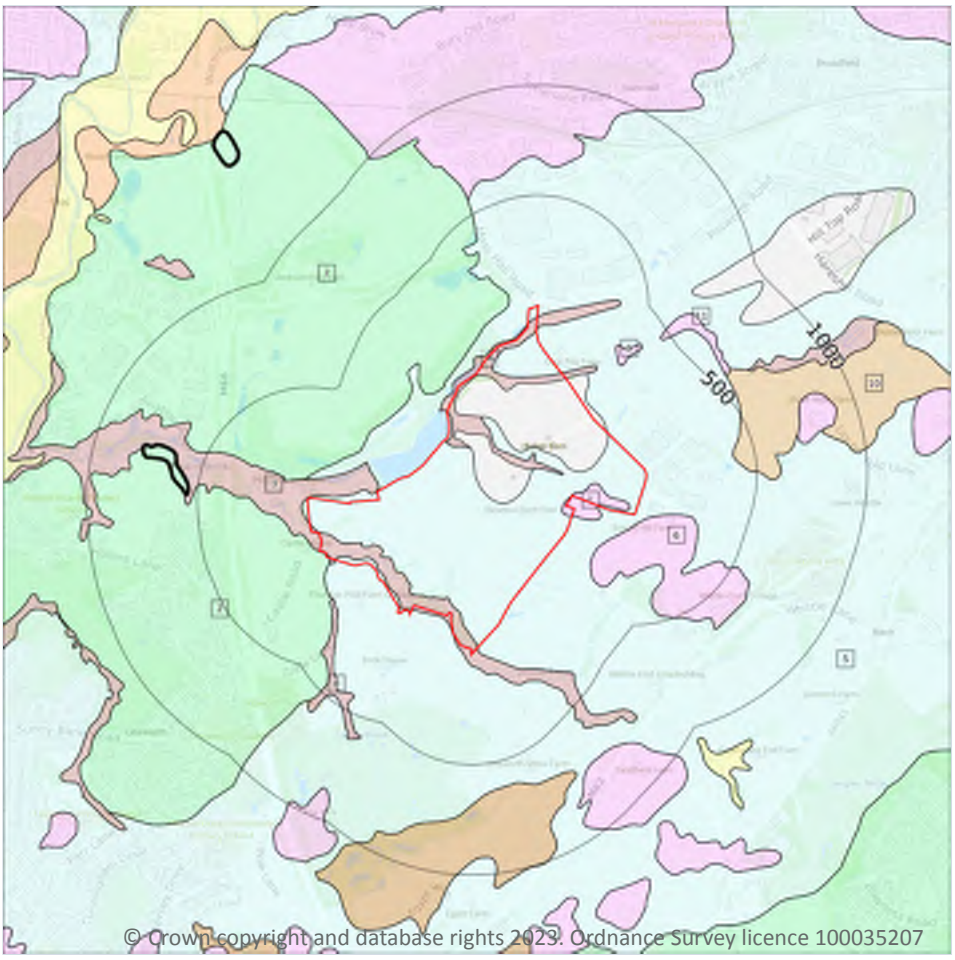
15.3 Artificial ground permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m	11

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on page 111 >

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
3	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	41m E	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
7	59m N	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
8	172m SW	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
9	235m NE	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
10	402m E	LDE-XSV	LACUSTRINE DEPOSITS	SAND AND GRAVEL
11	458m NE	GFSDD-XSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	6

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Low
On site	Intergranular	Very High	High
On site	Mixed	High	Very Low
On site	Mixed	High	Very Low
On site	Mixed	High	Low
41m E	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

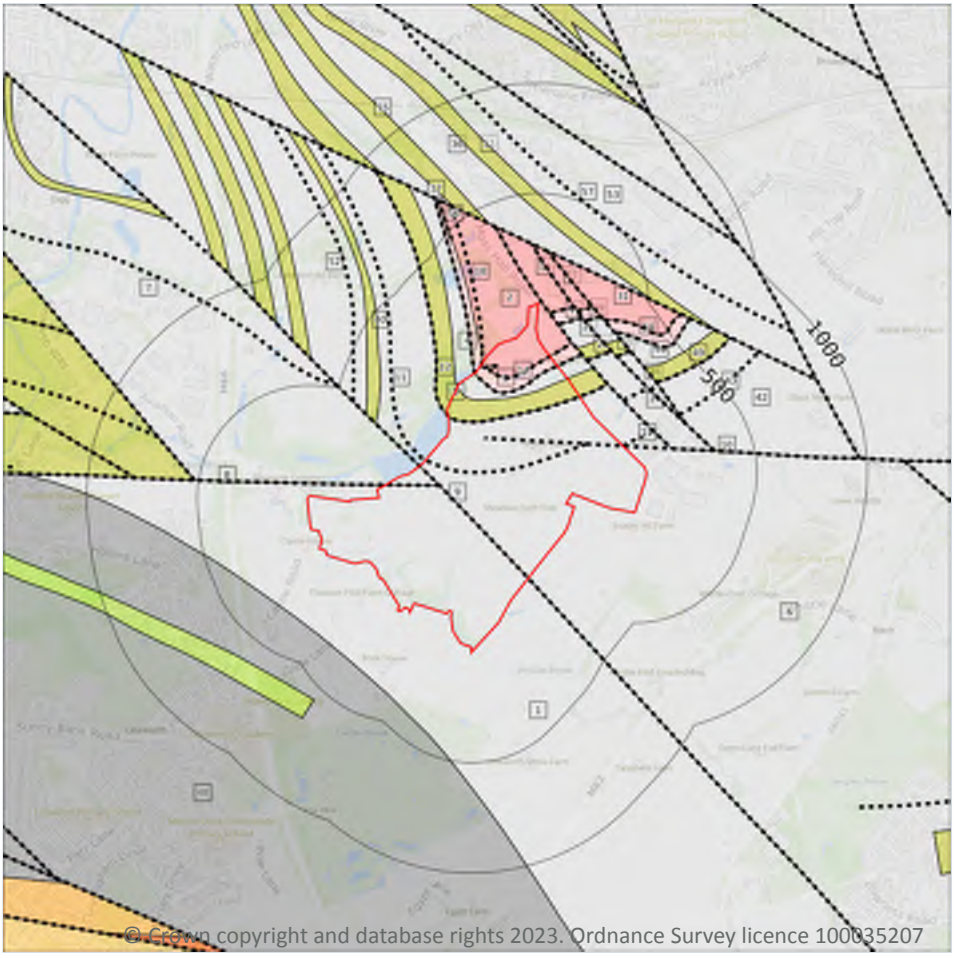
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	29

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

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

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
3	On site	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN

ID	Location	LEX Code	Description	Rock age
4	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	On site	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
6	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
16	16m N	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
19	54m N	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
21	98m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
23	119m NE	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
24	120m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
27	123m N	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
29	178m NE	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
31	180m N	RR-SDST	ROUGH ROCK - SANDSTONE	NAMURIAN
33	217m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
35	231m NE	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN
36	233m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
38	241m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
40	265m NW	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN
42	271m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
44	295m NE	ROSSE-MDSI	ROSSENDALE FORMATION - MUDSTONE AND SILTSTONE	NAMURIAN
46	297m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
48	311m SW	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
49	313m NE	WH-SDST	WOODHEAD HILL ROCK - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
51	320m N	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
52	321m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
53	382m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
55	420m N	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	4

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
On site	Fracture	Moderate	Low
On site	Fracture	Low	Low
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	28

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

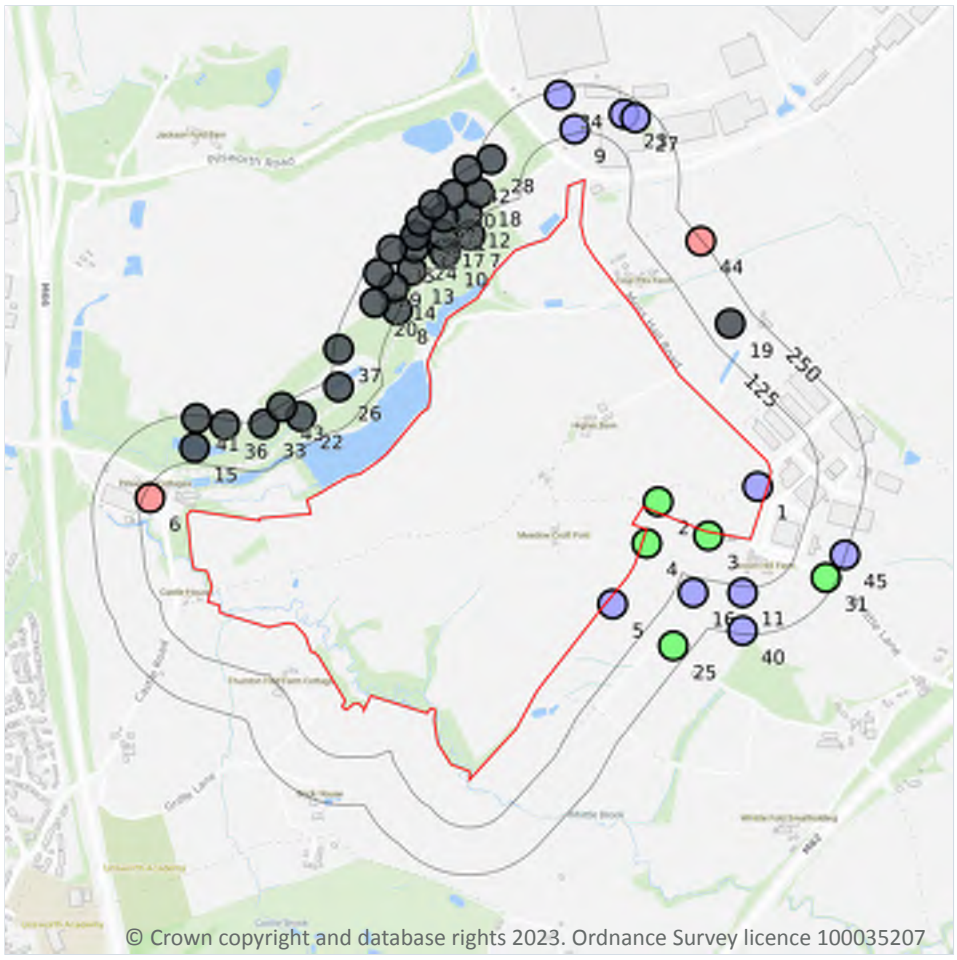
Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 114 >

ID	Location	Category	Description
8	On site	FAULT	Fault, inferred
9	On site	FAULT	Fault, inferred
10	On site	FAULT	Fault, inferred

ID	Location	Category	Description
11	On site	ROCK	Coal seam, inferred
12	On site	ROCK	Coal seam, inferred
13	On site	FOSSIL_HORIZON	Marine band
14	On site	ROCK	Coal seam, inferred
15	0m E	ROCK	Coal seam, inferred
17	16m N	FAULT	Fault, inferred
18	31m N	ROCK	Coal seam, inferred
20	54m N	ROCK	Coal seam, inferred
22	98m NE	FOSSIL_HORIZON	Marine band
25	120m NE	ROCK	Coal seam, inferred
26	123m N	FAULT	Fault, inferred
28	149m NE	ROCK	Coal seam, inferred
30	178m NE	ROCK	Coal seam, inferred
32	180m N	FAULT	Fault, inferred
34	217m NE	FOSSIL_HORIZON	Marine band
37	233m N	FAULT	Fault, inferred
39	241m NE	ROCK	Coal seam, inferred
41	267m NE	ROCK	Coal seam, inferred
43	279m E	ROCK	Coal seam, inferred
45	295m NE	ROCK	Coal seam, inferred
47	297m NE	FOSSIL_HORIZON	Marine band
50	313m NE	ROCK	Coal seam, inferred
54	400m NW	FOSSIL_HORIZON	Marine band
56	464m N	ROCK	Coal seam, inferred
57	487m NE	FOSSIL_HORIZON	Marine band

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	45

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 118 >

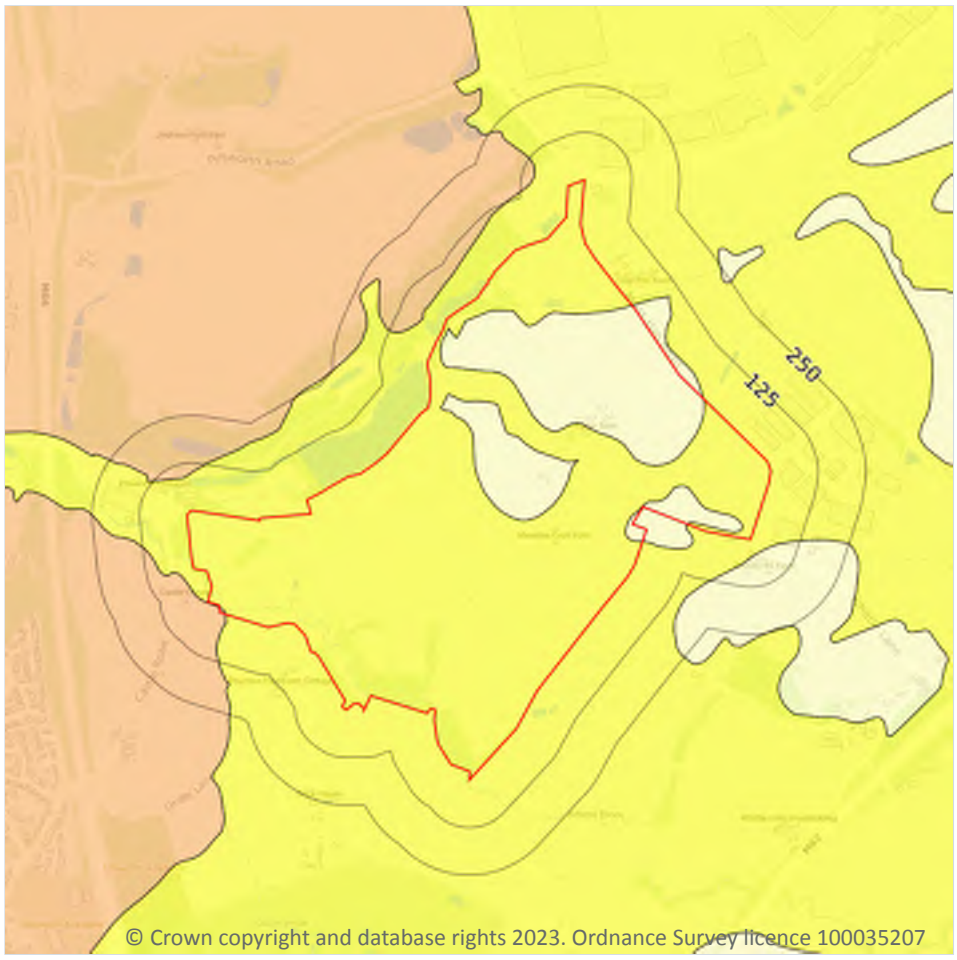
ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	384000 408330	BROOM HILL FARM 1	9.0	N	27344 !
2	On site	383740 408290	BROOM HILL FARM 2	11.0	N	27345 !

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	11m E	383870 408200	BROOM HILL FARM 3	17.0	N	27346
4	13m E	383710 408180	BROOM HILL FARM 4	14.5	N	27347
5	16m SE	383620 408020	BROOM HILL FARM 8	6.0	N	27351
6	108m W	382400 408300	PILSWORTH BLEACHERY WHITEFIELD	80.16	N	27214
7	113m N	383244 408992	PILSWORTH EAST EXTENSION 03/39	-	Y	N/A
8	130m NW	383052 408794	PILSWORTH EAST EXTENSION 03/45A	-	Y	N/A
9	135m N	383520 409270	MOSSHILL RD HEYWOOD 7	5.49	N	27408
10	135m N	383176 408944	PILSWORTH EAST EXTENSION 03/41	-	Y	N/A
11	142m E	383960 408050	BROOM HILL FARM 6	9.8	N	27349
12	155m N	383238 409046	PILSWORTH EAST EXTENSION 03/37	-	Y	N/A
13	158m N	383090 408900	PILSWORTH EAST EXTENSION 03/42	-	Y	N/A
14	164m NW	383041 408855	PILSWORTH EAST EXTENSION 03/45	-	Y	N/A
15	164m W	382518 408431	PILSWORTH EAST EXTENSION 03/56A	-	Y	N/A
16	165m SE	383830 408050	BROOM HILL FARM 7	9.0	N	27350
17	169m N	383170 408993	PILSWORTH EAST EXTENSION 03/40	-	Y	N/A
18	180m N	383266 409104	PILSWORTH EAST EXTENSION 03/35	-	Y	N/A
19	187m NE	383929 408758	PILSWORTH EAST EXTENSION 03/44A	-	Y	N/A
20	192m NW	382992 408814	PILSWORTH EAST EXTENSION 03/44	-	Y	N/A
21	196m N	383174 409038	PILSWORTH EAST EXTENSION 03/40A	-	Y	N/A
22	200m NW	382797 408515	PILSWORTH EAST EXTENSION 03/52	-	Y	N/A
23	202m N	383650 409310	HEYWOOD 58	9.0	N	13953658
24	202m N	383097 408959	PILSWORTH EAST EXTENSION 03/22	-	Y	N/A
25	210m SE	383780 407910	BROOM HILL FARM 9	14.5	N	27352
26	210m NW	382897 408592	PILSWORTH EAST EXTENSION 03/46	-	Y	N/A
27	211m N	383680 409300	HEYWOOD 58B	9.0	N	13953662
28	213m N	383300 409191	PILSWORTH EAST EXTENSION 03/36	-	Y	N/A
29	215m NW	383003 408891	PILSWORTH EAST EXTENSION 03/43	-	Y	N/A

ID	Location	Grid reference	Name	Length	Confidential	Web link
30	221m N	383198 409099	PILSWORTH EAST EXTENSION 03/30	-	Y	N/A
31	222m E	384180 408090	BROOM HILL FARM 5	10.5	N	27348
32	225m N	383100 408991	PILSWORTH EAST EXTENSION 03/22A	-	Y	N/A
33	230m W	382699 408494	PILSWORTH EAST EXTENSION 03/53	-	Y	N/A
34	232m N	383480 409360	MOSSHILL RD HEYWOOD D	4.57	N	27391
35	233m N	383038 408954	PILSWORTH EAST EXTENSION 03/42A	-	Y	N/A
36	236m W	382598 408492	PILSWORTH EAST EXTENSION 03/55	-	Y	N/A
37	237m NW	382897 408692	PILSWORTH EAST EXTENSION 03/47	-	Y	N/A
38	238m N	383111 409029	PILSWORTH EAST EXTENSION 03/29A	-	Y	N/A
39	239m N	383147 409072	PILSWORTH EAST EXTENSION 03/29	-	Y	N/A
40	241m SE	383960 407950	BROOM HILL FARM 10	5.5	N	27353
41	243m W	382523 408510	PILSWORTH EAST EXTENSION 03/56	-	Y	N/A
42	246m N	383237 409163	PILSWORTH EAST EXTENSION 03/34	-	Y	N/A
43	246m NW	382747 408539	PILSWORTH EAST EXTENSION 03/53A	-	Y	N/A
44	247m NE	383851 408976	HEYWOOD 1	1616.0	N	27339
45	248m E	384230 408150	BROOM HILL FARM 14	8.5	N	27357

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	4

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).

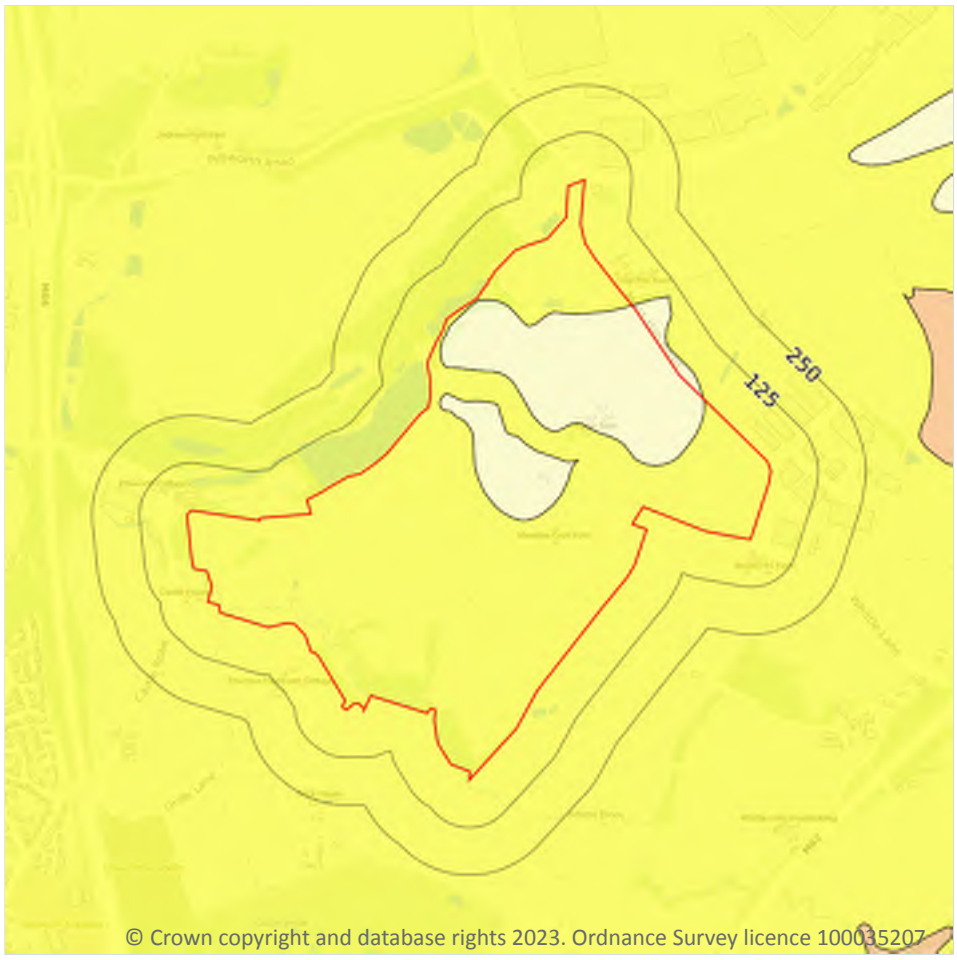
Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 121 >

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

Location	Hazard rating	Details
41m E	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	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.

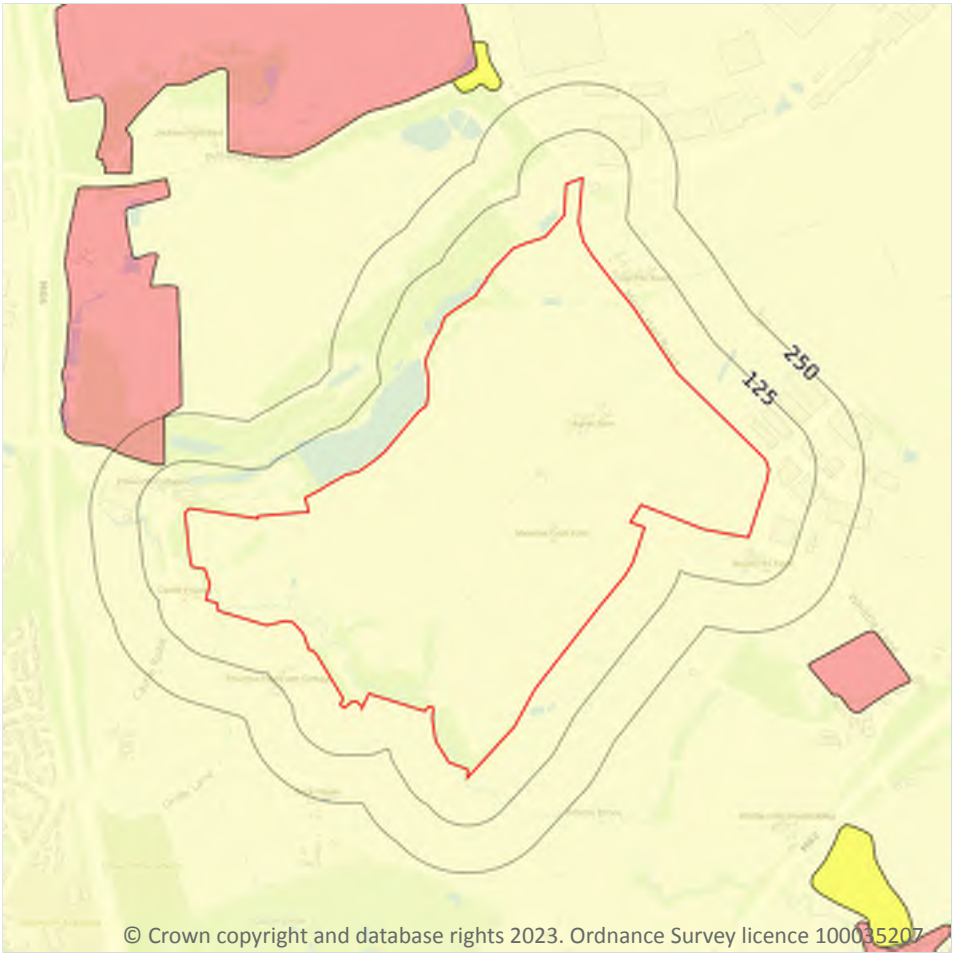
Features are displayed on the Natural ground subsidence - Running sands map on page 123 >

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

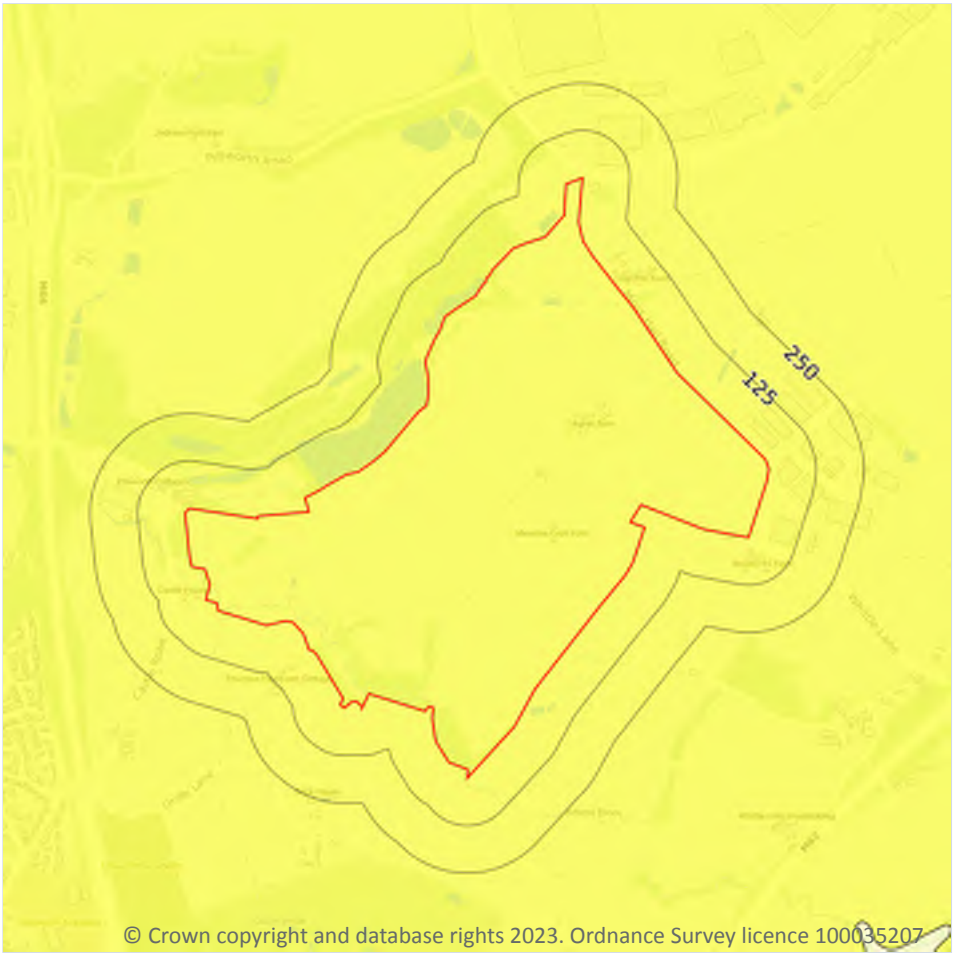
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 125 >

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

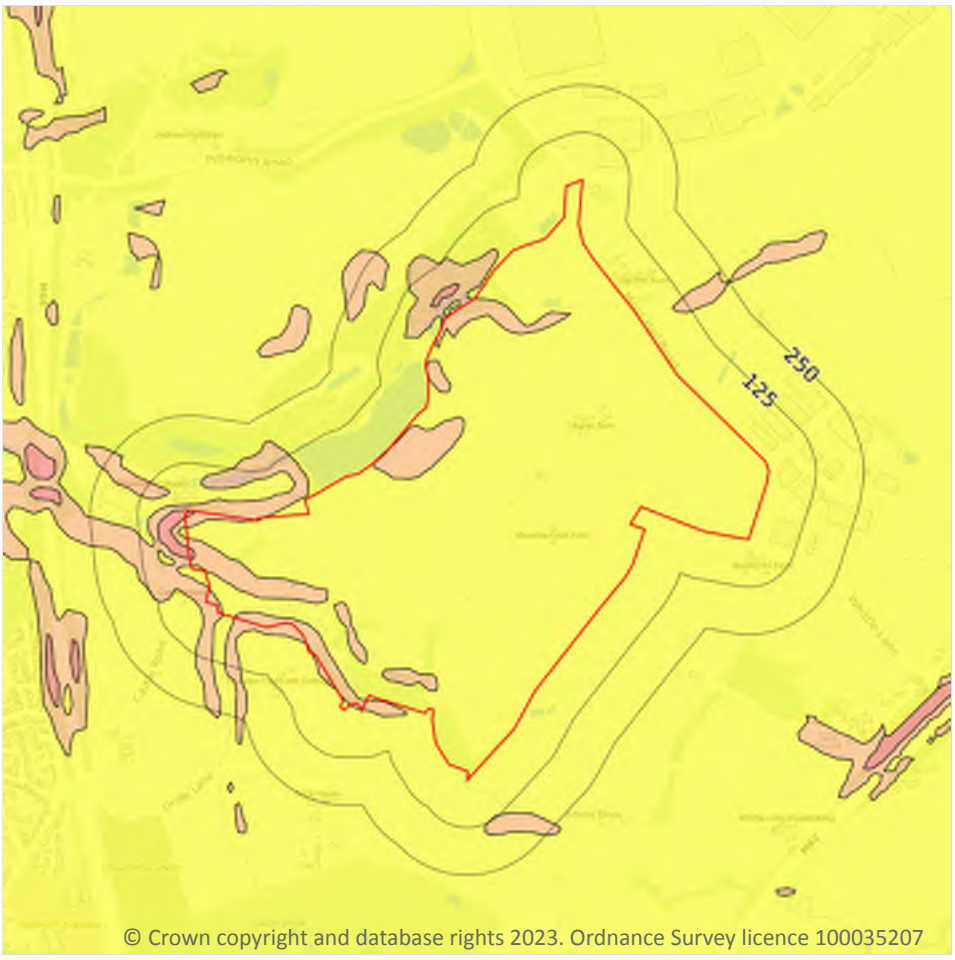
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 126 >

Location	Hazard rating	Details
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	6

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 127 >

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.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
On site	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
4m N	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.
38m N	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
42m W	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

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

17.6 Ground dissolution of soluble rocks

Records within 50m	1

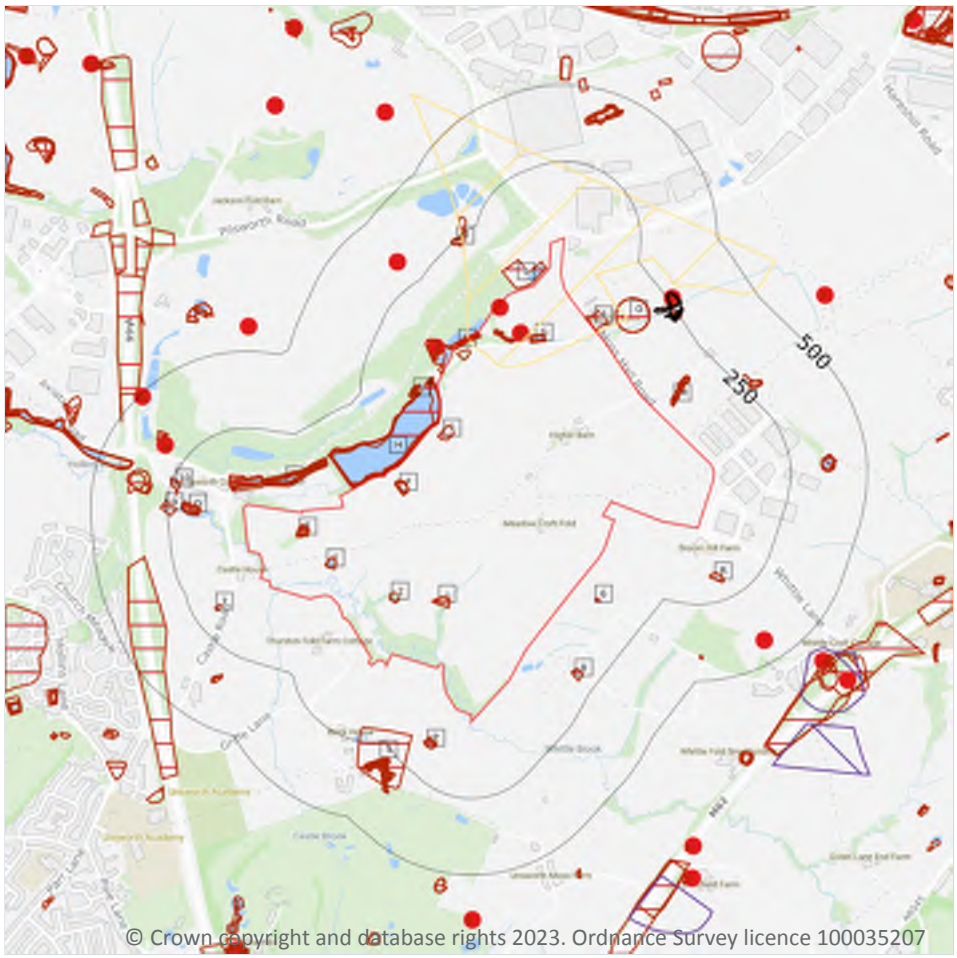
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 129 >

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

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	8

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

Features are displayed on the Mining and ground workings map on page 131 >

ID	Location	Details	Description
A	On site	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire 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
B	On site	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire Commodity: Sand 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
K	54m N	Name: Pilsworth Clough Address: HEYWOOD, Lancashire 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
T	264m NE	Name: Three Land Ends Address: Darn Hill, HEYWOOD, Lancashire 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
W	328m W	Name: Hollins Sand Pit Address: Hollins, BURY, Lancashire Commodity: Sand 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
12	340m N	Name: Pilsworth South Quarry Address: Pilsworth, BURY, Lancashire Commodity: Sand 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

ID	Location	Details	Description
14	425m SE	Name: Whittle Sandpit Address: Birch, ROCHDALE, Lancashire Commodity: Sand 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
AC	493m W	Name: Hollins Sand Pit Address: Hollins, BURY, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	115

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

Features are displayed on the Mining and ground workings map on page 131 >

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Reservoir	1891	1:10560
2	On site	Unspecified Pit	1965	1:10560
A	On site	Water Body	1955	1:10560
B	On site	Sand Pit	1851	1:10560
C	On site	Filter Tanks	1928	1:10560
C	On site	Filler Tanks	1938	1:10560
C	On site	Filter Tanks	1955	1:10560
D	On site	Filter Beds	1928	1:10560
D	On site	Filter Beds	1908	1:10560
D	On site	Pond	1891	1:10560
D	On site	Pond	1955	1:10560
D	On site	Filter Beds	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	On site	Filter Beds	1955	1:10560
E	On site	Unspecified Pit	1928	1:10560
E	On site	Pond	1981	1:10000
E	On site	Pond	1908	1:10560
E	On site	Unspecified Pit	1938	1:10560
E	On site	Unspecified Pit	1955	1:10560
F	On site	Unspecified Pit	1928	1:10560
F	On site	Pond	1908	1:10560
F	On site	Unspecified Pit	1938	1:10560
F	On site	Unspecified Pit	1955	1:10560
G	On site	Reservoir	1981	1:10000
G	On site	Reservoir	1974	1:10000
G	On site	Reservoir	1938	1:10560
G	On site	Reservoir	1891	1:10560
G	On site	Pond	1965	1:10560
G	On site	Reservoir	1955	1:10560
G	On site	Reservoir	1928	1:10560
G	On site	Reservoir	1908	1:10560
H	On site	Reservoir	1938	1:10560
H	On site	Reservoir	1891	1:10560
H	On site	Reservoir	1955	1:10560
H	On site	Reservoir	1928	1:10560
H	On site	Reservoir	1908	1:10560
H	On site	Reservoir	1851	1:10560
I	On site	Unspecified Pit	1981	1:10000
I	On site	Unspecified Pit	1974	1:10000
I	On site	Unspecified Pit	1965	1:10560
J	On site	Unspecified Pit	1981	1:10000

ID	Location	Land Use	Year of mapping	Mapping scale
J	On site	Unspecified Pit	1974	1:10000
K	1m N	Unspecified Pit	1891	1:10560
H	1m NW	Reservoir	1981	1:10000
H	1m NW	Reservoir	1974	1:10000
H	1m NW	Ponds	1965	1:10560
4	1m NE	Coal Pits	1851	1:10560
5	6m N	Sewage Works	1974	1:10000
K	37m N	Unspecified Old Pits	1955	1:10560
K	43m NW	Unspecified Pit	1928	1:10560
K	43m NW	Unspecified Old Quarry	1908	1:10560
K	43m NW	Unspecified Pit	1938	1:10560
L	49m W	Reservoirs	1891	1:10560
M	50m NE	Ponds	1891	1:10560
M	50m NE	Ponds	1938	1:10560
M	50m NE	Ponds	1928	1:10560
M	50m NE	Ponds	1908	1:10560
M	55m NE	Pond	1981	1:10000
M	55m NE	Pond	1974	1:10000
M	55m NE	Pond	1965	1:10560
M	55m NE	Pond	1955	1:10560
N	57m NW	Pond	1891	1:10560
N	60m NW	Pond	1938	1:10560
N	60m NW	Pond	1928	1:10560
N	60m NW	Pond	1908	1:10560
L	60m W	Reservoirs	1938	1:10560
L	60m W	Reservoirs	1928	1:10560
L	60m W	Reservoirs	1908	1:10560
L	61m W	Water Body	1851	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
L	65m W	Reservoirs	1981	1:10000
L	65m W	Reservoirs	1974	1:10000
L	65m W	Ponds	1965	1:10560
L	65m W	Reservoirs	1955	1:10560
O	71m NE	Coal Pits	1981	1:10000
O	71m NE	Coal Pits	1974	1:10000
O	71m NE	Coal Pits	1965	1:10560
O	71m NE	Coal Pits	1955	1:10560
6	77m SE	Sand Pit	1851	1:10560
M	101m NE	Ponds	1891	1:10560
M	107m NE	Pond	1851	1:10560
P	125m S	Pond	1981	1:10000
P	125m S	Pond	1974	1:10000
P	125m S	Pond	1965	1:10560
P	133m S	Unspecified Pit	1915	1:10560
Q	141m W	Reservoir	1974	1:10000
Q	141m W	Pond	1965	1:10560
Q	142m W	Reservoir	1938	1:10560
Q	142m W	Reservoir	1928	1:10560
Q	142m W	Pond	1908	1:10560
Q	144m W	Pond	1981	1:10000
Q	144m W	Reservoir	1955	1:10560
7	154m W	Unspecified Pit	1891	1:10560
R	158m E	Unspecified Pit	1928	1:10560
R	158m E	Unspecified Pit	1908	1:10560
R	158m E	Unspecified Pit	1938	1:10560
8	164m SE	Unspecified Pit	1974	1:10000
S	169m S	Old Brick Field	1891	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
T	193m NE	Coal Pits	1928	1:10560
T	193m NE	Coal Pits	1908	1:10560
T	193m NE	Coal Pits	1938	1:10560
T	213m NE	Coal Pits	1928	1:10560
T	213m NE	Coal Pits	1908	1:10560
T	213m NE	Coal Pits	1938	1:10560
9	219m W	Settling Tanks	1974	1:10000
U	221m N	Ponds	1981	1:10000
10	222m W	Pond	1891	1:10560
T	224m NE	Coal Pits	1891	1:10560
U	225m N	Ponds	1974	1:10000
T	232m NE	Unspecified Pit	1981	1:10000
T	232m NE	Unspecified Pit	1974	1:10000
T	232m NE	Unspecified Pit	1965	1:10560
T	241m NE	Old Sandstone Quarry	1851	1:10560
T	244m NE	Unspecified Pit	1981	1:10000
T	244m NE	Unspecified Pit	1974	1:10000
T	244m NE	Unspecified Pit	1965	1:10560
T	244m NE	Unspecified Pit	1955	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	7

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

Features are displayed on the Mining and ground workings map on page 131 >

ID	Location	Land Use	Year of mapping	Mapping scale
T	193m NE	Coal Pits	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
T	193m NE	Coal Pits	1928	1:10560
T	193m NE	Coal Pits	1908	1:10560
T	213m NE	Coal Pits	1938	1:10560
T	213m NE	Coal Pits	1928	1:10560
T	213m NE	Coal Pits	1908	1:10560
T	224m NE	Coal Pits	1891	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

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

Features are displayed on the Mining and ground workings map on page 131 >

ID	Location	Name	Commodity	Class	Likelihood
3	On site	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

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

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

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

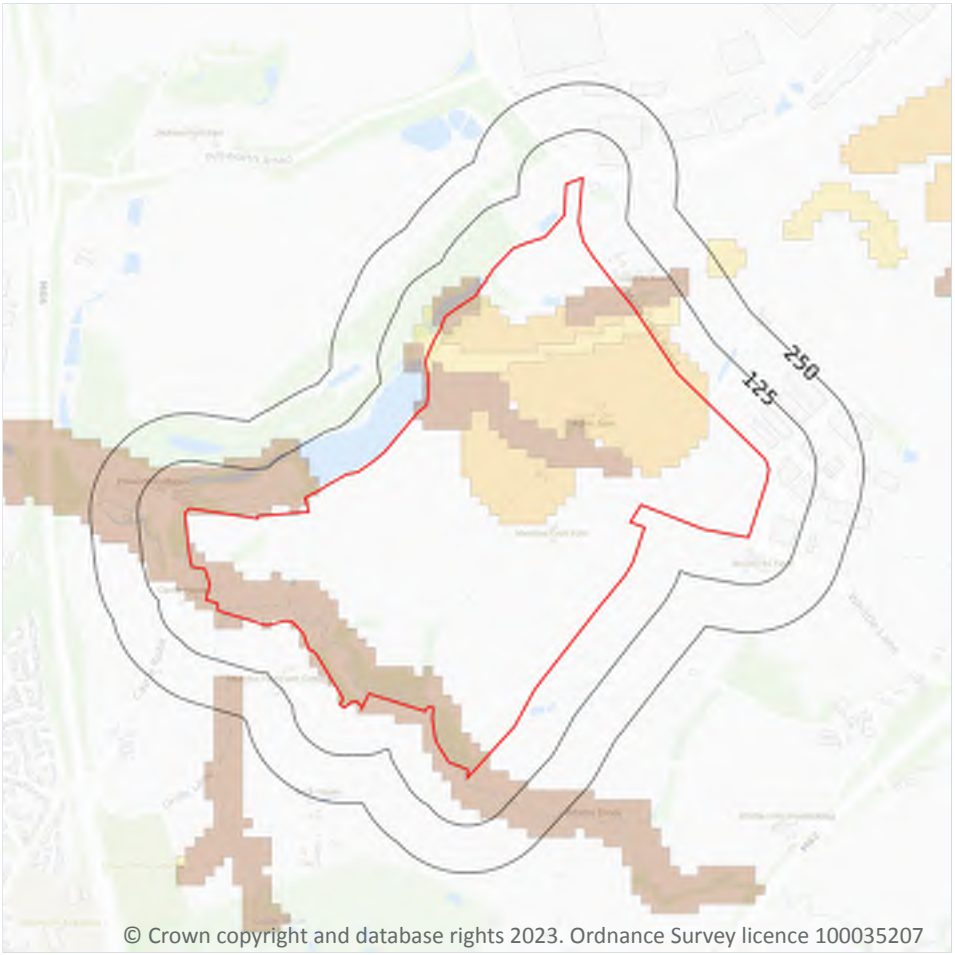
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

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

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

This data is sourced from the British Geological Survey.

20 Radon



Site Outline

Search buffers in metres (m)

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

20.1 Radon

Records on site	4

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

Features are displayed on the Radon map on page 144 >

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 10% and 30%	Full

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 3% and 5%	Basic
On site	Between 1% and 3%	None
On site	Less than 1%	None

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

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m	38

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
18m SE	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
29m N	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
31m W	15 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.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



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

22.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	2

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 149 >

Location	Land Use	Year of mapping	Mapping scale
83m N	Railway Sidings	1966	2500
84m N	Railway Sidings	1966	1250

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

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

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Northern Gateway

Order Details

Date: 11/12/2023

Your ref: Northern Gateway

Our Ref: GSIP-2023-14200-16018_RR_E

Site Details

Location: 382785 407739

Area: 79.09 ha

Authority: Bury Metropolitan Borough Council



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Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

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

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	19	8	17	43	-
17 >	1.2 >	Historical tanks >	4	4	17	5	-
18 >	1.3 >	Historical energy features >	0	1	0	8	-
19 >	1.4 >	Historical petrol stations >	0	0	0	1	-
19	1.5	Historical garages	0	0	0	0	-
20	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
21 >	2.1 >	Historical industrial land uses >	21	15	23	61	-
26 >	2.2 >	Historical tanks >	6	5	22	8	-
28 >	2.3 >	Historical energy features >	0	1	0	23	-
29 >	2.4 >	Historical petrol stations >	0	0	0	1	-
29	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
30 >	3.1 >	Active or recent landfill >	0	0	1	0	-
31	3.2	Historical landfill (BGS records)	0	0	0	0	-
31	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
31	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
31 >	3.5 >	Historical waste sites >	0	1	1	0	-
32	3.6	Licensed waste sites	0	0	0	0	-
32 >	3.7 >	Waste exemptions >	0	12	11	6	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
35 >	4.1 >	Recent industrial land uses >	2	2	7	-	-
36 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
36	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-

37 >	4.6 >	Control of Major Accident Hazards (COMAH) >	0	0	0	1	-
37	4.7	Regulated explosive sites	0	0	0	0	-
38 >	4.8 >	Hazardous substance storage/usage >	0	0	0	1	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
38 >	4.10 >	Licensed industrial activities (Part A(1)) >	0	0	0	5	-
39	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
40 >	4.13 >	Licensed Discharges to controlled waters >	6	0	0	1	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
41	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
41	4.17	List 2 Dangerous Substances	0	0	0	0	-
42 >	4.18 >	Pollution Incidents (EA/NRW) >	1	4	1	11	-
44	4.19	Pollution inventory substances	0	0	0	0	-
44	4.20	Pollution inventory waste transfers	0	0	0	0	-
44	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
45 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
47 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
48 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
49	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
50	5.5	Groundwater vulnerability- local information	None (within 0m)				
51 >	5.6 >	Groundwater abstractions >	0	0	2	7	18
58 >	5.7 >	Surface water abstractions >	0	0	6	0	3
61 >	5.8 >	Potable abstractions >	0	0	0	0	2
62	5.9	Source Protection Zones	0	0	0	0	-
62	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
63 >	6.1 >	Water Network (OS MasterMap) >	13	14	17	-	-

67 >	6.2 >	Surface water features >	1	8	21	-	-
67 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
68 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
68 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
69 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
70	7.2	Historical Flood Events	0	0	0	-	-
70	7.3	Flood Defences	0	0	0	-	-
70	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
70	7.5	Flood Storage Areas	0	0	0	-	-
71 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
72 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
73 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
75 >	9.1 >	Groundwater flooding >	Low (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
76	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
77	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
77	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
77	10.4	Special Protection Areas (SPA)	0	0	0	0	0
77	10.5	National Nature Reserves (NNR)	0	0	0	0	0
78 >	10.6 >	Local Nature Reserves (LNR) >	0	0	1	0	0
78	10.7	Designated Ancient Woodland	0	0	0	0	0
78	10.8	Biosphere Reserves	0	0	0	0	0
78	10.9	Forest Parks	0	0	0	0	0
79	10.10	Marine Conservation Zones	0	0	0	0	0
79 >	10.11 >	Green Belt >	1	0	1	0	2
79	10.12	Proposed Ramsar sites	0	0	0	0	0

79	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
80	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
80	10.15	Nitrate Sensitive Areas	0	0	0	0	0
80 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	0	4
81 >	10.17 >	SSSI Impact Risk Zones >	3	-	-	-	-
82	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
83	11.1	World Heritage Sites	0	0	0	-	-
84	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
84	11.3	National Parks	0	0	0	-	-
84 >	11.4 >	Listed Buildings >	1	0	0	-	-
85	11.5	Conservation Areas	0	0	0	-	-
85	11.6	Scheduled Ancient Monuments	0	0	0	-	-
85	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
86 >	12.1 >	Agricultural Land Classification >	Urban (within 250m)				
87	12.2	Open Access Land	0	0	0	-	-
87 >	12.3 >	Tree Felling Licences >	5	9	7	-	-
88	12.4	Environmental Stewardship Schemes	0	0	0	-	-
88 >	12.5 >	Countryside Stewardship Schemes >	0	0	1	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
89 >	13.1 >	Priority Habitat Inventory >	10	7	23	-	-
91 >	13.2 >	Habitat Networks >	1	0	4	-	-
92 >	13.3 >	Open Mosaic Habitat >	0	0	1	-	-
92	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
93 >	14.1 >	10k Availability >	Identified (within 500m)				
94 >	14.2 >	Artificial and made ground (10k) >	9	3	15	18	-
97 >	14.3 >	Superficial geology (10k) >	11	1	4	3	-

98 >	14.4 >	Landslip (10k) >	0	0	1	0	-
100 >	14.5 >	Bedrock geology (10k) >	3	1	1	2	-
101 >	14.6 >	Bedrock faults and other linear features (10k) >	2	2	1	10	-
Page	Section	**Geology 1:50,000 scale >**	On site	0-50m	50-250m	250-500m	500-2000m
103 >	15.1 >	50k Availability >	Identified (within 500m)				
104 >	15.2 >	Artificial and made ground (50k) >	0	0	1	1	-
105	15.3	Artificial ground permeability (50k)	0	0	-	-	-
106 >	15.4 >	Superficial geology (50k) >	4	0	3	1	-
107 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
107 >	15.6 >	Landslip (50k) >	0	0	1	0	-
108	15.7	Landslip permeability (50k)	None (within 50m)				
109 >	15.8 >	Bedrock geology (50k) >	3	1	1	2	-
110 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
110 >	15.10 >	Bedrock faults and other linear features (50k) >	0	1	1	4	-
Page	Section	**Boreholes >**	On site	0-50m	50-250m	250-500m	500-2000m
112 >	16.1 >	BGS Boreholes >	1	8	51	-	-
Page	Section	**Natural ground subsidence >**					
116 >	17.1 >	Shrink swell clays >	Low (within 50m)				
117 >	17.2 >	Running sands >	Very low (within 50m)				
118 >	17.3 >	Compressible deposits >	Negligible (within 50m)				
119 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
120 >	17.5 >	Landslides >	Moderate (within 50m)				
122 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	**Mining and ground workings >**	On site	0-50m	50-250m	250-500m	500-2000m
124 >	18.1 >	BritPits >	0	0	1	4	-
125 >	18.2 >	Surface ground workings >	23	13	44	-	-
129	18.3	Underground workings	0	0	0	0	0
129	18.4	Underground mining extents	0	0	0	0	-
129 >	18.5 >	Historical Mineral Planning Areas >	0	0	0	1	-

129 >	18.6 >	Non-coal mining >	0	0	0	0	1
130	18.7	JPB mining areas	None (within 0m)				
130	18.8	The Coal Authority non-coal mining	0	0	0	0	-
130	18.9	Researched mining	0	0	0	0	-
131	18.10	Mining record office plans	0	0	0	0	-
131	18.11	BGS mine plans	0	0	0	0	-
131 >	18.12 >	Coal mining >	Identified (within 0m)				
131	18.13	Brine areas	None (within 0m)				
132	18.14	Gypsum areas	None (within 0m)				
132	18.15	Tin mining	None (within 0m)				
132	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
133	19.1	Natural cavities	0	0	0	0	-
133	19.2	Mining cavities	0	0	0	0	0
133	19.3	Reported recent incidents	0	0	0	0	-
133	19.4	Historical incidents	0	0	0	0	-
134	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
135 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
137 >	21.1 >	BGS Estimated Background Soil Chemistry >	16	3	-	-	-
138	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
138	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
139	22.1	Underground railways (London)	0	0	0	-	-
139	22.2	Underground railways (Non-London)	0	0	0	-	-
140	22.3	Railway tunnels	0	0	0	-	-
140 >	22.4 >	Historical railway and tunnel features >	0	0	2	-	-
140	22.5	Royal Mail tunnels	0	0	0	-	-

140	22.6	Historical railways	0	0	0	-	-
141	22.7	Railways	0	0	0	-	-
141	22.8	Crossrail 1	0	0	0	0	-
141	22.9	Crossrail 2	0	0	0	0	-
141	22.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 79.09ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 79.09ha

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 79.09ha

Recent site history - 2000 aerial photograph

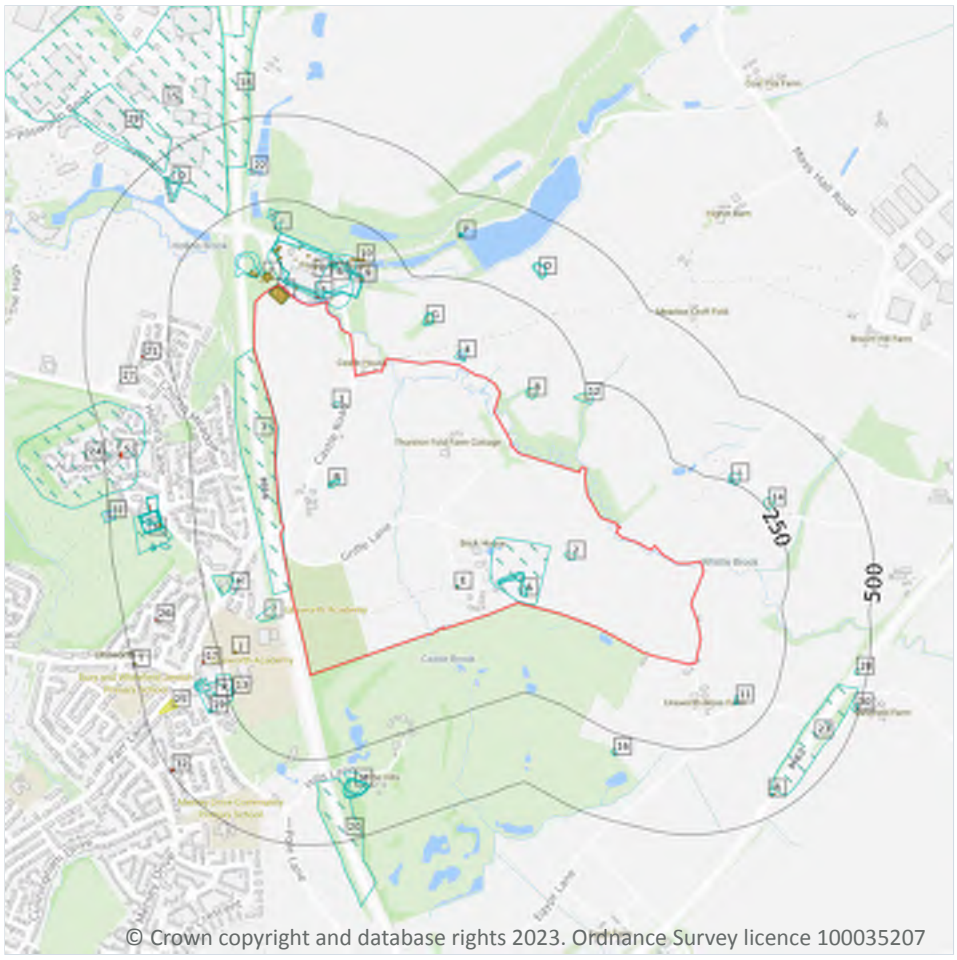


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Capture Date: 27/06/2000

Site Area: 79.09ha

1 Past land use



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical petrol stations

1.1 Historical industrial land uses

Records within 500m	87

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 13 >**

ID	Location	Land use	Dates present	Group ID
1	**On site**	**Unspecified Pit**	**1891**	**691087**

ID	Location	Land use	Dates present	Group ID
2	**On site**	**Unspecified Pit**	**1915**	**691088**
3	**On site**	**Cuttings**	**1981**	**642590**
A	**On site**	**Unspecified Pit**	**1907**	**691092**
A	**On site**	**Old Brick Field**	**1891**	**684716**
A	**On site**	**Unspecified Ground Workings**	**1891**	**733797**
A	**On site**	**Unspecified Ground Workings**	**1907**	**738009**
A	**On site**	**Unspecified Ground Workings**	**1923 - 1932**	**741001**
B	**On site**	**Unspecified Ground Workings**	**1974**	**648189**
B	**On site**	**Unspecified Pits**	**1965**	**659190**
C	**On site**	**Settling Tanks**	**1974**	**681808**
C	**On site**	**Unspecified Tanks**	**1955**	**711610**
C	**On site**	**Unspecified Tanks**	**1908**	**751552**
C	**On site**	**Unspecified Tanks**	**1928**	**789967**
D	**On site**	**Bleach Works**	**1891**	**735729**
E	**On site**	**Unspecified Tank**	**1932 - 1938**	**740090**
E	**On site**	**Unspecified Tank**	**1955**	**777068**
E	**On site**	**Unspecified Tank**	**1915**	**779986**
E	**On site**	**Unspecified Tank**	**1923**	**787789**
D	12m NW	Bleach Works	1908 - 1938	716760
D	14m NW	Bleach Works	1955	719239
4	15m N	Unspecified Pit	1965 - 1981	722536
D	22m NW	Unspecified Works	1965	679026
6	24m NW	Fustian Mill	1851	672593
F	27m NW	Unspecified Tanks	1908 - 1938	753803
F	30m NW	Unspecified Tanks	1955	726283
F	49m NW	Unspecified Ground Workings	1965 - 1974	740129
F	54m NW	Unspecified Pit	1928 - 1938	697367
7	56m SW	Unspecified Heap	1981	650932

ID	Location	Land use	Dates present	Group ID
F	56m NW	Filter Beds	1908	665791
8	77m NE	Unspecified Pit	1965	691089
D	90m NW	Unspecified Tank	1891 - 1908	751118
G	108m N	Unspecified Pit	1928 - 1938	734591
G	113m N	Unspecified Pit	1955	721106
H	147m W	Smithy	1891	693053
11	152m SE	Unspecified Ground Workings	1932 - 1938	715723
I	157m NW	Sand Pit	1851	643775
H	159m W	Grave Yard	1851	668132
12	187m NE	Unspecified Pit	1974 - 1981	767350
I	192m NW	Cuttings	1928 - 1938	742850
13	226m SW	Unspecified Tank	1891	674821
K	232m SW	Smithy	1915	730689
L	245m E	Unspecified Pit	1974	691090
L	246m E	Unspecified Tank	1907	674849
14	251m E	Unspecified Tank	1965	674848
15	252m NW	Industrial Estate	1981	652314
K	284m SW	Smithy	1923	758900
K	296m SW	Unspecified Works	1965 - 1974	717900
16	296m SE	Sand Pit	1851	643945
M	302m S	Unspecified Pits	1965	659194
18	304m NW	Cuttings	1981	767563
19	310m SW	Smithy	1851	709969
20	314m S	Cuttings	1981	642589
N	317m W	Cotton Mill	1851	644064
K	319m SW	Smithy	1891	708943
N	324m W	Unspecified Ground Workings	1907	648188
M	326m S	Gravel Pit	1915 - 1923	723570

ID	Location	Land use	Dates present	Group ID
M	327m S	Unspecified Heap	1932	650987
M	327m S	Refuse Heap	1938 - 1955	715339
M	330m S	Unspecified Pit	1891 - 1907	712337
O	333m NE	Unspecified Pit	1928 - 1938	749256
22	335m NW	Sand Pit	1851	643773
O	339m NE	Unspecified Pit	1955	745045
N	343m W	Dye Works	1965 - 1974	746999
N	347m W	Spindle Works	1955	789680
N	347m W	Unspecified Commercial/Industrial	1907	643332
N	347m W	Spindle Works	1915 - 1923	761769
N	347m W	Spindle Works	1932 - 1938	745057
N	348m W	Unspecified Works	1981	679084
N	355m W	Finishing Works	1891	641784
N	366m W	Sewage Filterbed	1915 - 1938	732926
23	371m SE	Cuttings	1974 - 1981	698402
24	371m W	Sewage Works	1955	659747
P	372m N	Boat House	1908 - 1938	791169
N	373m W	Filter Bed	1955	643466
P	376m N	Boat House	1965 - 1981	698691
P	377m N	Boat House	1955	702697
Q	381m NW	Unspecified Pit	1965	691000
Q	381m NW	Refuse Heap	1928	677975
27	404m W	Pump	1851	675599
R	441m SE	Unspecified Tank	1915	742534
R	445m SE	Unspecified Tank	1932 - 1955	764469
R	450m SE	Unspecified Tank	1923	695877
28	462m E	Sand Pit	1851	643941
29	462m NW	Unspecified Works	1981	679044

ID	Location	Land use	Dates present	Group ID
30	479m SE	Sand Pit	1851	643943
31	480m W	Filter Beds	1907	665793

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**30**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
C	**On site**	**Tanks**	**1910**	**87869**
C	**On site**	**Settling Tanks**	**1930 - 1956**	**96450**
E	**On site**	**Unspecified Tank**	**1956**	**84657**
E	**On site**	**Unspecified Tank**	**1922 - 1932**	**93095**
C	22m NW	Unspecified Tank	1956	84656
F	23m NW	Tanks	1910	87870
F	23m NW	Settling Tanks	1930 - 1956	102471
F	33m NW	Unspecified Tank	1956	84655
F	52m NW	Settling Tank	1956	78447
D	73m NW	Unspecified Tank	1910 - 1930	93805
D	76m NW	Tanks	1956	87158
D	86m NW	Unspecified Tank	1890	84688
D	89m NW	Unspecified Tank	1890 - 1910	102146
D	96m NW	Unspecified Tank	1890 - 1910	94252
D	99m NW	Unspecified Tank	1910	84664
D	102m NW	Unspecified Tank	1910 - 1930	101060

ID	Location	Land use	Dates present	Group ID
D	105m NW	Unspecified Tank	1910 - 1930	100149
D	110m NW	Unspecified Tank	1956	84686
D	116m NW	Unspecified Tank	1939	84685
9	119m N	Unspecified Tank	1890	84654
D	120m NW	Unspecified Tank	1930	84687
D	120m NW	Unspecified Tank	1956	84689
10	138m N	Tanks	1956	87714
J	197m SW	Unspecified Tank	1981	84659
J	200m SW	Unspecified Tank	1973	84658
N	350m W	Unspecified Tank	1893 - 1995	92665
R	446m SE	Unspecified Tank	1956	84645
R	450m SE	Unspecified Tank	1922 - 1932	103792
T	493m SW	Unspecified Tank	1956	93307
T	494m SW	Unspecified Tank	1956	93308

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**9**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
5	16m NW	Electricity Substation	1956	45645
17	298m SW	Electricity Substation	1973 - 1985	51199
21	325m NW	Electricity Substation	1985 - 1996	52214
N	376m W	Electricity Substation	1956 - 1995	50319

ID	Location	Land use	Dates present	Group ID
N	379m W	Electricity Substation	1956 - 1969	58337
26	402m W	Electricity Substation	1968 - 1969	52150
S	449m W	Electricity Substation	1968 - 1995	51445
S	450m W	Electricity Substation	1969	58036
32	487m SW	Electricity Substation	1968 - 1996	49729

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**1**

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

Features are displayed on the Past land use map on **page 13 >**

ID	Location	Land use	Dates present	Group ID
25	402m SW	Filling Station	1968	1332

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

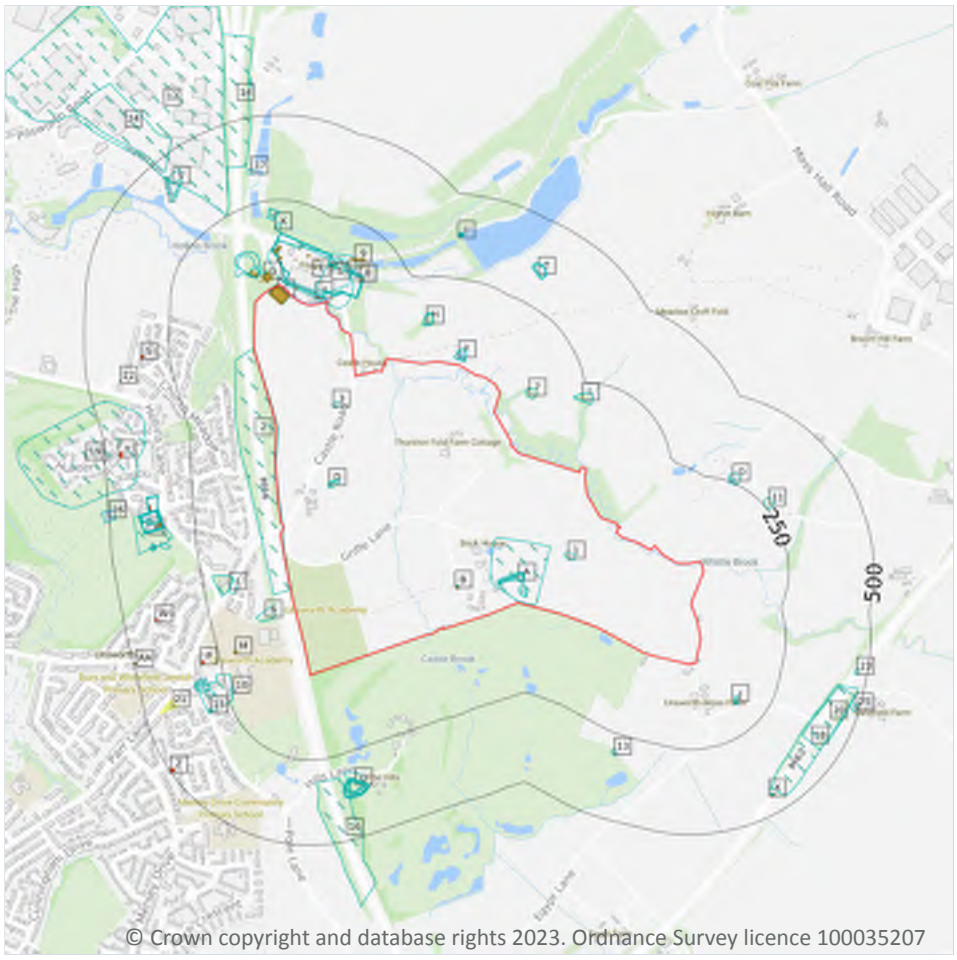
1.6 Historical military land

Records within 500m	0

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

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

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical petrol stations

2.1 Historical industrial land uses

Records within 500m	120

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 21 >**

ID	Location	Land Use	Date	Group ID
1	**On site**	**Unspecified Pit**	**1915**	**691088**
2	**On site**	**Cuttings**	**1981**	**642590**
3	**On site**	**Unspecified Pit**	**1891**	**691087**

ID	Location	Land Use	Date	Group ID
A	**On site**	**Unspecified Ground Workings**	**1907**	**738009**
A	**On site**	**Unspecified Pit**	**1907**	**691092**
A	**On site**	**Unspecified Ground Workings**	**1932**	**741001**
A	**On site**	**Old Brick Field**	**1891**	**684716**
A	**On site**	**Unspecified Ground Workings**	**1891**	**733797**
A	**On site**	**Unspecified Ground Workings**	**1923**	**741001**
B	**On site**	**Unspecified Tank**	**1915**	**779986**
B	**On site**	**Unspecified Tank**	**1932**	**740090**
B	**On site**	**Unspecified Tank**	**1955**	**777068**
B	**On site**	**Unspecified Tank**	**1938**	**740090**
B	**On site**	**Unspecified Tank**	**1923**	**787789**
C	**On site**	**Settling Tanks**	**1974**	**681808**
C	**On site**	**Unspecified Tanks**	**1955**	**711610**
C	**On site**	**Unspecified Tanks**	**1928**	**789967**
C	**On site**	**Unspecified Tanks**	**1908**	**751552**
D	**On site**	**Unspecified Ground Workings**	**1974**	**648189**
D	**On site**	**Unspecified Pits**	**1965**	**659190**
E	**On site**	**Bleach Works**	**1891**	**735729**
E	12m NW	Bleach Works	1938	716760
E	12m NW	Bleach Works	1928	716760
E	12m NW	Bleach Works	1908	716760
E	14m NW	Bleach Works	1955	719239
F	15m N	Unspecified Pit	1981	722536
F	15m N	Unspecified Pit	1974	722536
F	15m N	Unspecified Pit	1965	722536
E	22m NW	Unspecified Works	1965	679026
5	24m NW	Fustian Mill	1851	672593
G	27m NW	Unspecified Tanks	1938	753803

ID	Location	Land Use	Date	Group ID
G	27m NW	Unspecified Tanks	1928	753803
G	27m NW	Unspecified Tanks	1908	753803
G	30m NW	Unspecified Tanks	1955	726283
G	49m NW	Unspecified Ground Workings	1974	740129
G	49m NW	Unspecified Ground Workings	1965	740129
G	54m NW	Unspecified Pit	1938	697367
G	54m NW	Unspecified Pit	1928	697367
6	56m SW	Unspecified Heap	1981	650932
G	56m NW	Filter Beds	1908	665791
7	77m NE	Unspecified Pit	1965	691089
E	90m NW	Unspecified Tank	1891	751118
E	97m NW	Unspecified Tank	1908	751118
H	108m N	Unspecified Pit	1938	734591
H	108m N	Unspecified Pit	1928	734591
H	113m N	Unspecified Pit	1955	721106
I	147m W	Smithy	1891	693053
J	152m SE	Unspecified Ground Workings	1938	715723
J	153m SE	Unspecified Ground Workings	1932	715723
K	157m NW	Sand Pit	1851	643775
I	159m W	Grave Yard	1851	668132
L	187m NE	Unspecified Pit	1981	767350
L	187m NE	Unspecified Pit	1974	767350
K	192m NW	Cuttings	1938	742850
K	192m NW	Cuttings	1928	742850
10	226m SW	Unspecified Tank	1891	674821
N	232m SW	Smithy	1915	730689
O	245m E	Unspecified Pit	1974	691090
O	246m E	Unspecified Tank	1907	674849

ID	Location	Land Use	Date	Group ID
11	251m E	Unspecified Tank	1965	674848
12	252m NW	Industrial Estate	1981	652314
N	284m SW	Smithy	1923	758900
N	296m SW	Unspecified Works	1974	717900
13	296m SE	Sand Pit	1851	643945
N	298m SW	Unspecified Works	1965	717900
Q	302m S	Unspecified Pits	1965	659194
14	304m NW	Cuttings	1981	767563
15	310m SW	Smithy	1851	709969
16	314m S	Cuttings	1981	642589
R	317m W	Cotton Mill	1851	644064
N	319m SW	Smithy	1891	708943
R	324m W	Unspecified Ground Workings	1907	648188
Q	326m S	Gravel Pit	1915	723570
Q	327m S	Unspecified Heap	1932	650987
Q	327m S	Refuse Heap	1938	715339
Q	330m S	Unspecified Pit	1907	712337
Q	331m S	Refuse Heap	1955	715339
Q	332m S	Gravel Pit	1923	723570
Q	333m S	Unspecified Pit	1891	712337
T	333m NE	Unspecified Pit	1938	749256
T	333m NE	Unspecified Pit	1928	749256
17	335m NW	Sand Pit	1851	643773
T	339m NE	Unspecified Pit	1955	745045
R	343m W	Dye Works	1974	746999
R	343m W	Dye Works	1965	746999
R	347m W	Spindle Works	1955	789680
R	347m W	Spindle Works	1915	761769

ID	Location	Land Use	Date	Group ID
R	347m W	Unspecified Commercial/Industrial	1907	643332
R	347m W	Spindle Works	1923	761769
R	347m W	Spindle Works	1932	745057
R	348m W	Spindle Works	1938	745057
R	348m W	Unspecified Works	1981	679084
R	355m W	Finishing Works	1891	641784
R	366m W	Sewage Filterbed	1932	732926
R	366m W	Sewage Filterbed	1938	732926
R	367m W	Sewage Filterbed	1915	732926
R	367m W	Sewage Filterbed	1923	732926
18	371m SE	Cuttings	1974	698402
19	371m W	Sewage Works	1955	659747
U	372m N	Boat House	1938	791169
U	372m N	Boat House	1928	791169
U	372m N	Boat House	1908	791169
R	373m W	Filter Bed	1955	643466
U	376m N	Boat House	1981	698691
U	376m N	Boat House	1974	698691
U	376m N	Boat House	1965	698691
U	377m N	Boat House	1955	702697
20	378m SE	Cuttings	1981	698402
V	381m NW	Unspecified Pit	1965	691000
V	381m NW	Refuse Heap	1928	677975
22	404m W	Pump	1851	675599
X	441m SE	Unspecified Tank	1915	742534
X	445m SE	Unspecified Tank	1932	764469
X	445m SE	Unspecified Tank	1938	764469
X	446m SE	Unspecified Tank	1955	764469

ID	Location	Land Use	Date	Group ID
X	450m SE	Unspecified Tank	1923	695877
23	462m E	Sand Pit	1851	643941
24	462m NW	Unspecified Works	1981	679044
25	479m SE	Sand Pit	1851	643943
26	480m W	Filter Beds	1907	665793

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**41**

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 21 >**

ID	Location	Land Use	Date	Group ID
B	**On site**	**Unspecified Tank**	**1922**	**93095**
B	**On site**	**Unspecified Tank**	**1932**	**93095**
B	**On site**	**Unspecified Tank**	**1956**	**84657**
C	**On site**	**Tanks**	**1910**	**87869**
C	**On site**	**Settling Tanks**	**1930**	**96450**
C	**On site**	**Settling Tanks**	**1956**	**96450**
C	22m NW	Unspecified Tank	1956	84656
G	23m NW	Tanks	1910	87870
G	23m NW	Settling Tanks	1930	102471
G	24m NW	Settling Tanks	1956	102471
G	33m NW	Unspecified Tank	1956	84655
G	52m NW	Settling Tank	1956	78447
E	73m NW	Unspecified Tank	1910	93805
E	73m NW	Unspecified Tank	1930	93805
E	76m NW	Tanks	1956	87158

ID	Location	Land Use	Date	Group ID
E	86m NW	Unspecified Tank	1890	84688
E	89m NW	Unspecified Tank	1890	102146
E	89m NW	Unspecified Tank	1910	102146
E	96m NW	Unspecified Tank	1890	94252
E	96m NW	Unspecified Tank	1910	94252
E	99m NW	Unspecified Tank	1910	84664
E	102m NW	Unspecified Tank	1910	101060
E	102m NW	Unspecified Tank	1930	101060
E	105m NW	Unspecified Tank	1910	100149
E	105m NW	Unspecified Tank	1930	100149
E	110m NW	Unspecified Tank	1956	84686
E	116m NW	Unspecified Tank	1939	84685
8	119m N	Unspecified Tank	1890	84654
E	120m NW	Unspecified Tank	1930	84687
E	120m NW	Unspecified Tank	1956	84689
9	138m N	Tanks	1956	87714
M	197m SW	Unspecified Tank	1981	84659
M	200m SW	Unspecified Tank	1973	84658
R	350m W	Unspecified Tank	1994	92665
R	350m W	Unspecified Tank	1995	92665
R	352m W	Unspecified Tank	1893	92665
X	446m SE	Unspecified Tank	1956	84645
X	450m SE	Unspecified Tank	1922	103792
X	450m SE	Unspecified Tank	1932	103792
AA	493m SW	Unspecified Tank	1956	93307
AA	494m SW	Unspecified Tank	1956	93308

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**24**

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 21 >**

ID	Location	Land Use	Date	Group ID
4	16m NW	Electricity Substation	1956	45645
P	298m SW	Electricity Substation	1981	51199
P	298m SW	Electricity Substation	1973	51199
P	298m SW	Electricity Substation	1985	51199
S	325m NW	Electricity Substation	1985	52214
S	326m NW	Electricity Substation	1996	52214
S	326m NW	Electricity Substation	1996	52214
S	326m NW	Electricity Substation	1996	52214
R	376m W	Electricity Substation	1956	50319
R	376m W	Electricity Substation	1968	50319
R	377m W	Electricity Substation	1994	50319
R	377m W	Electricity Substation	1995	50319
R	379m W	Electricity Substation	1956	58337
R	379m W	Electricity Substation	1969	58337
W	402m W	Electricity Substation	1968	52150
W	402m W	Electricity Substation	1969	52150
Y	449m W	Electricity Substation	1968	51445
Y	450m W	Electricity Substation	1969	58036
Y	450m W	Electricity Substation	1994	51445
Y	450m W	Electricity Substation	1995	51445
Z	487m SW	Electricity Substation	1968	49729
Z	487m SW	Electricity Substation	1969	49729
Z	488m SW	Electricity Substation	1996	49729

ID	Location	Land Use	Date	Group ID
Z	488m SW	Electricity Substation	1990	49729

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**1**

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'.

Features are displayed on the Past land use - un-grouped map on **page 21 >**

ID	Location	Land Use	Date	Group ID
21	402m SW	Filling Station	1968	1332

This data is sourced from Ordnance Survey / Groundsure.

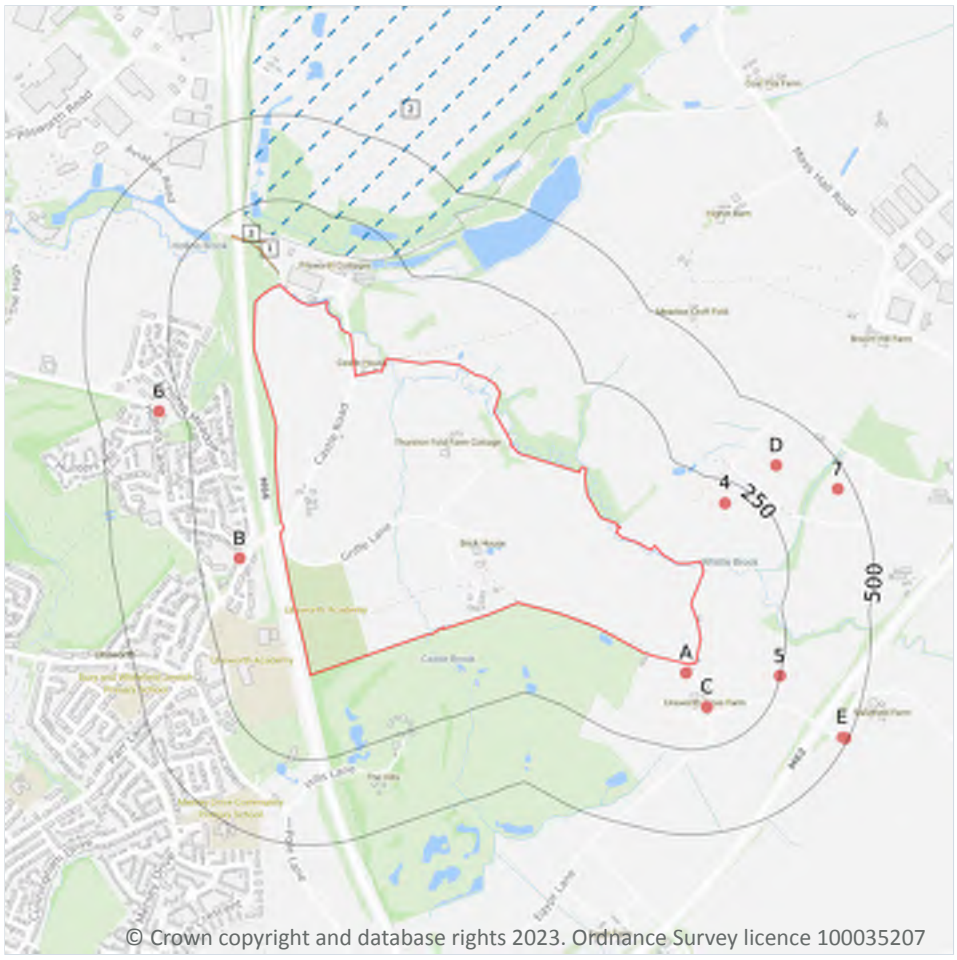
2.5 Historical garages

Records within 500m	**0**

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'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Active or recent landfill

Historical waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	1

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

Features are displayed on the Waste and landfill map on **page 30 >**

ID	Location	Details	
2	131m NW	Operator: Viridor Waste Management Limited Site Address: Pilsworth South Landfill, Pilsworth Road, Lancashire, BL9 8QZ	WML Number: 0 EPR Reference: - Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: -

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	0

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.

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

3.5 Historical waste sites

Records within 500m	2

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 30 >**

ID	Location	Address	Further Details	Date
1	32m NW	Site Address: N/A	Type of Site: Refuse Pit Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1930

ID	Location	Address	Further Details	Date
3	132m NW	Site Address: N/A	Type of Site: Refuse Pit Planning application reference: N/A Description: N/A Data source: Historic Mapping Data Type: Polygon	1930

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

3.6 Licensed waste sites

Records within 500m	**0**

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

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

3.7 Waste exemptions

Records within 500m	**29**

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 30 >**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Disposing of waste exemption	On a Farm	Burning waste in the open
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Using waste exemption	On a Farm	Use of waste in construction
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Disposing of waste exemption	On a Farm	Burning waste in the open
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Using waste exemption	On a Farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Disposing of waste exemption	On a farm	Burning waste in the open
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Using waste exemption	On a farm	Use of waste in construction
A	27m SE	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	27m SE	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Using waste exemption	On a farm	Use of waste in construction
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Disposing of waste exemption	On a farm	Burning waste in the open
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Using waste exemption	On a farm	Use of waste in construction
A	27m SE	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Disposing of waste exemption	On a farm	Burning waste in the open
B	132m W	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Using waste exemption	On a Farm	Use of waste in construction
B	132m W	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Using waste exemption	On a Farm	Use of waste for a specified purpose
B	132m W	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
B	132m W	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Disposing of waste exemption	On a Farm	Burning waste in the open
B	132m W	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Storing waste exemption	On a Farm	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
B	132m W	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Storing waste exemption	On a Farm	Storage of waste in a secure place
C	133m SE	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX167290	Using waste exemption	On a farm	Use of waste in construction
C	133m SE	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX006923	Using waste exemption	On a farm	Use of waste in construction
C	133m SE	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX304511	Using waste exemption	On a farm	Use of waste in construction
4	186m E	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5750JS/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
5	249m SE	-	WEX173397	Storing waste exemption	On a farm	Storage of sludge
6	322m W	136, HOLLINS LANE, BURY, BL9 8AW	WEX334540	Using waste exemption	Not on a farm	Use of waste in construction
D	359m E	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5250JV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	359m E	Whittle Dairy Farm Heywood Lancashire OL10 2RD	EPR/CE5080ZD/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
7	455m E	Whittle Dairy Farm Heywood Lancashire ol10 2rd	EPR/ZE5880ZF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
E	482m SE	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/SE5548EZ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
E	493m SE	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/HE5244GN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Control of Major Accident Hazards

Hazardous substance storage/usage

Part A(1) industrial activities

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	11

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Company	Address	Activity	Category
1	**On site**	**Gas Distribution Station**	**Greater Manchester, BL9**	**Gas Features**	**Infrastructure and Facilities**
2	**On site**	**Mast (Telecommunication)**	**Greater Manchester, BL9**	**Telecommunications Features**	**Infrastructure and Facilities**

ID	Location	Company	Address	Activity	Category
5	22m SW	Gantry	Greater Manchester, BL9	Travelling Cranes and Gantries	Industrial Features
6	34m NW	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities
7	60m NW	Garic	Kingfisher Park, Castle Road, Bury, Greater Manchester, BL9 8GD	Construction and Tool Hire	Hire Services
8	90m SW	Chimney	Greater Manchester, BL9	Chimneys	Industrial Features
D	139m W	G K Home Tuning	26, Castle Road, Bury, Greater Manchester, BL9 8JL	Vehicle Repair, Testing and Servicing	Repair and Servicing
D	153m W	Helaballoo	5, Castle Road, Bury, Greater Manchester, BL9 8JL	Giftware	Consumer Products
D	168m SW	Gas Governor	Greater Manchester, BL9	Gas Features	Infrastructure and Facilities
9	195m SW	Chimney	Greater Manchester, BL9	Chimneys	Industrial Features
11	215m NW	A J F Express	6, Mere Close, Bury, Greater Manchester, BL9 8NY	Distribution and Haulage	Transport, Storage and Delivery

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Company	Address	LPG	Status
14	325m SW	OBSOLETE	Parr Lane, Unsworth, Bury, Greater Manchester, BL9 8JN	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	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 35 >**

ID	Location	Company	Address	Operational status	Tier
E	250m NW	Holchem Laboratories Limited	Holchem Laboratories Limited, Pilsworth/Bury, M66 Trading Estate, Pilsworth Road, Pilsworth, Bury, Lancashire, BL9 8RD	Current COMAH Site	COMAH Upper Tier Operator

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	1

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.

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Details	
E	481m NW	Application reference number: 55049 Application status: Approved Application date: 04/04/2012 Address: Holchem Laboratories Ltd, M66 Trading Estate, Pilsworth Road, Pilsworth, Bury, Lancashire, England, BL9 8RD	Details: Hazardous substances consent: Storage of LPG; Diesel; Detergents/Disinfectants Part B2; Oxidising Agents Part B3 (49 Tonnes); Flammable Part B6 (R10) agents (45 tonnes) and Flammable Part B8 (R11) agents 20 Tonne Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	5

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 35 >**

ID	Location	Details	
E	477m NW	Operator: HOLCHEM LABORATORIES LIMITED Installation Name: Pilsworth Surfactants Facility EPR/NP3434CE Process: ORGANIC CHEMICALS; SURFACE-ACTIVE AGENTS Permit Number: NP3434CE Original Permit Number: NP3434CE	EPR Reference: EPR/NP3434CE Issue Date: 05/03/2014 Effective Date: 05/03/2014 Last date noted as effective: 23/11/2023 Status: Effective

ID	Location	Details	
E	477m NW	Operator: HOLCHEM LABORATORIES LIMITED Installation Name: Pilsworth Surfactants Facility EPR/NP3434CE Process: ASSOCIATED PROCESS Permit Number: NP3434CE Original Permit Number: NP3434CE	EPR Reference: EPR/NP3434CE Issue Date: 05/03/2014 Effective Date: 05/03/2014 Last date noted as effective: 23/11/2023 Status: Effective
E	477m NW	Operator: Holchem Laboratories Ltd Installation Name: Pilsworth Surfactants Facility EPR/NP3434CE Process: ORGANIC CHEMICALS; ANY OTHER ORGANIC COMPOUNDS (NOT DESCRIBED 4.1 A(1)(A)) Permit Number: NP3434CE Original Permit Number: NP3434CE	EPR Reference: - Issue Date: 04/07/2012 Effective Date: 04/07/2012 Last date noted as effective: 21/03/2023 Status: Superceded
E	477m NW	Operator: Holchem Laboratories Ltd Installation Name: Pilsworth Surfactants Facility EPR/NP3434CE Process: ASSOCIATED PROCESS Permit Number: FP3331EB Original Permit Number: NP3434CE	EPR Reference: - Issue Date: 05/03/2014 Effective Date: 05/03/2014 Last date noted as effective: 21/03/2023 Status: Effective
E	477m NW	Operator: Holchem Laboratories Ltd Installation Name: Pilsworth Surfactants Facility EPR/NP3434CE Process: ORGANIC CHEMICALS; SURFACE-ACTIVE AGENTS Permit Number: FP3331EB Original Permit Number: NP3434CE	EPR Reference: - Issue Date: 05/03/2014 Effective Date: 05/03/2014 Last date noted as effective: 21/03/2023 Status: Effective

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

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

Records within 500m	0

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.

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	7

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

Features are displayed on the Current industrial land use map on **page 35 >**

ID	Location	Address	Details	
A	On site	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
A	On site	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
A	On site	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
A	On site	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
B	On site	THE BUNGALOW, PILSWORTH COTTAGES, PILSWORTH, BURY, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990429 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 14/07/1983 Revocation Date: -
B	On site	CASTLEBROOK FARM SEPTIC TANK, CASTLE ROAD, UNSWORTH, BURY, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993185 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 10/06/1997 Revocation Date: -

ID	Location	Address	Details	
F	286m NW	PILSWORTH SOUTH QUARRY, OFF PILSWORTH ROAD, PILSWORTH, BURY, LANCASHIRE	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016993371 Permit Version: 2 Receiving Water: TRIB OF HOLLINS BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: 25/05/2005 Effective Date: 25/05/2005 Revocation Date: 29/03/2011

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	**17**

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 35 >**

ID	Location	Details	
3	**On site**	**Incident Date: 29/03/2002** **Incident Identification: 67581** **Pollutant: Specific Waste Materials** **Pollutant Description: Other Specific Waste Material**	**Water Impact: Category 4 (No Impact)** **Land Impact: Category 3 (Minor)** **Air Impact: Category 3 (Minor)**
4	5m NW	Incident Date: 19/09/2007 Incident Identification: 532544 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)
C	28m NW	Incident Date: 10/09/2001 Incident Identification: 29953 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	28m NW	Incident Date: 10/09/2001 Incident Identification: 29953 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
C	28m NW	Incident Date: 10/09/2001 Incident Identification: 29953 Pollutant: Inert Materials and Wastes:General Biodegradable Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Vegetable Cuttings and Deposits	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
10	208m NW	Incident Date: 05/03/2003 Incident Identification: 141540 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
12	277m S	Incident Date: 22/10/2002 Incident Identification: 116201 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

ID	Location	Details	
13	284m N	Incident Date: 19/06/2001 Incident Identification: 10200 Pollutant: Contaminated Water Pollutant Description: Other Contaminated Water	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	286m NW	Incident Date: 23/05/2001 Incident Identification: 6446 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
F	286m NW	Incident Date: 23/05/2001 Incident Identification: 6446 Pollutant: Inert Materials and Wastes Pollutant Description: Rocks and Gravel	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	408m NW	Incident Date: 01/04/2003 Incident Identification: 147787 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
G	415m NW	Incident Date: 19/05/2003 Incident Identification: 159428 Pollutant: Oils and Fuel Pollutant Description: Gas and Fuel Oils	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	425m NW	Incident Date: 10/02/2003 Incident Identification: 136066 Pollutant: Specific Waste Materials Pollutant Description: Asbestos	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	425m NW	Incident Date: 10/02/2003 Incident Identification: 136066 Pollutant: Specific Waste Materials:Specific Waste Materials Pollutant Description: Asbestos:Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
G	425m NW	Incident Date: 10/02/2003 Incident Identification: 136066 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
H	446m SE	Incident Date: 19/11/2002 Incident Identification: 121765 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
H	446m SE	Incident Date: 19/11/2002 Incident Identification: 121765 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

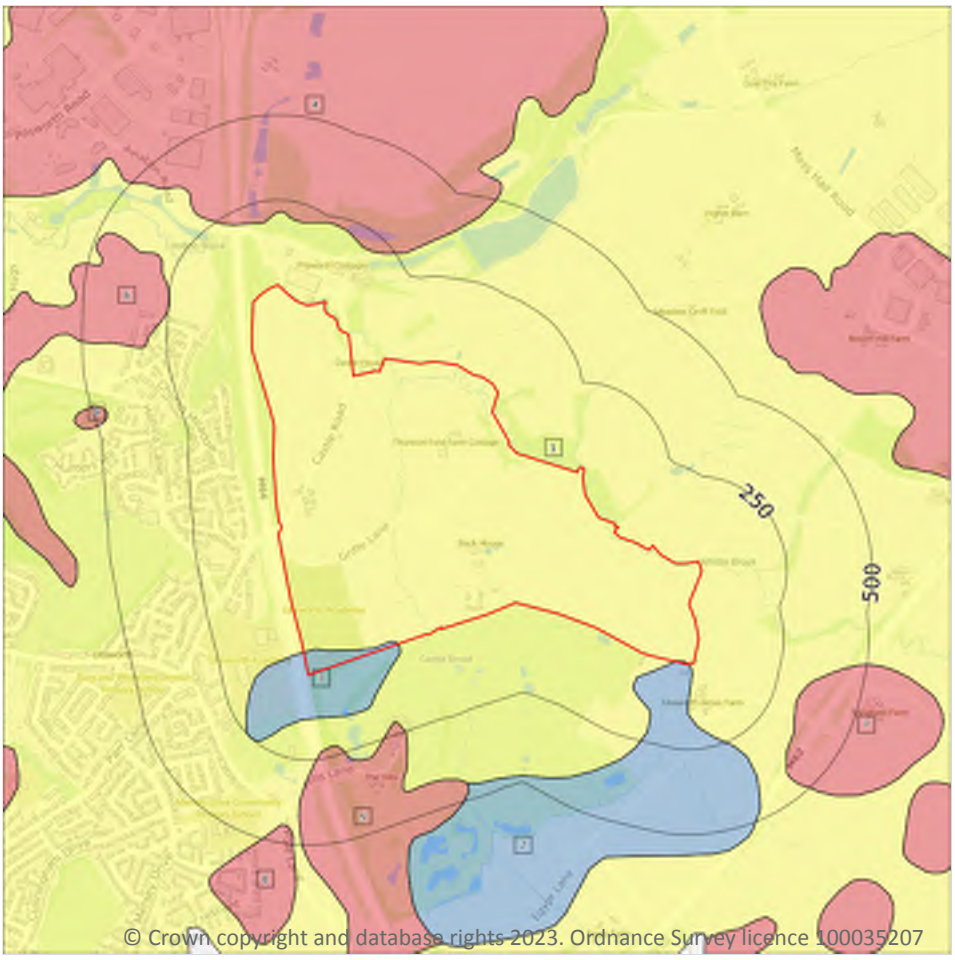
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	9

Aquifer status of groundwater held within superficial geology.

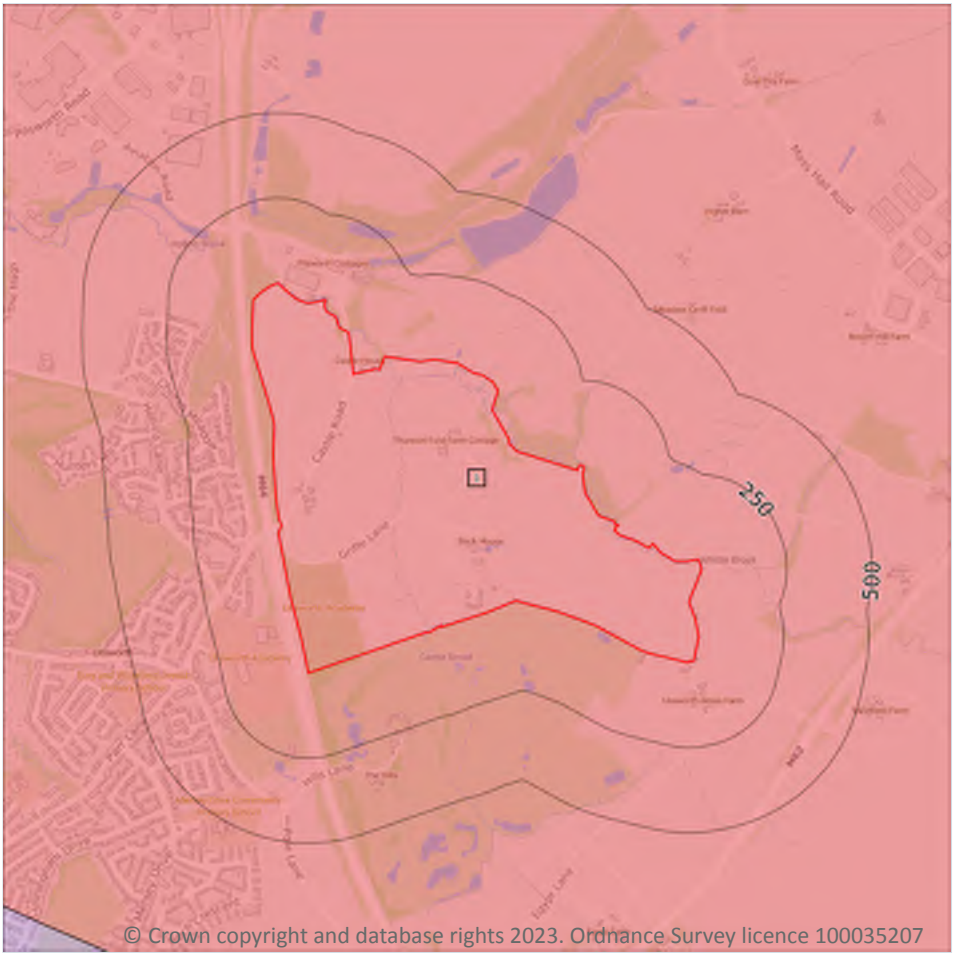
Features are displayed on the Hydrogeology map on **page 45 >**

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

ID	Location	Designation	Description
3	**On site**	**Unproductive**	**These are rock layers or drift deposits with low permeability that have negligible significance for water supply or river base flow**
4	188m NW	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
5	213m S	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
6	247m NW	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
7	322m SE	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
8	447m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
9	461m 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	1

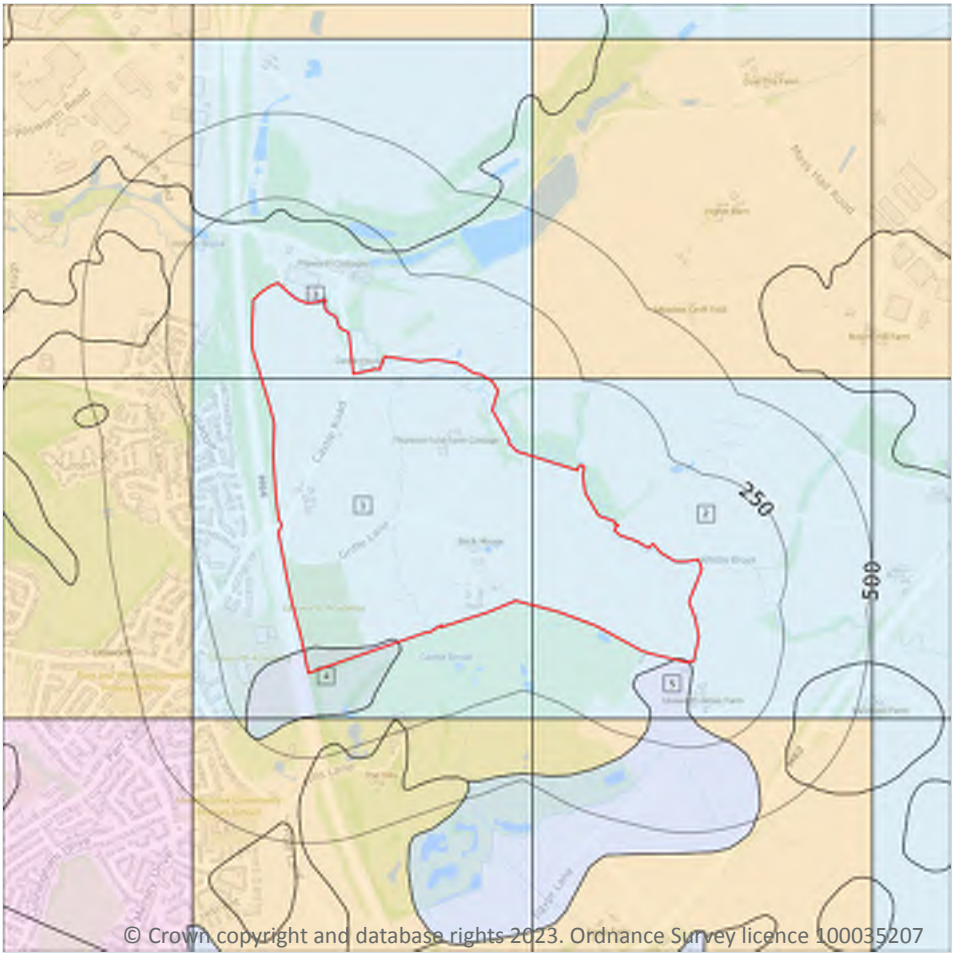
Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 47 >**

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

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

Groundwater vulnerability



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Site Outline

Search buffers in metres (m)

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

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

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	5

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 48 >**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: High	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

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

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

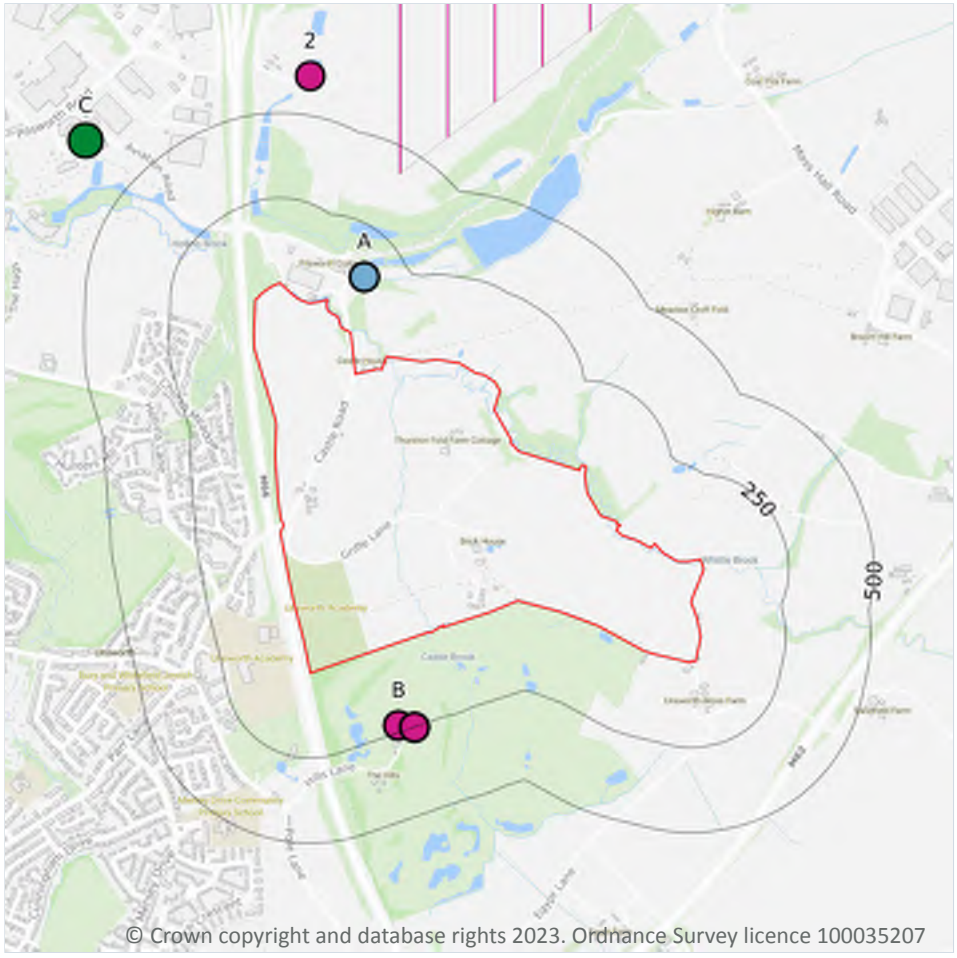
5.5 Groundwater vulnerability- local information

Records on site	0

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

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



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Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	27

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 51 >**

ID	Location	Details	
B	230m S	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	230m S	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	251m S	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
B	251m S	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
B	251m S	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	251m S	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
B	251m S	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
B	251m S	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
1	422m N	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
2	614m N	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
C	683m NW	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
C	683m NW	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

ID	Location	Details	
-	1271m W	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY" Data Type: Point Name: BURY GOLF CLUB Easting: 380970 Northing: 407670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16-Apr-07 Issue No: 100 Version Start Date: 17/04/1997 Version End Date: -
-	1271m W	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 55 Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16/04/2007 Issue No: 101 Version Start Date: 27/01/2004 Version End Date: 16/04/2007
-	1271m W	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1278m W	Status: Active Licence No: 2569002264R02 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: Bury Golf Club Limited Easting: 380963 Northing: 407673	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: NPS/WR/016967 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -

ID	Location	Details	
-	1278m W	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380963 Northing: 407673	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1488m NW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATER FARM, HEAP BRIDGE, BURY" Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
-	1488m NW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATER FARM, HEAP BRIDGE, BURY Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
-	1665m SW	Status: Active Licence No: 2569004042 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD Data Type: Point Name: DANISH CROWN UK LIMITED Easting: 380900 Northing: 406300	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 21 Original Application No: 2396B Original Start Date: 18/07/1973 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1665m SW	Status: Historical Licence No: 2569004042 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD" Data Type: Point Name: DANISH BACON INDEPENDENT DBI LTD Easting: 380900 Northing: 406300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/07/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1986 Version End Date: -
-	1835m N	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATERFOLD FARM, HEAP BRIDGE,NEAR BURY" Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1835m N	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATERFOLD FARM, HEAP BRIDGE,NEAR BURY Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1836m NW	Status: Historical Licence No: 2569001258 Details: Pollution Remediation Direct Source: Ground Water - North West Region Point: "WELL POINT SYSTEM AT MANCHESTER ROAD, BURY" Data Type: Point Name: TOTALFINAELF UK LTD Easting: 380450 Northing: 408850	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/2002 Expiry Date: - Issue No: 1 Version Start Date: 12/06/2002 Version End Date: -

ID	Location	Details	
-	1836m NW	Status: Historical Licence No: 2569001258 Details: Pollution Remediation Direct Source: Ground Water - North West Region Point: WELL POINT SYSTEM AT MANCHESTER ROAD, BURY Data Type: Point Name: TOTALFINAELF UK LTD Easting: 380450 Northing: 408850	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 12/06/2002 Expiry Date: - Issue No: 1 Version Start Date: 12/06/2002 Version End Date: -
-	1918m N	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE" Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
-	1918m N	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	**9**

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 51 >**

ID	Location	Details	
A	127m N	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	127m N	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	127m N	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
A	127m N	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

ID	Location	Details	
A	127m N	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
A	127m N	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1248m SW	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "C"ON WHITFIELD BROOK Data Type: Point Name: Onsite Central Limited Easting: 381610 Northing: 406123	Annual Volume (m^3): 0.001 Max Daily Volume (m^3): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -
-	1419m SW	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "B"ON WHITEFIELD BROOKE WHITEFIELD, MANCHESTER Data Type: Point Name: Onsite Central Limited Easting: 381829 Northing: 405811	Annual Volume (m^3): 0.001 Max Daily Volume (m^3): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -

ID	Location	Details	
-	1506m S	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "A"WHITEFIELD BROOK AT WHITEFIELD, MANCHESTER Data Type: Point Name: Onsite Central Limited Easting: 382063 Northing: 405654	Annual Volume (m^3): 0.001 Max Daily Volume (m^3): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m **2**

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.

Features are displayed on the Abstractions and Source Protection Zones map on **page 51 >**

ID	Location	Details	
C	683m NW	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
C	683m NW	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

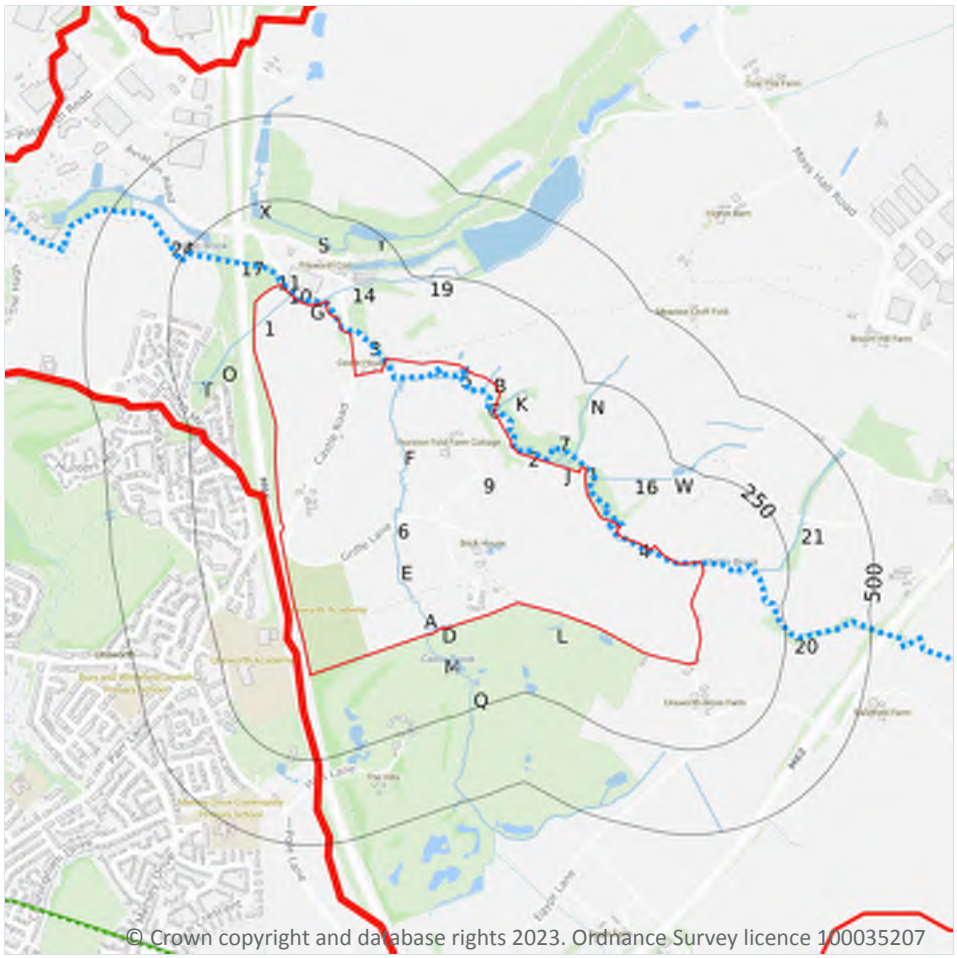
5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	44

Detailed water network of Great Britain showing the flow and precise central course of every river, stream, lake and canal.

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Type of water feature	Ground level	Permanence	Name
1	**On site**	**Inland river not influenced by normal tidal action.**	**Underground**	**Watercourse contains water year round (in normal circumstances)**	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
4	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
6	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Castle Brook
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hollins Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
10	3m NW	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Hollins Brook
G	5m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
J	6m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
I	6m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
11	7m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hollins Brook
C	10m NE	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	13m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
14	23m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
L	25m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	26m S	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Castle Brook
16	29m E	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	31m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
N	39m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
17	55m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hollins Brook
O	68m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
M	128m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	130m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
19	135m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Brightley Brook
S	149m N	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
20	152m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
21	152m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	160m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	160m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	200m E	Marsh. An area that is predominantly waterlogged by freshwater.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
24	201m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Hollins Brook
X	210m NW	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
Y	212m N	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	214m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	242m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
W	245m E	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	**30**

Covering rivers, streams and lakes (some overlap with OS MasterMap Water Network data in previous section) but additionally covers smaller features such as ponds. Rivers and streams narrower than 5m are represented as a single line. Lakes, ponds and rivers or streams wider than 5m are represented as polygons.

Features are displayed on the Hydrology map on **page 63 >**

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	**1**

The Water Framework Directive is an EU-led framework for the protection of inland surface waters, estuaries, coastal waters and groundwater through river basin-level management planning. In terms of surface water, these basins are broken down into smaller units known as management, operational and water body catchments.

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
7	**On site**	**River**	**Whittle Brook (Irwell)**	**GB112069061250**	**Roch Irk Medlock**	**Irwell**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
8	**On site**	**River**	**Whittle Brook (Irwell)**	**GB112069061250** !	**Moderate**	**Fail**	**Moderate**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on **page 63 >**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
9	**On site**	**Northern Manchester Carboniferous Aquifers**	**GB41202G101800** !	**Poor**	**Poor**	**Good**	**2019**

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

High

Medium

Low

Very Low

Historical Flood Events

Areas Used for Flood Storage

Areas Benefiting from Flood Defences

Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	48

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 69 >**

Distance	Flood risk category
On site	**High**
0 - 50m	High

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	**0**

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	**0**

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	**0**

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	**0**

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



Site Outline

Search buffers in metres (m)

Flood zone 2

Flood zone 3

7.6 Flood Zone 2

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land between Flood Zone 3 (see next section) and the extent of the flooding from rivers or the sea with a 1 in 1000 (0.1%) chance of flooding each year.

Features are displayed on the River and coastal flooding map on **page 69 >**

Location	Type
On site	**Zone 2 - (Fluvial /Tidal Models)**

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	1

Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on **page 69 >**

Location	Type
On site	**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	**1 in 30 year, Greater than 1.0m**
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 73 >**

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

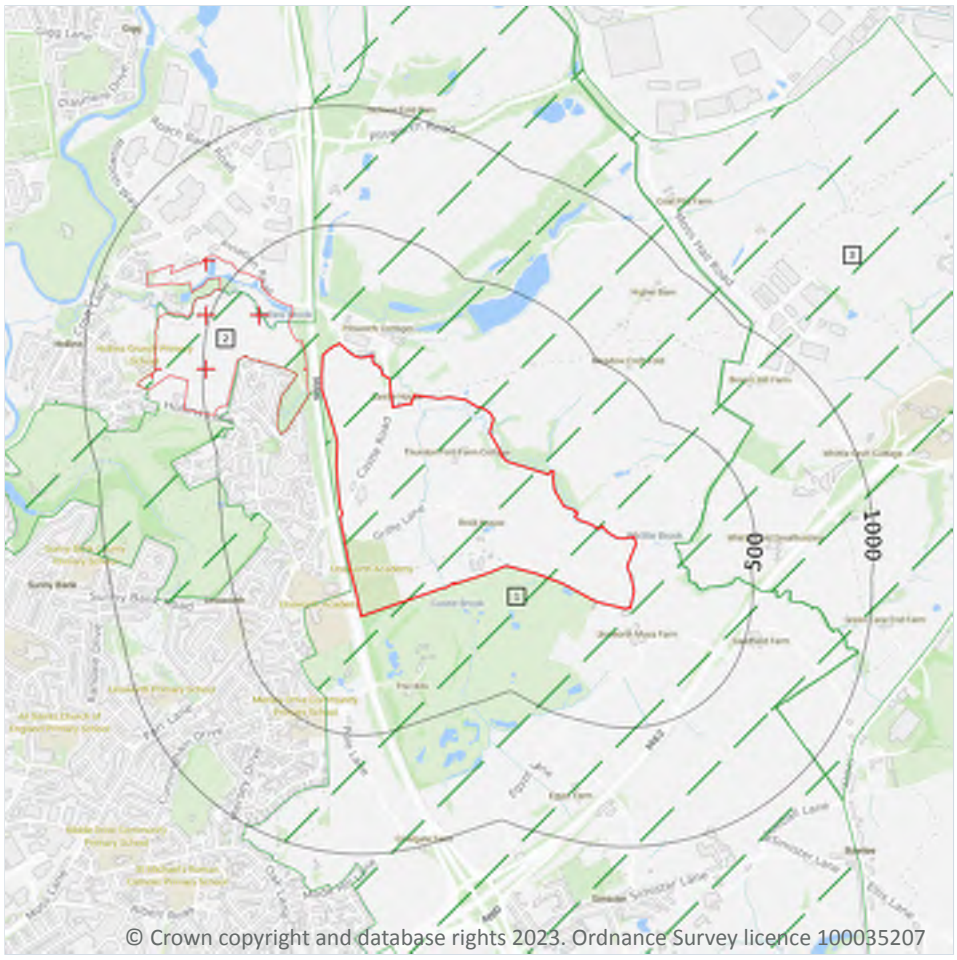
Highest risk on site	**Low**
Highest risk within 50m	**Low**

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on **page 75 >**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on **page 76 >**

ID	Location	Name	Data source
2	56m NW	Hollins Vale	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	4

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on **page 76 >**

ID	Location	Name	Local Authority name
1	**On site**	**Merseyside and Greater Manchester**	**Bury**
3	164m E	Merseyside and Greater Manchester	Rochdale
-	1509m W	Merseyside and Greater Manchester	Bury
-	1819m S	Merseyside and Greater Manchester	Manchester

This data is sourced from the Ministry of Housing, Communities and Local Government.

10.12 Proposed Ramsar sites

Records within 2000m	0

Ramsar sites are areas listed as a Wetland of International Importance under the Convention on Wetlands of International Importance especially as Waterfowl Habitat (the Ramsar Convention) 1971. The sites here supplied have a status of 'Proposed' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

Special Areas of Conservation are areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive. Those sites supplied here are those with a status of 'Possible' having been identified for potential adoption under the framework.

This data is sourced from Natural England and Natural Resources Wales.

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

Special Protection Areas (SPAs) are areas designated (or 'classified') under the European Union Wild Birds Directive for the protection of nationally and internationally important populations of wild birds. Those sites supplied here are those with a status of 'Potential' having been identified for potential adoption under the framework.

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

Areas where nitrate concentrations in drinking water sources exceeded or was at risk of exceeding the limit of 50 mg/l set by the 1980 EC Drinking Water Directive. Voluntary agricultural measures as a means of reducing the levels of nitrate were introduced by DEFRA as MAFF, with payments being made to farmers who complied. The scheme was started as a pilot in 1990 in ten areas, later implemented within 32 areas. The scheme was closed to further new entrants in 1998, although existing agreements continued for their full term. All Nitrate Sensitive Areas fell within the areas designated as Nitrate Vulnerable Zones (NVZs) in 1996 under the EC Nitrate Directive (91/676/EEC).

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

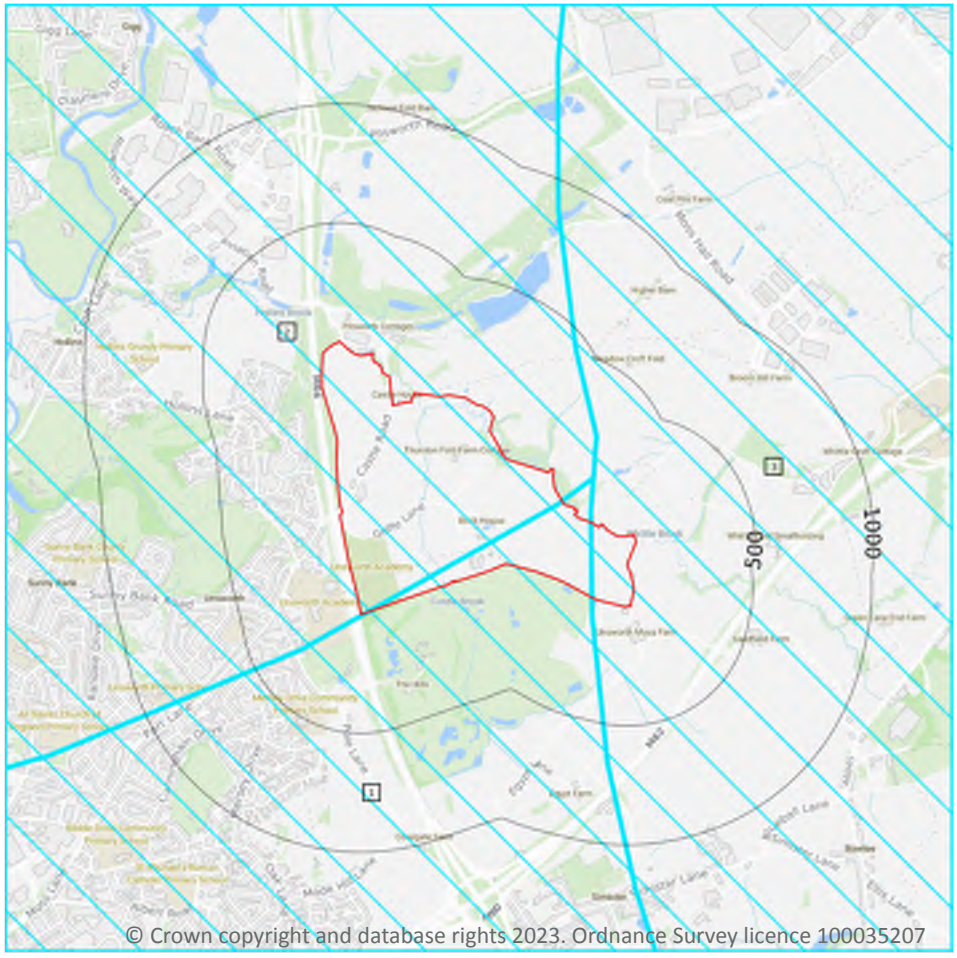
Records within 2000m	4

Areas at risk from agricultural nitrate pollution designated under the EC Nitrate Directive (91/676/EEC). These are areas of land that drain into waters polluted by nitrates. Farmers operating within these areas have to follow mandatory rules to tackle nitrate loss from agriculture.

Location	Name	Type	NVZ ID	Status
1165m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1206m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1220m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1338m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

This data is sourced from Natural England and Natural Resources Wales.

SSSI Impact Zones and Units



Site Outline

Search buffers in metres (m)

SSSI Impact Risk Zones

SSSI Units

Not recorded

Favourable

Unfavourable - Recovering

Unfavourable - No change

Unfavourable - Declining

Partially destroyed

Destroyed

10.17 SSSI Impact Risk Zones

Records on site	3

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 81 >**

ID	Location	Type of developments requiring consultation
1	**On site**	**Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". 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.**

ID	Location	Type of developments requiring consultation
2	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**
3	**On site**	**Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 750m", manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.**

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	**0**

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	1

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on **page 83 >**

ID	Location	Name	Grade	Reference Number	Listed date
1	**On site**	**Brick Farmhouse**	**II**	**1067266**	**10/11/1975**

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

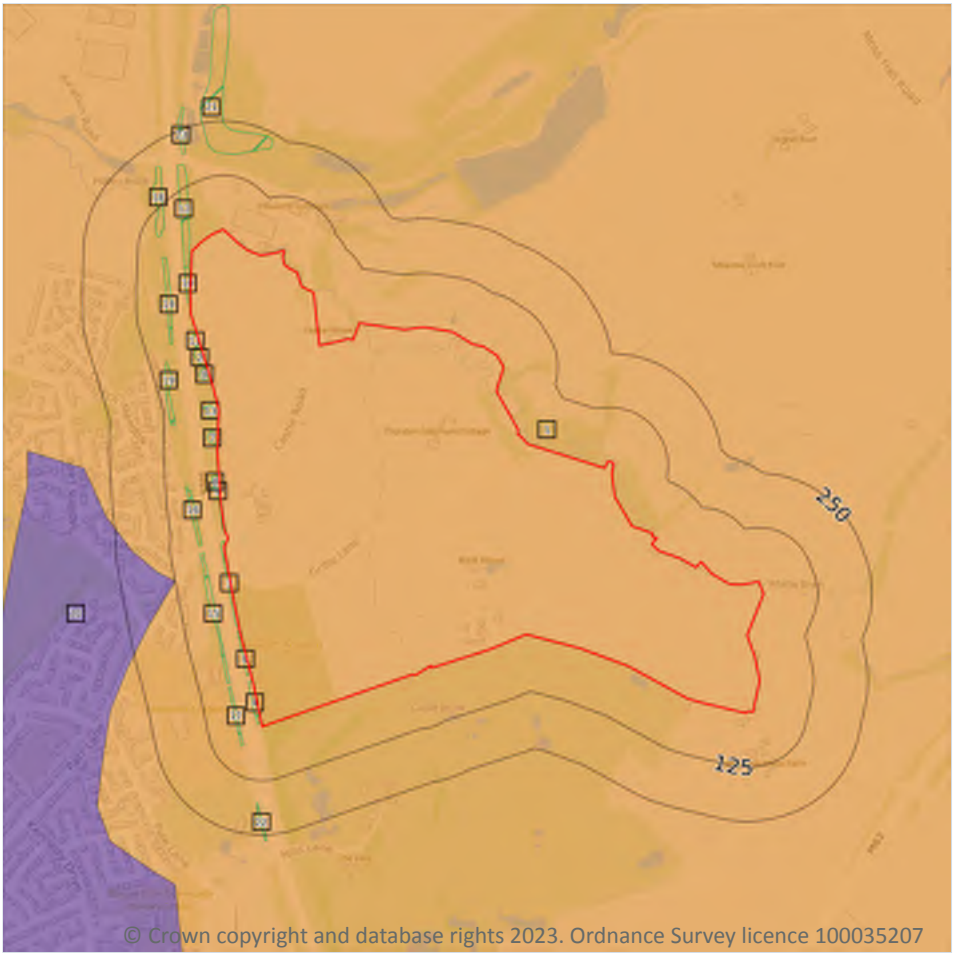
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline
Search buffers in metres (m)
Grade 1 - excellent quality
Grade 2 - very good quality
Grade 3 - good to moderate quality
Grade 3a - good quality
Grade 3b - moderate quality
Grade 4 - poor quality
Grade 5 - very poor quality
Non-agricultural land
Urban land
Exclusion land
Tree felling licences
Open Access land

12.1 Agricultural Land Classification

Records within 250m	2

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on **page 86 >**

ID	Location	Classification	Description
1	**On site**	**Grade 3**	**Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.**
20	125m W	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	21

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on **page 86 >**

ID	Location	Description	Reference	Application date
2	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
3	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
4	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
5	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
6	**On site**	**Selective Fell/Thin (Unconditional)**	**018/366/15-16**	**-**
7	0m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	1m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	1m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	2m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	3m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	6m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
13	10m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
14	44m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
15	46m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

ID	Location	Description	Reference	Application date
16	51m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
17	51m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
18	79m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
19	85m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
21	175m NW	Clear Fell (Conditional)	010/127/10-11	27/01/2011
22	177m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
23	196m NW	Clear Fell (Conditional)	010/127/10-11	27/01/2011

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	**1**

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.

Location	Reference	Scheme	Start Date	End Date
68m NW	643930	Countryside Stewardship (Middle Tier)	01/01/2019	31/12/2023

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	40

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 89 >**

ID	Location	Main Habitat	Other habitats
1	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
2	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
3	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**

ID	Location	Main Habitat	Other habitats
4	**On site**	**Good quality semi-improved grassland**	**Main habitat: LMEAD (INV > 50%)**
5	**On site**	**Good quality semi-improved grassland**	**Main habitat: LMEAD (INV > 50%)**
6	**On site**	**Good quality semi-improved grassland**	**Main habitat: LMEAD (INV > 50%)**
A	**On site**	**Deciduous woodland**	**Main habitat: DWOOD (INV > 50%)**
B	**On site**	**Good quality semi-improved grassland**	**Main habitat: LMEAD (INV > 50%)**
B	**On site**	**Good quality semi-improved grassland**	**Main habitat: LMEAD (INV > 50%)**
B	**On site**	**Good quality semi-improved grassland**	**Main habitat: LMEAD (INV > 50%)**
7	3m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	4m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	6m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	19m NW	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
9	32m NW	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%); Additional: DWOOD (INV 50%)
10	41m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	47m NW	Good quality semi-improved grassland	Main habitat: LMEAD (INV > 50%)
11	51m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	52m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	56m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
15	58m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	68m NW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%); LMEAD (INV > 50%); PMGRP (INV > 50%)
16	68m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
17	69m NW	Lowland dry acid grassland	Main habitat: LDAGR (INV > 50%); LMEAD (INV > 50%); PMGRP (INV > 50%)
19	107m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
20	111m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
22	155m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
24	175m SE	Lowland fens	Main habitat: LFENS (INV > 50%)
25	181m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
26	183m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
27	186m NW	Lowland dry acid grassland	Main habitat: LFENS (INV > 50%); LDAGR (INV > 50%); LMEAD (INV > 50%); PMGRP (INV > 50%)
28	189m NW	Lowland fens	Main habitat: LFENS (INV > 50%)
29	207m NW	Lowland fens	Main habitat: LFENS (INV > 50%)
D	208m NW	Purple moor grass and rush pastures	Main habitat: LFENS (INV > 50%); LDAGR (INV > 50%); LMEAD (INV > 50%); PMGRP (INV > 50%)
30	213m NW	Lowland fens	Main habitat: LFENS (INV > 50%)
31	217m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
32	219m SE	Lowland fens	Main habitat: LFENS (INV > 50%)
33	228m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
34	232m NW	No main habitat but additional habitats present	Additional: LDAGR (INV 50%)
35	232m E	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m **5**

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.

Features are displayed on the Habitat designations map on **page 89 >**

ID	Location	Type	Habitat
C	**On site**	**Network Enhancement Zone 1**	**Not specified**
12	52m NW	Primary Habitat	Lowland dry acid grassland
18	75m NW	Network Enhancement Zone 2	Not specified

ID	Location	Type	Habitat
23	164m NW	Primary Habitat	Lowland fens
D	192m NW	Primary Habitat	Purple moor grass and rush pasture

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 89 >**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
21	133m N	BRITPITS ref: 96553	Low	British Geological Survey BRITPITS database	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

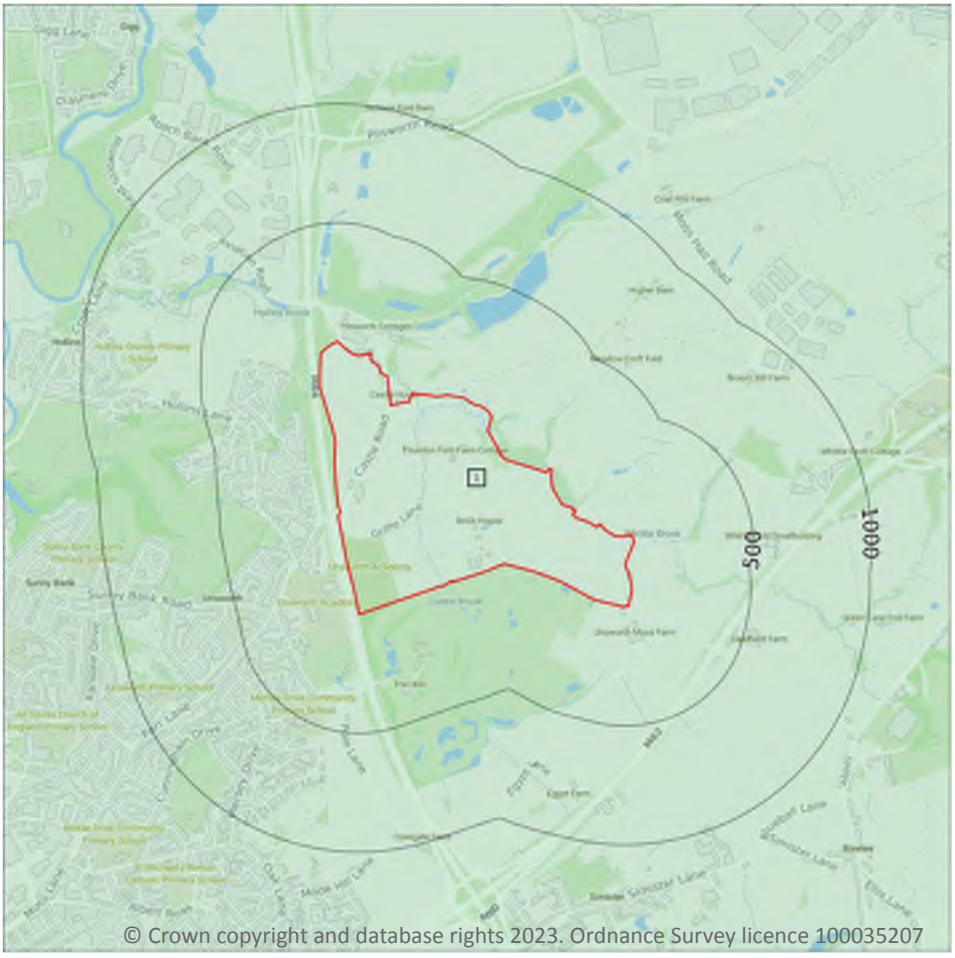
13.4 Limestone Pavement Orders

Records within 250m	**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

Records within 500m	1

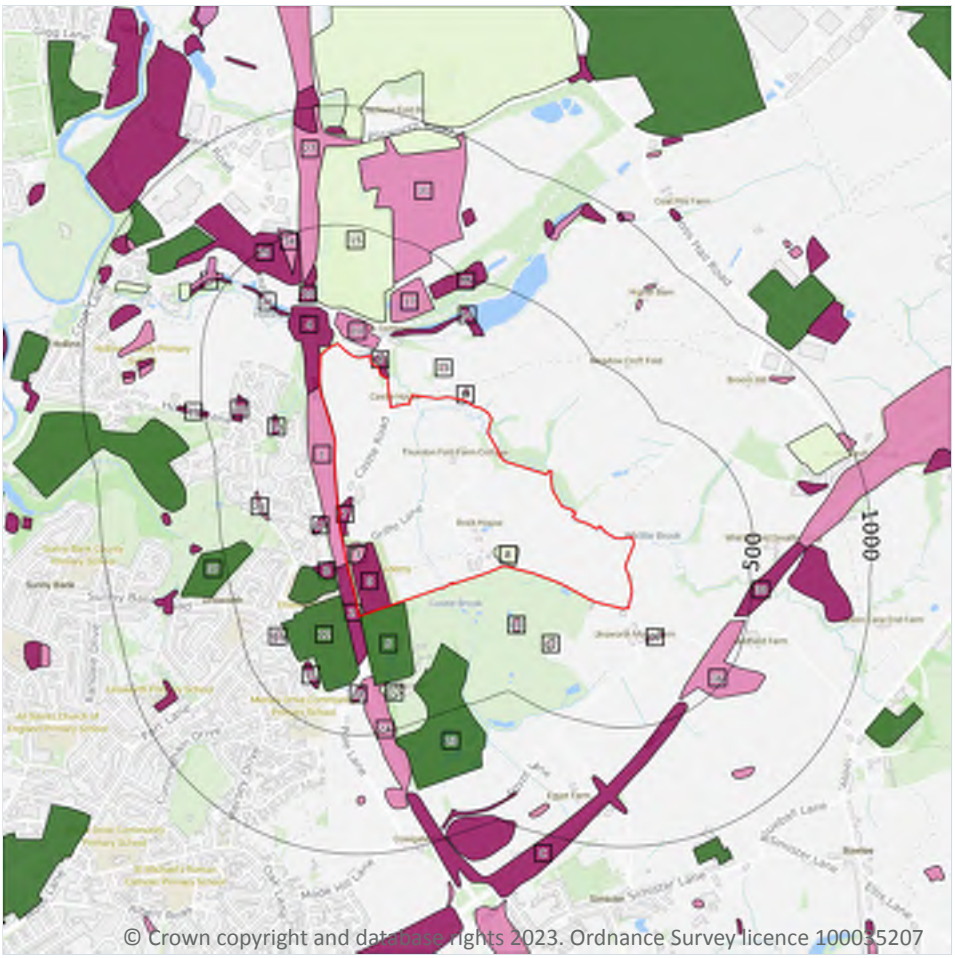
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 93 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SD80NW**

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	45

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 94 >**

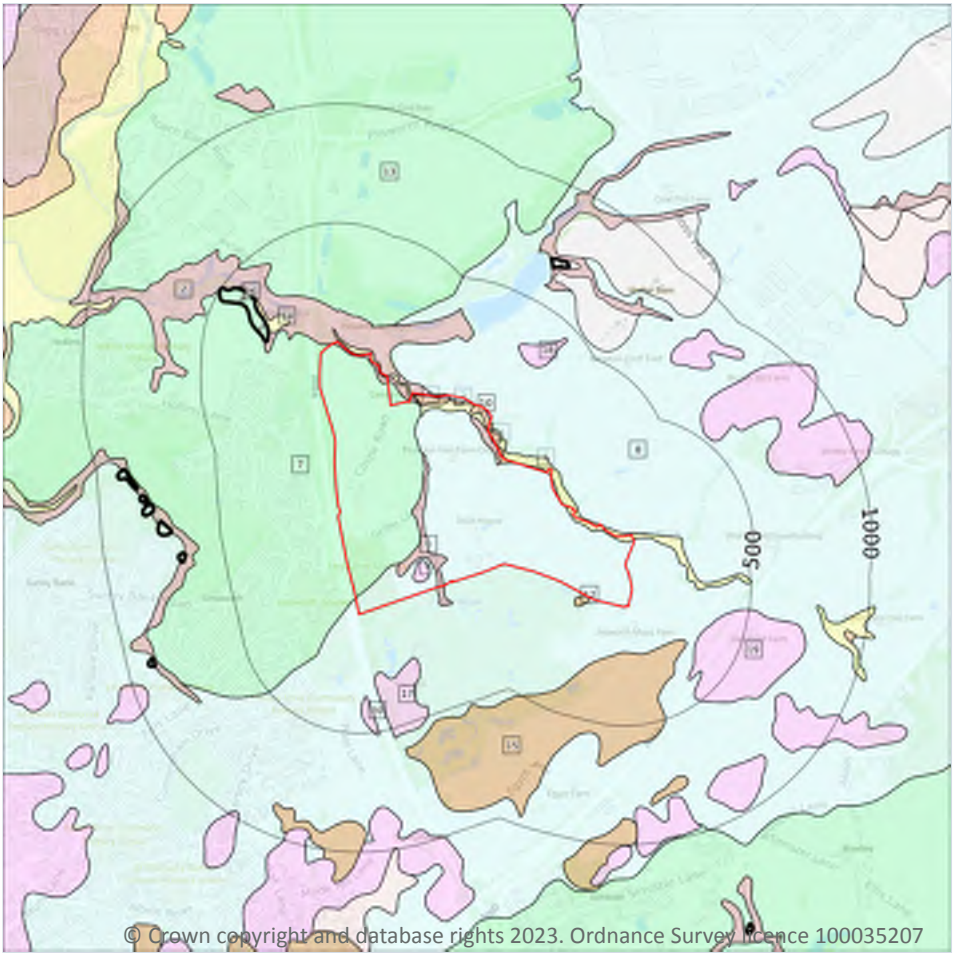
ID	Location	LEX Code	Description	Rock description
1	On site	WGR-VOID	Worked Ground (Undivided)	Void
2	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	On site	WGR-VOID	Worked Ground (Undivided)	Void
4	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	**On site**	**LSGR-ARTDP**	**Landscaped Ground (Undivided)**	**Artificial Deposit**
6	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
7	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
8	**On site**	**WMGR-ARTDP**	**Infilled Ground**	**Artificial Deposit**
9	**On site**	**MGR-ARTDP**	**Made Ground (Undivided)**	**Artificial Deposit**
A	15m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	30m NW	WGR-VOID	Worked Ground (Undivided)	Void
A	30m N	WGR-VOID	Worked Ground (Undivided)	Void
11	54m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
12	54m SW	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
B	56m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	60m SW	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
13	108m N	WGR-VOID	Worked Ground (Undivided)	Void
14	119m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	145m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
16	148m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
17	166m N	WGR-VOID	Worked Ground (Undivided)	Void
18	200m SE	WGR-VOID	Worked Ground (Undivided)	Void
19	201m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
20	205m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
21	216m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
22	218m SE	WGR-VOID	Worked Ground (Undivided)	Void
23	222m S	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
24	259m SW	WGR-VOID	Worked Ground (Undivided)	Void
25	284m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
26	287m W	WGR-VOID	Worked Ground (Undivided)	Void
27	294m NW	WGR-VOID	Worked Ground (Undivided)	Void
28	296m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
29	297m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
30	314m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
31	317m N	WGR-VOID	Worked Ground (Undivided)	Void
32	323m S	WMGR-ARTDP	Infilled Ground	Artificial Deposit
33	325m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
34	344m NW	WGR-VOID	Worked Ground (Undivided)	Void
35	356m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
36	378m SE	WGR-VOID	Worked Ground (Undivided)	Void
37	380m W	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
38	443m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
C	450m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
39	478m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
D	482m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	19

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 97 >**

ID	Location	LEX Code	Description	Rock description
1	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
2	On site	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	**On site**	**RTD1-XSV**	**River Terrace Deposits, 1 - Sand And Gravel**	**Sand And Gravel**
5	**On site**	**RTD1-XSV**	**River Terrace Deposits, 1 - Sand And Gravel**	**Sand And Gravel**
6	**On site**	**GFICD-XSV**	**Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel**	**Sand And Gravel**
7	**On site**	**HMGDD-DMTN**	**Hummocky (moundy) Glacial Deposits, Devensian - Diamicton**	**Diamicton**
8	**On site**	**TILLD-DMTN**	**Till, Devensian - Diamicton**	**Diamicton**
9	**On site**	**HEAD-XCZSV**	**Head - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
10	**On site**	**RTD1-XSV**	**River Terrace Deposits, 1 - Sand And Gravel**	**Sand And Gravel**
11	**On site**	**HEAD-XCZSV**	**Head - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
12	7m SE	PEAT-P	Peat - Peat	Peat
13	111m NW	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
14	182m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
15	190m SE	PEAT-P	Peat - Peat	Peat
17	246m S	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
18	262m NE	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
19	322m SE	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
20	348m S	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m	**1**

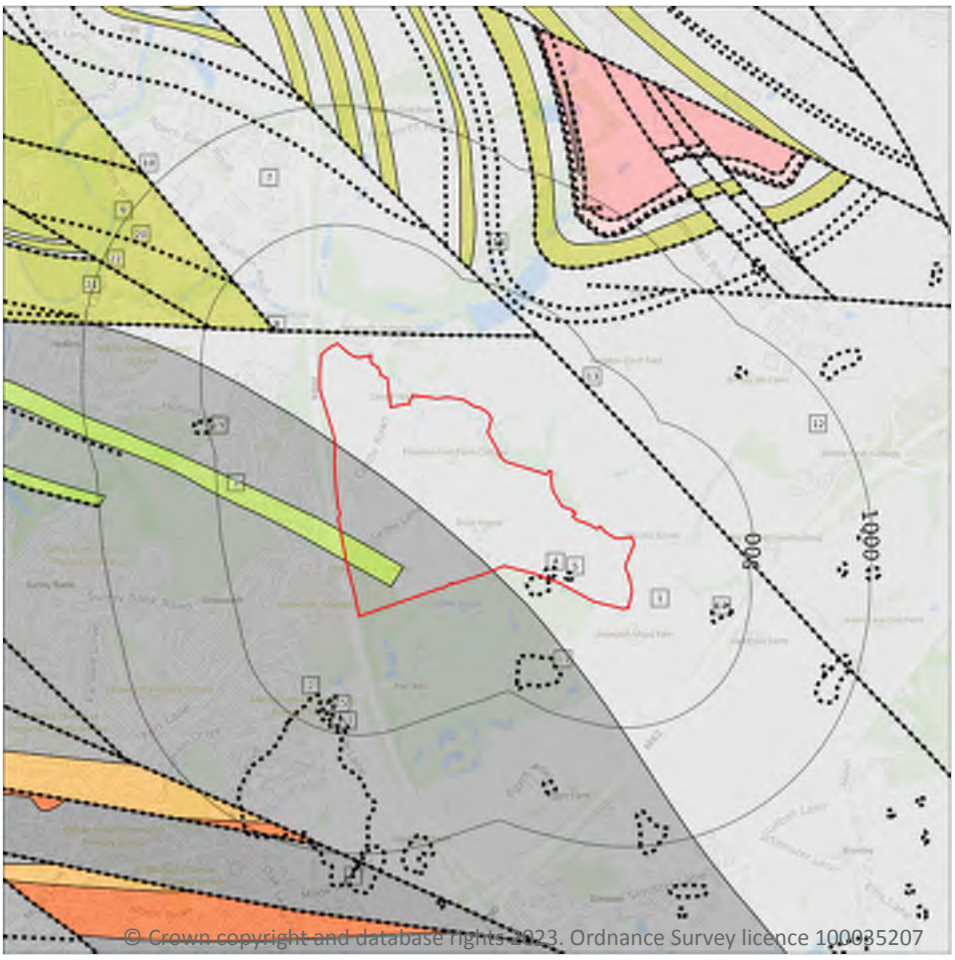
Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 97 >**

ID	Location	LEX Code	Description	Rock description
16	229m NW	SLIP-UKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

Bedrock geology (10k)
Please see table for more details.

14.5 Bedrock geology (10k)

Records within 500m **7**

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 100 >**

ID	Location	LEX Code	Description	Rock age
1	**On site**	**PLCM-MDSS**	**Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Langsettian Sub-age**
2	**On site**	**PMCM-MDSS**	**Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone**	**Bolsovian Sub-age - Duckmantian Sub-age**

ID	Location	LEX Code	Description	Rock age
3	**On site**	**PMCM-SDST**	**Pennine Middle Coal Measures Formation - Sandstone**	**Bolsovian Sub-age - Duckmantian Sub-age**
7	48m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	219m NW	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age
12	297m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	474m NW	TRBR-SDST	Trencherbone Rock - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **15**

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 100 >**

ID	Location	Category	Description
4	**On site**	**LANDFORM**	**Kettle hole; closed hollow**
5	**On site**	**LANDFORM**	**Kettle hole; closed hollow**
6	2m SE	LANDFORM	Kettle hole; closed hollow
8	48m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
10	219m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	295m SE	LANDFORM	Drumlin, form-line at base of mound
13	297m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
14	345m SE	LANDFORM	Kettle hole; closed hollow
15	350m SW	LANDFORM	Drumlin, form-line at base of mound
16	372m SW	LANDFORM	Drumlin, form-line at base of mound
17	430m SW	LANDFORM	Drumlin, form-line at base of mound
18	454m N	ROCK	Coal seam, inferred
19	467m W	LANDFORM	Drumlin, form-line at base of mound

ID	Location	Category	Description
20	467m NW	ROCK	Coal seam, inferred
22	474m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

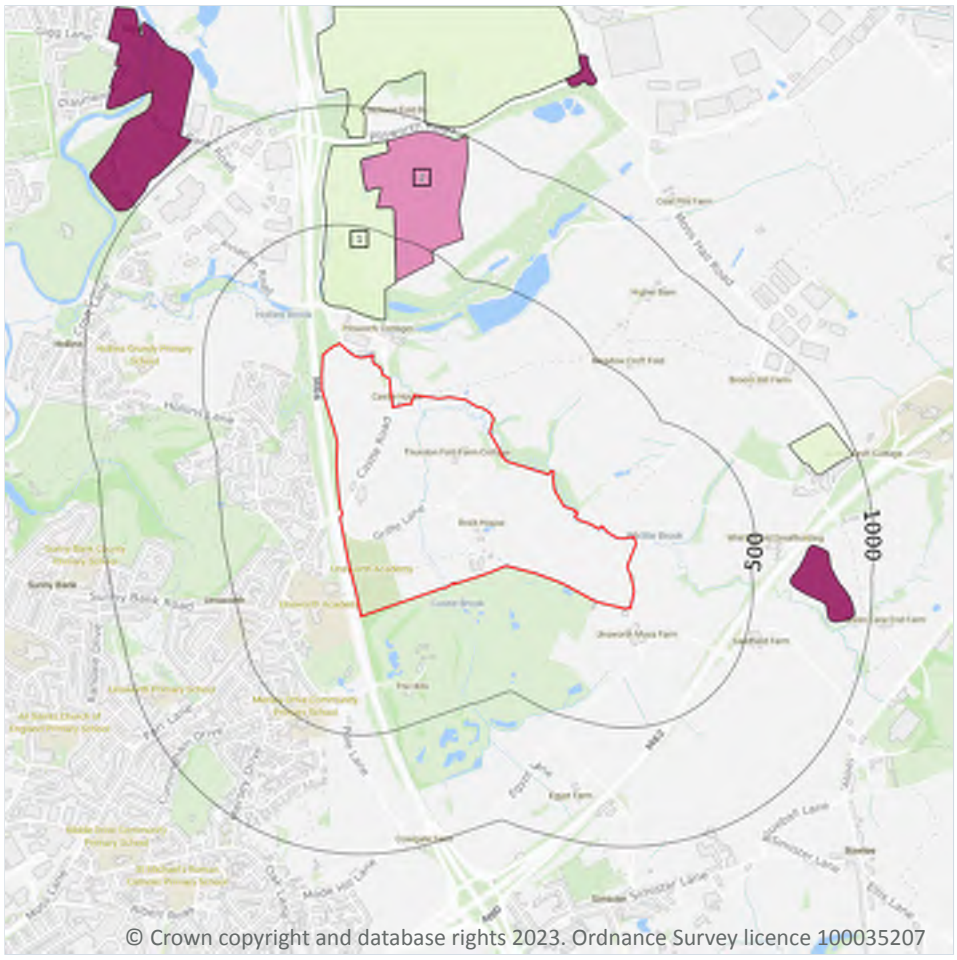
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 103 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**No coverage**	**Full**	**Full**	**No coverage**	**EW085_manchester_v4**

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	2

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 104 >**

ID	Location	LEX Code	Description	Rock description
1	150m NW	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT
2	326m N	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID

This data is sourced from the British Geological Survey.

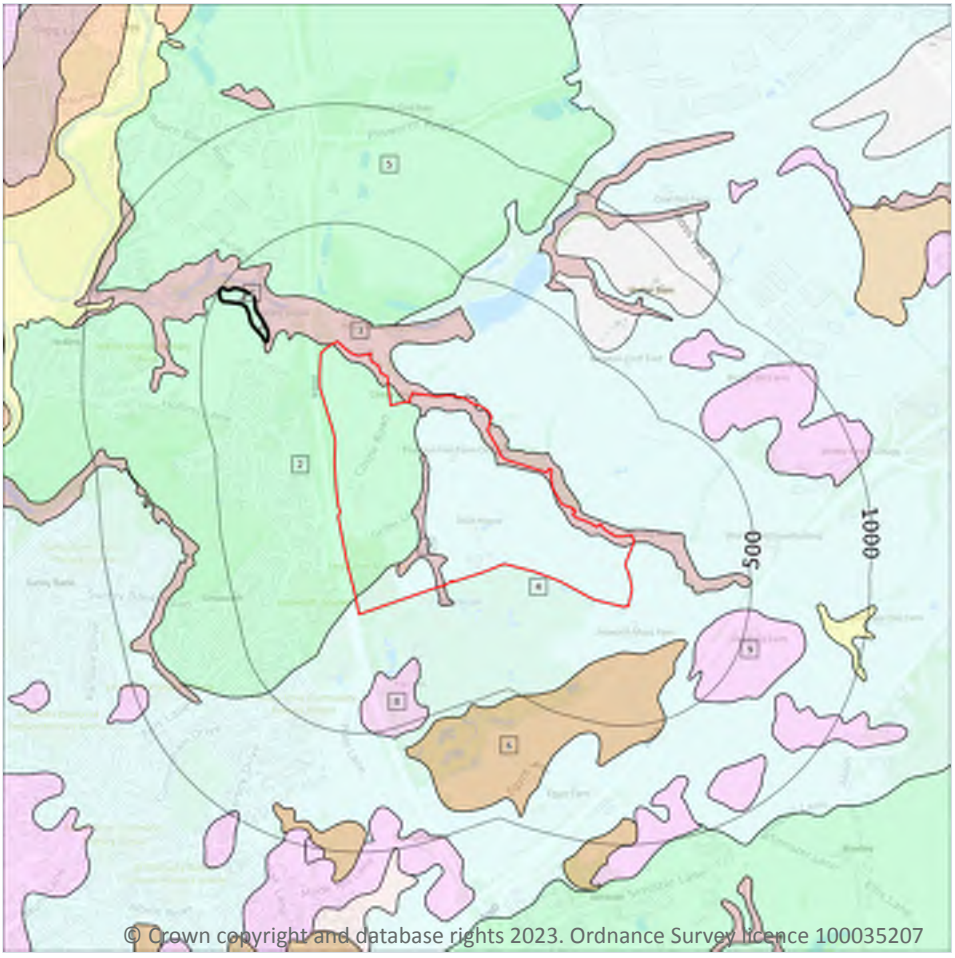
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

Superficial geology (50k)
Please see table for more details.

15.4 Superficial geology (50k)

Records within 500m	8

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 106 >**

ID	Location	LEX Code	Description	Rock description
1	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
2	On site	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON

ID	Location	LEX Code	Description	Rock description
3	**On site**	**HEAD-XCZSV**	**HEAD**	**CLAY, SILT, SAND AND GRAVEL**
4	**On site**	**TILLD-DMTN**	**TILL, DEVENSIAN**	**DIAMICTON**
5	111m NW	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
6	191m SE	PEAT-P	PEAT	PEAT
8	247m S	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
9	322m SE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**4**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Very Low**
On site	**Mixed**	**High**	**Low**

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	**1**

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 106 >**

ID	Location	LEX Code	Description	Rock description
7	229m NW	SLIP-UKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.

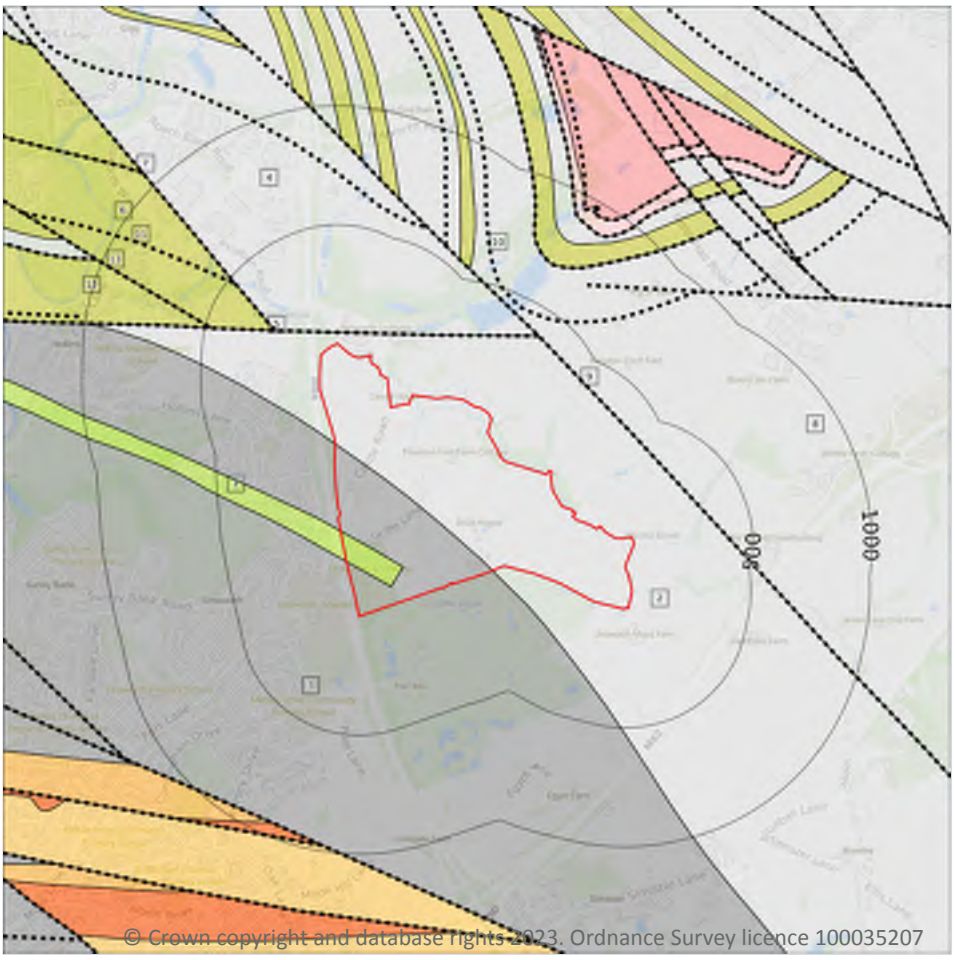
15.7 Landslip permeability (50k)

Records within 50m	**0**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m	7

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 109 >**

ID	Location	LEX Code	Description	Rock age
1	On site	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
3	**On site**	**PMCM-MDSS**	**PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE**	**WESTPHALIAN**
4	48m NW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	219m NW	TRBR-SDST	TRENCHERBONE ROCK - SANDSTONE	WESTPHALIAN
8	297m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	474m NW	TRBR-SDST	TRENCHERBONE ROCK - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m **3**

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**Moderate**	**Low**
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 **6**

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 109 >**

ID	Location	Category	Description
5	48m NW	FAULT	Fault, inferred
7	219m NW	FAULT	Fault, inferred
9	297m E	FAULT	Fault, inferred

ID	Location	Category	Description
10	454m N	ROCK	Coal seam, inferred
11	467m NW	ROCK	Coal seam, inferred
13	474m NW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	60

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 112 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**382200 408200**	**M66 BURY EASTERLY BY-PASS. 27.27A**	**-1.0**	**N**	**27302** !
2	22m SW	382260 407390	M66 BURY EASTERLY BY-PASS. 15	-1.0	N	27289

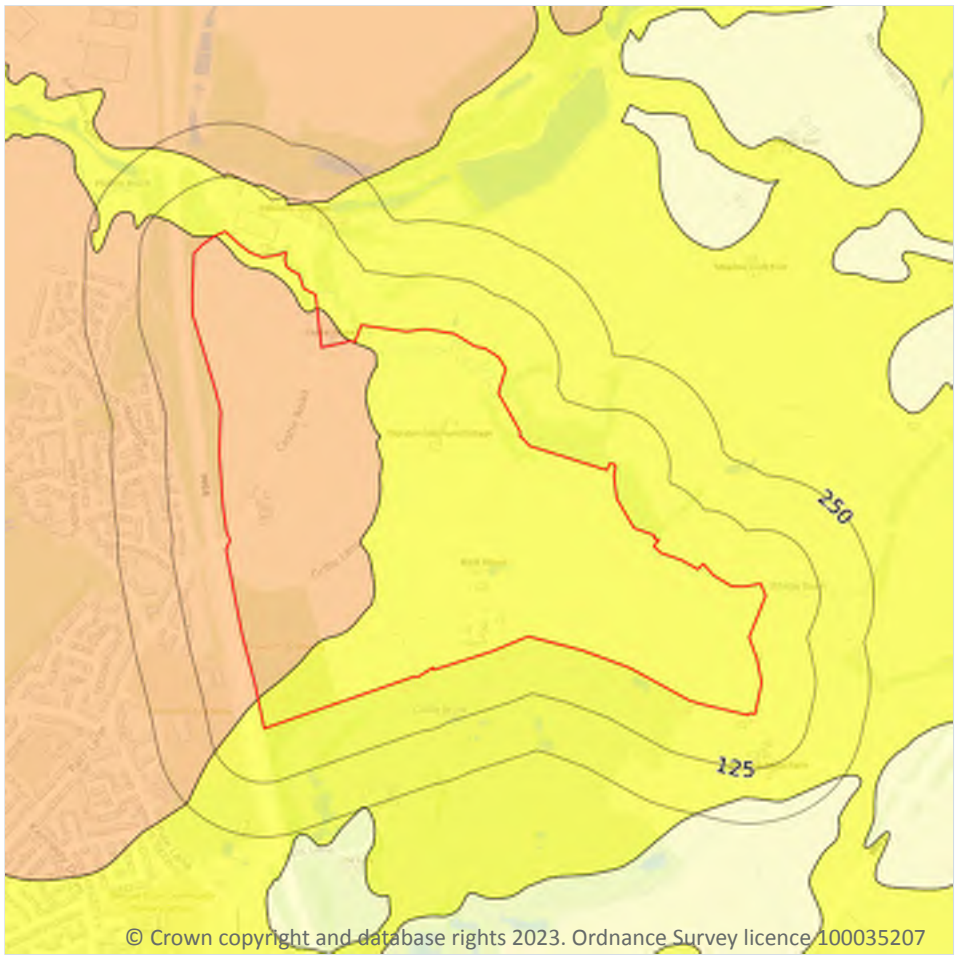
ID	Location	Grid reference	Name	Length	Confidential	Web link
3	30m SW	382260 407350	M66 BURY EASTERLY BY-PASS. 14	-1.0	N	27288
4	31m W	382240 407450	M66 BURY EASTERLY BY-PASS. 16	-1.0	N	27290
A	31m W	382220 407610	M66 BURY EASTERLY BY-PASS. 17	-1.0	N	27292
5	36m SW	382280 407250	M66 BURY EASTERLY BY-PASS. 13	-1.0	N	27287
6	40m NW	382140 408240	M66 BURY EASTERLY BY-PASS. 26	-1.0	N	27301
7	48m NW	382250 408330	PILSWORTH RD SWR BURY 28	8.5	N	27438
8	50m NW	382160 407970	M66 BURY EASTERLY BY-PASS. 23	-1.0	N	27298
9	50m W	382190 407730	M66 BURY EASTERLY BY-PASS. 19	-1.0	N	27294
A	52m W	382200 407600	M66 BURY EASTERLY BY-PASS. 18E-18W	-1.0	N	27293
10	61m NW	382180 407860	M66 BURY EASTERLY BY-PASS. 21	-1.0	N	27296
11	61m W	382200 407500	M66 BURY EASTERLY BY-PASS. 5852/1-5	-1.0	N	27291
12	62m NW	382160 408300	M66 BURY EASTERLY BY-PASS. 29D	-1.0	N	27307
13	67m NW	382400 408300	PILSWORTH BLEACHERY WHITEFIELD	80.16	N	27214
14	76m NW	382100 408100	M66 BURY EASTERLY BY-PASS. 25-25B	-1.0	N	27300
B	86m NW	382110 408010	HOLLINS LANE BURY 6	9.0	N	27385
B	99m NW	382100 408000	M66 BURY EASTERLY BY-PASS. 24W	-1.0	N	27299
C	104m NW	382100 408300	M66 BURY EASTERLY BY-PASS. 28A-E	-1.0	N	27303
C	104m NW	382100 408300	M66 BURY EASTERLY BY-PASS. 5854/1-2	-1.0	N	27304
C	104m NW	382100 408300	M66 BURY EASTERLY BY-PASS. 29 B,C,E,F,G	-1.0	N	27306
15	121m W	382136 407517	CASTLE ROAD TP 15	2.0	N	15638238
16	122m W	382131 407588	CASTLE ROAD TP 12	2.25	N	15638232
17	124m W	382129 407550	CASTLE ROAD TP 13	2.3	N	15638234
18	125m SW	382200 407200	M66 BURY EASTERLY BY-PASS. 5851/1-2	-1.0	N	27286
19	128m NW	382100 407900	M66 BURY EASTERLY BY-PASS. 22E-22W	-1.0	N	27297
20	138m NW	382260 408420	PILSWORTH RD SWR BURY 21	10.5	N	27429
21	139m W	382100 407800	M66 BURY EASTERLY BY-PASS. 20.20E,20W	-1.0	N	27295
22	140m W	382100 407730	HOLLINS LANE BURY 3	9.0	N	27382

ID	Location	Grid reference	Name	Length	Confidential	Web link
23	141m SW	382300 407000	M66 BURY EASTERLY BY-PASS. 12A-H	-1.0	N	27285
24	150m W	382096 407646	CASTLE ROAD TP 4	1.7	N	15638222
25	154m W	382101 407573	CASTLE ROAD TP 11	2.6	N	15638231
26	155m W	382095 407610	CASTLE ROAD TP 5	2.1	N	15638223
D	155m NW	382180 408420	M66 BURY EASTERLY BY-PASS. 30	-1.0	N	27308
27	161m NW	382220 408440	PILSWORTH RD SWR BURY 21A	15.5	N	27430
28	165m W	382089 407535	CASTLE ROAD TP 14	2.5	N	15638237
D	178m NW	382170 408440	PILSWORTH RD SWR BURY 20	10.5	N	27428
29	178m NW	382100 408400	M66 BURY EASTERLY BY-PASS. 5855/1-4	-1.0	N	27309
30	182m W	382065 407634	CASTLE ROAD TP 3	1.7	N	15638221
31	184m W	382070 407561	CASTLE ROAD TP 10	2.5	N	15638230
32	194m W	382040 407870	HOLLINS LANE BURY 5	9.0	N	27384
33	197m W	382055 407594	CASTLE ROAD TP 6	2.05	N	15638224
34	205m NW	381980 408280	HOLLINS LANE UNSWORTH 3	3.5	N	15625598
35	209m NW	381970 408240	HOLLINS LANE UNSWORTH 2	4.0	N	15625597
36	211m NW	382100 408440	PILSWORTH RD SWR BURY 19	8.0	N	27427
37	214m NW	381980 408310	HOLLINS LANE UNSWORTH 4	12.0	N	15625599
38	215m W	382033 407622	CASTLE ROAD TP 2	2.05	N	15638220
39	215m SE	383586 406985	Manchester Smart Motorway M60 WS21362B	3.45	N	20344057
40	216m W	382037 407549	CASTLE ROAD TP 9	2.0	N	15638229
E	220m NW	382070 408430	M66 BURY EASTERLY BY-PASS. 29A	-1.0	N	27305

ID	Location	Grid reference	Name	Length	Confidential	Web link
41	222m NW	382210 408500	M66 BURY EASTERLY BY-PASS. 30E	-1.0	N	27311
42	226m NW	381980 408340	HOLLINS LANE UNSWORTH 6	2.5	N	15625601
43	228m NW	382260 408510	PILSWORTH RD SWR BURY 21B	13.3	N	27431
44	230m W	382023 407582	CASTLE ROAD TP 7	2.4	N	15638227
E	234m NW	382060 408440	PILSWORTH RD SWR BURY 18	6.8	N	27426
45	235m N	382518 408431	PILSWORTH EAST EXTENSION 03/56A	-	Y	N/A
46	236m NW	382310 408510	PILSWORTH RD SWR BURY 22	10.8	N	27432
47	238m W	382000 407790	HOLLINS LANE BURY 4	9.0	N	27383
48	239m NW	381940 408220	HOLLINS LANE UNSWORTH 1	3.0	N	15625595
49	248m W	382006 407535	CASTLE ROAD TP 8	2.0	N	15638228

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.1 Shrink swell clays

Records within 50m	2

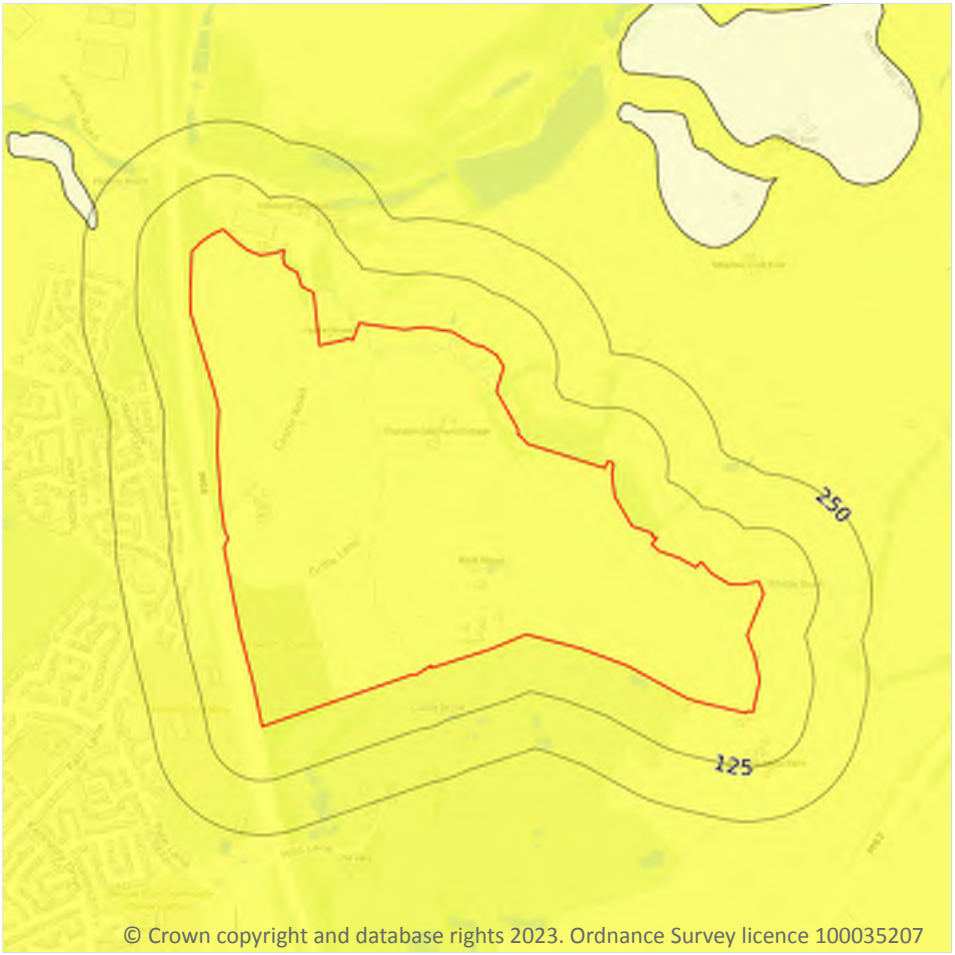
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 116 >**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**
On site	**Low**	**Ground conditions predominantly medium plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.2 Running sands

Records within 50m	1

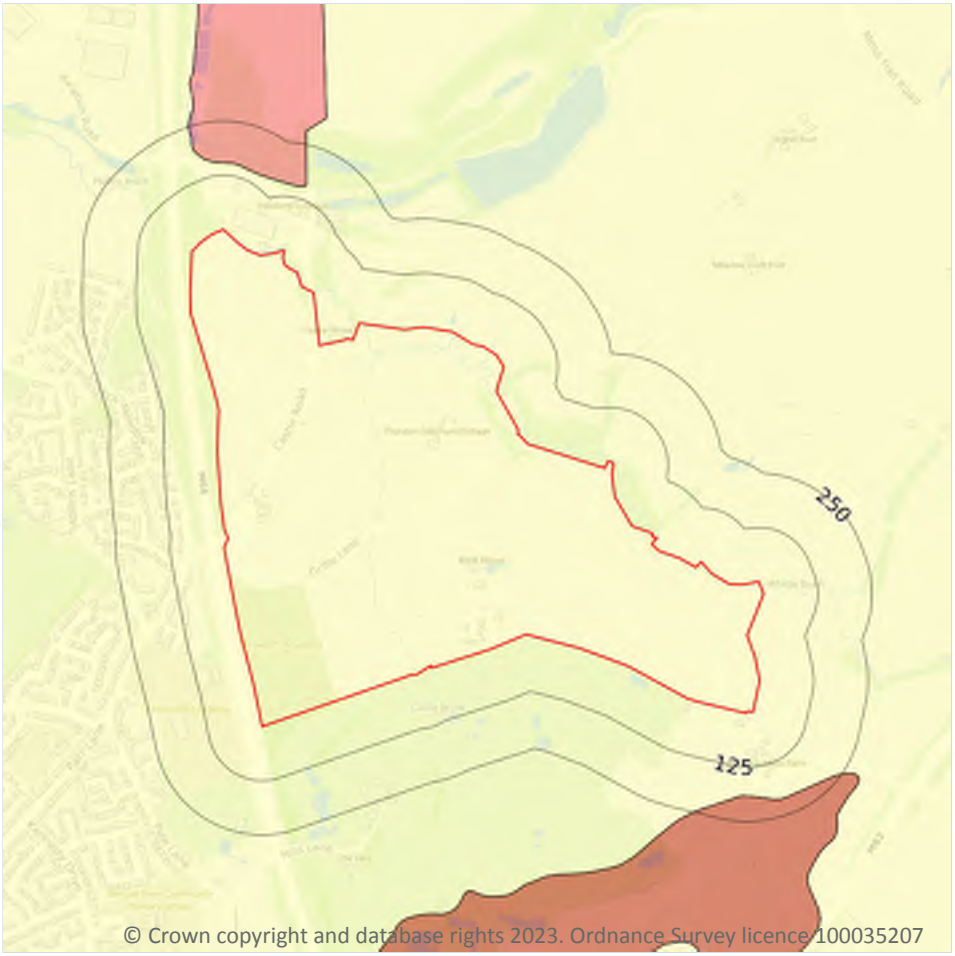
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 117 >**

Location	Hazard rating	Details
On site	**Very low**	**Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	1

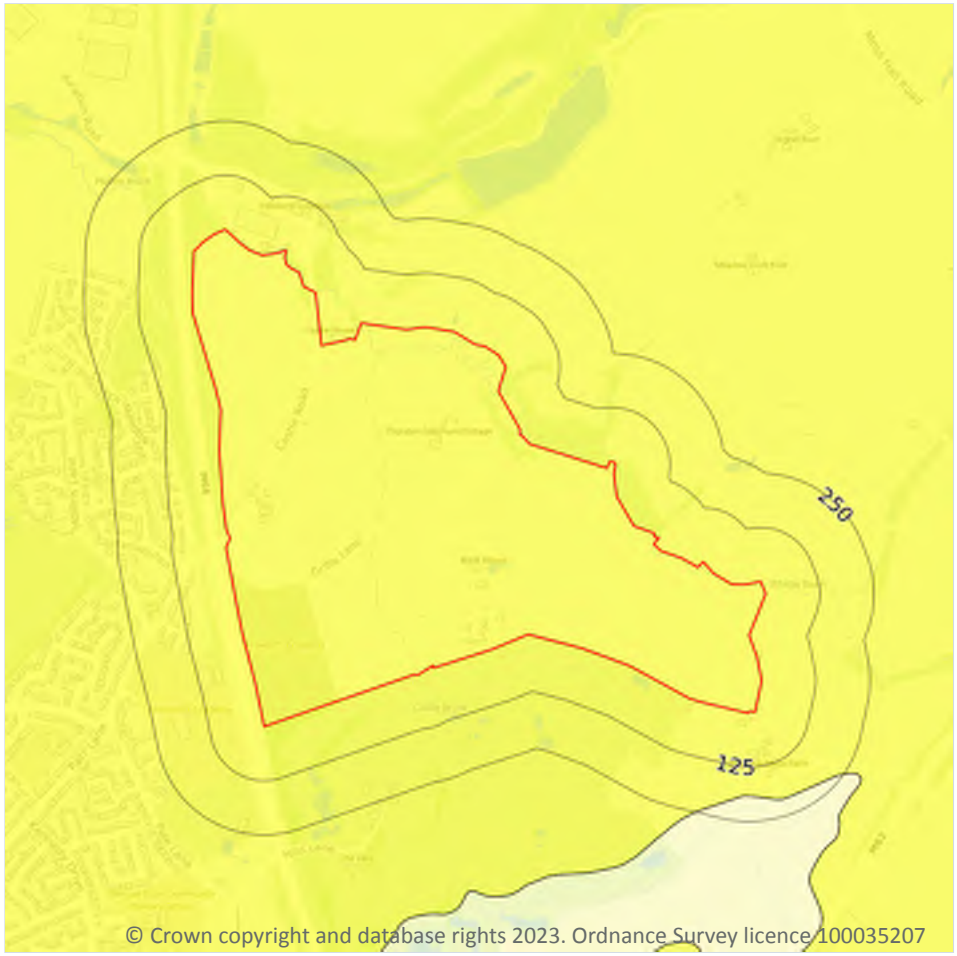
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 118 >**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	1

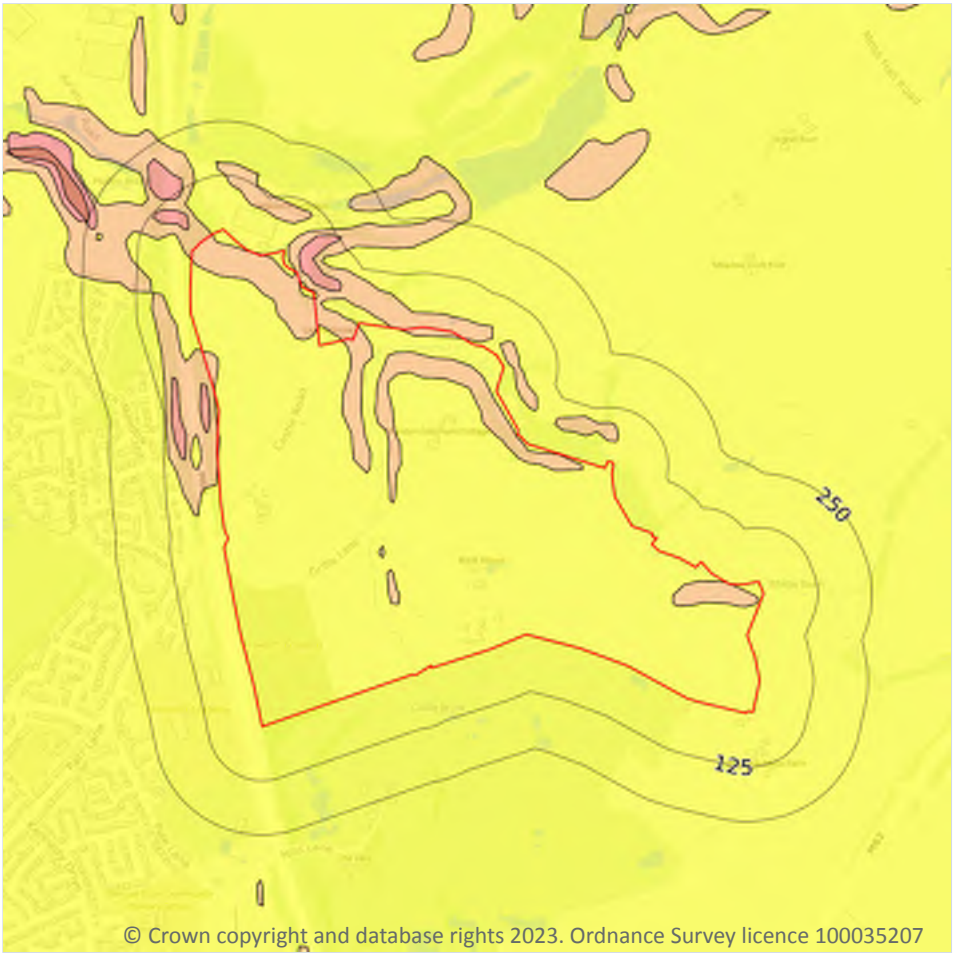
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 119 >**

Location	Hazard rating	Details
On site	**Very low**	**Deposits with potential to collapse when loaded and saturated are unlikely to be present.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.5 Landslides

Records within 50m	8

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 120 >**

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.**

Location	Hazard rating	Details
On site	**Low**	**Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.**
11m NW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
13m NE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
14m NW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
38m W	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.
42m NW	Moderate	Slope instability problems are probably present or have occurred in the past. Land use should consider specifically the stability of the site.
48m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

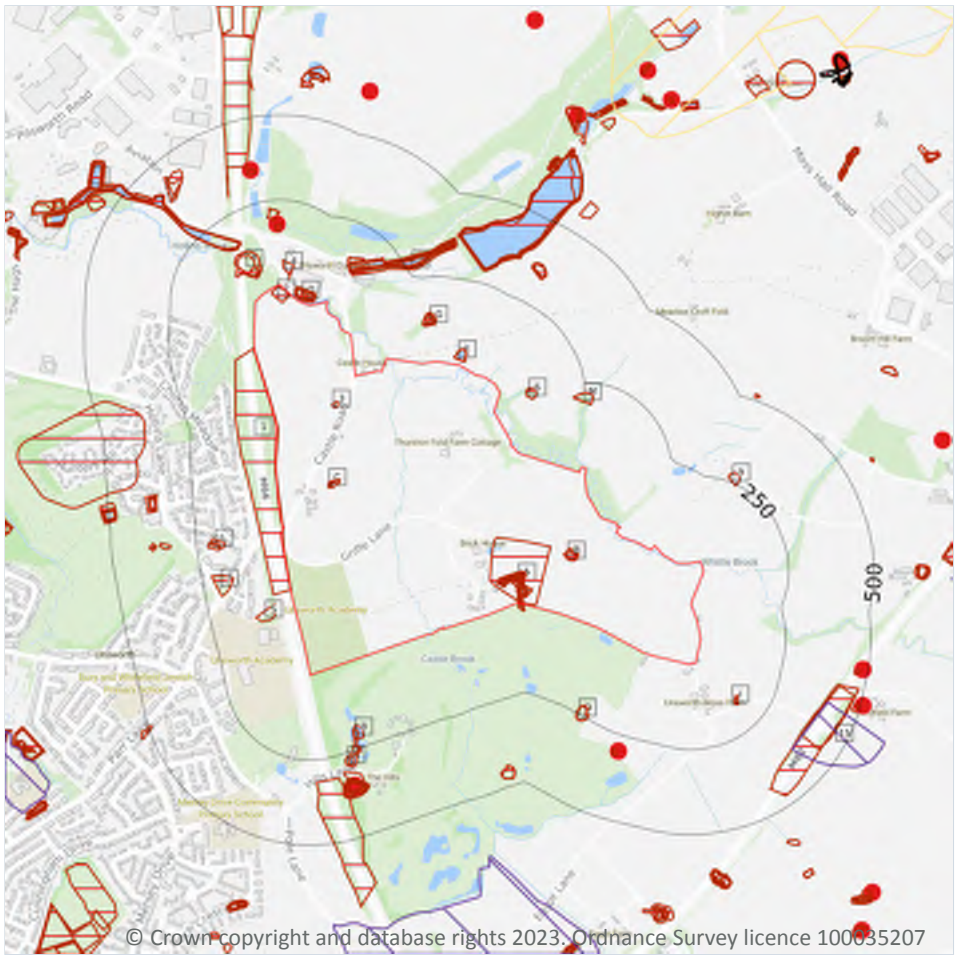
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 122 >**

Location	Hazard rating	Details
On site	**Negligible**	**Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.**

This data is sourced from the British Geological Survey.

18 Mining and ground workings



Site Outline

Search buffers in metres (m)

BritPits

Surface ground workings

Underground workings

Underground mining extents

Historical mineral planning areas

TCA non-coal mining

Non Coal Mining

Sporadic underground mining of restricted extent possible

Localised small scale underground mining possible

Small scale mining possible

Underground mining known or likely within or in close proximity

Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m	5

BritPits (an abbreviation of British Pits) is a database maintained by the British Geological Survey of currently active and closed surface and underground mineral workings. Details of major mineral handling sites, such as wharfs and rail depots are also held in the database.

Features are displayed on the Mining and ground workings map on **page 124 >**

ID	Location	Details	Description
K	179m NW	Name: Hollins Sand Pit Address: Hollins, BURY, Lancashire Commodity: Sand 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
Q	299m SE	Name: Unsworth Moss Sand Pit Address: Bowlee, MIDDLETON, Lancashire Commodity: Sand 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
U	349m NW	Name: Hollins Sand Pit Address: Hollins, BURY, Lancashire Commodity: Sand 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
R	349m S	Name: The Hills Gravel Pit Address: Whitefield, BURY, Lancashire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
Y	485m E	Name: Whittle Fold Sand Pit Address: Whitefield, BURY, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	**80**

Historical land uses identified from Ordnance Survey mapping that involved ground excavation at the surface. These features may or may not have been subsequently backfilled.

Features are displayed on the Mining and ground workings map on **page 124 >**

ID	Location	Land Use	Year of mapping	Mapping scale
1	**On site**	**Cuttings**	**1981**	**1:10000**
2	**On site**	**Settling Tanks**	**1974**	**1:10000**
3	**On site**	**Unspecified Pit**	**1891**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1923**	**1:10560**
A	**On site**	**Ponds**	**1981**	**1:10000**
A	**On site**	**Ponds**	**1974**	**1:10000**
A	**On site**	**Pond**	**1932**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1907**	**1:10560**
A	**On site**	**Unspecified Pit**	**1907**	**1:10560**
A	**On site**	**Ponds**	**1915**	**1:10560**
A	**On site**	**Ponds**	**1965**	**1:10560**
A	**On site**	**Ponds**	**1955**	**1:10560**
A	**On site**	**Pond**	**1938**	**1:10560**
A	**On site**	**Ponds**	**1923**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1932**	**1:10560**
A	**On site**	**Old Brick Field**	**1891**	**1:10560**
A	**On site**	**Unspecified Ground Workings**	**1891**	**1:10560**
B	**On site**	**Pond**	**1981**	**1:10000**
B	**On site**	**Pond**	**1974**	**1:10000**
B	**On site**	**Unspecified Pit**	**1915**	**1:10560**
B	**On site**	**Pond**	**1965**	**1:10560**
C	**On site**	**Unspecified Ground Workings**	**1974**	**1:10000**
C	**On site**	**Unspecified Pits**	**1965**	**1:10560**
D	7m NW	Reservoir	1938	1:10560
D	7m NW	Reservoir	1928	1:10560
D	7m NW	Pond	1908	1:10560
D	9m NW	Reservoir	1974	1:10000
D	9m NW	Pond	1965	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
D	10m NW	Reservoir	1955	1:10560
E	15m N	Unspecified Pit	1981	1:10000
E	15m N	Unspecified Pit	1974	1:10000
E	15m N	Unspecified Pit	1965	1:10560
D	16m NW	Pond	1981	1:10000
4	39m NW	Pond	1891	1:10560
F	49m NW	Unspecified Ground Workings	1974	1:10000
F	49m NW	Unspecified Ground Workings	1965	1:10560
F	54m NW	Unspecified Pit	1928	1:10560
F	54m NW	Unspecified Pit	1938	1:10560
5	56m SW	Unspecified Heap	1981	1:10000
F	56m NW	Filter Beds	1908	1:10560
6	77m NE	Unspecified Pit	1965	1:10560
G	107m N	Pond	1981	1:10000
H	107m N	Reservoirs	1891	1:10560
H	108m N	Water Body	1851	1:10560
G	108m N	Unspecified Pit	1928	1:10560
G	108m N	Pond	1908	1:10560
G	108m N	Unspecified Pit	1938	1:10560
H	112m N	Reservoirs	1938	1:10560
H	112m N	Reservoirs	1928	1:10560
H	112m N	Reservoirs	1908	1:10560
G	113m N	Unspecified Pit	1955	1:10560
H	115m N	Reservoirs	1981	1:10000
H	115m N	Reservoirs	1974	1:10000
H	115m N	Ponds	1965	1:10560
H	115m N	Reservoirs	1955	1:10560
I	152m SE	Unspecified Ground Workings	1938	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
J	152m NW	Reservoirs	1938	1:10560
J	152m NW	Reservoirs	1891	1:10560
J	152m NW	Reservoirs	1928	1:10560
J	152m NW	Reservoirs	1908	1:10560
I	153m SE	Unspecified Ground Workings	1932	1:10560
J	154m NW	Reservoir	1981	1:10000
J	154m NW	Reservoir	1974	1:10000
J	154m NW	Water Body	1965	1:10560
K	157m NW	Sand Pit	1851	1:10560
J	158m NW	Reservoirs	1955	1:10560
7	159m W	Grave Yard	1851	1:10560
L	167m W	Pond	1851	1:10560
L	182m W	Pond	1891	1:10560
8	184m S	Pond	1907	1:10560
M	187m NE	Unspecified Pit	1981	1:10000
M	187m NE	Unspecified Pit	1974	1:10000
K	192m NW	Cuttings	1938	1:10560
K	192m NW	Cuttings	1928	1:10560
N	194m S	Ponds	1891	1:10560
O	219m SE	Pond	1981	1:10000
O	219m SE	Pond	1974	1:10000
O	219m SE	Pond	1965	1:10560
9	245m E	Unspecified Pit	1974	1:10000
N	245m S	Ponds	1923	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

Historical land uses identified from Ordnance Survey mapping that indicate the presence of underground workings e.g. mine shafts.

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

This data identifies underground mine workings that could present a potential risk, including adits and seam workings. These features have been identified from BGS Geological mapping and mine plans sourced from the BGS and various collections and sources.

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	1

Boundaries of mineral planning permissions for England and Wales. This data was collated between the 1940s (and retrospectively to the 1930s) and the mid 1980s. The data includes permitted, withdrawn and refused permissions.

Features are displayed on the Mining and ground workings map on **page 124 >**

ID	Location	Site Name	Mineral	Type	Planning Status	Planning Status Date
15	378m SE	Sandfield Farm	Sand and gravel	Surface mineral working	Valid	17/8/69

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	1

The potential for historical non-coal mining to have affected an area. The assessment is drawn from expert knowledge and literature in addition to the digital geological map of Britain. Mineral commodities may be divided into seven general categories - vein minerals, chalk, oil shale, building stone, bedded ores, evaporites and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

Features are displayed on the Mining and ground workings map on **page 124 >**

ID	Location	Name	Commodity	Class	Likelihood
31	856m NE	Not available	Vein Mineral	A	Underground mine workings are uncommon, although the geology is similar to that worked elsewhere. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

This data provides an indication of the potential zone of influence of recorded underground non-coal mining workings. Any and all analysis and interpretation of Coal Authority Data in this report is made by Groundsure, and is in no way supported, endorsed or authorised by the Coal Authority. The use of the data is restricted to the terms and provisions contained in this report. Data reproduced in this report may be the copyright of the Coal Authority and permission should be sought from Groundsure prior to any re-use.

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

This data indicates areas of potential mining identified from alternative or archival sources, including; BGS Geological paper maps, Lidar data, aerial photographs (from World War II onwards), archaeological data services, websites, Tithe maps, and various text/plans from collected books and reports. Some of this data is approximate and Groundsure have interpreted the resultant risk area and, where possible, specific areas of risk have been captured.

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

This dataset is representative of Mining Record Office and/or plan extents held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

This dataset is representative of BGS mine plans held by Groundsure and should be considered approximate. Where possible, plans have been located and any specific areas of risk they depict have been captured.

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	1

Areas which could be affected by past, current or future coal mining.

Location	Details
On site	**The site is located within a coal mining area as defined by the Coal Authority. A Consultants Coal Mining Report is recommended to further assess coal mining issues at the site. This can be ordered directly through Groundsure or your preferred search provider.**

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

This data is sourced from the Cheshire Brine Subsidence Compensation Board.

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

Generalised areas that may be affected by kaolin and ball clay extraction.

This data is sourced from the Kaolin and Ball Clay Association (UK).

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

Industry recognised national database of natural cavities. Sinkholes and caves are formed by the dissolution of soluble rock, such as chalk and limestone, gulls and fissures by cambering. Ground instability can result from movement of loose material contained within these cavities, often triggered by water.

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

Industry recognised national database of mining cavities. Degraded mines may result in hazardous subsidence (crown holes). Climatic conditions and water escape can also trigger subsidence over mine entrances and workings.

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

This data identifies sinkhole information gathered from media reports and Groundsure's own records. This data goes back to 2014 and includes relative accuracy ratings for each event and links to the original data sources. The data is updated on a regular basis and should not be considered a comprehensive catalogue of all sinkhole events. The absence of data in this database does not mean a sinkhole definitely has not occurred during this time.

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m	0

This dataset comprises an extract of 1:10,560, 1:10,000, 1:2,500 and 1:1,250 scale historical Ordnance Survey maps held by Groundsure, dating back to the 1840s. It shows shakeholes, deneholes and other 'holes' as noted on these maps. Dene holes are medieval chalk extraction pits, usually comprising a narrow shaft with a number of chambers at the base of the shaft. Shakeholes are an alternative name for suffusion sinkholes, most commonly found in the limestone landscapes of North Yorkshire but also extensively noted around the Brecon Beacons National Park.

Not all 'holes' noted on Ordnance Survey mapping will necessarily be present within this dataset.

This data is sourced from Groundsure.

19.5 National karst database

Records within 500m	0

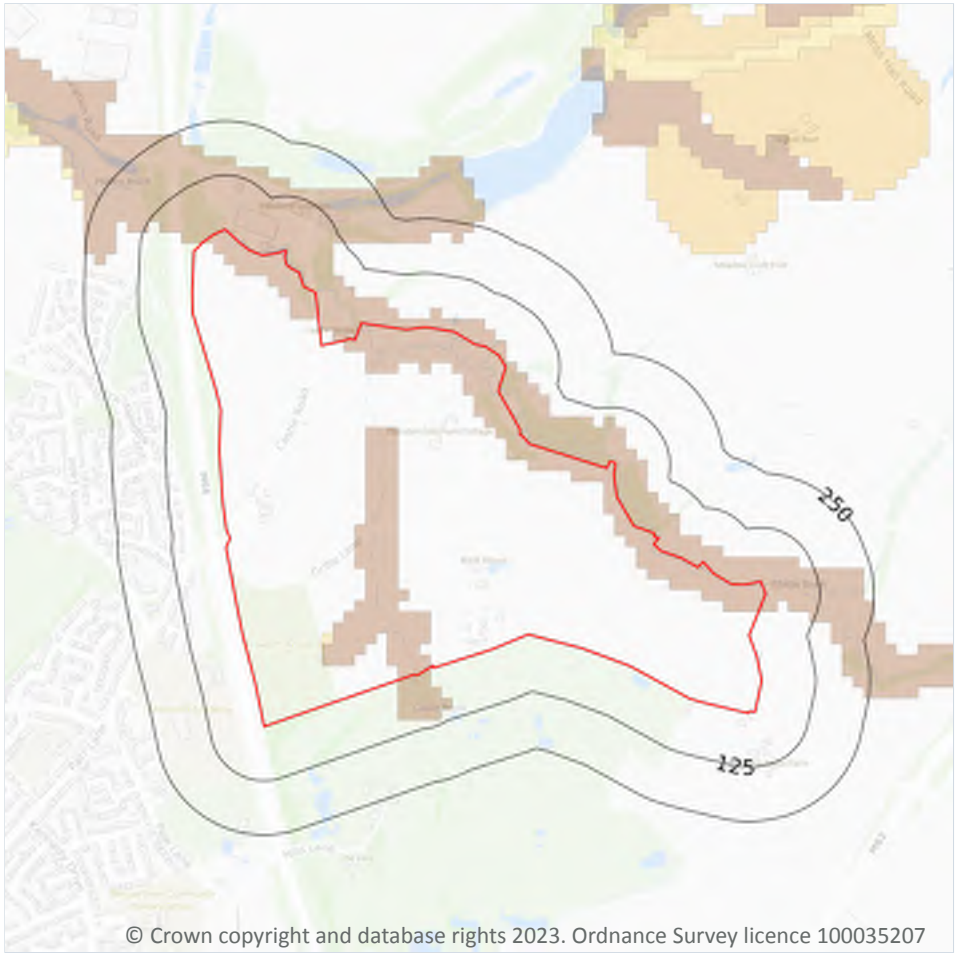
This is a comprehensive database of national karst information gathered from a wide range of sources. BGS have collected data on five main types of karst feature: Sinkholes, stream links, caves, springs, and incidences of associated damage to buildings, roads, bridges and other engineered works.

Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over 800 caves, 1300 stream sinks, 5600 springs, 10,000 sinkholes.

The database is not yet complete, and not all records have been verified. The absence of data does not mean that karst features are not present at a site. A reliability rating is included with each record.

This data is sourced from the British Geological Survey.

20 Radon



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Site Outline

Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

20.1 Radon

Records on site	3

The Radon Potential data classifies areas based on their likelihood of a property having a radon level at or above the Action Level in Great Britain. The dataset is intended for use at 1:50,000 scale and was derived from both geological assessments and indoor radon measurements (more than 560,000 records). A minimum 50m buffer should be considered when searching the maps, as the smallest detectable feature at this scale is 50m. The findings of this section should supersede any estimations derived from the Indicative Atlas of Radon in Great Britain (1:100,000 scale).

Features are displayed on the Radon map on **page 135 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 1% and 3%**	**None**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 10% and 30%**	**Full**
On site	**Less than 1%**	**None**

This data is sourced from the British Geological Survey and UK Health Security Agency.

21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m **19**

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km^2. In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km^2; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**40 - 60 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**No data**	**100 mg/kg**	**60 mg/kg**	**1.8 mg/kg**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
2m E	15 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
20m NW	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
34m E	15 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.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m	**0**

Estimated topsoil chemistry of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc and bioaccessible Arsenic and Lead in 23 urban centres across Great Britain. These estimates are derived from interpolation of the measured urban topsoil data referred to above and provide information across each city between the measured sample locations (4 per km^2).

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m	**0**

The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km^2.

This data is sourced from the British Geological Survey.

22 Railway infrastructure and projects



Site Outline

Search buffers in metres (m)

- Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

22.1 Underground railways (London)

Records within 250m	0

Details of all active London Underground lines, including approximate tunnel roof depth and operational hours.

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m	0

Details of the Merseyrail system, the Tyne and Wear Metro and the Glasgow Subway. Not all parts of all systems are located underground. The data contains location information only and does not include a depth assessment.

This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

22.4 Historical railway and tunnel features

Records within 250m	2

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 139 >**

Location	Land Use	Year of mapping	Mapping scale
187m S	Railway Sidings	1988	2500
188m S	Railway Sidings	1956	2500

This data is sourced from Ordnance Survey/Groundsure.

22.5 Royal Mail tunnels

Records within 250m	0

The Post Office Railway, otherwise known as the Mail Rail, is an underground railway running through Central London from Paddington Head District Sorting Office to Whitechapel Eastern Head Sorting Office. The line is 10.5km long. The data includes details of the full extent of the tunnels, the depth of the tunnel, and the depth to track level.

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m	0

Former railway lines, including dismantled lines, abandoned lines, disused lines, historic railways and razed lines.

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m	0

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways.

This data is sourced from Ordnance Survey and OpenStreetMap.

22.8 Crossrail 1

Records within 500m	0

The Crossrail railway project links 41 stations over 100 kilometres from Reading and Heathrow in the west, through underground sections in central London, to Shenfield and Abbey Wood in the east.

This data is sourced from publicly available information by Groundsure.

22.9 Crossrail 2

Records within 500m	0

Crossrail 2 is a proposed railway linking the national rail networks in Surrey and Hertfordshire via an underground tunnel through London.

This data is sourced from publicly available information by Groundsure.

22.10 HS2

Records within 500m	0

HS2 is a proposed high speed rail network running from London to Manchester and Leeds via Birmingham. Main civils construction on Phase 1 (London to Birmingham) of the project began in 2019, and it is currently anticipated that this phase will be fully operational by 2026. Construction on Phase 2a (Birmingham to Crewe) is anticipated to commence in 2021, with the service fully operational by 2027. Construction on Phase 2b (Crewe to Manchester and Birmingham to Leeds) is scheduled to begin in 2023 and be operational by 2033.

This data is sourced from HS2 ltd.

Data providers

Groundsure works with respected data providers to bring you the most relevant and accurate information. To find out who they are and their areas of expertise see https://www.groundsure.com/sources-reference .

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Groundsure LOCATION INTELLIGENCE

Enviro+Geo Insight

Northern Gateway

Order Details

Date: 11/12/2023

Your ref: Northern Gateway

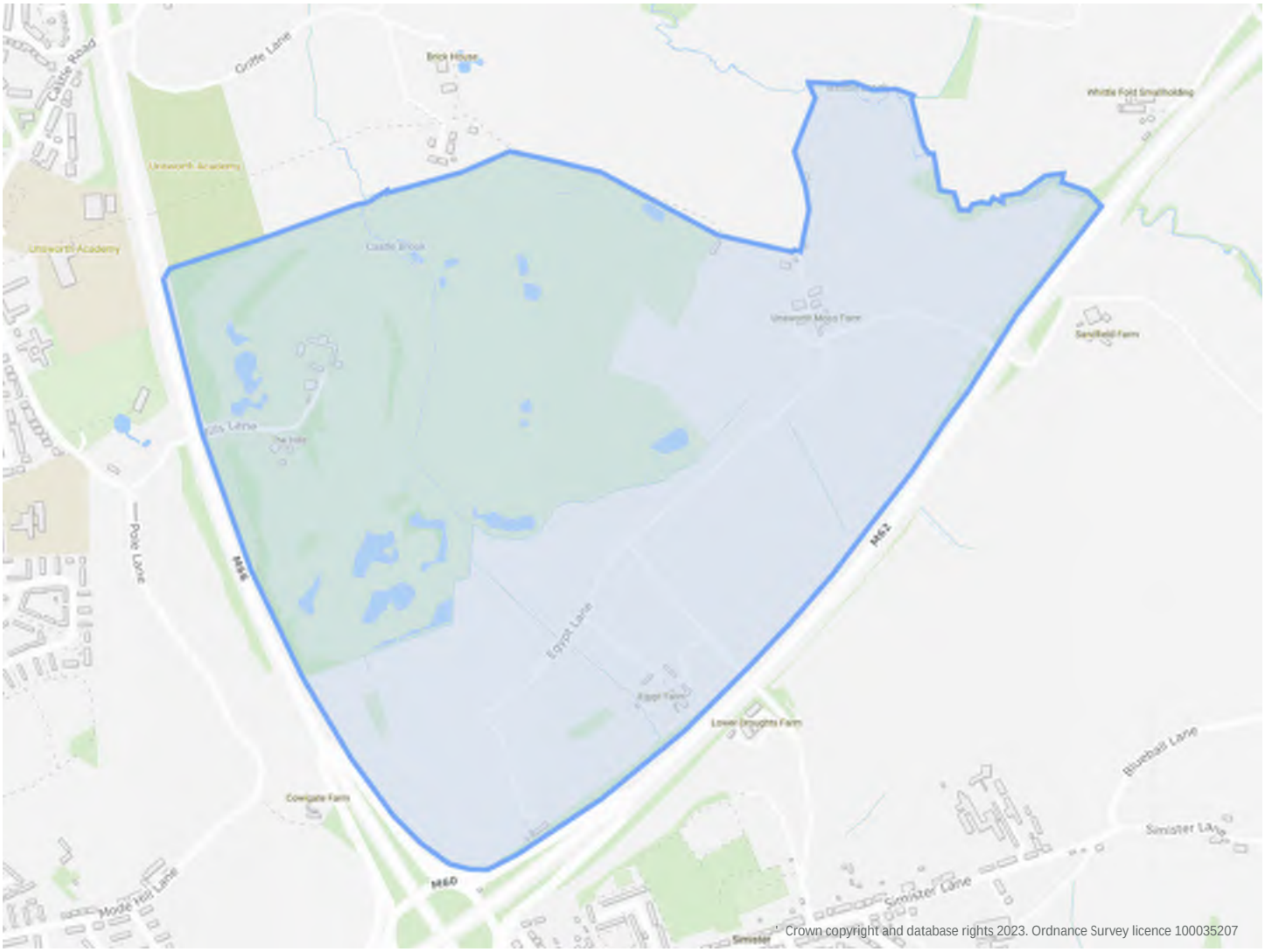
Our Ref: GSIP-2023-14200-16018_RR_F

Site Details

Location: 383360 407047

Area: 129.37 ha

Authority: Bury Metropolitan Borough Council , Rochdale Metropolitan Borough Council



Summary of findings p. 2 >

OS MasterMap site plan N/A: >10ha

Aerial image p. 9 >

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Contact us with any questions at:
info@groundsure.com
01273 257 755

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Summary of findings

Page	Section	Past land use >	On site	0-50m	50-250m	250-500m	500-2000m
13 >	1.1 >	Historical industrial land uses >	9	8	22	21	-
16 >	1.2 >	Historical tanks >	0	2	7	0	-
16 >	1.3 >	Historical energy features >	0	0	0	10	-
17 >	1.4 >	Historical petrol stations >	0	0	0	1	-
18	1.5	Historical garages	0	0	0	0	-
18	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
19 >	2.1 >	Historical industrial land uses >	14	10	28	31	-
23 >	2.2 >	Historical tanks >	0	3	10	0	-
23 >	2.3 >	Historical energy features >	0	0	0	20	-
24 >	2.4 >	Historical petrol stations >	0	0	0	1	-
25	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill >	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27 >	3.4 >	Historical landfill (EA/NRW records) >	0	0	0	3	-
28	3.5	Historical waste sites	0	0	0	0	-
28	3.6	Licensed waste sites	0	0	0	0	-
28 >	3.7 >	Waste exemptions >	16	0	12	67	-
Page	Section	Current industrial land use >	On site	0-50m	50-250m	250-500m	500-2000m
36 >	4.1 >	Recent industrial land uses >	1	6	6	-	-
37 >	4.2 >	Current or recent petrol stations >	0	0	0	1	-
38	4.3	Electricity cables	0	0	0	0	-
38	4.4	Gas pipelines	0	0	0	0	-
38	4.5	Sites determined as Contaminated Land	0	0	0	0	-

38	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
38	4.7	Regulated explosive sites	0	0	0	0	-
39	4.8	Hazardous substance storage/usage	0	0	0	0	-
39	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
39	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
39	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
40 >	4.13 >	Licensed Discharges to controlled waters >	2	0	8	2	-
42	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
42	4.15	Pollutant release to public sewer	0	0	0	0	-
42	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42 >	4.18 >	Pollution Incidents (EA/NRW) >	1	2	0	11	-
44	4.19	Pollution inventory substances	0	0	0	0	-
44	4.20	Pollution inventory waste transfers	0	0	0	0	-
45	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology >	On site	0-50m	50-250m	250-500m	500-2000m
46 >	5.1 >	Superficial aquifer >	Identified (within 500m)				
48 >	5.2 >	Bedrock aquifer >	Identified (within 500m)				
50 >	5.3 >	Groundwater vulnerability >	Identified (within 50m)				
53	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
54	5.5	Groundwater vulnerability- local information	None (within 0m)				
55 >	5.6 >	Groundwater abstractions >	8	0	0	0	11
60 >	5.7 >	Surface water abstractions >	0	0	0	0	9
63 >	5.8 >	Potable abstractions >	0	0	0	0	2
64	5.9	Source Protection Zones	0	0	0	0	-
64	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology >	On site	0-50m	50-250m	250-500m	500-2000m
65 >	6.1 >	Water Network (OS MasterMap) >	26	1	4	-	-

68 >	6.2 >	Surface water features >	1	0	8	-	-
68 >	6.3 >	WFD Surface water body catchments >	1	-	-	-	-
69 >	6.4 >	WFD Surface water bodies >	1	0	0	-	-
69 >	6.5 >	WFD Groundwater bodies >	1	-	-	-	-
Page	Section	River and coastal flooding >	On site	0-50m	50-250m	250-500m	500-2000m
70 >	7.1 >	Risk of flooding from rivers and the sea >	High (within 50m)				
71	7.2	Historical Flood Events	0	0	0	-	-
71	7.3	Flood Defences	0	0	0	-	-
71	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
71	7.5	Flood Storage Areas	0	0	0	-	-
72 >	7.6 >	Flood Zone 2 >	Identified (within 50m)				
73 >	7.7 >	Flood Zone 3 >	Identified (within 50m)				
Page	Section	Surface water flooding >					
74 >	8.1 >	Surface water flooding >	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding >					
76 >	9.1 >	Groundwater flooding >	Moderate (within 50m)				
Page	Section	Environmental designations >	On site	0-50m	50-250m	250-500m	500-2000m
77	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
78	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
78	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
78	10.4	Special Protection Areas (SPA)	0	0	0	0	0
78	10.5	National Nature Reserves (NNR)	0	0	0	0	0
79 >	10.6 >	Local Nature Reserves (LNR) >	0	0	0	0	2
79	10.7	Designated Ancient Woodland	0	0	0	0	0
79	10.8	Biosphere Reserves	0	0	0	0	0
79	10.9	Forest Parks	0	0	0	0	0
80	10.10	Marine Conservation Zones	0	0	0	0	0
80 >	10.11 >	Green Belt >	2	0	0	0	3
80	10.12	Proposed Ramsar sites	0	0	0	0	0

80	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
81	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
81	10.15	Nitrate Sensitive Areas	0	0	0	0	0
81 >	10.16 >	Nitrate Vulnerable Zones >	0	0	0	1	4
82 >	10.17 >	SSSI Impact Risk Zones >	3	-	-	-	-
83	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
84	11.1	World Heritage Sites	0	0	0	-	-
85	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
85	11.3	National Parks	0	0	0	-	-
85 >	11.4 >	Listed Buildings >	0	0	1	-	-
86	11.5	Conservation Areas	0	0	0	-	-
86	11.6	Scheduled Ancient Monuments	0	0	0	-	-
86	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations >	On site	0-50m	50-250m	250-500m	500-2000m
87 >	12.1 >	Agricultural Land Classification >	Grade 3 (within 250m)				
88	12.2	Open Access Land	0	0	0	-	-
88 >	12.3 >	Tree Felling Licences >	7	12	15	-	-
89	12.4	Environmental Stewardship Schemes	0	0	0	-	-
90	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations >	On site	0-50m	50-250m	250-500m	500-2000m
91 >	13.1 >	Priority Habitat Inventory >	16	1	2	-	-
92	13.2	Habitat Networks	0	0	0	-	-
92	13.3	Open Mosaic Habitat	0	0	0	-	-
93	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
94 >	14.1 >	10k Availability >	Identified (within 500m)				
95 >	14.2 >	Artificial and made ground (10k) >	15	3	10	8	-
98 >	14.3 >	Superficial geology (10k) >	7	3	8	10	-

100	14.4	Landslip (10k)	0	0	0	0	-
101 >	14.5 >	Bedrock geology (10k) >	2	0	3	3	-
102 >	14.6 >	Bedrock faults and other linear features (10k) >	4	2	9	9	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
104 >	15.1 >	50k Availability >	Identified (within 500m)				
105 >	15.2 >	Artificial and made ground (50k) >	0	0	1	0	-
106	15.3	Artificial ground permeability (50k)	0	0	-	-	-
107 >	15.4 >	Superficial geology (50k) >	6	1	5	6	-
108 >	15.5 >	Superficial permeability (50k) >	Identified (within 50m)				
109	15.6	Landslip (50k)	0	0	0	0	-
109	15.7	Landslip permeability (50k)	None (within 50m)				
110 >	15.8 >	Bedrock geology (50k) >	2	0	3	3	-
111 >	15.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
111 >	15.10 >	Bedrock faults and other linear features (50k) >	0	0	2	2	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
113 >	16.1 >	BGS Boreholes >	21	11	30	-	-
Page	Section	Natural ground subsidence >					
117 >	17.1 >	Shrink swell clays >	Very low (within 50m)				
119 >	17.2 >	Running sands >	Very low (within 50m)				
120 >	17.3 >	Compressible deposits >	High (within 50m)				
121 >	17.4 >	Collapsible deposits >	Very low (within 50m)				
122 >	17.5 >	Landslides >	Low (within 50m)				
124 >	17.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				
Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m
126 >	18.1 >	BritPits >	2	1	2	2	-
128 >	18.2 >	Surface ground workings >	43	18	24	-	-
131	18.3	Underground workings	0	0	0	0	0
131	18.4	Underground mining extents	0	0	0	0	-
132 >	18.5 >	Historical Mineral Planning Areas >	2	0	0	2	-

132	18.6	Non-coal mining	0	0	0	0	0
132	18.7	JPB mining areas	None (within 0m)				
133	18.8	The Coal Authority non-coal mining	0	0	0	0	-
133	18.9	Researched mining	0	0	0	0	-
133	18.10	Mining record office plans	0	0	0	0	-
133	18.11	BGS mine plans	0	0	0	0	-
134 >	18.12 >	Coal mining >	Identified (within 0m)				
134	18.13	Brine areas	None (within 0m)				
134	18.14	Gypsum areas	None (within 0m)				
134	18.15	Tin mining	None (within 0m)				
134	18.16	Clay mining	None (within 0m)				
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m
135	19.1	Natural cavities	0	0	0	0	-
135	19.2	Mining cavities	0	0	0	0	0
135	19.3	Reported recent incidents	0	0	0	0	-
135	19.4	Historical incidents	0	0	0	0	-
136	19.5	National karst database	0	0	0	0	-
Page	Section	Radon >					
137 >	20.1 >	Radon >	Between 10% and 30% (within 0m)				
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m
139 >	21.1 >	BGS Estimated Background Soil Chemistry >	34	8	-	-	-
141	21.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
142	21.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects >	On site	0-50m	50-250m	250-500m	500-2000m
143	22.1	Underground railways (London)	0	0	0	-	-
143	22.2	Underground railways (Non-London)	0	0	0	-	-
144	22.3	Railway tunnels	0	0	0	-	-
144 >	22.4 >	Historical railway and tunnel features >	2	0	0	-	-
144	22.5	Royal Mail tunnels	0	0	0	-	-

144	22.6	Historical railways	0	0	0	-	-
145	22.7	Railways	0	0	0	-	-
145	22.8	Crossrail 1	0	0	0	0	-
145	22.9	Crossrail 2	0	0	0	0	-
145	22.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 23/05/2019

Site Area: 129.37ha

Recent site history - 2015 aerial photograph



Capture Date: 11/06/2015

Site Area: 129.37ha

Recent site history - 2011 aerial photograph



Capture Date: 01/05/2011

Site Area: 129.37ha

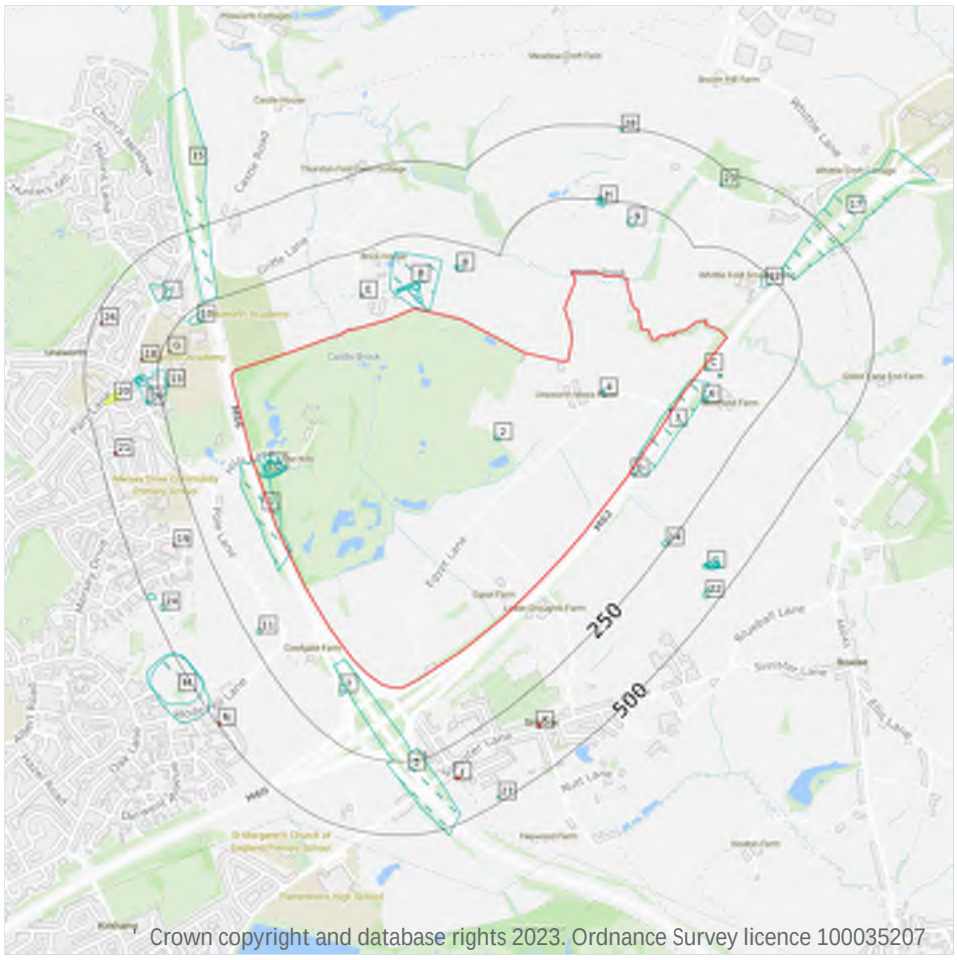
Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 129.37ha

1 Past land use



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical petrol stations

1.1 Historical industrial land uses

Records within 500m	60

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 13 >

ID	Location	Land use	Dates present	Group ID
1	On site	Cuttings	1981	642589

ID	Location	Land use	Dates present	Group ID
2	On site	Sand Pit	1851	643945
3	On site	Cuttings	1974 - 1981	698402
4	On site	Unspecified Ground Workings	1932 - 1938	715723
A	On site	Unspecified Pit	1891 - 1907	712337
A	On site	Unspecified Heap	1932	650987
A	On site	Unspecified Pits	1965	659194
A	On site	Refuse Heap	1938 - 1955	715339
A	On site	Gravel Pit	1915 - 1923	723570
B	3m N	Old Brick Field	1891	684716
C	7m E	Sand Pit	1851	643941
D	10m E	Unspecified Tank	1915	742534
D	13m E	Unspecified Tank	1932 - 1955	764469
D	18m E	Unspecified Tank	1923	695877
5	20m SW	Cuttings	1981	787437
B	22m N	Unspecified Pit	1907	691092
B	24m N	Unspecified Ground Workings	1891	733797
C	54m E	Unspecified Tank	1915	715433
C	57m E	Unspecified Tank	1932 - 1938	721008
C	61m E	Unspecified Tank	1923	781622
C	61m E	Unspecified Tank	1955	738766
B	64m N	Unspecified Ground Workings	1907	738009
B	64m N	Unspecified Ground Workings	1923 - 1932	741001
6	68m E	Sand Pit	1851	643943
7	84m SW	Sand Pit	1851	643951
E	100m NW	Unspecified Tank	1923	787789
E	102m NW	Unspecified Tank	1955	777068
E	105m NW	Unspecified Tank	1932 - 1938	740090
E	107m NW	Unspecified Tank	1915	779986

ID	Location	Land use	Dates present	Group ID
8	156m N	Unspecified Pit	1915	691088
9	170m NE	Unspecified Tank	1965	674848
10	198m NW	Unspecified Heap	1981	650932
11	201m SW	Sand Pit	1891	643944
12	208m NE	Unspecified Pit	1965	691091
13	211m W	Unspecified Tank	1891	674821
F	220m W	Smithy	1915	730689
H	221m NE	Unspecified Pit	1974	691090
H	227m NE	Unspecified Tank	1907	674849
14	230m E	Unspecified Pit	1965 - 1981	790529
15	254m NW	Cuttings	1981	642590
F	269m W	Smithy	1923	758900
F	282m W	Unspecified Works	1965 - 1974	717900
16	292m W	Smithy	1851	709969
17	294m NE	Cuttings	1974 - 1981	708487
F	307m W	Smithy	1891	708943
I	326m NW	Smithy	1891	693053
I	344m NW	Grave Yard	1851	668132
L	387m E	Old Sand Pit	1851 - 1891	772970
L	388m E	Unspecified Pit	1907 - 1923	701245
L	390m E	Unspecified Ground Workings	1932	720815
L	391m E	Unspecified Ground Workings	1938 - 1974	760086
L	404m E	Unspecified Ground Workings	1981	790830
22	446m SE	Old Sand Pit	1851	682507
23	446m NE	Sand Pit	1851	643778
24	453m SW	Unspecified Pit	1965	691093
M	461m SW	Nursery	1965 - 1981	732948
M	466m SW	Nursery	1932	788978

ID	Location	Land use	Dates present	Group ID
25	472m SW	Unspecified Pit	1907	691096
27	477m S	Unspecified Tank	1907	674882
28	486m NE	Sand Pit	1851	643777

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	9

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
D	17m E	Unspecified Tank	1956	84645
D	18m E	Unspecified Tank	1922 - 1932	103792
C	61m E	Unspecified Tank	1922 - 1932	94702
C	61m E	Unspecified Tank	1992	102948
C	61m E	Unspecified Tank	1956 - 1975	91698
E	100m NW	Unspecified Tank	1922 - 1932	93095
E	105m NW	Unspecified Tank	1956	84657
G	221m W	Unspecified Tank	1981	84659
G	222m W	Unspecified Tank	1973	84658

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	10

Energy features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding

or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
18	305m W	Electricity Substation	1973 - 1985	51199
19	344m W	Electricity Substation	1970 - 1987	54916
J	353m S	Electricity Substation	1969 - 1996	50576
J	355m S	Electricity Substation	1984	48367
K	355m S	Electricity Substation	1969 - 1996	53161
K	356m S	Electricity Substation	1984	50575
21	442m W	Electricity Substation	1968 - 1996	49729
26	475m W	Electricity Substation	1968 - 1969	52150
N	488m SW	Electricity Substation	1984 - 1992	50821
N	488m SW	Electricity Substation	1984	53694

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	1

Petrol stations digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use map on page 13 >

ID	Location	Land use	Dates present	Group ID
20	387m W	Filling Station	1968	1332

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	0

Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

This data is sourced from Ordnance Survey / Groundsure.

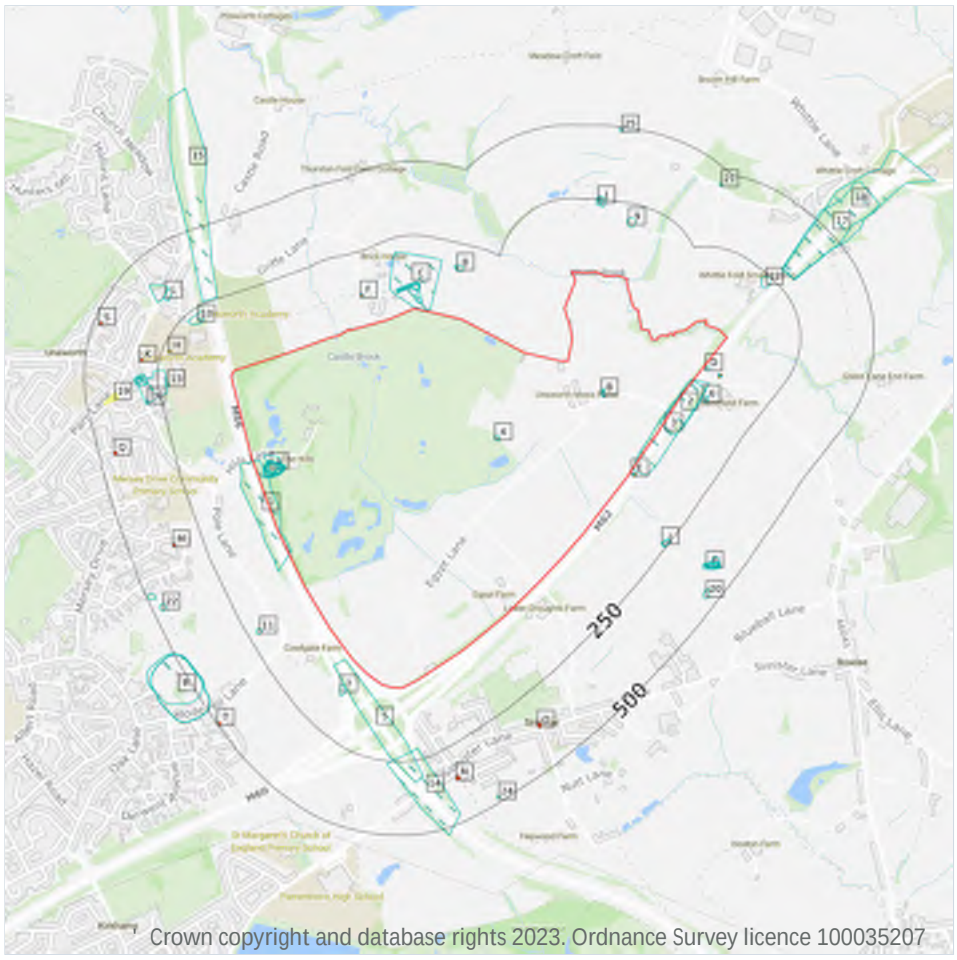
1.6 Historical military land

Records within 500m	0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.

2 Past land use - un-grouped



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Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical petrol stations

2.1 Historical industrial land uses

Records within 500m	83

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 19 >

ID	Location	Land Use	Date	Group ID
1	On site	Cuttings	1981	642589
2	On site	Cuttings	1981	698402
3	On site	Cuttings	1974	698402

ID	Location	Land Use	Date	Group ID
4	On site	Sand Pit	1851	643945
A	On site	Unspecified Pit	1907	712337
A	On site	Gravel Pit	1923	723570
A	On site	Unspecified Heap	1932	650987
A	On site	Unspecified Pit	1891	712337
A	On site	Unspecified Pits	1965	659194
A	On site	Refuse Heap	1955	715339
A	On site	Refuse Heap	1938	715339
A	On site	Gravel Pit	1915	723570
B	On site	Unspecified Ground Workings	1932	715723
B	On site	Unspecified Ground Workings	1938	715723
C	3m N	Old Brick Field	1891	684716
D	7m E	Sand Pit	1851	643941
E	10m E	Unspecified Tank	1915	742534
E	13m E	Unspecified Tank	1932	764469
E	13m E	Unspecified Tank	1938	764469
E	15m E	Unspecified Tank	1955	764469
E	18m E	Unspecified Tank	1923	695877
5	20m SW	Cuttings	1981	787437
C	22m N	Unspecified Pit	1907	691092
C	24m N	Unspecified Ground Workings	1891	733797
D	54m E	Unspecified Tank	1915	715433
D	57m E	Unspecified Tank	1932	721008
D	57m E	Unspecified Tank	1938	721008
D	61m E	Unspecified Tank	1923	781622
D	61m E	Unspecified Tank	1955	738766
C	64m N	Unspecified Ground Workings	1907	738009
C	64m N	Unspecified Ground Workings	1923	741001

ID	Location	Land Use	Date	Group ID
6	68m E	Sand Pit	1851	643943
C	75m N	Unspecified Ground Workings	1932	741001
7	84m SW	Sand Pit	1851	643951
F	100m NW	Unspecified Tank	1923	787789
F	102m NW	Unspecified Tank	1955	777068
F	105m NW	Unspecified Tank	1932	740090
F	105m NW	Unspecified Tank	1938	740090
F	107m NW	Unspecified Tank	1915	779986
8	156m N	Unspecified Pit	1915	691088
9	170m NE	Unspecified Tank	1965	674848
10	198m NW	Unspecified Heap	1981	650932
11	201m SW	Sand Pit	1891	643944
12	208m NE	Unspecified Pit	1965	691091
13	211m W	Unspecified Tank	1891	674821
14	212m S	Cuttings	1981	787437
G	220m W	Smithy	1915	730689
I	221m NE	Unspecified Pit	1974	691090
I	227m NE	Unspecified Tank	1907	674849
J	230m E	Unspecified Pit	1981	790529
J	230m E	Unspecified Pit	1974	790529
J	230m E	Unspecified Pit	1965	790529
15	254m NW	Cuttings	1981	642590
G	269m W	Smithy	1923	758900
G	282m W	Unspecified Works	1974	717900
G	285m W	Unspecified Works	1965	717900
16	292m W	Smithy	1851	709969
17	294m NE	Cuttings	1974	708487
18	302m NE	Cuttings	1981	708487

ID	Location	Land Use	Date	Group ID
G	307m W	Smithy	1891	708943
L	326m NW	Smithy	1891	693053
L	344m NW	Grave Yard	1851	668132
P	387m E	Old Sand Pit	1891	772970
P	388m E	Unspecified Pit	1915	701245
P	388m E	Unspecified Pit	1907	701245
P	388m E	Unspecified Pit	1923	701245
P	390m E	Unspecified Ground Workings	1932	720815
P	391m E	Unspecified Ground Workings	1938	760086
P	396m E	Unspecified Ground Workings	1974	760086
P	396m E	Unspecified Ground Workings	1965	760086
P	396m E	Unspecified Ground Workings	1955	760086
P	399m E	Old Sand Pit	1851	772970
P	404m E	Unspecified Ground Workings	1981	790830
20	446m SE	Old Sand Pit	1851	682507
21	446m NE	Sand Pit	1851	643778
22	453m SW	Unspecified Pit	1965	691093
R	461m SW	Nursery	1981	732948
R	461m SW	Nursery	1974	732948
R	461m SW	Nursery	1965	732948
R	466m SW	Nursery	1932	788978
23	472m SW	Unspecified Pit	1907	691096
24	477m S	Unspecified Tank	1907	674882
25	486m NE	Sand Pit	1851	643777

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	13

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 19 >

ID	Location	Land Use	Date	Group ID
E	17m E	Unspecified Tank	1956	84645
E	18m E	Unspecified Tank	1922	103792
E	18m E	Unspecified Tank	1932	103792
D	61m E	Unspecified Tank	1922	94702
D	61m E	Unspecified Tank	1932	94702
D	61m E	Unspecified Tank	1992	102948
D	61m E	Unspecified Tank	1956	91698
D	61m E	Unspecified Tank	1975	91698
F	100m NW	Unspecified Tank	1922	93095
F	100m NW	Unspecified Tank	1932	93095
F	105m NW	Unspecified Tank	1956	84657
H	221m W	Unspecified Tank	1981	84659
H	222m W	Unspecified Tank	1973	84658

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	20

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 19 >

ID	Location	Land Use	Date	Group ID
K	305m W	Electricity Substation	1981	51199

ID	Location	Land Use	Date	Group ID
K	306m W	Electricity Substation	1985	51199
K	306m W	Electricity Substation	1973	51199
M	344m W	Electricity Substation	1987	54916
M	344m W	Electricity Substation	1970	54916
N	353m S	Electricity Substation	1996	50576
N	355m S	Electricity Substation	1969	50576
N	355m S	Electricity Substation	1984	48367
O	355m S	Electricity Substation	1969	53161
O	356m S	Electricity Substation	1984	50575
O	357m S	Electricity Substation	1996	53161
Q	442m W	Electricity Substation	1968	49729
Q	442m W	Electricity Substation	1969	49729
Q	442m W	Electricity Substation	1996	49729
Q	443m W	Electricity Substation	1990	49729
S	475m W	Electricity Substation	1968	52150
S	475m W	Electricity Substation	1969	52150
T	488m SW	Electricity Substation	1984	50821
T	488m SW	Electricity Substation	1984	53694
T	489m SW	Electricity Substation	1992	50821

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	1

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'.

Features are displayed on the Past land use - un-grouped map on page 19 >

ID	Location	Land Use	Date	Group ID
19	387m W	Filling Station	1968	1332

This data is sourced from Ordnance Survey / Groundsure.

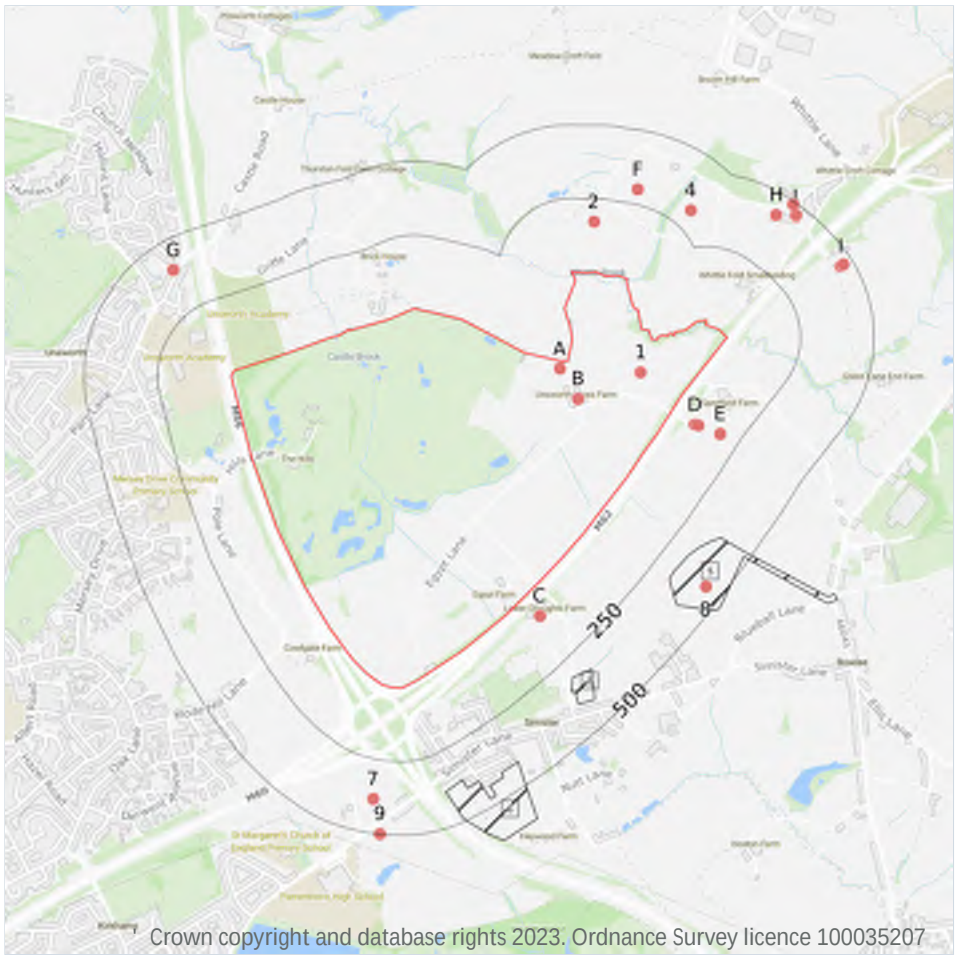
2.5 Historical garages

Records within 500m	0

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'.

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



Site Outline

Search buffers in metres (m)

Historical landfill (EA/NRW)

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.2 Historical landfill (BGS records)

Records within 500m	0

Landfill sites identified on a survey carried out on behalf of the DoE in 1973. These sites may have been closed or operational at this time.

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

Landfill sites identified from Local Authority records and high detail historical mapping.

This data is sourced from the Ordnance Survey/Groundsure and Local Authority records.

3.4 Historical landfill (EA/NRW records)

Records within 500m	3

Known historical (closed) landfill sites (e.g. sites where there is no PPC permit or waste management licence currently in force). This includes sites that existed before the waste licensing regime and sites that have been licensed in the past but where a licence has been revoked, ceased to exist or surrendered and a certificate of completion has been issued.

Features are displayed on the Waste and landfill map on page 26 >

ID	Location	Details		
3	309m SE	Site Address: Land at Egypt Lane, Simister, Bury, Greater Manchester Licence Holder Address: 115 Radcliffe New Road, Whitefield	Waste Licence: Yes Site Reference: C122, 01140 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: 31/07/1999	Operator: - Licence Holder: T J Murphy First Recorded - Last Recorded: -
5	322m SE	Site Address: Bowlee Sand QuarryBluebell Lane, Bluebell Lane, Bowlee, Bury Licence Holder Address: -	Waste Licence: - Site Reference: RD/LIC/338/84 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: - Licence Surrender: -	Operator: - Licence Holder: Terry Adams Limited First Recorded - Last Recorded: -
6	371m S	Site Address: Land to the South of Whitehouse Farm, Farm Lane, Simister, Bury, Greater Manchester Licence Holder Address: -	Waste Licence: Yes Site Reference: C096, RD/LIC/1046/93 Waste Type: Inert Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 23/02/1994 Licence Surrender: -	Operator: - Licence Holder: Costain Engineering and Construction Limited First Recorded 31/10/1993 Last Recorded: 25/05/1994

This data is sourced from the Environment Agency and Natural Resources Wales.

3.5 Historical waste sites

Records within 500m	0

Waste site records derived from Local Authority planning records and high detail historical mapping.

This data is sourced from Ordnance Survey/Groundsure and Local Authority records.

3.6 Licensed waste sites

Records within 500m	0

Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

This data is sourced from the Environment Agency and Natural Resources Wales.

3.7 Waste exemptions

Records within 500m	95

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 26 >

ID	Location	Site	Reference	Category	Sub-Category	Description
1	On site	-	WEX173397	Storing waste exemption	On a farm	Storage of sludge
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Disposing of waste exemption	On a Farm	Burning waste in the open
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX212727	Using waste exemption	On a Farm	Use of waste in construction
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Disposing of waste exemption	On a Farm	Burning waste in the open
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX203917	Using waste exemption	On a Farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX058159	Using waste exemption	On a farm	Use of waste in construction
A	On site	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
A	On site	Unsworth Moss Bungalow Simon Lane MANCHESTER M24 4SH	EPR/XE5689HU/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Using waste exemption	On a farm	Use of waste in construction
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX335447	Disposing of waste exemption	On a farm	Burning waste in the open
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Using waste exemption	On a farm	Use of waste in construction
A	On site	UNSWORTH MOSS BUNGALOW, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX342768	Disposing of waste exemption	On a farm	Burning waste in the open
B	On site	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX167290	Using waste exemption	On a farm	Use of waste in construction
B	On site	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX006923	Using waste exemption	On a farm	Use of waste in construction
B	On site	UNSWORTH MOSS FARM, SIMON LANE, MIDDLETON, MANCHESTER, M24 4SH	WEX304511	Using waste exemption	On a farm	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
C	82m SE	LOWER DROUGHTS FARM, EGYPT LANE, PRESTWICH, MANCHESTER, M25 2RU	WEX181068	Using waste exemption	On a farm	Use of waste in construction
C	82m SE	LOWER DROUGHTS FARM, EGYPT LANE, PRESTWICH, MANCHESTER, M25 2RU	WEX022744	Using waste exemption	On a farm	Use of waste in construction
C	82m SE	LOWER DROUGHTS FARM, EGYPT LANE, PRESTWICH, MANCHESTER, M25 2RU	WEX315464	Using waste exemption	Not on a farm	Use of waste in construction
D	92m E	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/SE5548EZ/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	103m E	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/HE5244GN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
2	169m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5750JS/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
E	181m E	-	WEX224909	Storing waste exemption	On a Farm	Storage of sludge
E	181m E	-	WEX148466	Storing waste exemption	On a Farm	Storage of sludge
E	181m E	-	WEX126623	Storing waste exemption	On a farm	Storage of sludge
E	181m E	-	WEX356536	Storing waste exemption	On a farm	Storage of sludge
E	181m E	-	WEX259793	Storing waste exemption	On a farm	Storage of sludge
E	181m E	-	WEX289499	Storing waste exemption	On a farm	Storage of sludge
F	298m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/NE5250JV/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
F	298m NE	Whittle Dairy Farm Heywood Lancashire OL10 2RD	EPR/CE5080ZD/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
4	316m NE	Whittle Dairy Farm Heywood Lancashire ol10 2rd	EPR/ZE5880ZF/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

ID	Location	Site	Reference	Category	Sub-Category	Description
7	386m S	-	WEX112720	Storing waste exemption	On a farm	Storage of sludge
G	398m NW	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Using waste exemption	On a Farm	Use of waste in construction
G	398m NW	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Using waste exemption	On a Farm	Use of waste for a specified purpose
G	398m NW	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
G	398m NW	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Disposing of waste exemption	On a Farm	Burning waste in the open
G	398m NW	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Storing waste exemption	On a Farm	Storage of waste in secure containers
G	398m NW	13, CASTLE ROAD, BURY, BL9 8JL	WEX225533	Storing waste exemption	On a Farm	Storage of waste in a secure place
H	428m NE	-	WEX207757	Storing waste exemption	On a Farm	Storage of sludge
H	428m NE	-	WEX207757	Disposing of waste exemption	On a Farm	Burning waste in the open
H	428m NE	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
H	428m NE	-	WEX207757	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
H	428m NE	-	WEX207757	Treating waste exemption	On a Farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
H	428m NE	-	WEX207757	Treating waste exemption	On a Farm	Aerobic composting and associated prior treatment
H	428m NE	-	WEX207757	Treating waste exemption	On a Farm	Recovery of scrap metal
H	428m NE	-	WEX207757	Treating waste exemption	On a Farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising

ID	Location	Site	Reference	Category	Sub-Category	Description
H	428m NE	-	WEX207757	Treating waste exemption	On a Farm	Screening and blending of waste
H	428m NE	-	WEX207757	Using waste exemption	On a Farm	Spreading of plant matter to confer benefit
H	428m NE	-	WEX207757	Using waste exemption	On a Farm	Use of mulch
H	428m NE	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on non-agricultural land to confer benefit
H	428m NE	-	WEX207757	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
H	428m NE	-	WEX336737	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
H	428m NE	-	WEX336737	Using waste exemption	On a farm	Spreading waste on non-agricultural land to confer benefit
H	428m NE	-	WEX336737	Using waste exemption	On a farm	Use of mulch
H	428m NE	-	WEX336737	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
H	428m NE	-	WEX336737	Treating waste exemption	On a farm	Screening and blending of waste
H	428m NE	-	WEX336737	Treating waste exemption	On a farm	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
H	428m NE	-	WEX336737	Treating waste exemption	On a farm	Recovery of scrap metal
H	428m NE	-	WEX336737	Treating waste exemption	On a farm	Aerobic composting and associated prior treatment
H	428m NE	-	WEX336737	Treating waste exemption	On a farm	Treatment of non-hazardous pesticide washings by carbon filtration for disposal
H	428m NE	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

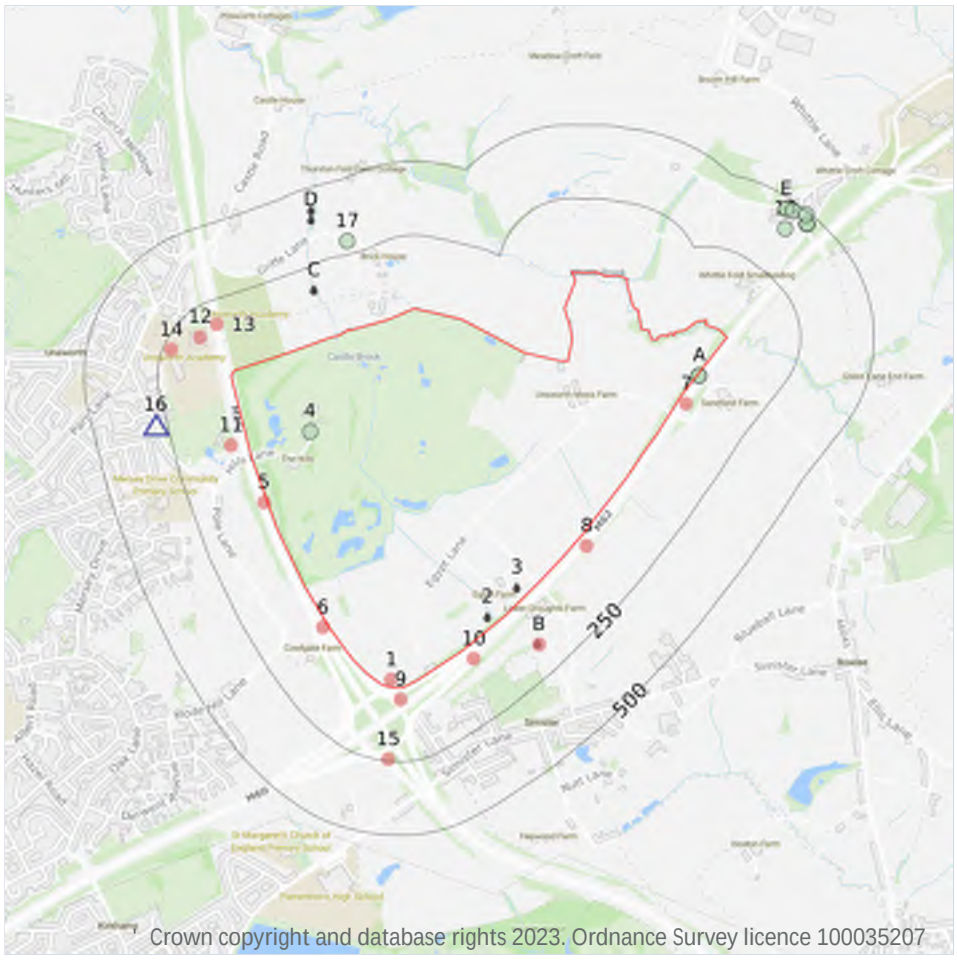
ID	Location	Site	Reference	Category	Sub-Category	Description
H	428m NE	-	WEX336737	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
H	428m NE	-	WEX336737	Disposing of waste exemption	On a farm	Burning waste in the open
H	428m NE	-	WEX336737	Storing waste exemption	On a farm	Storage of sludge
8	440m SE	-	WEX152238	Storing waste exemption	On a Farm	Storage of sludge
I	456m NE	-	WEX233836	Storing waste exemption	On a Farm	Storage of sludge
I	456m NE	-	WEX138347	Storing waste exemption	On a farm	Storage of sludge
I	456m NE	-	WEX087102	Storing waste exemption	On a farm	Storage of sludge
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Storing waste exemption	On a Farm	Storage of waste in a secure place
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX226699	Using waste exemption	On a Farm	Use of waste in construction
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste in construction
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of mulch
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste derived biodiesel as fuel
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX050409	Using waste exemption	On a farm	Use of waste for a specified purpose
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Storing waste exemption	On a farm	Storage of waste in a secure place

ID	Location	Site	Reference	Category	Sub-Category	Description
J	461m NE	WHITTLE LANE, HEYWOOD, OL10 2RD	WEX353284	Using waste exemption	On a farm	Use of waste in construction
I	466m NE	Wittle Brook Farm Wittle Lane Heywood OL10 2RN	EPR/RE5549EN/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
I	466m NE	Hesketh Villa Whittle Lane HEYWOOD Lancashire OL10 2RN	EPR/SE5956FR/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste food
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Screening and blending of waste
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Treating waste exemption	Both agricultural and non-agricultural waste	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit

ID	Location	Site	Reference	Category	Sub-Category	Description
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of mulch
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading of plant matter to confer benefit
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Burning of waste as a fuel in a small appliance
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste derived biodiesel as fuel
J	467m NE	Whittlefold Dairy Whittle Lane HEYWOOD Lancashire OL10 2RD	EPR/SH0678QG/A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
J	487m NE	WHITTLEFOLD FARM, WHITTLE LANE, HEYWOOD, OL10 2RD	WEX202425	Using waste exemption	Not on a farm	Use of waste in construction
9	500m S	MELLOWDEW FARM SIMISTER LANE M25 2SH	EPR/SE5048EL/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

This data is sourced from the Environment Agency and Natural Resources Wales.

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on page 36 >

ID	Location	Company	Address	Activity	Category
1	On site	Mast (Telecommunication)	Greater Manchester, M25	Telecommunications Features	Infrastructure and Facilities
5	13m W	Gantry	Greater Manchester, M45	Travelling Cranes and Gantries	Industrial Features

ID	Location	Company	Address	Activity	Category
6	20m SW	Gantry	Greater Manchester, M45	Travelling Cranes and Gantries	Industrial Features
7	29m E	Gantry	Greater Manchester, M24	Travelling Cranes and Gantries	Industrial Features
8	37m SE	Gantry	Greater Manchester, M25	Travelling Cranes and Gantries	Industrial Features
9	40m S	Electricity Sub Station	Greater Manchester, M25	Electrical Features	Infrastructure and Facilities
10	46m S	Gantry	Greater Manchester, M25	Travelling Cranes and Gantries	Industrial Features
11	58m W	Mast (Telecommunication)	Greater Manchester, BL9	Telecommunications Features	Infrastructure and Facilities
B	149m SE	Pumping Station	Greater Manchester, M25	Water Pumping Stations	Industrial Features
12	164m NW	Chimney	Greater Manchester, BL9	Chimneys	Industrial Features
13	170m NW	Gantry	Greater Manchester, BL9	Travelling Cranes and Gantries	Industrial Features
14	222m W	Chimney	Greater Manchester, BL9	Chimneys	Industrial Features
15	244m S	Gantry	Greater Manchester, M25	Travelling Cranes and Gantries	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on page 36 >

ID	Location	Company	Address	LPG	Status
16	290m W	OBSOLETE	Parr Lane, Unsworth, Bury, Greater Manchester, BL9 8JN	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0

Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

Sites registered and licensed by the Health and Safety Executive under the Manufacture and Storage of Explosives Regulations 2005 (MSER). The last update to this data was in April 2011.

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

Consents granted for a site to hold certain quantities of hazardous substances at or above defined limits in accordance with the Planning (Hazardous Substances) Regulations 2015.

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

Integrated Pollution Control (IPC) records of substance releases to air, land and water. This data represents a historical archive as the IPC regime has been superseded.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

Records of Part A(1) installations regulated under the Environmental Permitting (England and Wales) Regulations 2016 for the release of substances to the environment.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.11 Licensed pollutant release (Part A(2)/B)

Records within 500m	0

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.

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	12

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 36 >

ID	Location	Address	Details	
2	On site	EGYPT FARM SWO, BOWLEE, WHITEFIELD, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991073 Permit Version: 1 Receiving Water: TRIB CASTLE BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 01/07/1991
3	On site	EGYPT FARM, PRESTWICH, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016991074 Permit Version: 1 Receiving Water: TRIB CASTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 23/12/1985 Revocation Date: -
B	143m SE	SIMISTER SPS, PRESTWICH, BURY, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - EMERGENCY DISCHARGES Permit Number: 016982166 Permit Version: 1 Receiving Water: TO DITCH	Status: CONSENT REVOKED OR REVISED - NEW CONSENT ISSUED (37(1)) Issue date: - Effective Date: 01/01/1900 Revocation Date: 01/01/1900
B	143m SE	SIMISTER LANE WW NTWK PS (09013), REAR OF LOWER DROUGHTS FARM, EGYPT LANE, PRESTWICH, BURY, M25 2RU	Effluent Type: SEWAGE DISCHARGES - UNSPECIFIED - WATER COMPANY Permit Number: 01BRY0062 Permit Version: 1 Receiving Water: UNNAMED WATERCOURSE	Status: VARIED UNDER EPR 2010 Issue date: - Effective Date: 01/04/1991 Revocation Date: 02/09/2010
B	143m SE	SIMISTER LANE WW NTWK PS (09013), REAR OF LOWER DROUGHTS FARM, EGYPT LANE, PRESTWICH, BURY, M25 2RU	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 01BRY0062 Permit Version: 2 Receiving Water: UNNAMED WATERCOURSE	Status: VARIED UNDER EPR 2010 Issue date: 03/09/2010 Effective Date: 03/09/2010 Revocation Date: 09/06/2016

ID	Location	Address	Details	
B	143m SE	SIMISTER LANE WW NTWK PS (09013), REAR OF LOWER DROUGHTS FARM, EGYPT LANE, PRESTWICH, BURY, M25 2RU	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: 01BRY0062 Permit Version: 3 Receiving Water: TRIBUTARY OF WHITTLE BROOK	Status: VARIED UNDER EPR 2010 Issue date: 10/06/2016 Effective Date: 10/06/2016 Revocation Date: -
C	171m NW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
C	171m NW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
C	171m NW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
C	171m NW	PIKE FOLD GOLF CLUB STP, BACK O'TH MOSS FARM, HILLS LANE, UNSWORTH, BURY, GREATER MANCHESTER, BL9 8QP	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993257 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: NEW CONSENT (WRA 91, S88 & SCHED 10 AS AMENDED BY ENV ACT 1995) Issue date: - Effective Date: 27/01/1999 Revocation Date: -
D	395m NW	CASTLEBROOK FARM SEPTIC TANK, CASTLE ROAD, UNSWORTH, BURY, GREATER MANCHESTER	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016993185 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 10/06/1997 Revocation Date: -
D	423m NW	THE BUNGALOW, PILSWORTH COTTAGES, PILSWORTH, BURY, LANCASHIRE	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990429 Permit Version: 1 Receiving Water: CASTLE BROOK	Status: PRE NRA LEGISLATION WHERE ISSUE DATE 01-SEP-89 (HISTORIC ONLY) Issue date: - Effective Date: 14/07/1983 Revocation Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

Discharges of specified substances under the Environmental Protection (Prescribed Processes and Substances) Regulations 1991.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.16 List 1 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List I of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.17 List 2 Dangerous Substances

Records within 500m	0

Discharges of substances identified on List II of European Directive E 2006/11/EC, and regulated under the Environmental Damage (Prevention and Remediation) Regulations 2015.

This data is sourced from the Environment Agency and Natural Resources Wales.

4.18 Pollution Incidents (EA/NRW)

Records within 500m	14

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 36 >

ID	Location	Details	
4	On site	Incident Date: 22/10/2002 Incident Identification: 116201 Pollutant: Sewage Materials Pollutant Description: Final Effluent	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	6m E	Incident Date: 19/11/2002 Incident Identification: 121765 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
A	6m E	Incident Date: 19/11/2002 Incident Identification: 121765 Pollutant: General Biodegradable Materials and Wastes Pollutant Description: Food and Drink	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
17	294m NW	Incident Date: 29/03/2002 Incident Identification: 67581 Pollutant: Specific Waste Materials Pollutant Description: Other Specific Waste Material	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 3 (Minor)
18	410m NE	Incident Date: 03/05/2002 Incident Identification: 76525 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	465m NE	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	465m NE	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	465m NE	Incident Date: 25/09/2001 Incident Identification: 32817 Pollutant: Inert Materials and Wastes:Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes:Soils and Clay	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	466m NE	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials:Specific Waste Materials:Specific Waste Materials Pollutant Description: Commercial Waste:Household Waste:Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

ID	Location	Details	
E	466m NE	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Household Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	466m NE	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Tyres	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	466m NE	Incident Date: 05/11/2002 Incident Identification: 118825 Pollutant: Specific Waste Materials Pollutant Description: Commercial Waste	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	472m NE	Incident Date: 26/09/2001 Incident Identification: 33123 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
E	489m NE	Incident Date: 19/04/2001 Incident Identification: 2774 Pollutant: Inert Materials and Wastes Pollutant Description: Construction and Demolition Materials and Wastes	Water Impact: Category 4 (No Impact) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)

This data is sourced from the Environment Agency and Natural Resources Wales.

4.19 Pollution inventory substances

Records within 500m	0

The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

4.20 Pollution inventory waste transfers

Records within 500m	0

The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

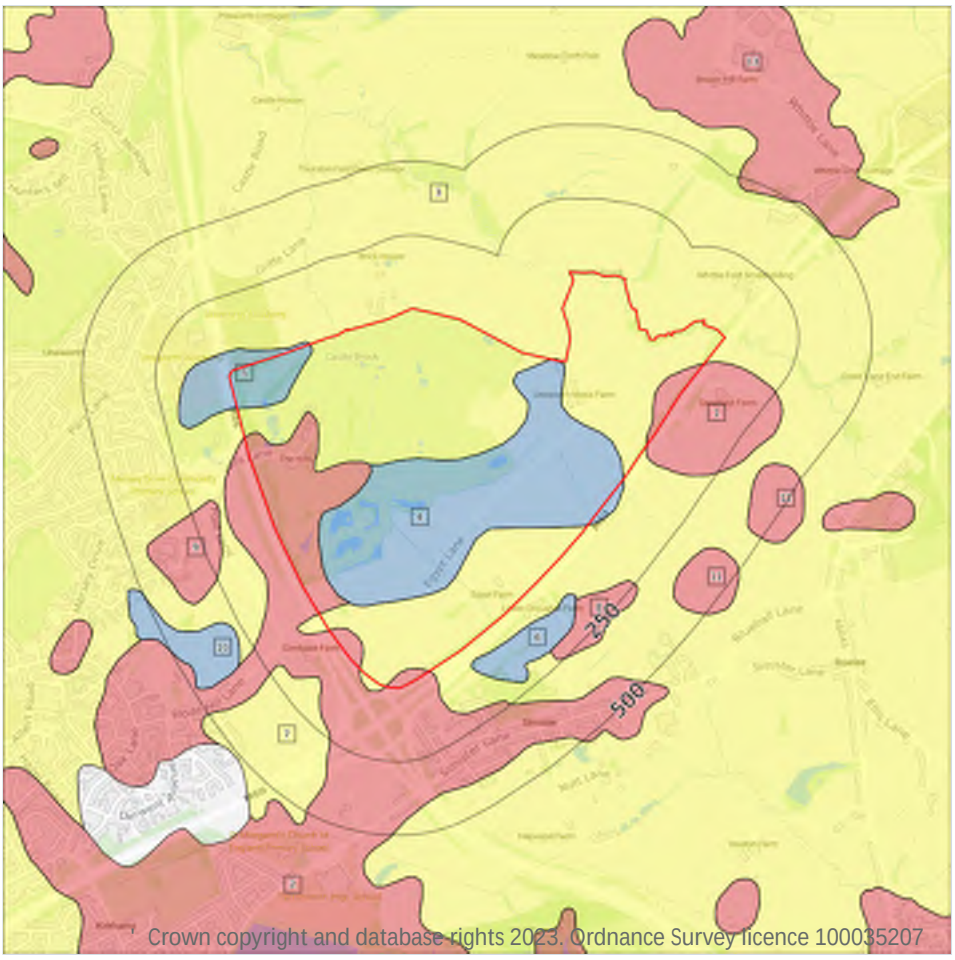
4.21 Pollution inventory radioactive waste

Records within 500m	0

The pollution inventory (radioactive wastes) includes reporting on annual releases of radioactive substances from a site, including the means of release. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

This data is sourced from the Environment Agency and the Scottish Environment Protection Agency.

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

- Principal
- Secondary A
- Secondary B
- Secondary Undifferentiated
- Unproductive
- Unknown

5.1 Superficial aquifer

Records within 500m	13

Aquifer status of groundwater held within superficial geology.

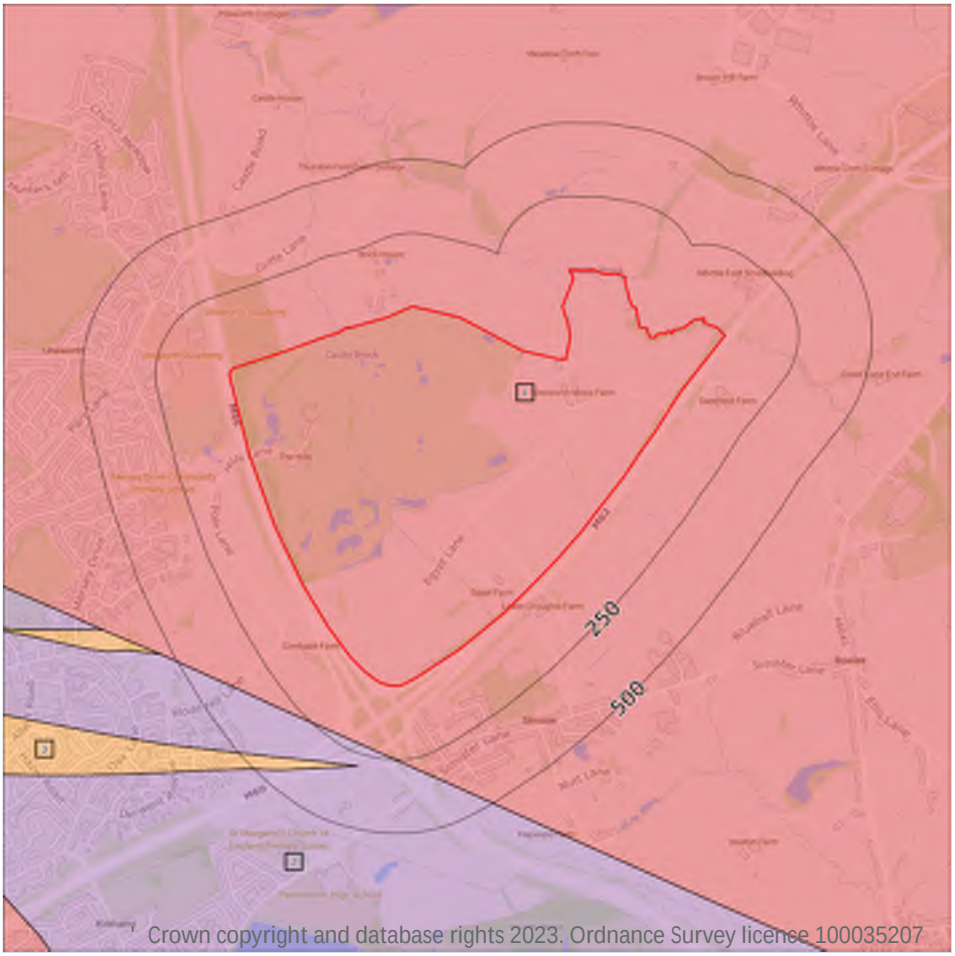
Features are displayed on the Hydrogeology map on page 46 >

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	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

ID	Location	Designation	Description
3	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type.° In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
4	On site	Unproductive	These are°rock layers or drift deposits°with low permeability that have negligible significance for water supply or river base flow
5	On site	Unproductive	These are°rock layers or drift deposits°with low permeability that have negligible significance for water supply or river base flow
6	55m S	Unproductive	These are°rock layers or drift deposits°with low permeability that have negligible significance for water supply or river base flow
7	123m SW	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type.° In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
8	134m SE	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
9	157m 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
10	275m SW	Unproductive	These are°rock layers or drift deposits°with low permeability that have negligible significance for water supply or river base flow
11	345m SE	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
12	367m 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
13	461m NE	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	3

Aquifer status of groundwater held within bedrock geology.

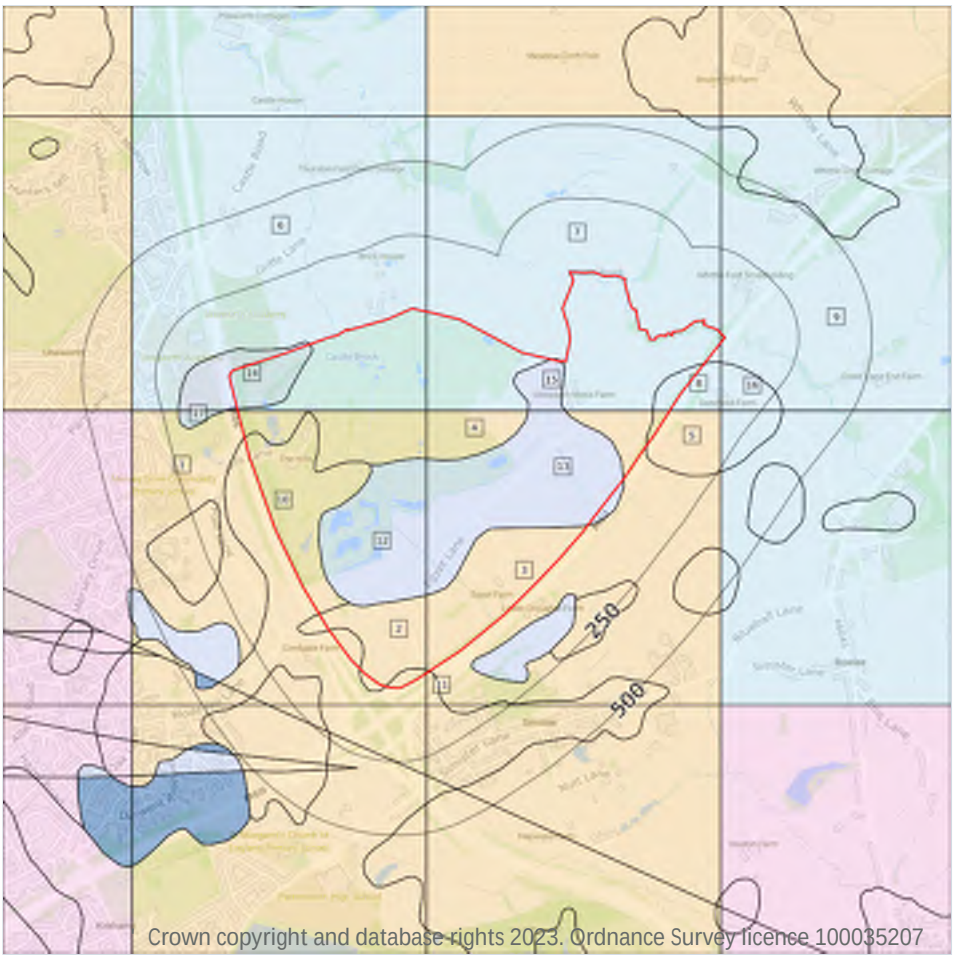
Features are displayed on the Bedrock aquifer map on page 48 >

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	218m S	Principal	Geology of high intergranular and/or fracture permeability, usually providing a high level of water storage and may support water supply/river base flow on a strategic scale.˚ Generally principal aquifers were previously major aquifers

ID	Location	Designation	Description
3	294m S	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeablehorizons and weathering. These are generally the water-bearing parts of the former non-aquifers

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability
- Principal superficial aquifer, high vulnerability
- Secondary superficial aquifer, high vulnerability
- Principal superficial aquifer, medium vulnerability
- Secondary superficial aquifer, medium vulnerability
- Principal superficial aquifer, low vulnerability
- Secondary superficial aquifer, low vulnerability

Bedrock vulnerability
- Principal bedrock aquifer, high vulnerability
- Secondary bedrock aquifer, high vulnerability
- Principal bedrock aquifer, medium vulnerability
- Secondary bedrock aquifer, medium vulnerability
- Principal bedrock aquifer, low vulnerability
- Secondary bedrock aquifer, low vulnerability

Other information
- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	17

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 50 >

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
3	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
4	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
5	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
6	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
7	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
8	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
9	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
10	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
11	On site	Summary Classification: Secondary superficial aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: High Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
12	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
13	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
14	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
15	On site	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
16	41m E	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
17	43m W	Summary Classification: Secondary bedrock aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Unproductive Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: >550mm/year	Vulnerability: Unproductive Aquifer type: Unproductive Thickness: >10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures

This data is sourced from the British Geological Survey, the Environment Agency and Natural Resources Wales.

5.4 Groundwater vulnerability- soluble rock risk

Records on site	0

This dataset identifies areas where solution features that enable rapid movement of a pollutant may be present within a 1km grid square.

This data is sourced from the British Geological Survey and the Environment Agency.

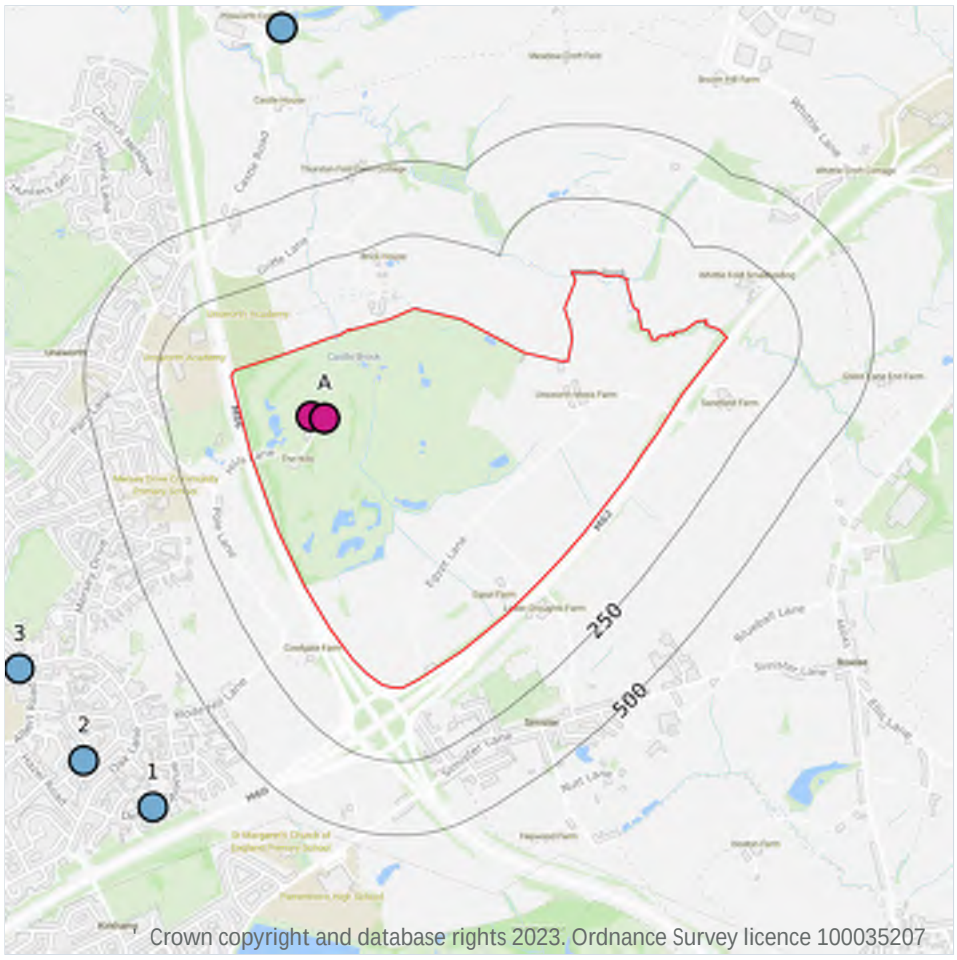
5.5 Groundwater vulnerability- local information

Records on site	0

This dataset identifies areas where additional local information affecting vulnerability is held by the Environment Agency. Further information can be obtained by contacting the Environment Agency local Area groundwater team through the Environment Agency National Customer Call Centre on 03798 506 506 or by email on enquiries@environment-agency.gov.uk .

This data is sourced from the British Geological Survey and the Environment Agency.

Abstractions and Source Protection Zones



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Site Outline

Search buffers in metres (m)

- Source Protection Zone 1 — Inner catchment
- Source Protection Zone 2 — Outer catchment
- Source Protection Zone 3 — Total catchment
- Source Protection Zone 4 — Zone of Special Interest
- Source Protection Zone 1c — Inner catchment - confined aquifer
- Source Protection Zone 2c — Outer catchment - confined aquifer
- Source Protection Zone 3c — Total catchment - confined aquifer
- Drinking water abstraction licences
- Drinking water abstraction licences — Polygon features
- Drinking water abstraction licences — Linear features
- Groundwater abstraction licence (point)
- Groundwater abstraction licence (area)
- Groundwater abstraction licence (linear)
- Surface Water Abstractions (point)
- Surface Water Abstractions (area)
- Surface Water Abstractions (linear)

5.6 Groundwater abstractions

Records within 2000m	19

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 55 >

ID	Location	Details	
A	On site	Status: Active Licence No: 2569002273/R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	On site	Status: Active Licence No: 2569002273/R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 200 Original Application No: NPS/WR/012614 Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	On site	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
A	On site	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR R MONAGHAN MR H ADAMS MR G RYAN MR P BRADLEY Easting: 382600 Northing: 406980	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -

ID	Location	Details	
A	On site	Status: Historical Licence No: 2569002273 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
A	On site	Status: Historical Licence No: 2569002273 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 08/07/2005 Expiry Date: 31/03/2014 Issue No: 3 Version Start Date: 21/12/2007 Version End Date: -
A	On site	Status: Historical Licence No: 2569002273R01 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -
A	On site	Status: Historical Licence No: 2569002273R01 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT HILLS LANE UNSWORTH BURY Data Type: Point Name: MR RAY MONAGHAN MR HARRY ADAMS MR GED RYAN MR PAUL BRADLEY Easting: 382647 Northing: 406975	Annual Volume (m^3): 8000 Max Daily Volume (m^3): 100 Original Application No: - Original Start Date: 01/04/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2014 Version End Date: -

ID	Location	Details	
-	1301m N	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1467m W	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: "A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY" Data Type: Point Name: BURY GOLF CLUB Easting: 380970 Northing: 407670	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16-Apr-07 Issue No: 100 Version Start Date: 17/04/1997 Version End Date: -
-	1467m W	Status: Historical Licence No: 2569002264 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m^3): 9000 Max Daily Volume (m^3): 55 Original Application No: - Original Start Date: 17/04/1997 Expiry Date: 16/04/2007 Issue No: 101 Version Start Date: 27/01/2004 Version End Date: 16/04/2007
-	1467m W	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380970 Northing: 407670	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -

ID	Location	Details	
-	1474m W	Status: Active Licence No: 2569002264R02 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: Bury Golf Club Limited Easting: 380963 Northing: 407673	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: NPS/WR/016967 Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 01/04/2015 Version End Date: -
-	1474m W	Status: Historical Licence No: 2569002264R1 Details: Spray Irrigation - Direct Direct Source: Ground Water - North West Region Point: A BOREHOLE AT BURY GOLF CLUB, BLACKFORD BRIDGE, BURY Data Type: Point Name: RAYMOND ADAMS Easting: 380963 Northing: 407673	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 50 Original Application No: - Original Start Date: 01/06/2007 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 01/04/2008 Version End Date: -
-	1593m W	Status: Active Licence No: 2569004042 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD Data Type: Point Name: DANISH CROWN UK LIMITED Easting: 380900 Northing: 406300	Annual Volume (m^3): 7000 Max Daily Volume (m^3): 21 Original Application No: 2396B Original Start Date: 18/07/1973 Expiry Date: - Issue No: 102 Version Start Date: 01/04/2008 Version End Date: -
-	1593m W	Status: Historical Licence No: 2569004042 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, STANLEY ROAD, WHITEFIELD" Data Type: Point Name: DANISH BACON INDEPENDENT DBI LTD Easting: 380900 Northing: 406300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 18/07/1973 Expiry Date: - Issue No: 100 Version Start Date: 01/07/1986 Version End Date: -

ID	Location	Details	
-	1659m N	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: NPS/NA/001648 Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1697m NW	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1697m NW	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.7 Surface water abstractions

Records within 2000m	9

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 55 >

ID	Location	Details	
1	844m SW	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "A"WHITEFIELD BROOK AT WHITEFIELD, MANCHESTER Data Type: Point Name: Onsite Central Limited Easting: 382063 Northing: 405654	Annual Volume (m^3): 0.001 Max Daily Volume (m^3): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -
2	948m SW	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "B"ON WHITEFIELD BROOKE WHITEFIELD, MANCHESTER Data Type: Point Name: Onsite Central Limited Easting: 381829 Northing: 405811	Annual Volume (m^3): 0.001 Max Daily Volume (m^3): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -
3	995m SW	Status: Historical Licence No: NW/069/0004/002 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: POINT "C"ON WHITFIELD BROOK Data Type: Point Name: Onsite Central Limited Easting: 381610 Northing: 406123	Annual Volume (m^3): 0.001 Max Daily Volume (m^3): 0.001 Original Application No: - Original Start Date: 01/11/2011 Expiry Date: 27/11/2011 Issue No: 1 Version Start Date: 01/11/2011 Version End Date: -
B	1048m N	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -

ID	Location	Details	
B	1048m N	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
B	1048m N	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
B	1048m N	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
B	1048m N	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

ID	Location	Details	
B	1048m N	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m^3): 118198 Max Daily Volume (m^3): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.8 Potable abstractions

Records within 2000m	2

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.

Features are displayed on the Abstractions and Source Protection Zones map on page 55 >

ID	Location	Details	
-	1697m NW	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1697m NW	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

This data is sourced from the Environment Agency and Natural Resources Wales.

5.9 Source Protection Zones

Records within 500m	0

Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

This data is sourced from the Environment Agency and Natural Resources Wales.

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

Source Protection Zones in the confined aquifer define the sensitivity around a deep groundwater abstraction to contamination. A confined aquifer would normally be protected from contamination by overlying geology and is only considered a sensitive resource if deep excavation/drilling is taking place.

This data is sourced from the Environment Agency and Natural Resources Wales.

6 Hydrology



6.1 Water Network (OS MasterMap)

Records within 250m	31

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 65 >

ID	Location	Type of water feature	Ground level	Permanence	Name
1	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
2	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
3	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
4	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Whittle Brook
5	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
A	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
B	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
D	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
E	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
G	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
H	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

ID	Location	Type of water feature	Ground level	Permanence	Name
I	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
J	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook
J	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	Castle Brook
K	On site	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
K	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
L	On site	Inland river not influenced by normal tidal action.	Underground	Watercourse contains water year round (in normal circumstances)	-
M	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
N	On site	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
Q	10m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook

ID	Location	Type of water feature	Ground level	Permanence	Name
S	51m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
23	60m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Whittle Brook
24	69m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
T	109m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	Castle Brook

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	9

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 65 >

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 65 >

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
18	On site	River	Whittle Brook (Irwell)	GB112069061250	Roch Irk Medlock	Irwell

This data is sourced from the Environment Agency and Natural Resources Wales.

6.4 WFD Surface water bodies

Records identified	1

Surface water bodies under the Directive may be rivers, lakes, estuary or coastal. To achieve the purpose of the Directive, environmental objectives have been set and are reported on for each water body. The progress towards delivery of the objectives is then reported on by the relevant competent authorities at the end of each six-year cycle. The river water body directly associated with the catchment listed in the previous section is detailed below, along with any lake, canal, coastal or artificial water body within 250m of the site. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each water body listed.

Features are displayed on the Hydrology map on page 65 >

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
19	On site	River	Whittle Brook (Irwell)	GB112069061250 !	Moderate	Fail	Moderate	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

6.5 WFD Groundwater bodies

Records on site	1

Groundwater bodies are also covered by the Directive and the same regime of objectives and reporting detailed in the previous section is in place. Click on the water body ID in the table to visit the EA Catchment Explorer to find out more about each groundwater body listed.

Features are displayed on the Hydrology map on page 65 >

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
20	On site	Northern Manchester Carboniferous Aquifers	GB41202G101800 !	Poor	Poor	Good	2019

This data is sourced from the Environment Agency and Natural Resources Wales.

7 River and coastal flooding



Site Outline

Search buffers in metres (m)

River and coastal flooding:

- High
- Medium
- Low
- Very Low
- Historical Flood Events
- Areas Used for Flood Storage
- Areas Benefiting from Flood Defences
- Flood Defences

7.1 Risk of flooding from rivers and the sea

Records within 50m	11

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 70 >

Distance	Flood risk category
On site	High
0 - 50m	High

This data is sourced from the Environment Agency and Natural Resources Wales.

7.2 Historical Flood Events

Records within 250m	0

Records of historic flooding from rivers, the sea, groundwater and surface water. Records began in 1946 when predecessor bodies started collecting detailed information about flooding incidents, although limited details may be included on flooding incidents prior to this date. Takes into account the presence of defences, structures, and other infrastructure where they existed at the time of flooding, and includes flood extents that may have been affected by overtopping, breaches or blockages.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.3 Flood Defences

Records within 250m	0

Records of flood defences owned, managed or inspected by the Environment Agency and Natural Resources Wales. Flood defences can be structures, buildings or parts of buildings. Typically these are earth banks, stone and concrete walls, or sheet-piling that is used to prevent or control the extent of flooding.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

Areas that would benefit from the presence of flood defences in a 1 in 100 (1%) chance of flooding each year from rivers or 1 in 200 (0.5%) chance of flooding each year from the sea.

This data is sourced from the Environment Agency and Natural Resources Wales.

7.5 Flood Storage Areas

Records within 250m	0

Areas that act as a balancing reservoir, storage basin or balancing pond to attenuate an incoming flood peak to a flow level that can be accepted by the downstream channel or to delay the timing of a flood peak so that its volume is discharged over a longer period.

This data is sourced from the Environment Agency and Natural Resources Wales.

River and coastal flooding - Flood Zones



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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 70 >

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

This data is sourced from the Environment Agency and Natural Resources Wales.

7.7 Flood Zone 3

Records within 50m	1

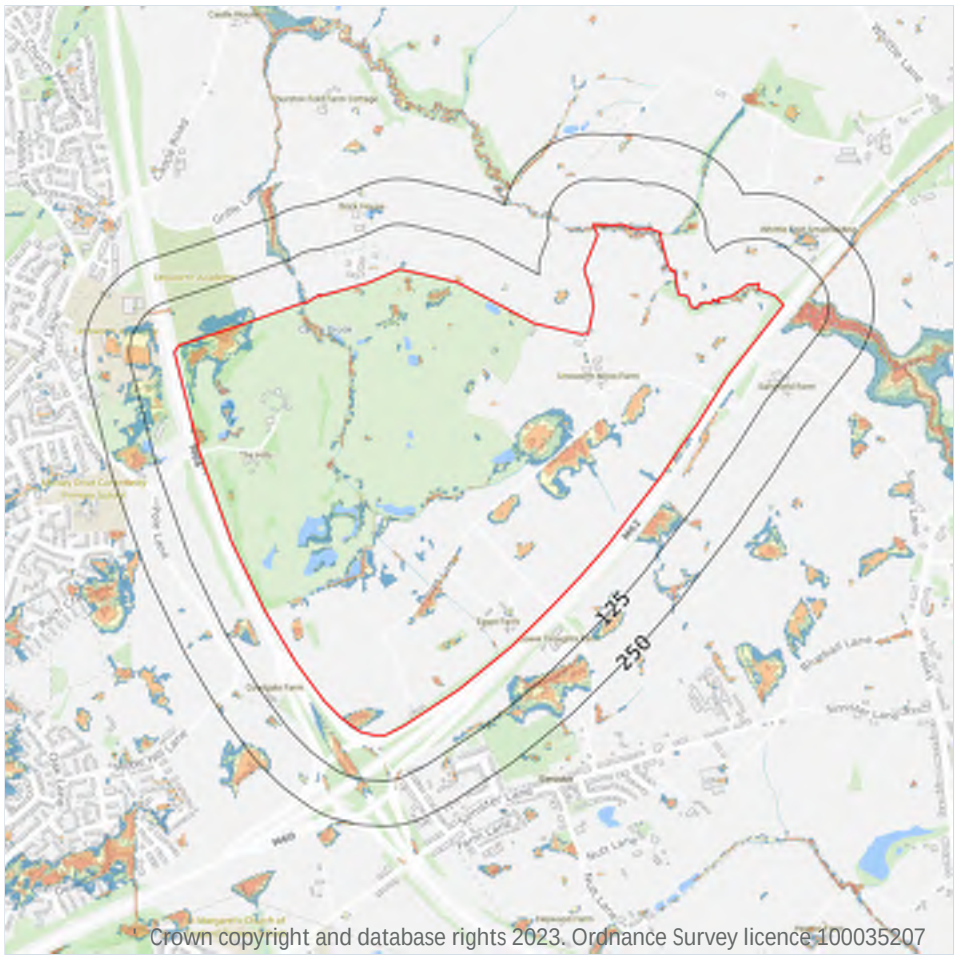
Areas of land at risk of flooding, when the presence of flood defences are ignored. Covering land with a 1 in 100 (1%) or greater chance of flooding each year from rivers or a 1 in 200 (0.5%) or greater chance of flooding each year from the sea.

Features are displayed on the River and coastal flooding map on page 70 >

Location	Type
On site	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	1 in 30 year, Greater than 1.0m
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 74 >

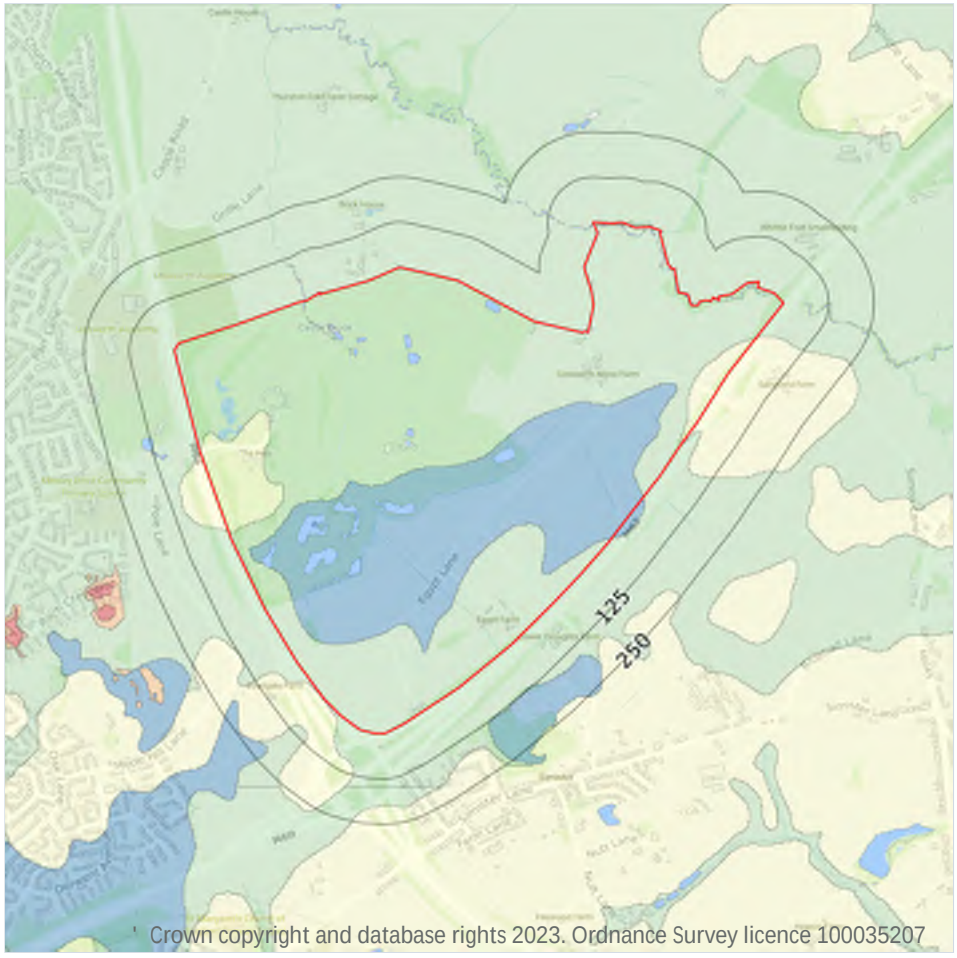
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on

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	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	Greater than 1.0m

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

High

Moderate - High

Moderate

Low

Negligible

9.1 Groundwater flooding

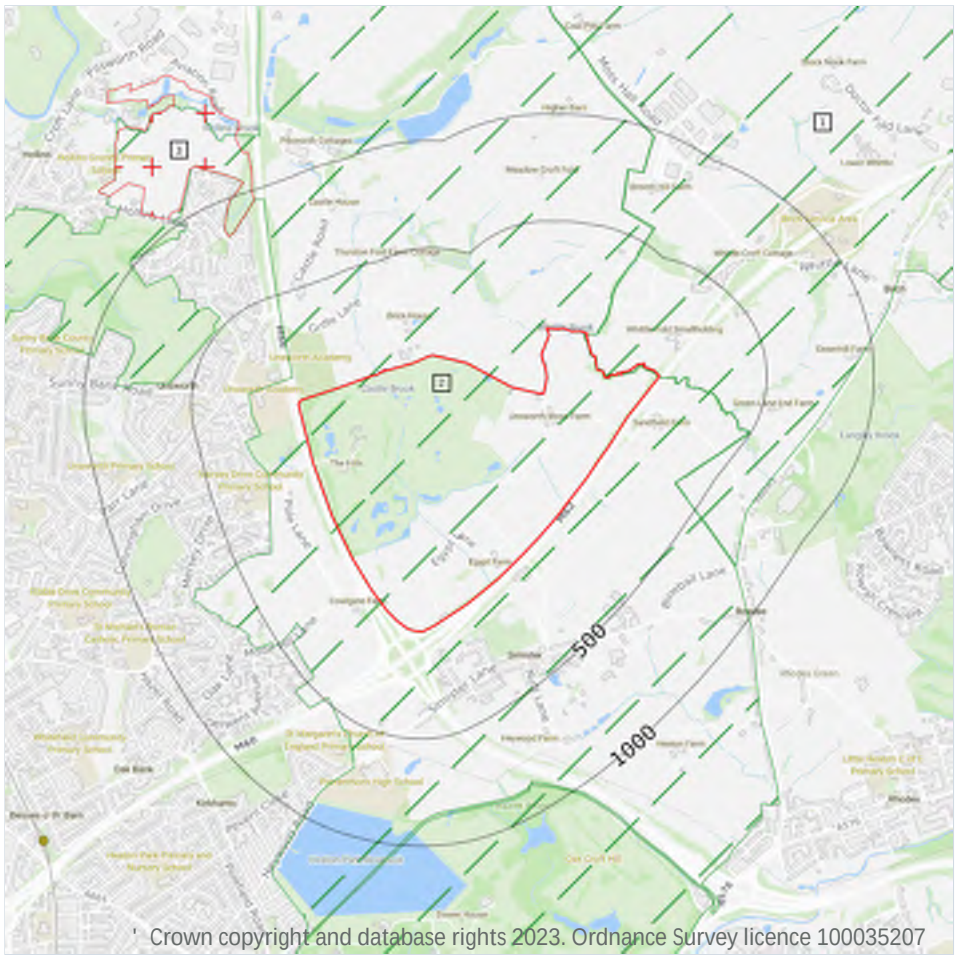
Highest risk on site	Moderate
Highest risk within 50m	Moderate

Groundwater flooding is caused by unusually high groundwater levels. It occurs when the water table rises above the ground surface or within underground structures such as basements or cellars. Groundwater flooding tends to exhibit a longer duration than surface water flooding, possibly lasting for weeks or months, and as a result it can cause significant damage to property. This risk assessment is based on a 1 in 100 year return period and a 5m Digital Terrain Model (DTM).

Features are displayed on the Groundwater flooding map on page 76 >

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

Sites providing statutory protection for the best examples of UK flora, fauna, or geological or physiographical features. Originally notified under the National Parks and Access to the Countryside Act 1949, SSSIs were re-notified under the Wildlife and Countryside Act 1981. Improved provisions for the protection and management of SSSIs were introduced by the Countryside and Rights of Way Act 2000 (in England and Wales) and (in Scotland) by the Nature Conservation (Scotland) Act 2004 and the Wildlife and Natural Environment (Scotland) Act 2010.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

Ramsar sites are designated under the Convention on Wetlands of International Importance, agreed in Ramsar, Iran, in 1971. They cover all aspects of wetland conservation and wise use, recognizing wetlands as ecosystems that are extremely important for biodiversity conservation in general and for the well-being of human communities. These sites cover a broad definition of wetland; marsh, fen, peatland or water, whether natural or artificial, permanent or temporary, with water that is static or flowing, fresh, brackish or salt, and even some marine areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

Areas which have been identified as best representing the range and variety within the European Union of habitats and (non-bird) species listed on Annexes I and II to the Directive. SACs are designated under the EC Habitats Directive.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.4 Special Protection Areas (SPA)

Records within 2000m	0

Sites classified by the UK Government under the EC Birds Directive, SPAs are areas of the most important habitat for rare (listed on Annex I to the Directive) and migratory birds within the European Union.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.5 National Nature Reserves (NNR)

Records within 2000m	0

Sites containing examples of some of the most important natural and semi-natural terrestrial and coastal ecosystems in Great Britain. They are managed to conserve their habitats, provide special opportunities for scientific study or to provide public recreation compatible with natural heritage interests.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.6 Local Nature Reserves (LNR)

Records within 2000m	2

Sites managed for nature conservation, and to provide opportunities for research and education, or simply enjoying and having contact with nature. They are declared by local authorities under the National Parks and Access to the Countryside Act 1949 after consultation with the relevant statutory nature conservation agency.

Features are displayed on the Environmental designations map on page 77 >

ID	Location	Name	Data source
3	835m NW	Hollins Vale	Natural England
-	1951m SE	Blackley Forest	Natural England

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.7 Designated Ancient Woodland

Records within 2000m	0

Ancient woodlands are classified as areas which have been wooded continuously since at least 1600 AD. This includes semi-natural woodland and plantations on ancient woodland sites. 'Wooded continuously' does not mean there is or has previously been continuous tree cover across the whole site, and not all trees within the woodland have to be old.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.8 Biosphere Reserves

Records within 2000m	0

Biosphere Reserves are internationally recognised by UNESCO as sites of excellence to balance conservation and socioeconomic development between nature and people. They are recognised under the Man and the Biosphere (MAB) Programme with the aim of promoting sustainable development founded on the work of the local community.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.9 Forest Parks

Records within 2000m	0

These are areas managed by the Forestry Commission designated on the basis of recreational, conservation or scenic interest.

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

A type of marine nature reserve in UK waters established under the Marine and Coastal Access Act (2009). They are designated with the aim to protect nationally important, rare or threatened habitats and species.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

10.11 Green Belt

Records within 2000m	5

Areas designated to prevent urban sprawl by keeping land permanently open.

Features are displayed on the Environmental designations map on page 77 >

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Rochdale
2	On site	Merseyside and Greater Manchester	Bury
4	856m S	Merseyside and Greater Manchester	Manchester
-	1654m W	Merseyside and Greater Manchester	Bury
-	1801m S	Merseyside and Greater Manchester	Bury

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

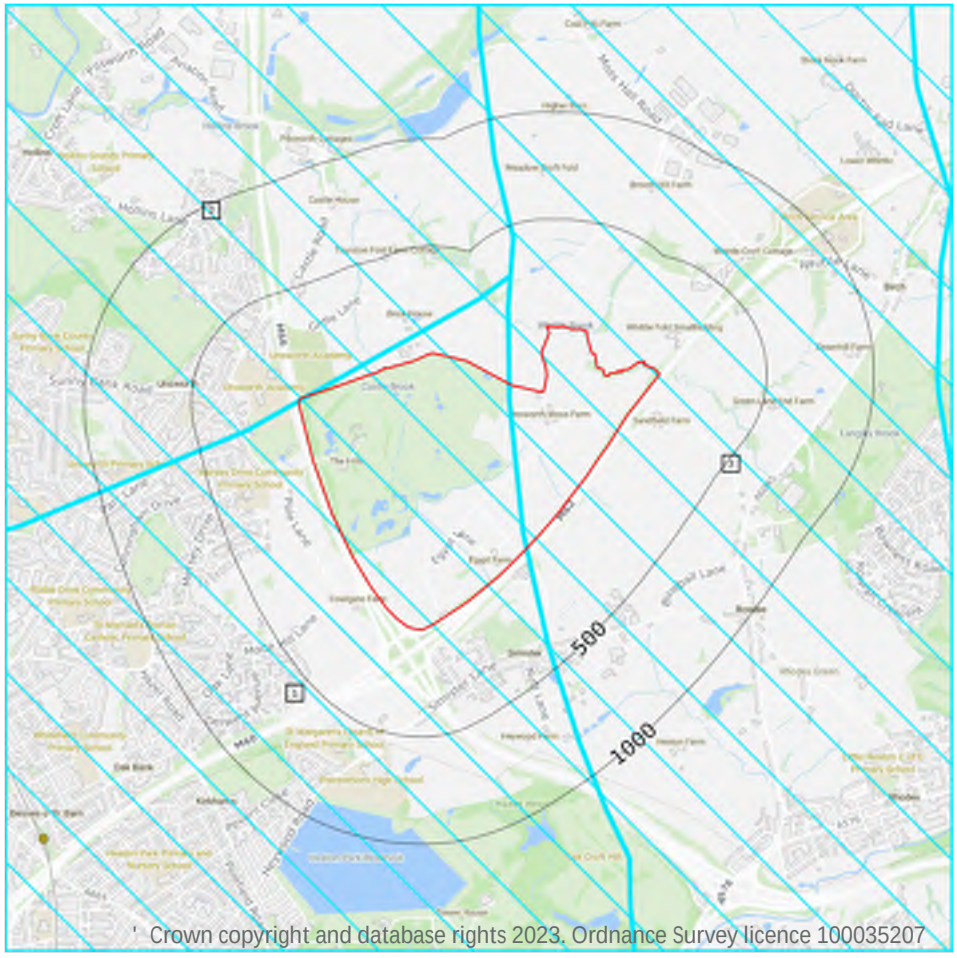
Records within 2000m	5

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
361m S	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
509m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
733m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
821m SE	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing
1537m S	Irwell / Man. Ship Canal (Kearsley to Irlam Locks) NVZ	Surface Water	643	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	3

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 82 >

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". 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.

ID	Location	Type of developments requiring consultation
2	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 4000m". Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.
3	On site	Infrastructure - Airports, helipads and other aviation proposals. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m", slurry lagoons & digestate stores > 750m", manure stores > 3500t). Combustion - General combustion processes >50MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

This data is sourced from Natural England and Natural Resources Wales.

11 Visual and cultural designations



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Site Outline

Search buffers in metres (m)

Listed buildings

Conservation areas

Conservation areas - no data

National Parks

Areas of Outstanding Natural Beauty

Registered parks and gardens

Scheduled Monuments

World Heritage Sites

11.1 World Heritage Sites

Records within 250m	0

Sites designated for their globally important cultural or natural interest requiring appropriate management and protection measures. World Heritage Sites are designated to meet the UK's commitments under the World Heritage Convention.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

Areas of Outstanding Natural Beauty (AONB) are conservation areas, chosen because they represent 18% of the finest countryside. Each AONB has been designated for special attention because of the quality of their flora, fauna, historical and cultural associations, and/or scenic views. The National Parks and Access to the Countryside Act of 1949 created AONBs and the Countryside and Rights of Way Act, 2000 added further regulation and protection. There are likely to be restrictions to some developments within these areas.

This data is sourced from Natural England, Natural Resources Wales and Scottish Natural Heritage.

11.3 National Parks

Records within 250m	0

In England and Wales, the purpose of National Parks is to conserve and enhance landscapes within the countryside whilst promoting public enjoyment of them and having regard for the social and economic well-being of those living within them. In Scotland National Parks have the additional purpose of promoting the sustainable use of the natural resources of the area and the sustainable social and economic development of its communities. The National Parks and Access to the Countryside Act 1949 established the National Park designation in England and Wales, and The National Parks (Scotland) Act 2000 in Scotland.

This data is sourced from Natural England, Natural Resources Wales and the Scottish Government.

11.4 Listed Buildings

Records within 250m	1

Buildings listed for their special architectural or historical interest. Building control in the form of 'listed building consent' is required in order to make any changes to that building which might affect its special interest. Listed buildings are graded to indicate their relative importance, however building controls apply to all buildings equally, irrespective of their grade, and apply to the interior and exterior of the building in its entirety, together with any curtilage structures.

Features are displayed on the Visual and cultural designations map on page 84 >

ID	Location	Name	Grade	Reference Number	Listed date
1	183m N	Brick Farmhouse	II	1067266	10/11/1975

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.5 Conservation Areas

Records within 250m	0

Local planning authorities are obliged to designate as conservation areas any parts of their own area that are of special architectural or historic interest, the character and appearance of which it is desirable to preserve or enhance. Designation of a conservation area gives broader protection than the listing of individual buildings. All the features within the area, listed or otherwise, are recognised as part of its character. Conservation area designation is the means of recognising the importance of all factors and of ensuring that planning decisions address the quality of the landscape in its broadest sense.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

11.6 Scheduled Ancient Monuments

Records within 250m	0

A scheduled monument is an historic building or site that is included in the Schedule of Monuments kept by the Secretary of State for Digital, Culture, Media and Sport. The regime is set out in the Ancient Monuments and Archaeological Areas Act 1979. The Schedule of Monuments has c.20,000 entries and includes sites such as Roman remains, burial mounds, castles, bridges, earthworks, the remains of deserted villages and industrial sites. Monuments are not graded, but all are, by definition, considered to be of national importance.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

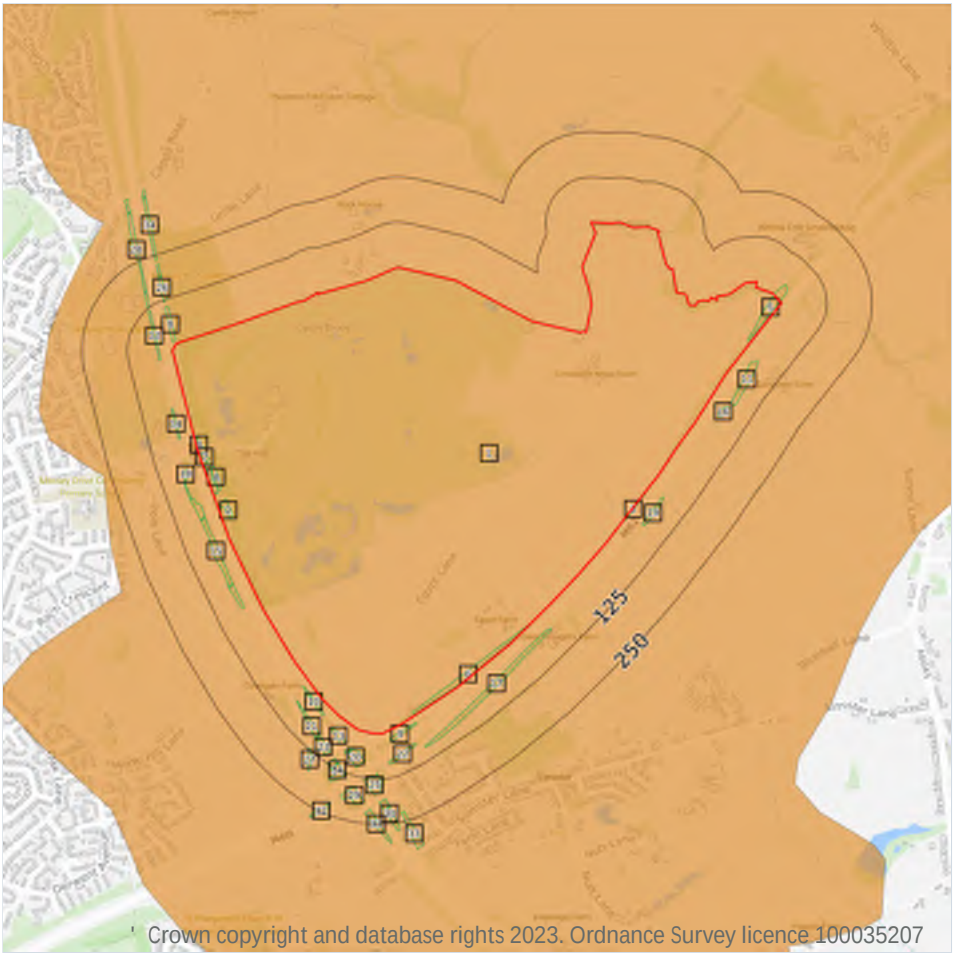
11.7 Registered Parks and Gardens

Records within 250m	0

Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, meaning that planning authorities must consider the impact of any proposed development on the special character of the landscape.

This data is sourced from Historic England, Cadw and Historic Environment Scotland.

12 Agricultural designations



Site Outline
Search buffers in metres (m)
Grade 1 - excellent quality
Grade 2 - very good quality
Grade 3 - good to moderate quality
Grade 3a - good quality
Grade 3b - moderate quality
Grade 4 - poor quality
Grade 5 - very poor quality
Non-agricultural land
Urban land
Exclusion land
Tree felling licences
Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

Classification of the quality of agricultural land taking into consideration multiple factors including climate, physical geography and soil properties. It should be noted that the categories for the grading of agricultural land are not consistent across England, Wales and Scotland.

Features are displayed on the Agricultural designations map on page 87 >

ID	Location	Classification	Description
1	On site	Grade 3	Good to moderate quality agricultural land. Land with moderate limitations which affect the choice of crops, timing and type of cultivation, harvesting or the level of yield. Where more demanding crops are grown yields are generally lower or more variable than on land in Grades 1 and 2.

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	34

Felling Licence Application (FLA) areas approved by Forestry Commission England. Anyone wishing to fell trees must ensure that a licence or permission under a grant scheme has been issued by the Forestry Commission before any felling is carried out or that one of the exceptions apply.

Features are displayed on the Agricultural designations map on page 87 >

ID	Location	Description	Reference	Application date
2	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
A	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	9m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	17m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	18m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	35m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	36m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
13	37m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
14	37m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
15	38m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
16	40m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-

ID	Location	Description	Reference	Application date
17	42m SE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
18	45m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
19	45m E	Selective Fell/Thin (Unconditional)	018/366/15-16	-
20	55m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
21	58m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
22	63m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
23	78m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
24	101m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
25	111m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
26	120m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
27	120m SW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
28	123m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
29	154m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
30	180m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
31	211m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
32	220m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
33	223m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
34	236m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. The schemes identified may be historical schemes that have now expired, or may still be active.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce diffuse water pollution.

This data is sourced from Natural England.

13 Habitat designations



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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	19

Habitats of principal importance as named under Natural Environment and Rural Communities Act (2006) Section 41.

Features are displayed on the Habitat designations map page 91>

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
5	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
6	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
7	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
8	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
9	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
10	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
11	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
12	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
13	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
14	On site	Lowland fens	Main habitat: LFENS (INV > 50%)
15	On site	Lowland fens	Main habitat: LFENS (INV > 50%)
16	On site	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
17	5m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
18	51m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
19	184m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	0

Habitat networks for 18 priority habitat networks (based primarily, but not exclusively, on the priority habitat inventory) and areas suitable for the expansion of networks through restoration and habitat creation.

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	0

Sites verified as Open Mosaic Habitat. Mosaic habitats are brownfield sites that are identified under the UK Biodiversity Action Plan as a priority habitat due to the habitat variation within a single site, supporting an array of invertebrates.

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m	0

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



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Site Outline

Search buffers in metres (m)

Full coverage

Partial coverage

No coverage

14.1 10k Availability

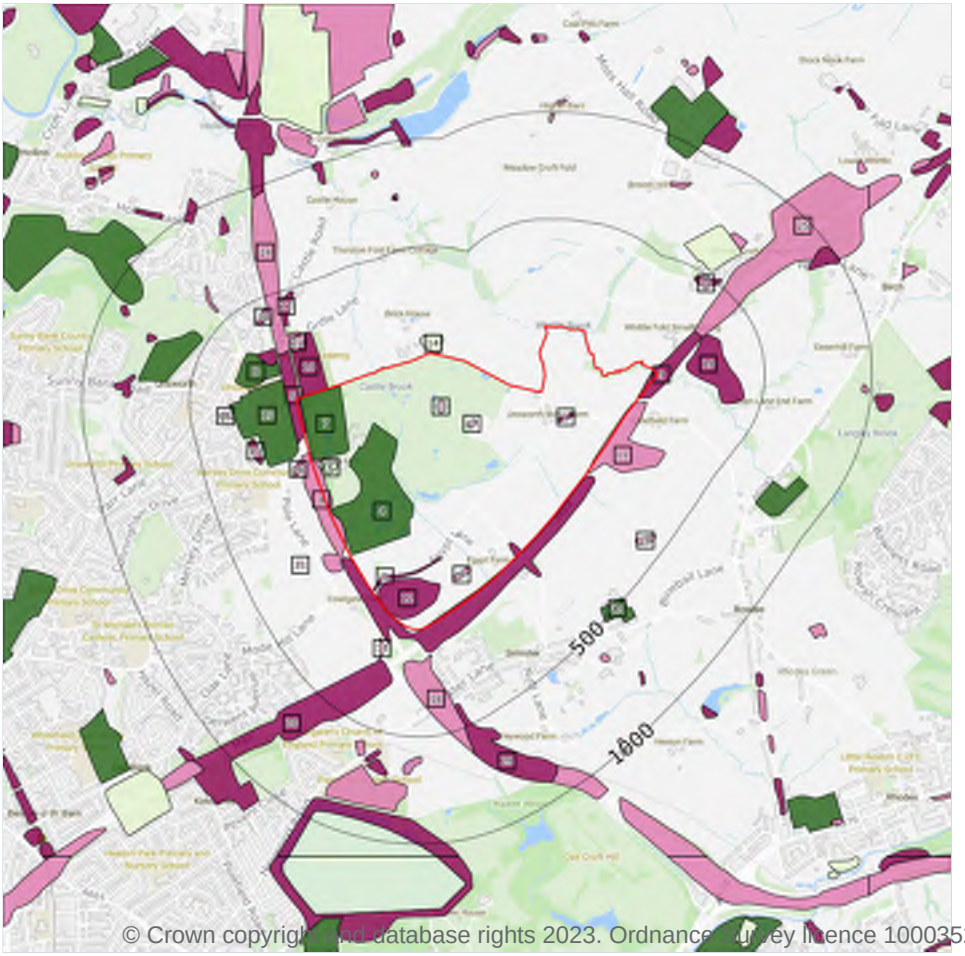
Records within 500m	1

An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological the Features are displayed on the Geology 1:10,000 scale - Availability map on page 94.

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD80NW

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Artificial and made ground



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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	36

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 page 95>

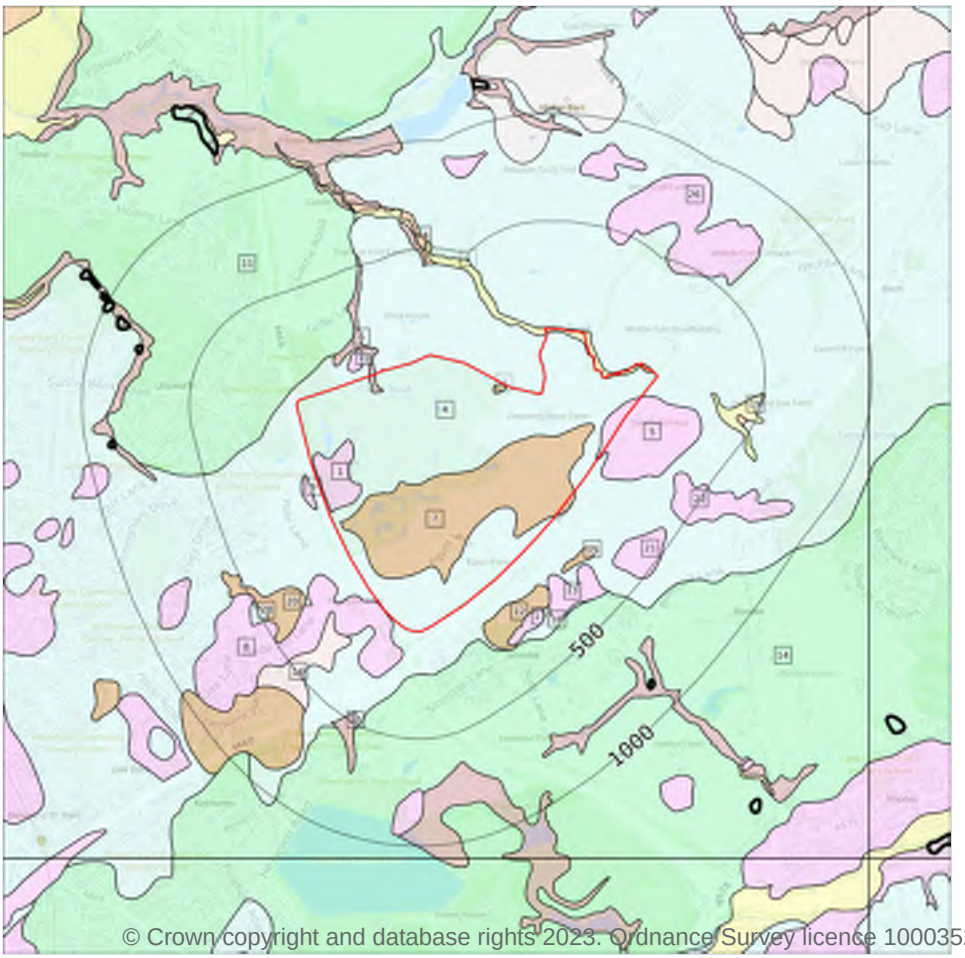
ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	On site	WGR-VOID	Worked Ground (Undivided)	Void
3	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	On site	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit

ID	Location	LEX Code	Description	Rock description
5	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	On site	WMGR-ARTDP	Infilled Ground	Artificial Deposit
7	On site	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
8	On site	WGR-VOID	Worked Ground (Undivided)	Void
9	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	On site	WGR-VOID	Worked Ground (Undivided)	Void
12	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
13	On site	WGR-VOID	Worked Ground (Undivided)	Void
A	On site	WGR-VOID	Worked Ground (Undivided)	Void
A	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
14	6m N	WMGR-ARTDP	Infilled Ground	Artificial Deposit
15	39m W	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
16	40m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
17	113m SW	WGR-VOID	Worked Ground (Undivided)	Void
18	126m S	WGR-VOID	Worked Ground (Undivided)	Void
19	138m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	142m NW	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit
20	193m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
B	196m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
21	208m SW	WGR-VOID	Worked Ground (Undivided)	Void
22	214m NW	WGR-VOID	Worked Ground (Undivided)	Void
23	219m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
24	222m NW	WGR-VOID	Worked Ground (Undivided)	Void
25	261m NE	WGR-VOID	Worked Ground (Undivided)	Void
26	310m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
27	338m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
28	370m E	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
29	385m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
30	388m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
31	444m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
32	450m SE	LSGR-ARTDP	Landscaped Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

Superficial geology (10k)
Please see table for more details.

14.3 Superficial geology (10k)

Records within 500m	28

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 98

ID	Location	LEX Code	Description	Rock description
1	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	On site	PEAT-P	Peat - Peat	Peat

ID	Location	LEX Code	Description	Rock description
4	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
5	On site	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	On site	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
7	On site	PEAT-P	Peat - Peat	Peat
8	2m SW	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
9	41m W	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
10	43m NW	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
11	56m NW	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
12	123m S	PEAT-P	Peat - Peat	Peat
13	166m SE	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
14	167m S	HMGDD-XSV	Hummocky (moundy) Glacial Deposits, Devensian - Sand And Gravel	Sand And Gravel
15	182m SE	PEAT-P	Peat - Peat	Peat
16	198m SW	GLLDD-XCZ	Glaciolacustrine Deposits, Devensian - Clay And Silt	Clay And Silt
17	224m SE	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
18	248m SE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
19	265m E	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
20	273m SW	PEAT-P	Peat - Peat	Peat
21	330m SE	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
22	342m E	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
23	416m E	RTDU-XSV	River Terrace Deposits (undifferentiated) - Sand And Gravel	Sand And Gravel
24	417m N	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
25	423m N	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
26	444m NE	GFICD-XSV	Glaciofluvial Ice Contact Deposits, Devensian - Sand And Gravel	Sand And Gravel
27	454m SW	HEAD-XCZSV	Head - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
28	465m SW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

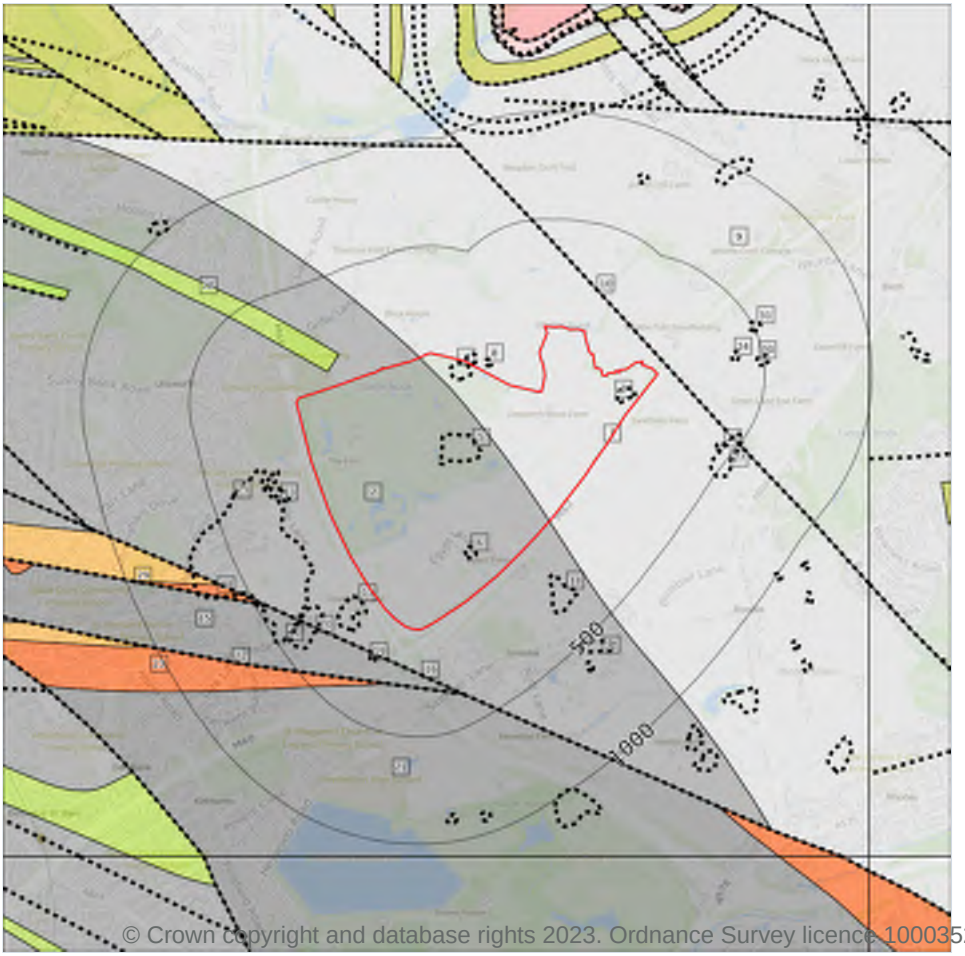
14.4 Landslip (10k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that hav 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



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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	8

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 101

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	PMCM-MDSS	Pennine Middle Coal Measures Formation - Mudstone, Siltstone And Sandstone	Bolsovian Sub-age - Duckmantian Sub-age

ID	Location	LEX Code	Description	Rock age
9	58m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
12	76m NW	PMCM-SDST	Pennine Middle Coal Measures Formation - Sandstone	Bolsovian Sub-age - Duckmantian Sub-age
15	174m S	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
21	268m S	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
23	277m S	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]
28	457m SW	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	24

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.

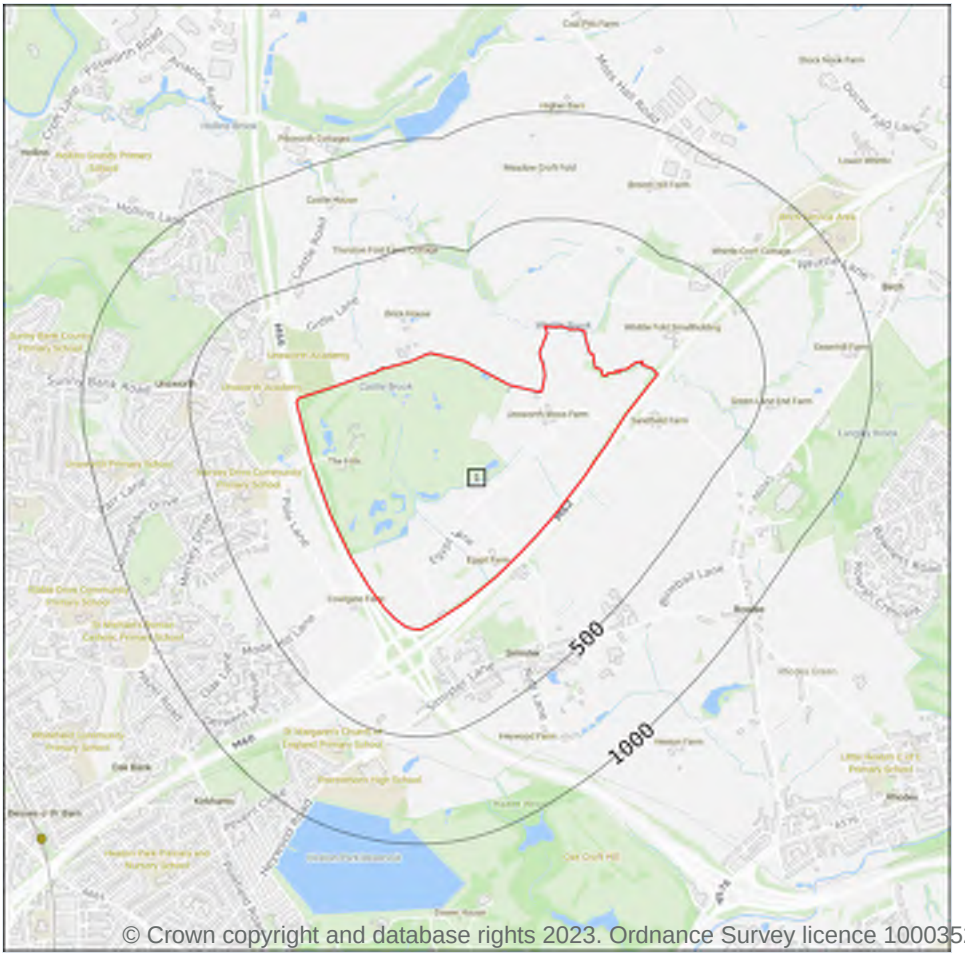
Features are displayed on the Geology 1:10,000 scale - Bedrock map on page 101

ID	Location	Category	Description
3	On site	LANDFORM	Kettle hole; closed hollow
4	On site	LANDFORM	Kettle hole; closed hollow
5	On site	LANDFORM	Drumlin, form-line at base of mound
6	On site	LANDFORM	Kettle hole; closed hollow
7	2m N	LANDFORM	Kettle hole; closed hollow
8	30m N	LANDFORM	Kettle hole; closed hollow
10	58m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
11	69m SW	LANDFORM	Drumlin, form-line at base of mound
13	156m W	LANDFORM	Drumlin, form-line at base of mound
14	162m W	LANDFORM	Drumlin, form-line at base of mound
16	174m S	FAULT	Normal fault, inferred; crossmarks on downthrow side

ID	Location	Category	Description
17	176m SW	LANDFORM	Drumlin, form-line at base of mound
18	178m SE	LANDFORM	Drumlin, form-line at base of mound
19	191m SW	LANDFORM	Kettle hole; closed hollow
20	250m SW	LANDFORM	Drumlin, form-line at base of mound
22	268m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	355m E	LANDFORM	Kettle hole; closed hollow
25	384m W	LANDFORM	Drumlin, form-line at base of mound
26	421m E	LANDFORM	Kettle hole; closed hollow
27	447m E	LANDFORM	Drumlin, form-line at base of mound
29	457m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
30	468m E	LANDFORM	Kettle hole; closed hollow
31	480m NE	LANDFORM	Kettle hole; closed hollow
32	499m SE	LANDFORM	Drumlin, form-line at base of mound

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

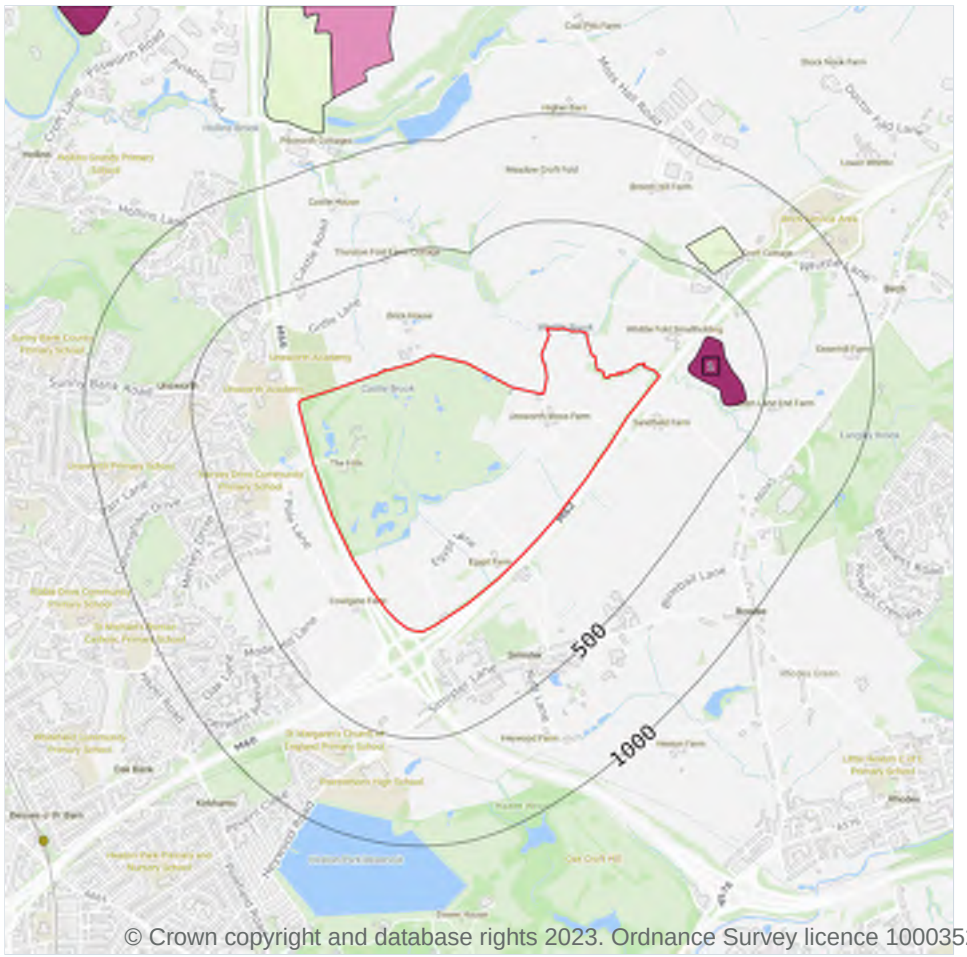
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on page 104.

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	EW085_manchester_v4

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Artificial and made ground



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Site Outline

Search buffers in metres (m)

- Made ground
- Worked ground
- Infilled ground
- Disturbed ground
- Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m	1

Details of made, worked, infilled, disturbed and landscaped ground at 1:50,000 scale. Artificial ground can be associated with potentially contaminated material, unpredictable engineering conditions and instability.

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground page 105

ID	Location	LEX Code	Description	Rock description
1	138m NE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

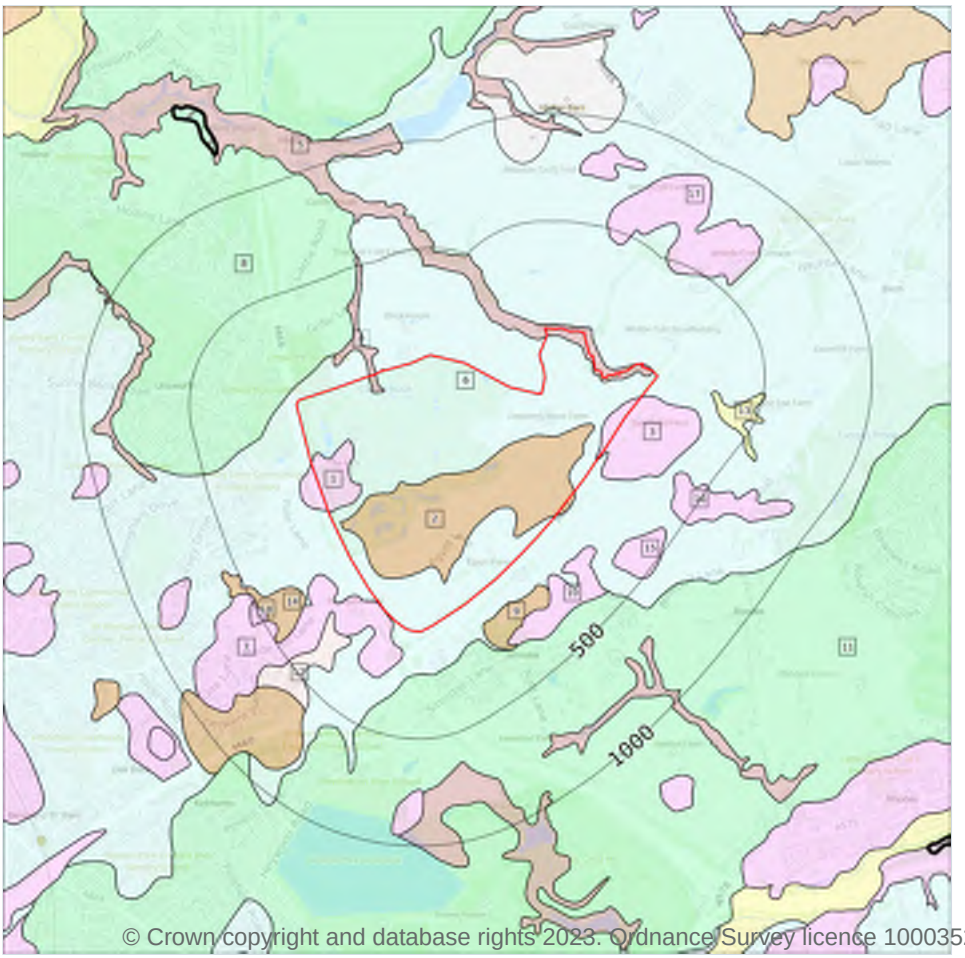
15.3 Artificial ground permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any artificial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Superficial



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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	18

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 107

ID	Location	LEX Code	Description	Rock description
1	On site	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
2	On site	PEAT-P	PEAT	PEAT
3	On site	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
4	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
5	On site	HEAD-XCZSV	HEAD	CLAY, SILT, SAND AND GRAVEL
6	On site	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
7	3m SW	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
8	56m NW	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
9	123m S	PEAT-P	PEAT	PEAT
10	165m SE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
11	167m S	HMGDD-XSV	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
12	198m SW	GLLDD-XCZ	GLACIOLACUSTRINE DEPOSITS, DEVENSIAN	CLAY AND SILT
13	265m E	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
14	273m SW	PEAT-P	PEAT	PEAT
15	330m SE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
16	342m E	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
17	444m NE	GFICD-XSV	GLACIOFLUVIAL ICE CONTACT DEPOSITS, DEVENSIAN	SAND AND GRAVEL
18	465m SW	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	7

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any superficial deposits (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	Low	Very Low
On site	Intergranular	Very High	High
On site	Mixed	High	Very Low

Location	Flow type	Maximum permeability	Minimum permeability
On site	Mixed	High	Very Low
On site	Mixed	High	Low
On site	Intergranular	Very High	High
3m SW	Intergranular	Very High	High

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

Mass movement deposits on BGS geological maps at 1:50,000 scale. Primarily superficial deposits that hav moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground.

This data is sourced from the British Geological Survey.

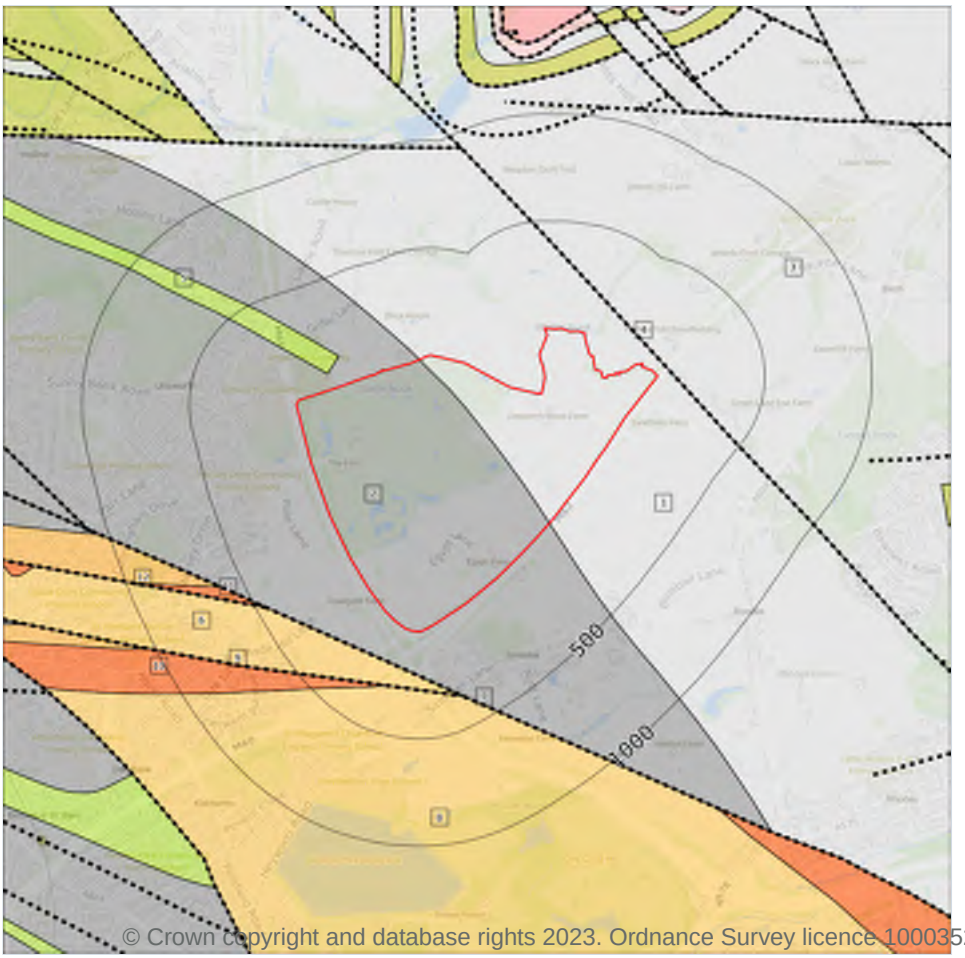
15.7 Landslip permeability (50k)

Records within 50m	0

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of any landslip deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



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Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

Bedrock geology (50k)
Please see table for more details.

15.8 Bedrock geology (50k)

Records within 500m	8

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 110

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	On site	PMCM-MDSS	PENNINE MIDDLE COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
3	59m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
5	76m NW	PMCM-SDST	PENNINE MIDDLE COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
6	174m S	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
8	268m S	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
10	277m S	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-
11	457m SW	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	2

A qualitative classification of estimated rates of vertical movement of water from the ground surface through the unsaturated zone of bedrock (the zone between the land surface and the water table).

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
On site	Fracture	Moderate	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	4

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.

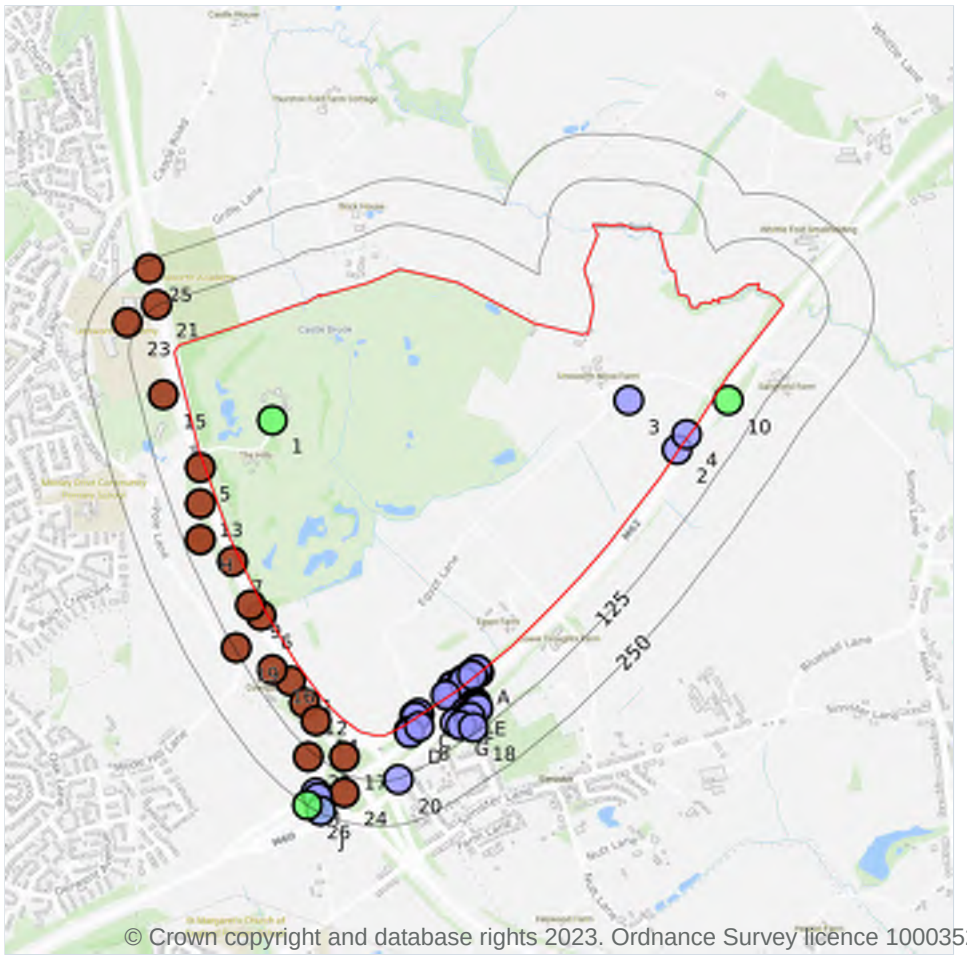
Features are displayed on the Geology 1:50,000 scale - Bedrock map on page 110

ID	Location	Category	Description
4	59m NE	FAULT	Fault, inferred
7	174m S	FAULT	Fault, inferred
9	268m S	FAULT	Fault, inferred

ID	Location	Category	Description
12	457m SW	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.

16 Boreholes



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16.1 BGS Boreholes

Records within 250m	62

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 113>

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	382600 406930	PIKE FOLD GOLF CLUB, UNSWORTH	24.0	N	15573781 !

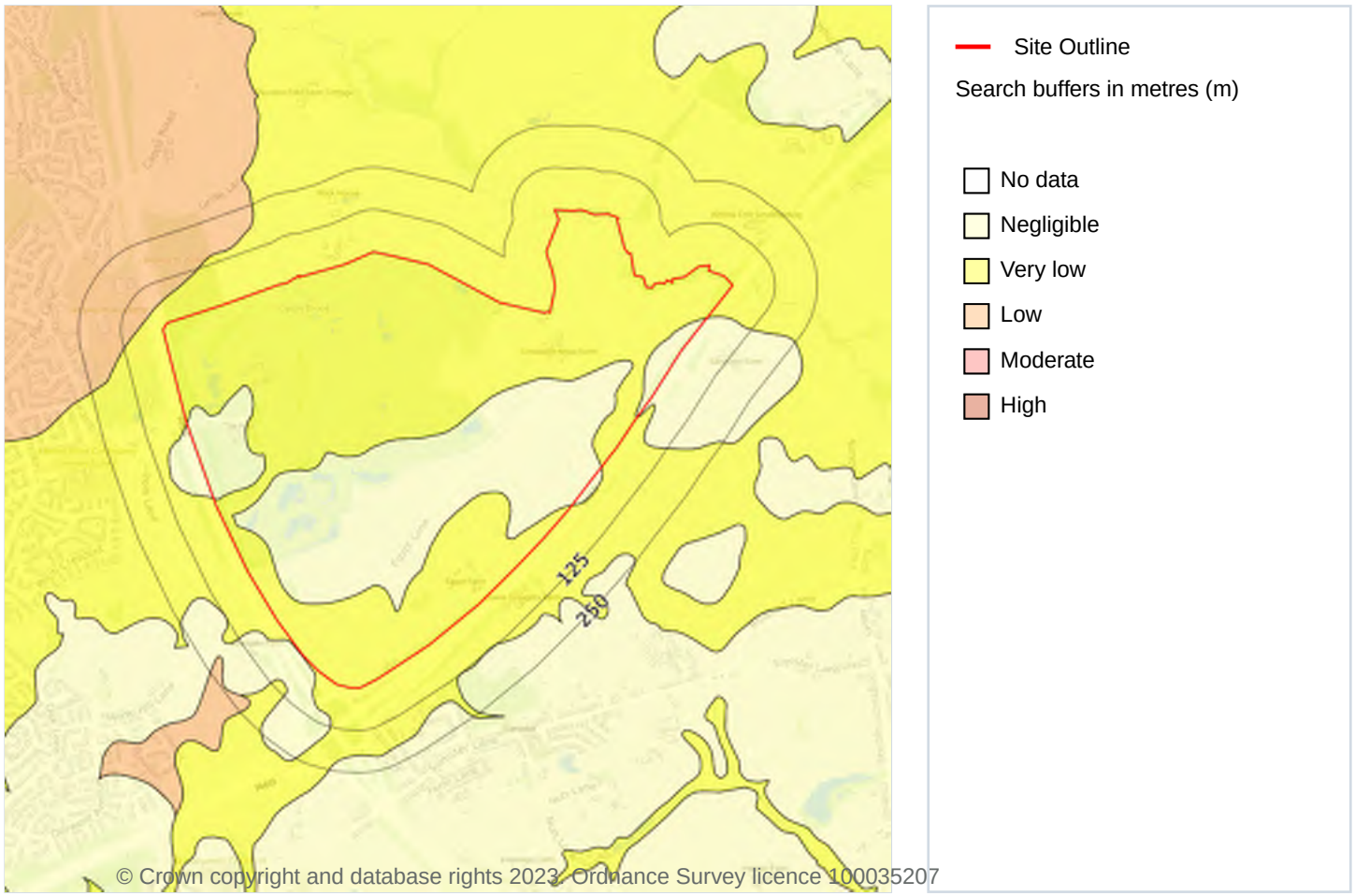
ID	Location	Grid reference	Name	Length	Confidential	Web link
2	On site	383719 406848	Manchester Smart Motorway M60 TP7001	2.2	N	20344046 !
3	On site	383586 406985	Manchester Smart Motorway M60 WS21362B	3.45	N	20344057 !
4	On site	383746 406892	Manchester Smart Motorway M60 TP7002	2.2	N	20344047 !
A	On site	383169 406236	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/46	140.0	N	18356636 !
A	On site	383127 406213	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/39	130.5	N	18356608 !
A	On site	383154 406219	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/42	120.6	N	18356620 !
A	On site	383171 406233	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/47	120.7	N	18356638 !
A	On site	383167 406240	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/45	130.7	N	18356634 !
A	On site	383150 406229	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/44	140.0	N	18356630 !
A	On site	383132 406208	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/41	120.6	N	18356616 !
A	On site	383129 406210	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/40	120.7	N	18356612 !
A	On site	383153 406224	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/43	120.6	N	18356626 !
B	On site	383099 406195	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/38	120.9	N	18356605 !
B	On site	383099 406193	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK TP/M60/2/38A	110.2	N	18356412 !
B	On site	383090 406175	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/37	120.5	N	18356602 !
B	On site	383079 406170	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/36	120.5	N	18356597 !
C	On site	383006 406117	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/29	120.9	N	18356563 !
C	On site	382994 406113	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/27	140.0	N	18356558 !

ID	Location	Grid reference	Name	Length	Confidential	Web link
C	On site	383004 406121	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/28	30.2	N	18356562!
C	On site	382996 406109	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/26	20.7	N	18356555!
5	13m W	382400 406800	M66 BURY EASTERLY BY-PASS. 5850/1-3	-1.0	N	27284!
6	15m SW	382570 406390	M66 BURY EASTERLY BY-PASS. 6	-1.0	N	27278!
D	19m S	382977 406071	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/24	30.0	N	18356529!
7	21m SW	382490 406540	M66 BURY EASTERLY BY-PASS. 8	-1.0	N	27280!
D	25m S	382980 406066	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/25	20.8	N	18356552!
8	25m S	383006 406083	Manchester Smart Motorway M60 BH4015	2.8	N	20344031!
9	28m SW	382540 406420	M66 BURY EASTERLY BY-PASS. 7	-1.0	N	27279!
10	37m E	383860 406985	Manchester Smart Motorway M60 BH21362A	10.5	N	20344043!
11	42m SW	382650 406210	M66 BURY EASTERLY BY-PASS. 4	-1.0	N	27275!
12	45m SW	382690 406150	M66 BURY EASTERLY BY-PASS. 3	-1.0	N	27274!
13	47m W	382400 406700	M66 BURY EASTERLY BY-PASS. 11-11B	-1.0	N	27283!
14	55m SW	382720 406100	M66 BURY EASTERLY BY-PASS. 2	-1.0	N	27273!
15	57m W	382300 407000	M66 BURY EASTERLY BY-PASS. 12A-H	-1.0	N	27285!
E	57m S	383162 406149	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK WS/M60/2/34	10.6	N	18356684!
E	58m S	383163 406149	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK WS/M60/2/34A	10.2	N	18356761!
E	59m S	383159 406144	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK WS/M60/2/34B	10.2	N	18356763!
E	61m S	383161 406144	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/34C	20.8	N	18356579!
F	63m S	383134 406122	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK WS/M60/2/33	10.5	N	18356668!
16	67m SW	382600 406240	M66 BURY EASTERLY BY-PASS. 4A	-1.0	N	27276!
E	67m S	383165 406139	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/34D	20.6	N	18356584!

ID	Location	Grid reference	Name	Length	Confidential	Web link
G	71m S	383107 406095	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK WS/M60/2/31	10.5	N	18356667!
F	72m S	383142 406116	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/33A	12.2	N	18356575!
E	74m S	383169 406133	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/35	13.1	N	18356590!
F	80m S	383149 406111	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/32	13.35	N	18356571!
H	80m W	382400 406600	M66 BURY EASTERLY BY-PASS. 9-9A	-1.0	N	27281!
H	80m W	382400 406600	M66 BURY EASTERLY BY-PASS. 10-10A	-1.0	N	27282!
17	81m S	382800 406000	M66 BURY EASTERLY BY-PASS. 5455/1-6	-1.0	N	27271!
G	86m S	383122 406087	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/31A	13.5	N	18356568!
18	109m S	383155 406081	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/30A	12.2	N	18356566!
19	121m SW	382500 406300	M66 BURY EASTERLY BY-PASS. 5-5J	-1.0	N	27277!
20	128m S	382950 405936	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/48	14.0	N	18356642!
21	129m NW	382280 407250	M66 BURY EASTERLY BY-PASS. 13	-1.0	N	27287!
22	140m SW	382700 406000	M66 BURY EASTERLY BY-PASS. 1-1B	-1.0	N	27272!
23	153m NW	382200 407200	M66 BURY EASTERLY BY-PASS. 5851/1-2	-1.0	N	27286!
24	174m S	382800 405900	M66 BURY EASTERLY BY-PASS. 5450/3,4,9,10	-1.0	N	27270!
I	207m S	382721 405901	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK DS/M60/2/22	10.8	N	18356527!
I	216m S	382727 405887	M60 PACKAGE 2 SANDGATE OVERBRIDGE TO RIVER IRK WS/M60/2/23	7.0	N	18356664!
25	228m NW	382260 407350	M66 BURY EASTERLY BY-PASS. 14	-1.0	N	27288!
J	245m S	382733 405850	Manchester Smart Motorway M60 BH4014	14.9	N	20344030!
J	245m S	382733 405850	M60 MANCHESTER SMART MOTORWAY (MSM), PHASE 3 BH2016-09	14.0	N	20765262!
26	250m S	382698 405865	M60 WEATHER STATION 4	12.5	N	18949845!

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m	3

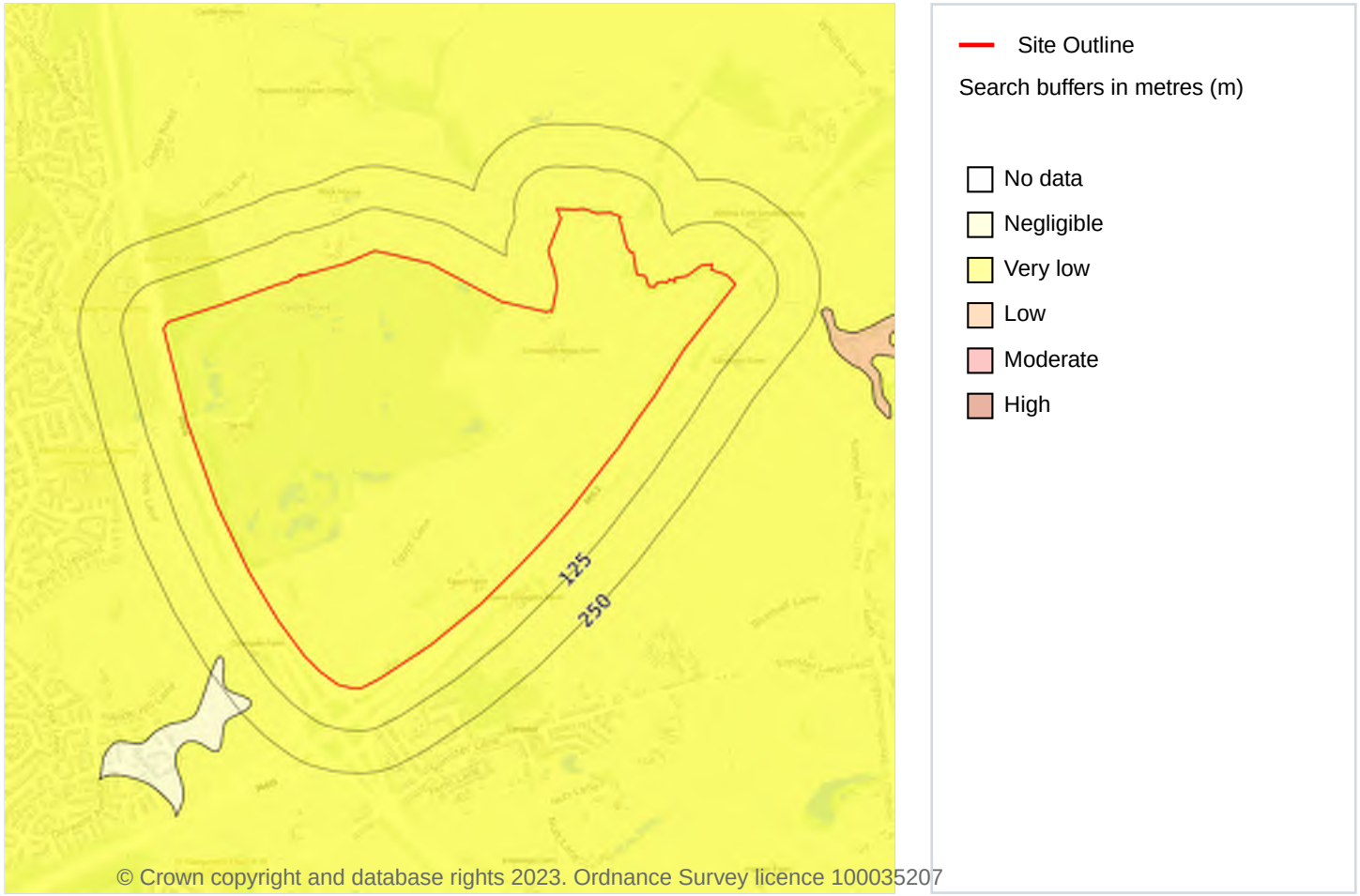
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and local drainage).

Features are displayed on the Natural ground subsidence - Shrink swell clays map on page 117.

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
3m SW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m	1

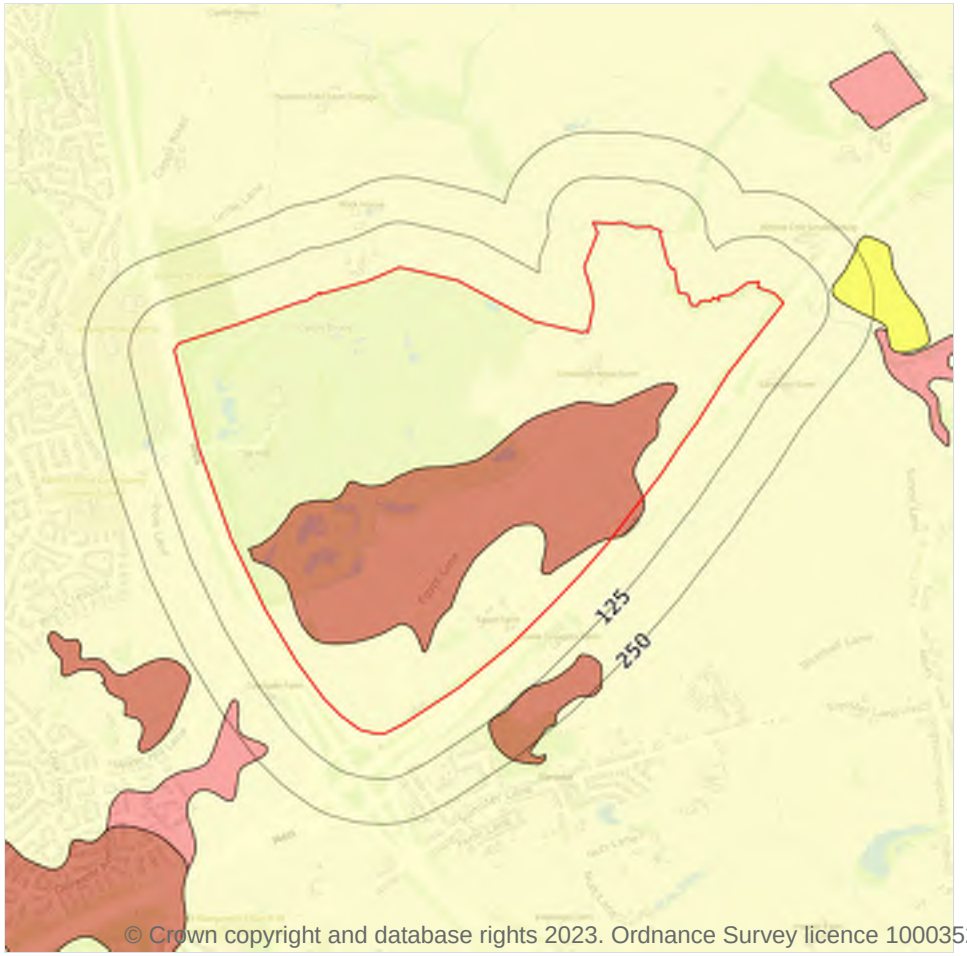
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on page 119.

Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.3 Compressible deposits

Records within 50m	2

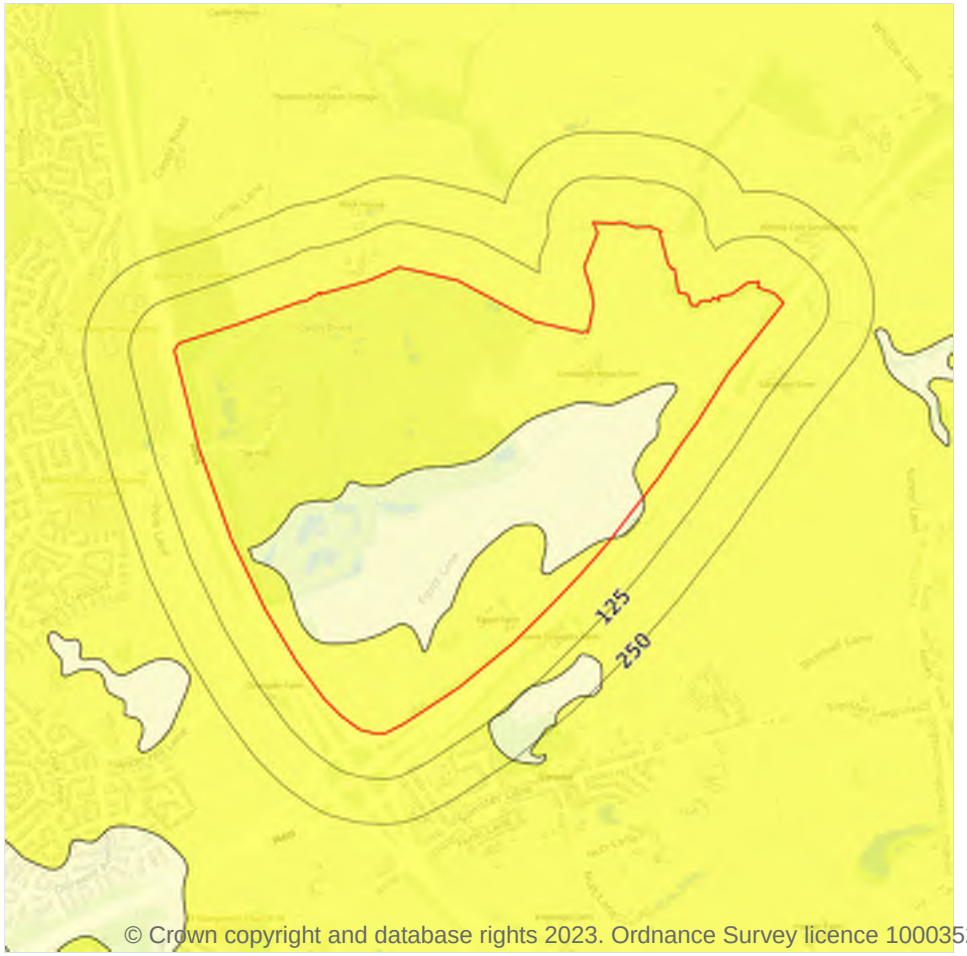
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on page 120.

Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	High	Highly compressible strata present. Significant constraint land use depending on thickness.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.4 Collapsible deposits

Records within 50m	2

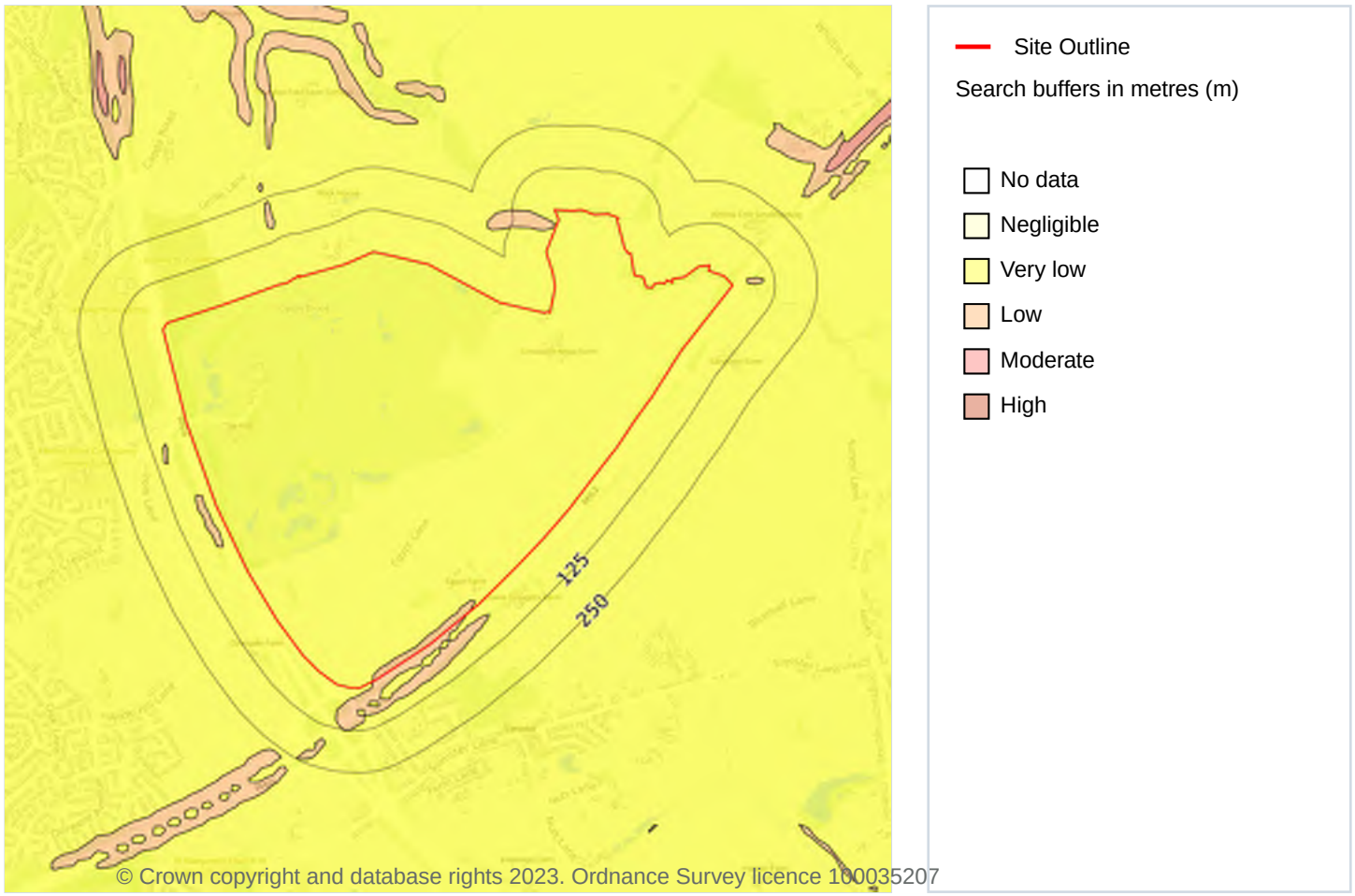
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on page 121.

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



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17.5 Landslides

Records within 50m	8

The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

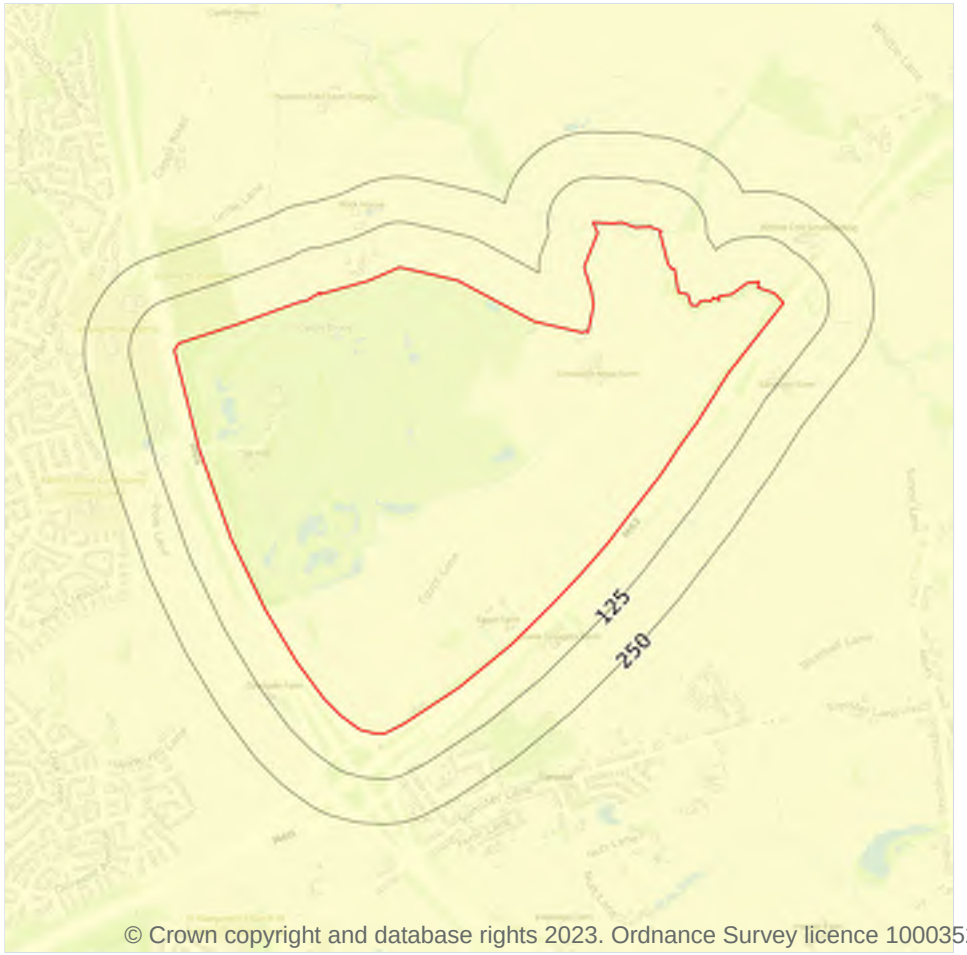
Features are displayed on the Natural ground subsidence - Landslides map on page 122.

Location	Hazard rating	Details
On site	Very low	Slope instability problems are not likely to occur but consideration of potential problems of adjacent areas impacting on the site should always be considered.

Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
7m NE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
17m S	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.
22m S	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.
25m SW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
45m NE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
49m S	Very low	Slope instability problems are not likely to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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Site Outline

Search buffers in metres (m)

- No data
- Negligible
- Very low
- Low
- Moderate
- High

17.6 Ground dissolution of soluble rocks

Records within 50m	1

The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on page 124 >

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.

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
1500m E	River Irk (Moston Brook to River Irwell) NVZ	Surface Water	638	Existing

This data is sourced from Natural England and Natural Resources Wales.