

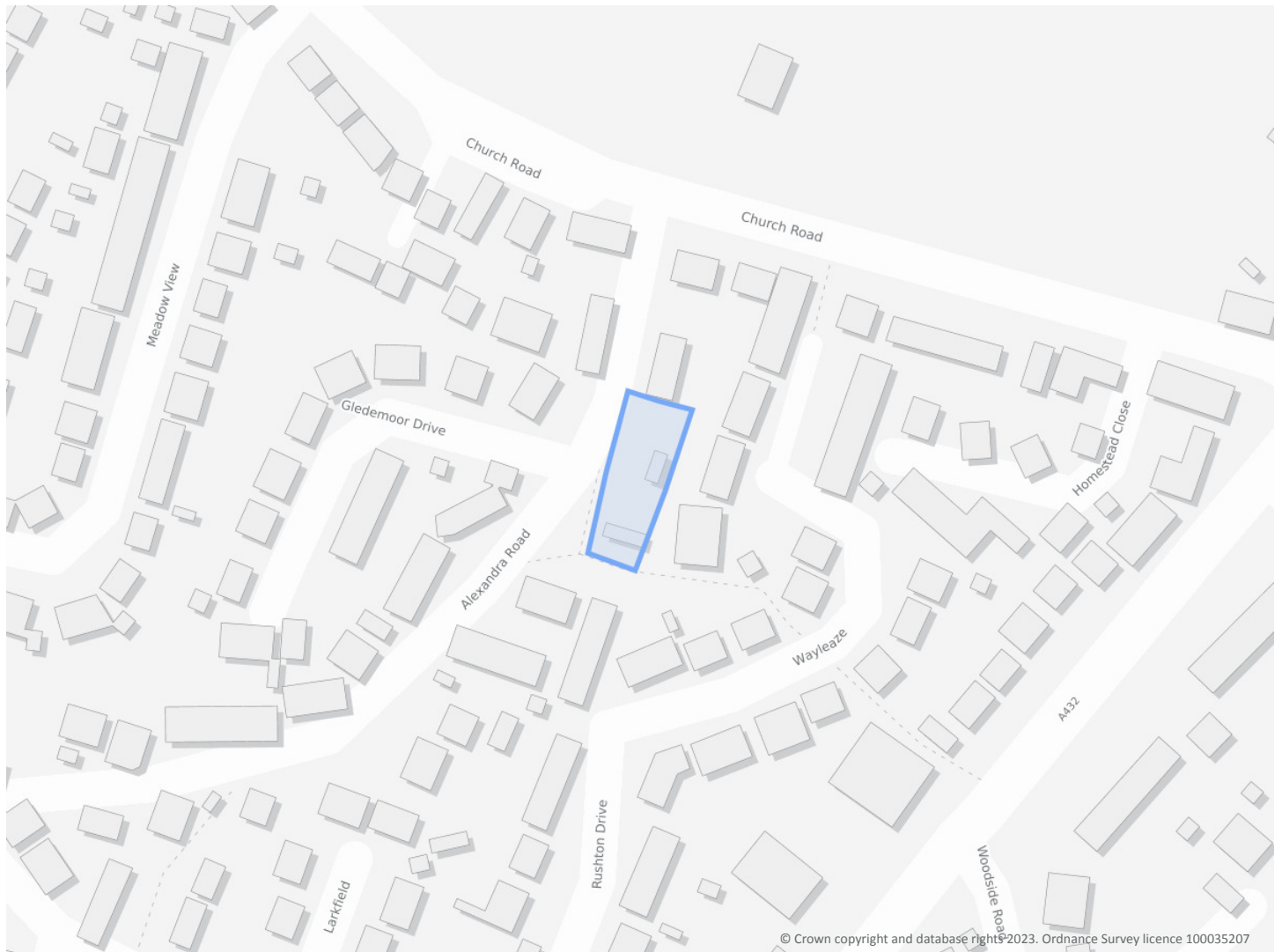
THE BUNGALOW, 22 HARRIS YARD, ALEXANDRA ROAD, COALPIT HEATH, BS36 2PZ

Order Details

Date: 26/06/2023
Your ref: OE-1702-1057-LS-253
Our Ref: GS-1XK-LB4-JUE-3BT

Site Details

Location: 367732 181374
Area: 0.11 ha
Authority: [South Gloucestershire Council](#) ↗



[Summary of findings](#)

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[Aerial image](#)

[p. 5 >](#)

[OS MasterMap site plan](#)

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Contact us with any questions at:

info@groundsure.com ↗

01273 257 755

Summary of findings

Page	Section	Geology 1:10,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
11 >	1.1 >	10k Availability >	Identified (within 500m)				
12	1.2	Artificial and made ground (10k)	0	0	0	0	-
13 >	1.3 >	Superficial geology (10k) >	0	0	0	1	-
14	1.4	Landslip (10k)	0	0	0	0	-
15 >	1.5 >	Bedrock geology (10k) >	1	1	4	5	-
16 >	1.6 >	Bedrock faults and other linear features (10k) >	0	1	4	8	-
Page	Section	Geology 1:50,000 scale >	On site	0-50m	50-250m	250-500m	500-2000m
18 >	2.1 >	50k Availability >	Identified (within 500m)				
19	2.2	Artificial and made ground (50k)	0	0	0	0	-
19	2.3	Artificial ground permeability (50k)	0	0	-	-	-
20 >	2.4 >	Superficial geology (50k) >	0	0	0	2	-
21	2.5	Superficial permeability (50k)	None (within 50m)				
21	2.6	Landslip (50k)	0	0	0	0	-
21	2.7	Landslip permeability (50k)	None (within 50m)				
22 >	2.8 >	Bedrock geology (50k) >	1	1	4	10	-
23 >	2.9 >	Bedrock permeability (50k) >	Identified (within 50m)				
24 >	2.10 >	Bedrock faults and other linear features (50k) >	0	1	4	7	-
Page	Section	Boreholes >	On site	0-50m	50-250m	250-500m	500-2000m
25 >	3.1 >	BGS Boreholes >	0	0	1	-	-
Page	Section	Natural ground subsidence >					
26 >	4.1 >	Shrink swell clays >	Very low (within 50m)				
27 >	4.2 >	Running sands >	Negligible (within 50m)				
28 >	4.3 >	Compressible deposits >	Negligible (within 50m)				
29 >	4.4 >	Collapsible deposits >	Very low (within 50m)				
30 >	4.5 >	Landslides >	Low (within 50m)				
32 >	4.6 >	Ground dissolution of soluble rocks >	Negligible (within 50m)				



Page	Section	Mining and ground workings >	On site	0-50m	50-250m	250-500m	500-2000m	
34 >	5.1 >	BritPits >	0	1	5	8	-	
37 >	5.2 >	Surface ground workings >	0	3	28	-	-	
39 >	5.3 >	Underground workings >	0	1	9	6	6	
40	5.4	Underground mining extents	0	0	0	0	-	
40	5.5	Historical Mineral Planning Areas	0	0	0	0	-	
40	5.6	Non-coal mining	0	0	0	0	0	
41	5.7	JPB mining areas	None (within 0m)					
41	5.8	The Coal Authority non-coal mining	0	0	0	0	-	
41 >	5.9 >	Researched mining >	0	0	1	0	-	
41	5.10	Mining record office plans	0	0	0	0	-	
42 >	5.11 >	BGS mine plans >	1	0	0	0	-	
42 >	5.12 >	Coal mining >	Identified (within 0m)					
42	5.13	Brine areas	None (within 0m)					
42	5.14	Gypsum areas	None (within 0m)					
43	5.15	Tin mining	None (within 0m)					
43	5.16	Clay mining	None (within 0m)					
Page	Section	Ground cavities and sinkholes	On site	0-50m	50-250m	250-500m	500-2000m	
44	6.1	Natural cavities	0	0	0	0	-	
44	6.2	Mining cavities	0	0	0	0	0	
44	6.3	Reported recent incidents	0	0	0	0	-	
44	6.4	Historical incidents	0	0	0	0	-	
45	6.5	National karst database	0	0	0	0	-	
Page	Section	Radon >						
46 >	7.1 >	Radon >	Between 5% and 10% (within 0m)					
Page	Section	Soil chemistry >	On site	0-50m	50-250m	250-500m	500-2000m	
48 >	8.1 >	BGS Estimated Background Soil Chemistry >	1	1	-	-	-	
48	8.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-	
48	8.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-	

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
49	9.1	Underground railways (London)	0	0	0	-	-
49	9.2	Underground railways (Non-London)	0	0	0	-	-
49	9.3	Railway tunnels	0	0	0	-	-
49	9.4	Historical railway and tunnel features	0	0	0	-	-
49	9.5	Royal Mail tunnels	0	0	0	-	-
50	9.6	Historical railways	0	0	0	-	-
50	9.7	Railways	0	0	0	-	-
50	9.8	Crossrail 1	0	0	0	0	-
50	9.9	Crossrail 2	0	0	0	0	-
50	9.10	HS2	0	0	0	0	-

Recent aerial photograph

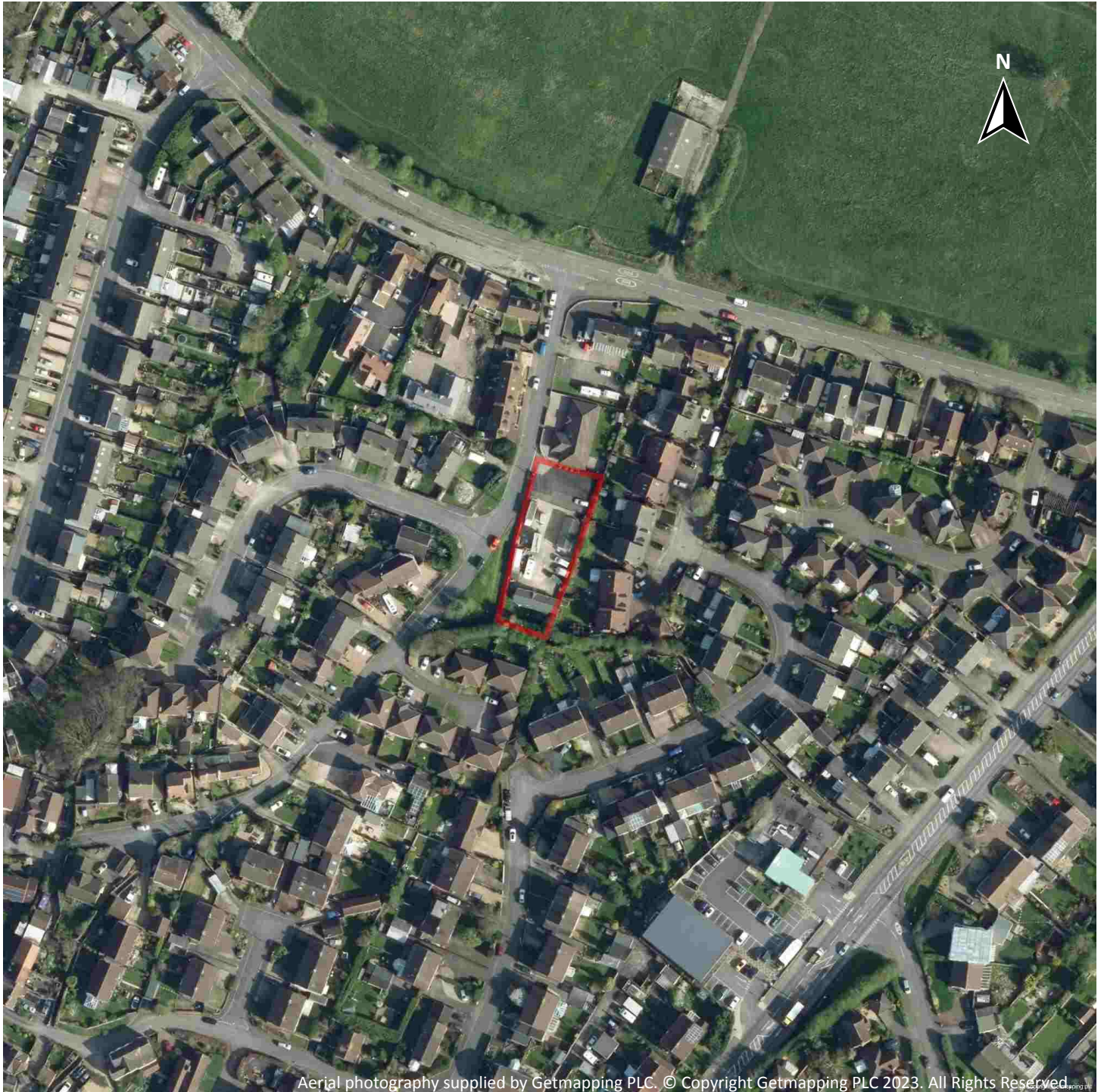


Capture Date: 06/05/2020

Site Area: 0.11ha



Recent site history - 2017 aerial photograph



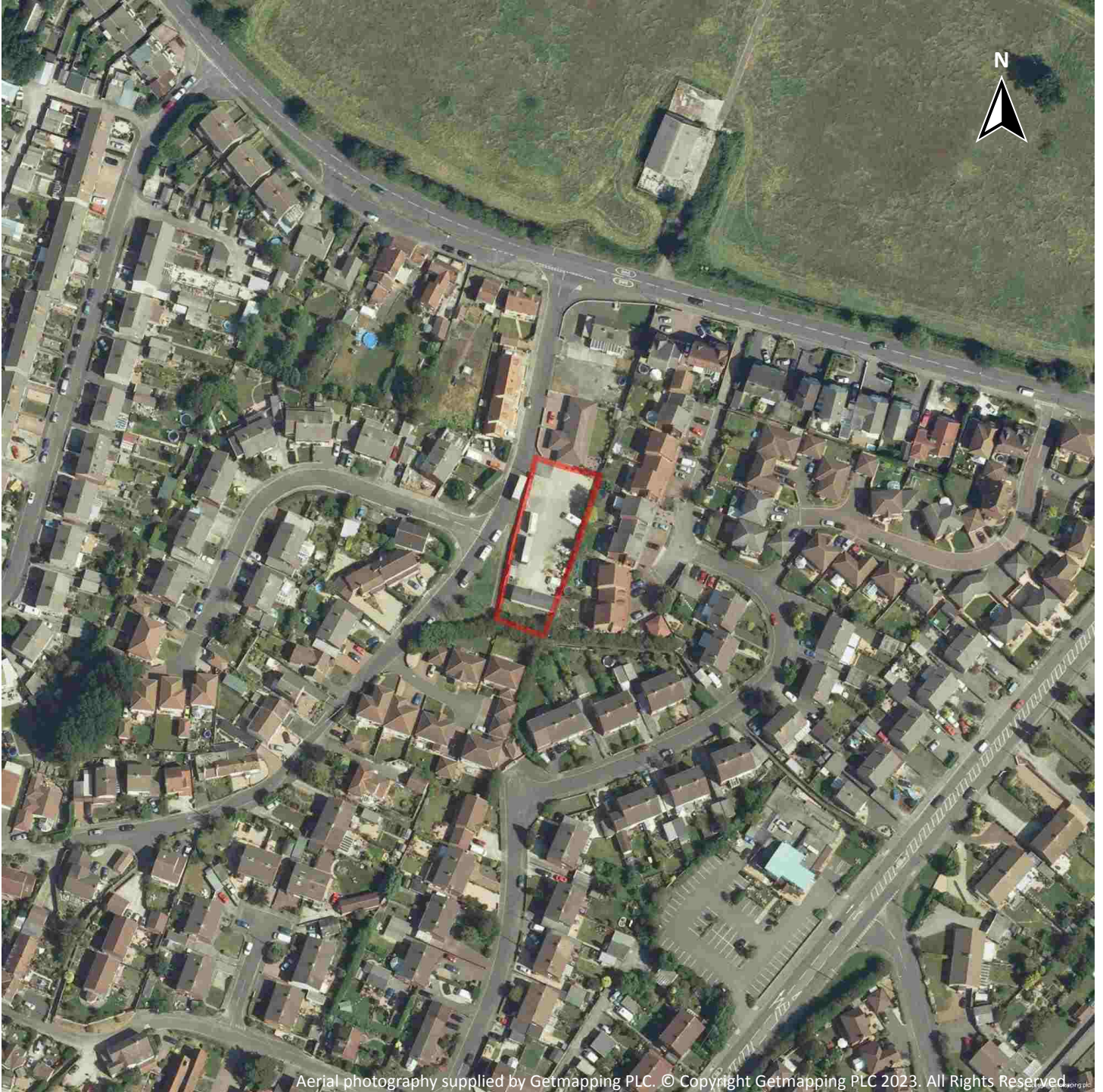
Aerial photography supplied by Getmapping PLC. © Copyright Getmapping PLC 2023. All Rights Reserved.

Capture Date: 03/04/2017

Site Area: 0.11ha



Recent site history - 2008 aerial photograph



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

Capture Date: 27/07/2008

Site Area: 0.11ha



Recent site history - 2000 aerial photograph



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

Capture Date: 19/06/2000

Site Area: 0.11ha



Recent site history - 1999 aerial photograph



Capture Date: 27/07/1999

Site Area: 0.11ha



OS MasterMap site plan



Site Area: 0.11ha



1 Geology 1:10,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

1.1 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 11](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	ST68SE

This data is sourced from the British Geological Survey.



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

1.2 Artificial and made ground (10k)

Records within 500m

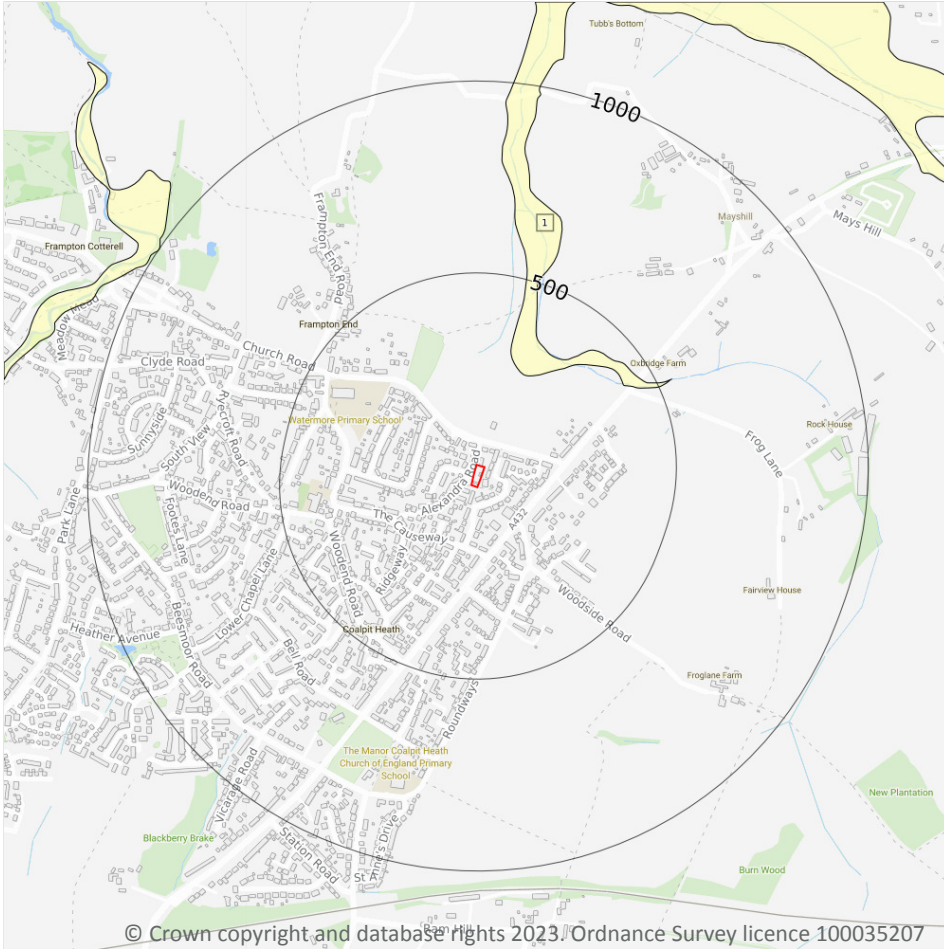
0



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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



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

1.3 Superficial geology (10k)

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 13](#) >

ID	Location	LEX Code	Description	Rock description
1	262m NE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.



1.4 Landslip (10k)

Records within 500m

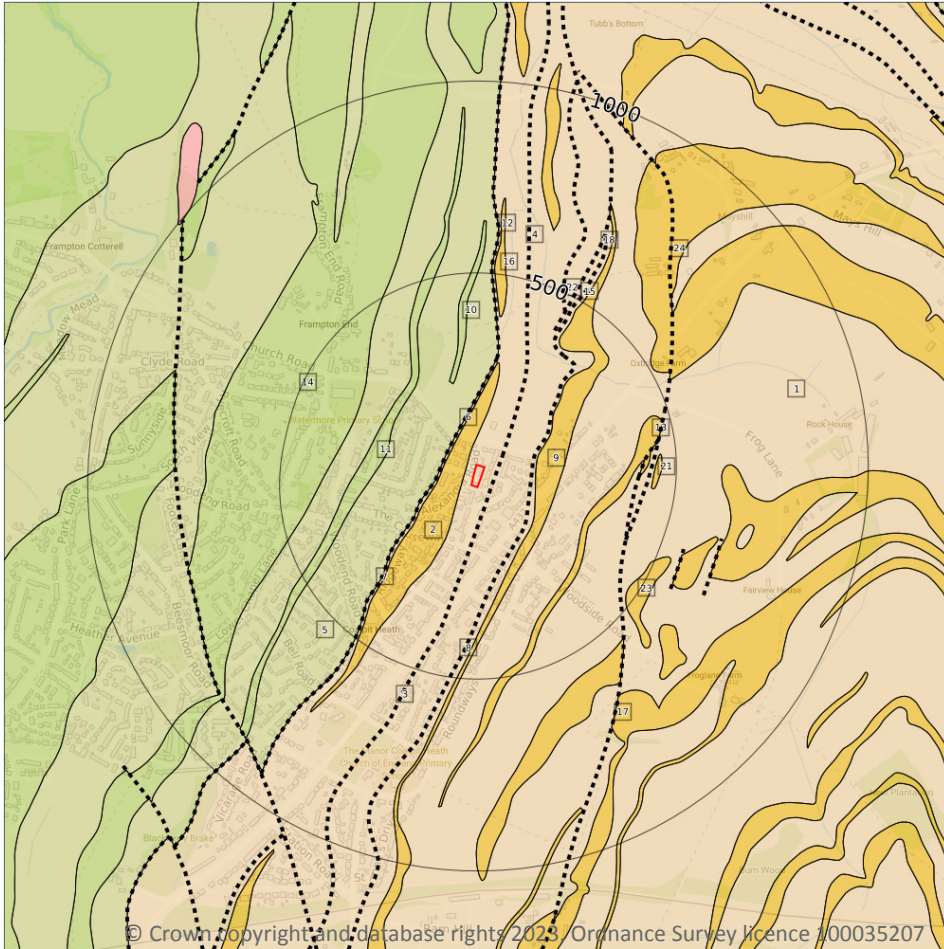
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



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

1.5 Bedrock geology (10k)

Records within 500m

11

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 15](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	FABR-MDST	Farrington Member And Barren Red Member (undifferentiated) - Mudstone	Westphalian D Sub-age
2	23m NW	FABR-SDST	Farrington Member And Barren Red Member (undifferentiated) - Sandstone	Westphalian D Sub-age
5	83m NW	MGF-MDST	Mangotsfield Member - Mudstone	Bolsovia Sub-age



ID	Location	LEX Code	Description	Rock age
9	134m E	FABR-SDST	Farrington Member And Barren Red Member (undifferentiated) - Sandstone	Westphalian D Sub-age
10	220m N	MGF-SDST	Mangotsfield Member - Sandstone	Bolsoviaian Sub-age
11	233m W	MGF-SDST	Mangotsfield Member - Sandstone	Bolsoviaian Sub-age
13	291m SE	FABR-SDST	Farrington Member And Barren Red Member (undifferentiated) - Sandstone	Westphalian D Sub-age
14	338m NW	MGF-SDST	Mangotsfield Member - Sandstone	Bolsoviaian Sub-age
16	391m N	FABR-SDST	Farrington Member And Barren Red Member (undifferentiated) - Sandstone	Westphalian D Sub-age
21	438m E	FABR-SDST	Farrington Member And Barren Red Member (undifferentiated) - Sandstone	Westphalian D Sub-age
23	474m SE	FABR-SDST	Farrington Member And Barren Red Member (undifferentiated) - Sandstone	Westphalian D Sub-age

This data is sourced from the British Geological Survey.

1.6 Bedrock faults and other linear features (10k)

Records within 500m	13
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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 15 >](#)

ID	Location	Category	Description
3	33m E	ROCK	Coal seam, inferred
4	56m NE	ROCK	Coal seam, observed
6	83m NW	ROCK	Coal seam, inferred coincident with bedrock geology boundary
7	109m W	ROCK	Coal seam, observed coincident with bedrock geology boundary
8	124m E	ROCK	Coal seam, inferred
12	282m N	ROCK	Coal seam, observed coincident with bedrock geology boundary
15	356m NE	ROCK	Coal seam, observed
17	396m E	FAULT	Normal fault, inferred
18	400m NE	FAULT	Normal fault, inferred

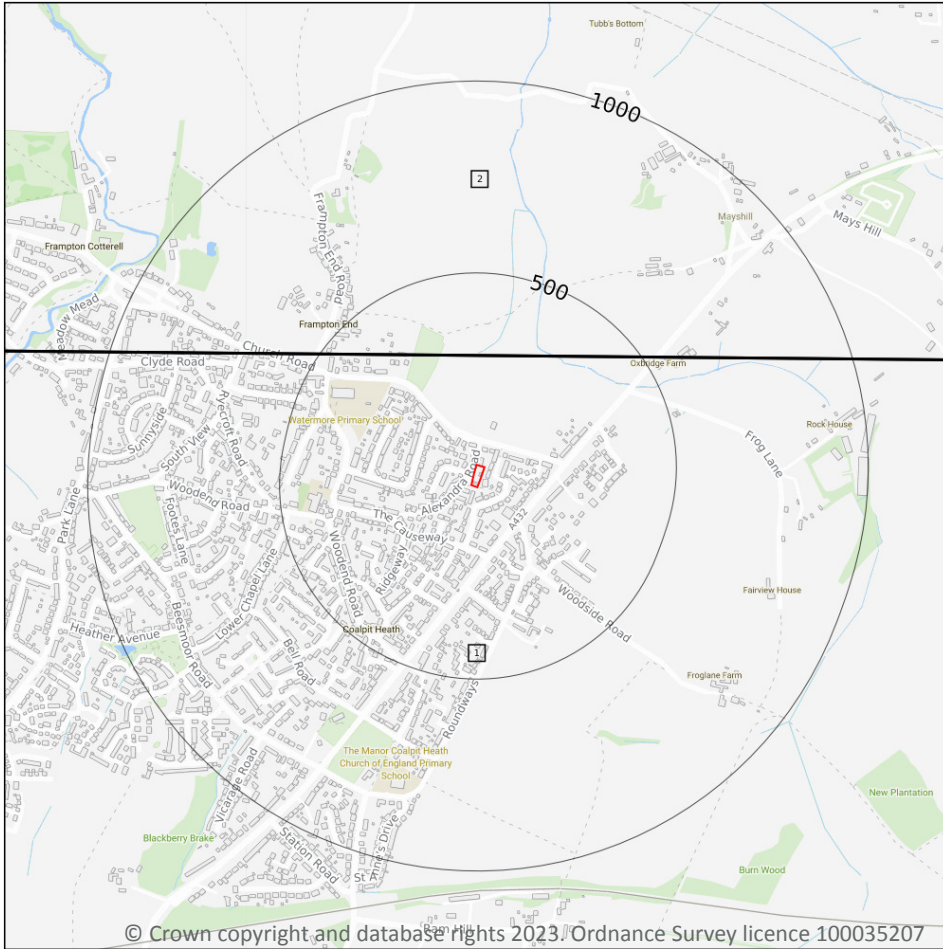


ID	Location	Category	Description
19	403m E	FAULT	Normal fault, observed
20	410m SE	FAULT	Normal fault, inferred
22	455m NE	ROCK	Coal seam, inferred
24	492m E	FAULT	Normal fault, observed

This data is sourced from the British Geological Survey.



2 Geology 1:50,000 scale - Availability



— Site Outline
 Search buffers in metres (m)

□ Geological map tile

2.1 50k Availability

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Availability map on [page 18](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW265_bath_v4
2	285m N	No coverage	Full	Full	Full	EW251_malmesbury_v4

This data is sourced from the British Geological Survey.



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

2.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

2.3 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.

2.4 Superficial geology (50k)

Records within 500m

2

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 20](#) >

ID	Location	LEX Code	Description	Rock description
1	262m NE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
2	299m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.



2.5 Superficial 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 superficial deposits (the zone between the land surface and the water table).

This data is sourced from the British Geological Survey.

2.6 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.

2.7 Landslip permeability (50k)

Records within 50m

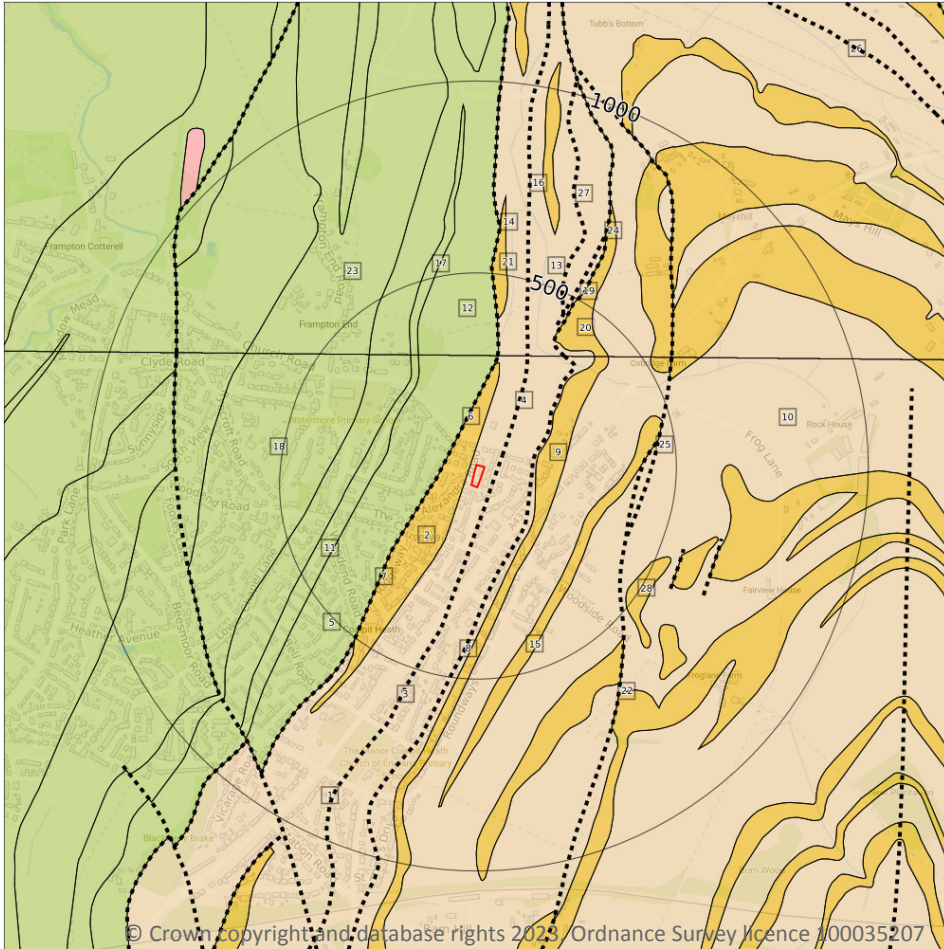
0

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.

2.8 Bedrock geology (50k)

Records within 500m

16

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 22](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	FABR-MDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - MUDSTONE	WESTPHALIAN
2	15m NW	FABR-SDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
5	77m NW	MGF-MDSS	MANGOTSFIELD MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	134m E	FABR-SDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - SANDSTONE	WESTPHALIAN
10	196m E	FABR-MDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - MUDSTONE	WESTPHALIAN
11	233m W	MGF-SDST	MANGOTSFIELD MEMBER - SANDSTONE	WESTPHALIAN
12	285m N	MGF-MDSS	MANGOTSFIELD MEMBER - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	290m N	FABR-MDSS	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
15	292m SE	FABR-SDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - SANDSTONE	WESTPHALIAN
17	324m NW	MGF-SDST	MANGOTSFIELD MEMBER - SANDSTONE	WESTPHALIAN
18	339m NW	MGF-SDST	MANGOTSFIELD MEMBER - SANDSTONE	WESTPHALIAN
20	373m NE	FABR-SDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - SANDSTONE	WESTPHALIAN
21	383m N	FABR-SDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - SANDSTONE	WESTPHALIAN
23	401m NW	MGF-SDST	MANGOTSFIELD MEMBER - SANDSTONE	WESTPHALIAN
26	433m NE	FABR-MDSS	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
28	474m SE	FABR-SDST	FARRINGTON MEMBER AND BARREN RED MEMBER (UNDIFFERENTIATED) - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

2.9 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	Low	Low



Location	Flow type	Maximum permeability	Minimum permeability
15m NW	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

2.10 Bedrock faults and other linear features (50k)

Records within 500m	12
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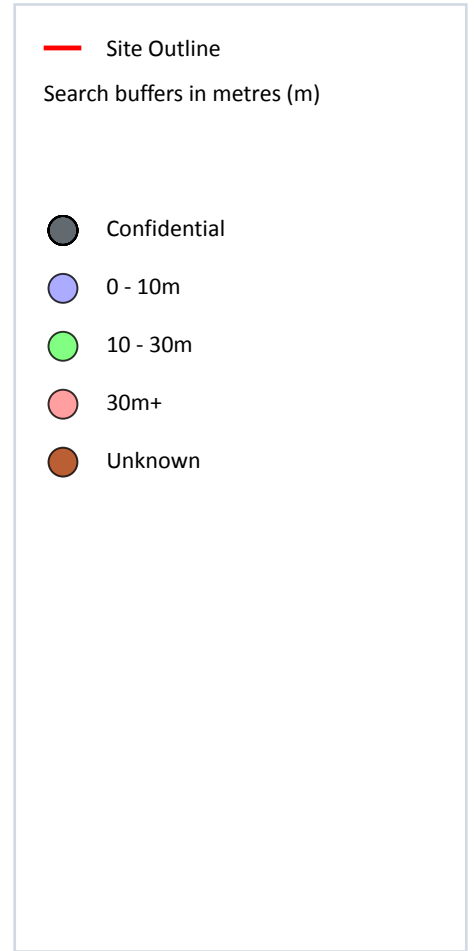
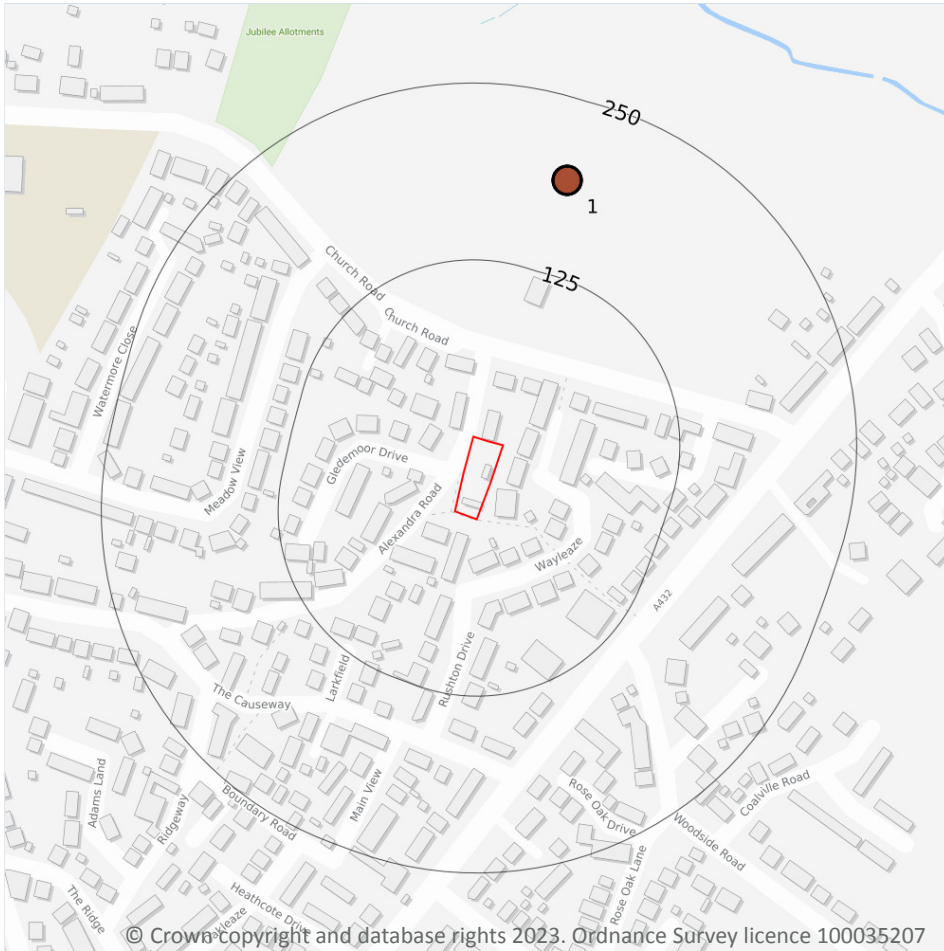
Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 22 >](#)

ID	Location	Category	Description
3	33m E	ROCK	Coal seam, inferred
4	56m NE	ROCK	Coal seam, observed
6	77m NW	ROCK	Coal seam, inferred
7	109m W	ROCK	Coal seam, observed
8	124m E	ROCK	Coal seam, inferred
14	290m N	ROCK	Coal seam, observed
16	311m NE	ROCK	Coal seam, observed
19	356m NE	ROCK	Coal seam, observed
22	396m E	FAULT	Fault, inferred, displacement unknown
24	407m NE	FAULT	Fault, inferred
25	410m SE	FAULT	Fault, inferred, displacement unknown
27	448m NE	ROCK	Coal seam, observed

This data is sourced from the British Geological Survey.

3 Boreholes



3.1 BGS Boreholes

Records within 250m

1

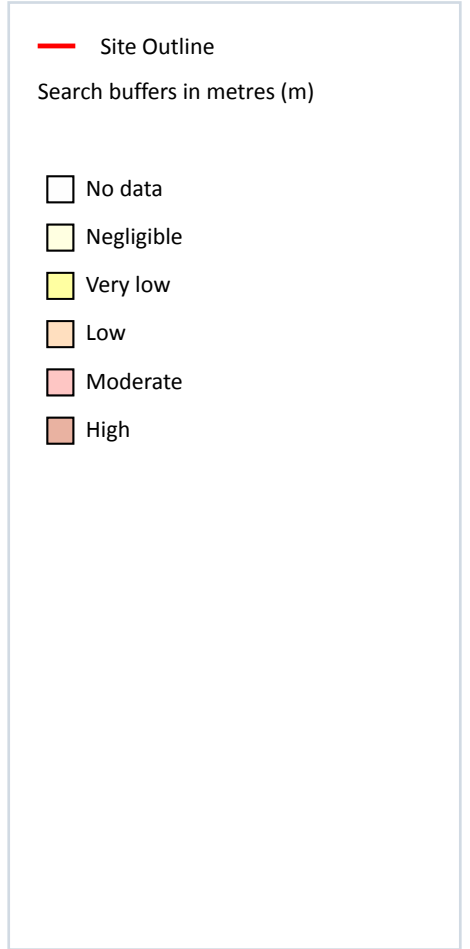
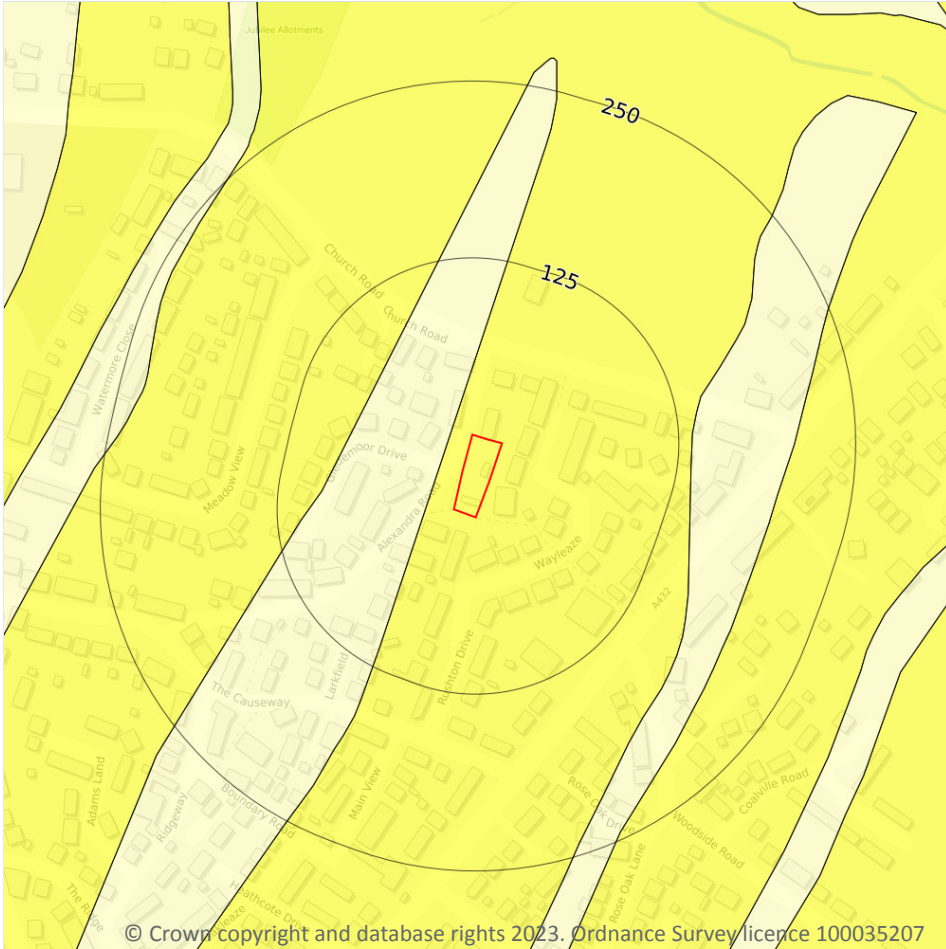
The Single Onshore Boreholes Index (SOBI); an index of over one million records of boreholes, shafts and wells from all forms of drilling and site investigation work held by the British Geological Survey. Covering onshore and nearshore boreholes dating back to at least 1790 and ranging from one to several thousand metres deep.

Features are displayed on the Boreholes map on [page 25](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	193m N	367800 181600	FRAMPTON CHURCH ROAD	-1.0	N	391589 ↗

This data is sourced from the British Geological Survey.

4 Natural ground subsidence - Shrink swell clays



4.1 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).

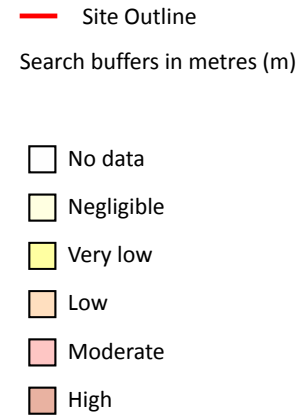
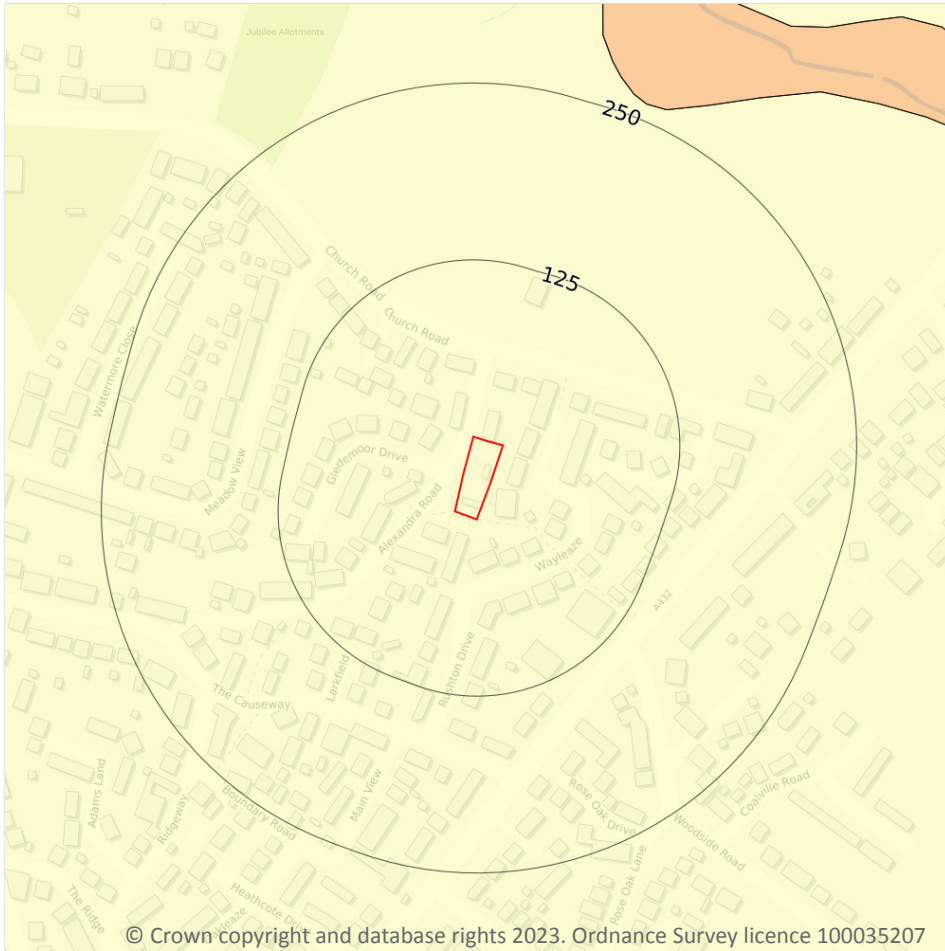
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 26 >](#)

Location	Hazard rating	Details
On site	Very low	Ground conditions predominantly low plasticity.
15m NW	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



4.2 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.

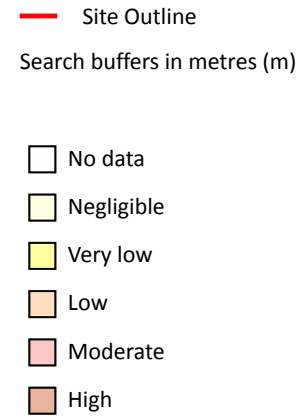
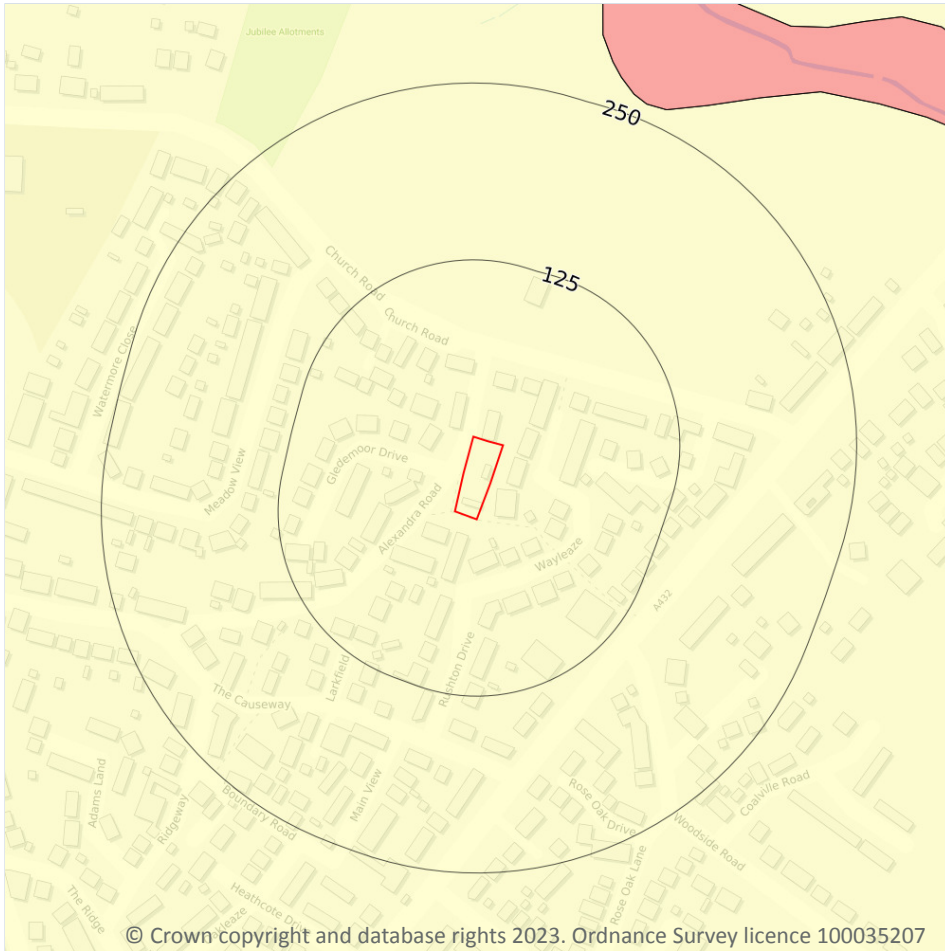
Features are displayed on the Natural ground subsidence - Running sands map on [page 27 >](#)

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.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



4.3 Compressible deposits

Records within 50m

1

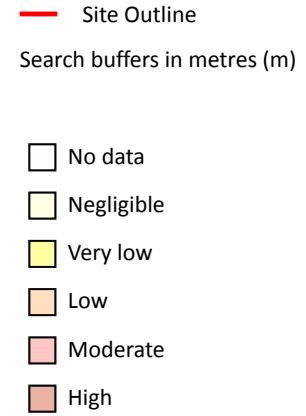
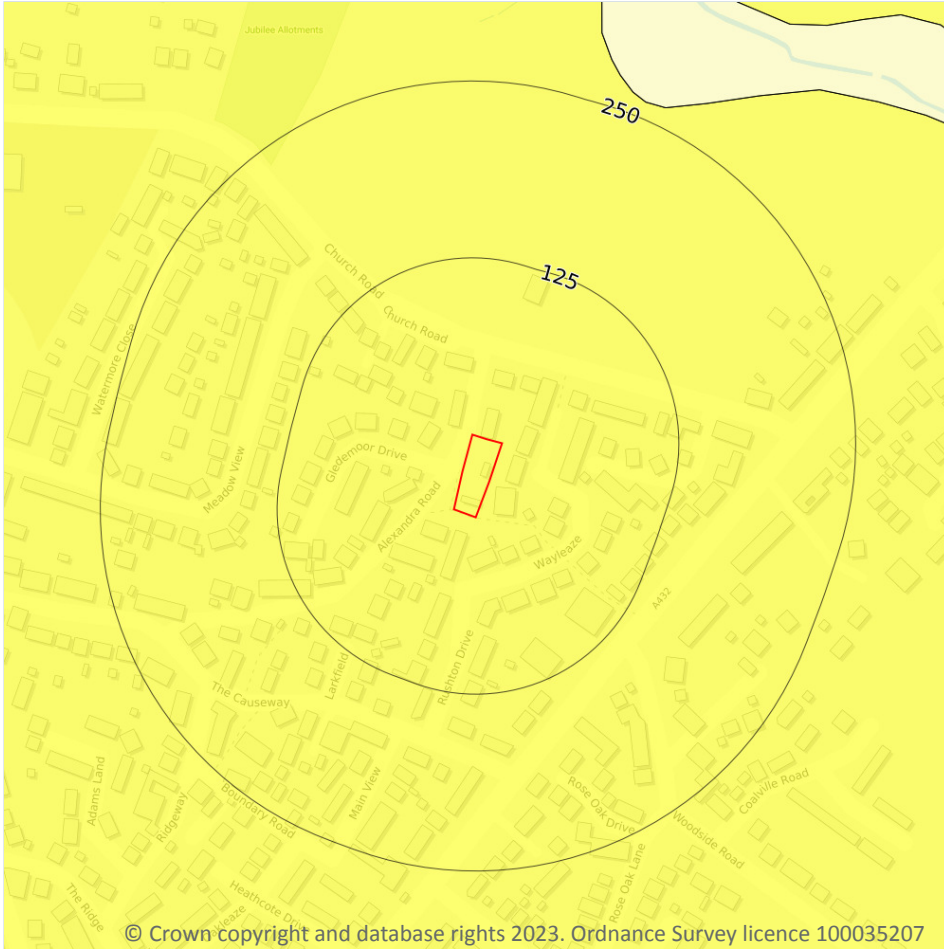
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on [page 28 >](#)

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



4.4 Collapsible deposits

Records within 50m

1

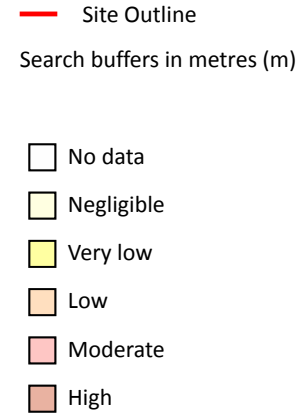
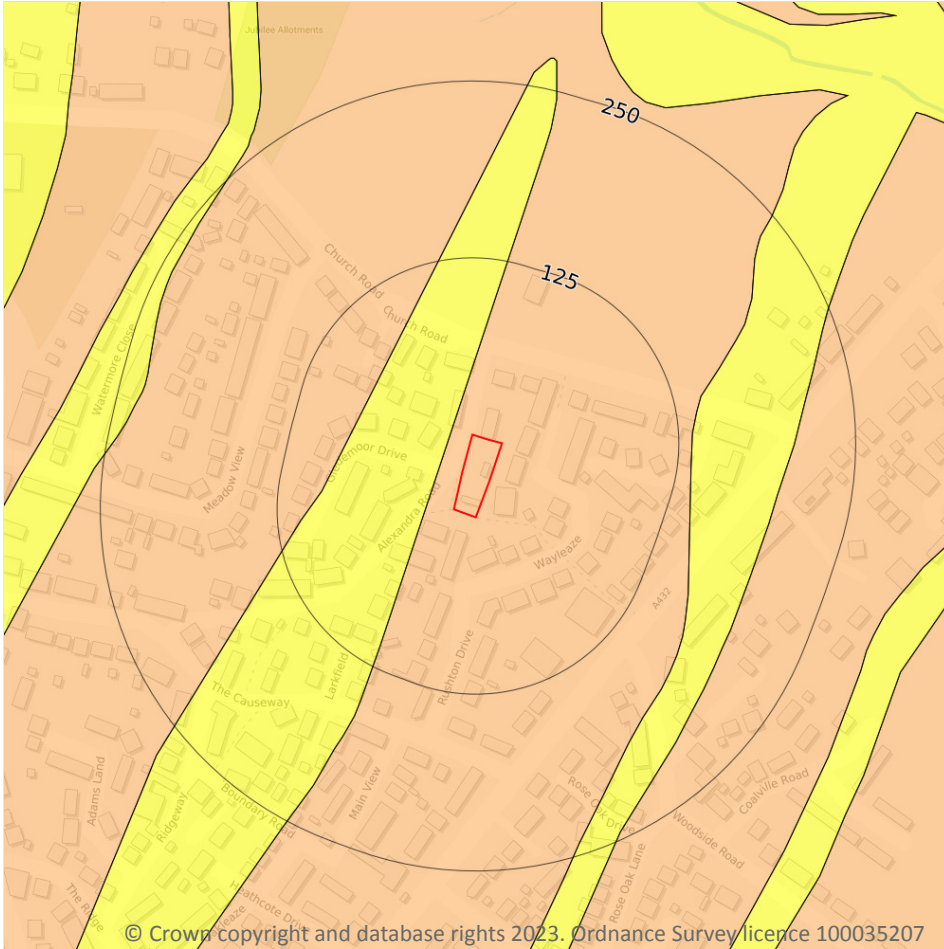
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 29 >](#)

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



4.5 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 30 >](#)

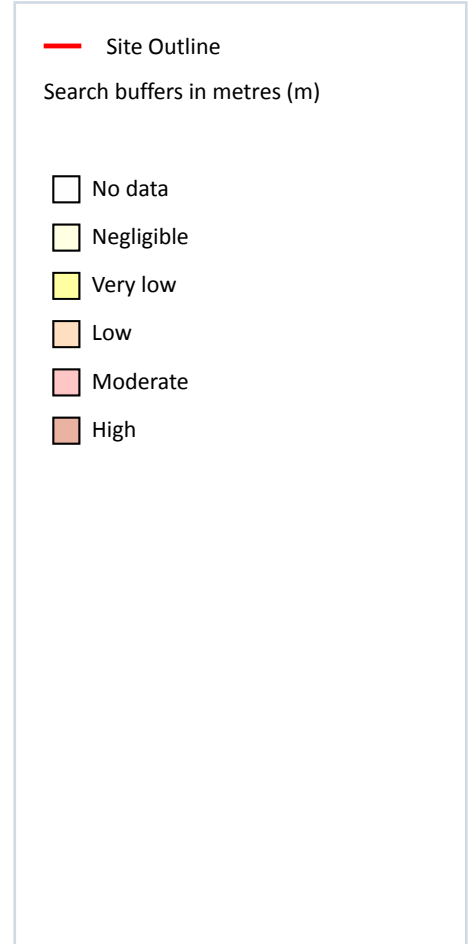
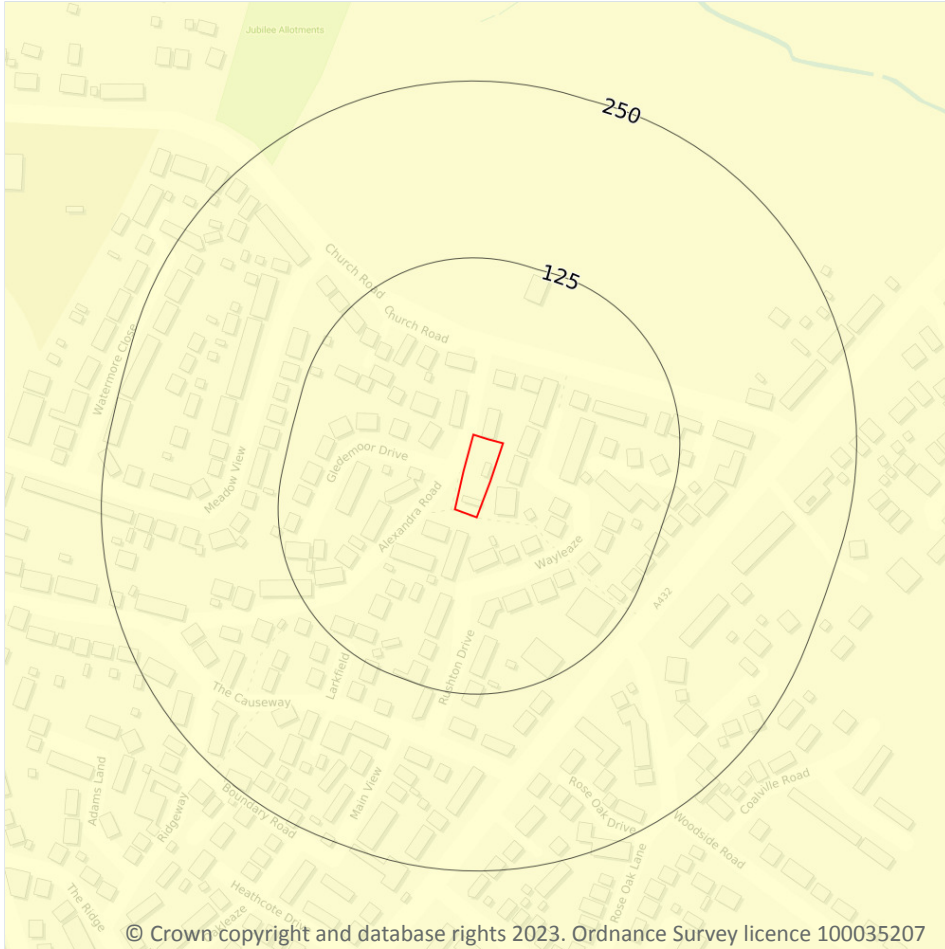
Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

Location	Hazard rating	Details
15m NW	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



4.6 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.

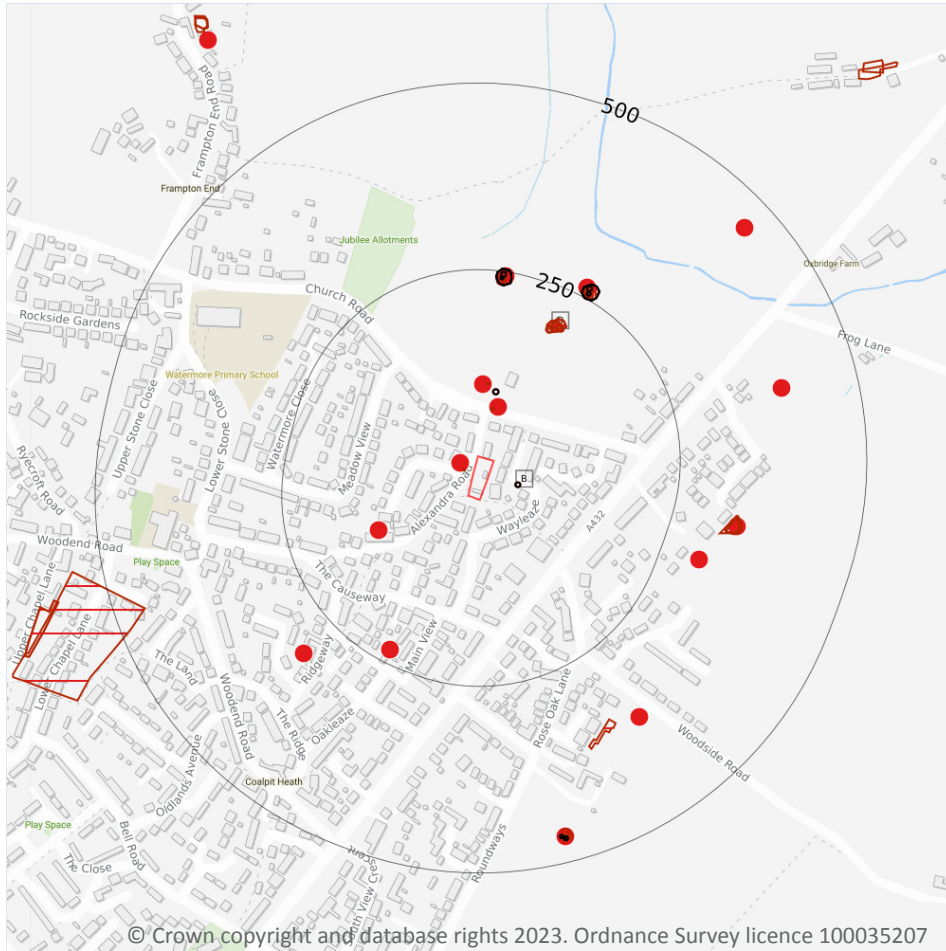
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 32](#)

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.



5 Mining and ground workings



5.1 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 34 >](#)

ID	Location	Details	Description
A	20m NW	Name: Adam's Land Pits Address: Adam's Land, Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	71m N	Name: Watermore Lane Pits Address: Frampton End, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	96m N	Name: Watermore Lane Pits Address: Frampton End, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
1	128m SW	Name: Adam's Land Pits Address: Adam's Land, Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
2	231m SW	Name: Bryant's Pit Address: Adam's Land, Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
E	243m N	Name: Jarretts Pit Address: Frampton End, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	264m NE	Name: Frampton End Pit Address: Frampton End, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
3	303m E	Name: Leonards Pits Address: Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	305m SW	Name: Adam's Land Pits Address: Adam's Land, Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	337m E	Name: Leonards Pits Address: Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	360m SE	Name: Half Moon Pit Address: Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	397m E	Name: Oxbridge Pit Address: Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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
8	458m NE	Name: Oxbridge Farm Address: Frampton End, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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	464m S	Name: Back Lane Pit Address: Coalpit Heath, BRISTOL, Avon Commodity: Coal, Deep Status: Ceased	Type: Working is wholly underground, access by shaft, adit or drift. Working may be termed Colliery, Mine, Drift Mine, Slant, Level, Adit or Ingoing Eye (Ingaun Ee - Scots) 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.

5.2 Surface ground workings

Records within 250m

31

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 34 >](#)



ID	Location	Land Use	Year of mapping	Mapping scale
A	12m NW	Old Coal Pit	1886	1:10560
A	12m NW	Old Coal Pit	1886	1:10560
B	38m E	Old Coal Pit	1881	1:10560
C	64m N	Old Coal Pits	1886	1:10560
C	64m N	Old Coal Pits	1886	1:10560
C	86m N	Old Coal Pit	1881	1:10560
C	97m N	Old Coal Pits	1886	1:10560
C	97m N	Old Coal Pits	1886	1:10560
D	187m NE	Unspecified Heap	1881	1:10560
D	187m NE	Unspecified Heap	1886	1:10560
D	187m NE	Unspecified Heap	1886	1:10560
D	191m NE	Unspecified Ground Workings	1901	1:10560
D	191m NE	Unspecified Ground Workings	1921	1:10560
D	191m NE	Unspecified Heap	1916	1:10560
D	194m NE	Unspecified Ground Workings	1965	1:10560
D	195m NE	Unspecified Heap	1954	1:10560
E	231m N	Old Coal Pits	1901	1:10560
E	231m N	Old Coal Pits	1921	1:10560
E	231m N	Unspecified Old Pits	1936	1:10560
E	231m N	Old Coal Pits	1916	1:10560
E	232m N	Unspecified Heap	1965	1:10560
E	234m N	Unspecified Old Pits	1954	1:10560
E	236m N	Unspecified Old Pits	1965	1:10560
E	239m N	Old Coal Pit	1881	1:10560
E	240m N	Old Coal Pit	1886	1:10560
E	240m N	Old Coal Pit	1886	1:10560
F	249m NE	Unspecified Heap	1965	1:10560
F	250m NE	Old Coal Pits	1901	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	250m NE	Old Coal Pits	1921	1:10560
F	250m NE	Unspecified Old Pits	1936	1:10560
F	250m NE	Old Coal Pits	1916	1:10560

This data is sourced from Ordnance Survey/Groundsure.

5.3 Underground workings

Records within 1000m

22

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 34](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
B	38m E	Old Coal Pit	1881	1:10560
C	86m N	Old Coal Pit	1881	1:10560
E	231m N	Old Coal Pits	1901	1:10560
E	231m N	Old Coal Pits	1921	1:10560
E	231m N	Old Coal Pits	1916	1:10560
E	239m N	Old Coal Pit	1881	1:10560
E	243m N	Disused Mine Shafts	1978	1:10000
F	250m NE	Old Coal Pits	1901	1:10560
F	250m NE	Old Coal Pits	1921	1:10560
F	250m NE	Old Coal Pits	1916	1:10560
F	255m NE	Old Coal Pit	1881	1:10560
F	261m NE	Disused Mine Shafts	1978	1:10000
H	462m S	Old Coal Pit	1881	1:10560
H	465m S	Old Coal Pit	1901	1:10560
H	465m S	Old Coal Pit	1921	1:10560
H	465m S	Old Coal Pit	1916	1:10560
-	643m S	Old Coal Pit	1881	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	644m S	Old Coal Pit	1901	1:10560
-	644m S	Old Coal Pit	1921	1:10560
-	865m NW	Air Shafts	1901	1:10560
-	868m NW	Air Shaft	1881	1:10560
-	892m NW	Air Shafts	1901	1:10560

This data is sourced from Ordnance Survey/Groundsure.

5.4 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.

5.5 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.

5.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.



5.7 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.

5.8 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.

5.9 Researched mining

Records within 500m

1

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

Location	Mineral type
197m SW	Unspecified

This data is sourced from Groundsure.

5.10 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.



5.11 BGS mine plans

Records within 500m	1
----------------------------	----------

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

Location	Mineral
On site	Coal

This data is sourced from Groundsure.

5.12 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.

5.13 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.

5.14 Gypsum areas

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

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.



5.15 Tin mining

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

This data is sourced from Groundsure.

5.16 Clay mining

Records on site	0
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Generalised areas that may be affected by kaolin and ball clay extraction.

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

6 Ground cavities and sinkholes

6.1 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.

6.2 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.

6.3 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.

6.4 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.

6.5 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.

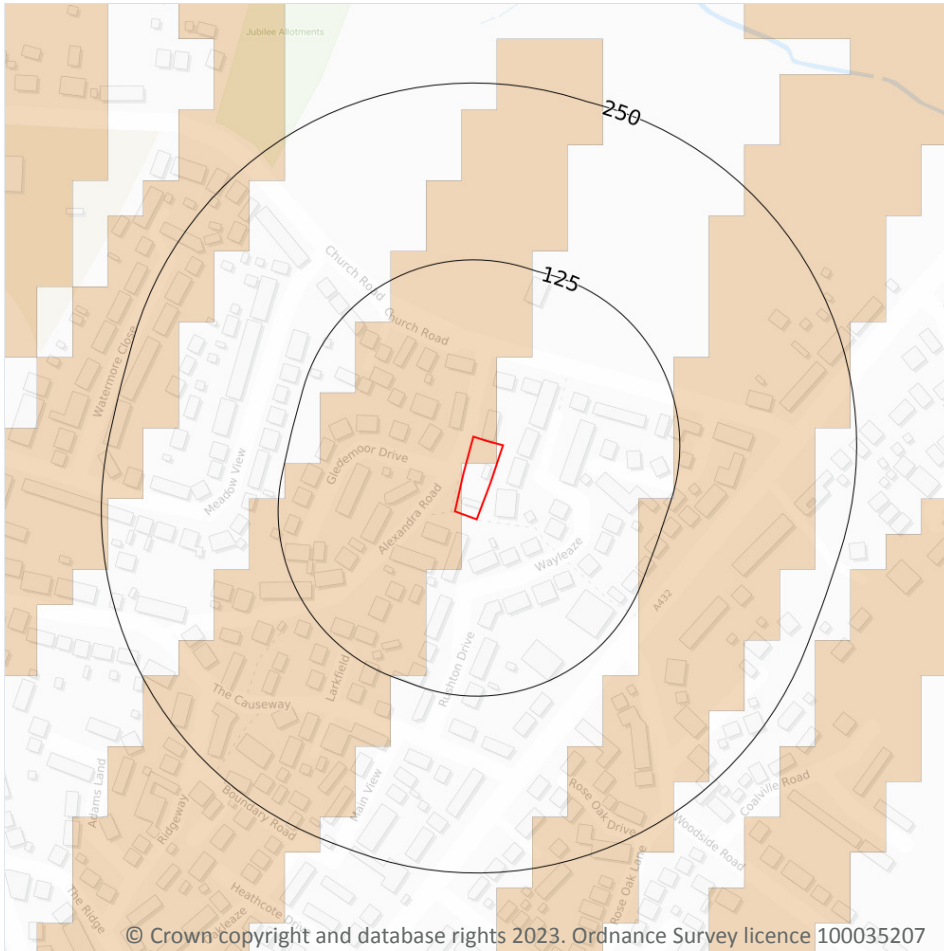
Since the database was set up in 2002 data covering most of the evaporite karst areas of the UK have now been added, along with data covering about 60% of the Chalk, and 35% of the Carboniferous Limestone outcrops. Many of the classic upland karst areas have yet to be included. Recorded so far are: Over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



7 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%

7.1 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 46 >](#)

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



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.



8 Soil chemistry

8.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 km². In areas where rural soil samples are not available, estimation is based on stream sediment data collected from small streams at a sampling density of 1 per 2.5 km²; this is the case for most of Scotland, Wales and southern England. The stream sediment data are converted to soil-equivalent concentrations prior to the estimation.

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
19m NW	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.

8.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

8.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



9 Railway infrastructure and projects

9.1 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.

9.2 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.

9.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

9.4 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.

9.5 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.

9.6 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.

9.7 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.

9.8 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.

9.9 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.

9.10 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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