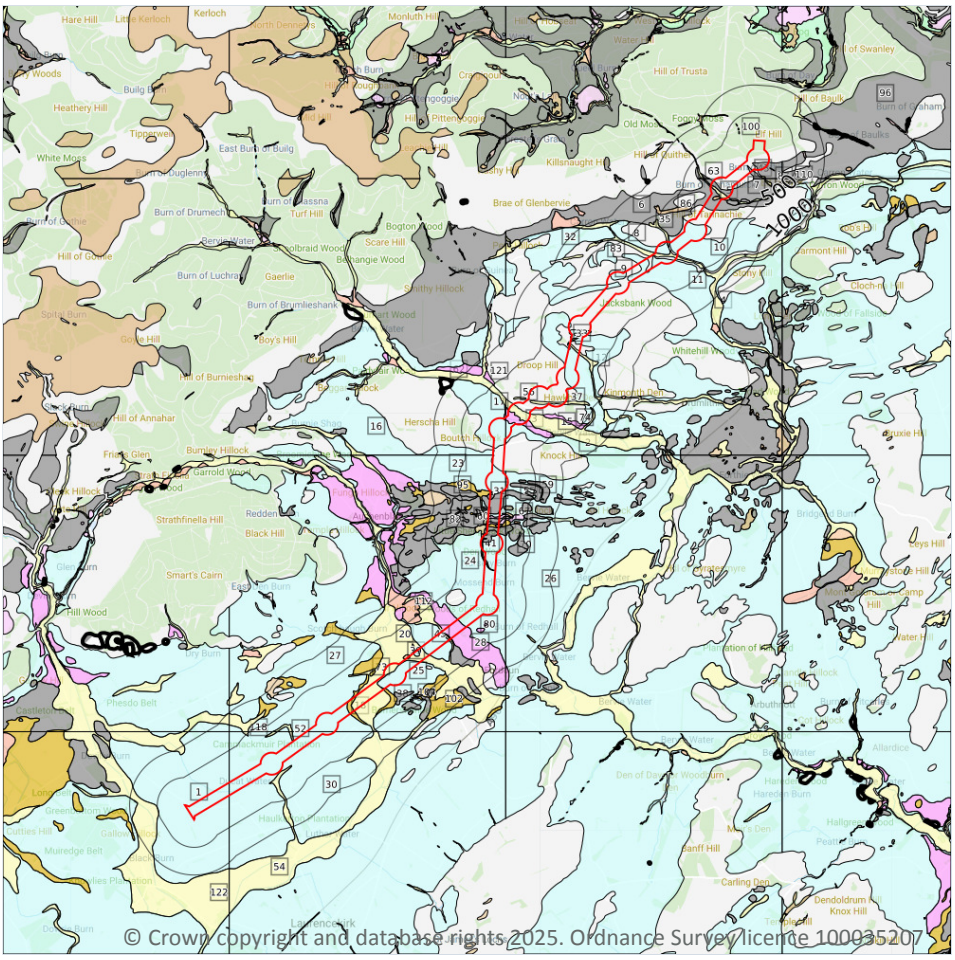
Geology 1:10,000 scale - Superficial



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 **122**

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 78 >**

ID	Location	LEX Code	Description	Rock description
1	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
2	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
3	On site	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
4	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
5	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
6	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
7	On site	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
8	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
9	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
10	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
11	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
12	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
13	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
14	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
15	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
16	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
17	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
18	On site	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
19	On site	PEAT-P	Peat - Peat	Peat
20	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
21	On site	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
22	On site	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
23	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
24	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
25	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
26	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
27	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
28	On site	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
29	On site	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
30	On site	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
31	**On site**	**MFT-XDCSV**	**Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel**	**Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]**
32	**On site**	**MFT-DMTN**	**Mill Of Forest Till Formation - Diamicton**	**Diamicton**
33	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
34	**On site**	**GFSD-XVSZ**	**Glaciofluvial Sheet Deposits - Gravel, Sand And Silt**	**Gravel, Sand And Silt**
35	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
36	**On site**	**PEAT-P**	**Peat - Peat**	**Peat**
37	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
38	**On site**	**USI-XCZS**	**Ury Silts Formation - Clay, Silt And Sand**	**Clay, Silt And Sand**
39	**On site**	**RTDU-XSV**	**River Terrace Deposits (undifferentiated) - Sand And Gravel**	**Sand And Gravel**
40	**On site**	**MFT-DMTN**	**Mill Of Forest Till Formation - Diamicton**	**Diamicton**
41	**On site**	**ALV-XCZSV**	**Alluvium - Clay, Silt, Sand And Gravel**	**Clay, Silt, Sand And Gravel**
42	**On site**	**USI-XCZS**	**Ury Silts Formation - Clay, Silt And Sand**	**Clay, Silt And Sand**
43	**On site**	**EGD-DMTN**	**East Grampian Glacigenic Subgroup - Diamicton**	**Diamicton**
44	**On site**	**GFIC-XSVB**	**Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders**	**Sand, Gravel And Boulders**
45	**On site**	**MFT-DMTN**	**Mill Of Forest Till Formation - Diamicton**	**Diamicton**
46	**On site**	**MFT-XDCSV**	**Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel**	**Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]**
47	**On site**	**MFT-DMTN**	**Mill Of Forest Till Formation - Diamicton**	**Diamicton**
48	**On site**	**GFIC-XSVB**	**Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders**	**Sand, Gravel And Boulders**
49	**On site**	**GFIC-XVSZ**	**Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt**	**Gravel, Sand And Silt**
50	**On site**	**EGD-DMTN**	**East Grampian Glacigenic Subgroup - Diamicton**	**Diamicton**
51	5m W	LDE-XCZS	Lacustrine Deposits - Clay, Silt And Sand	Clay, Silt And Sand
52	8m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
53	16m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
54	17m SE	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
55	28m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
56	34m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
57	43m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
58	46m E	PEAT-P	Peat - Peat	Peat
59	50m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
60	62m W	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
61	67m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
62	73m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
63	81m NW	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
64	93m NE	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
65	96m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
66	108m E	PEAT-P	Peat - Peat	Peat
67	110m E	GFIC-XVSZ	Glaciofluvial Ice Contact Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
68	112m E	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
69	118m E	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
70	119m E	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
71	121m S	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
72	122m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
73	124m NW	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
74	125m S	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt

ID	Location	LEX Code	Description	Rock description
75	130m W	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
76	135m SW	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
77	143m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
78	144m NW	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
79	150m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
80	150m SE	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
81	153m S	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
82	155m NW	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
83	161m N	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
84	169m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
85	175m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
86	175m NW	PEAT-P	Peat - Peat	Peat
87	181m S	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
88	185m NW	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
89	198m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
90	202m SE	SUPD-UKNOWN	Superficial Deposits - Unknown/unclassified Entry	Unknown/unclassified Entry
91	207m W	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
92	211m NW	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
93	212m W	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
94	213m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
95	217m SW	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
96	240m E	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton

ID	Location	LEX Code	Description	Rock description
97	274m E	PEAT-P	Peat - Peat	Peat
98	281m NW	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
99	284m W	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
100	285m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
101	292m N	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
102	303m SE	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
103	312m W	USI-XCZS	Ury Silts Formation - Clay, Silt And Sand	Clay, Silt And Sand
104	325m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
105	328m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
106	330m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
107	337m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
108	347m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
109	355m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
110	365m SE	EGD-DMTN	East Grampian Glacigenic Subgroup - Diamicton	Diamicton
111	385m W	MFT-XDCSV	Mill Of Forest Till Formation - Diamicton, Clay, Sand And Gravel	Diamicton, Clay, Sand And Gravel [unlithified Deposits Coding Scheme - Extended]
112	390m NW	ALF-XZSV	Alluvial Fan Deposits - Silt, Sand And Gravel	Silt, Sand And Gravel
113	390m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
114	396m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
115	411m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
116	435m E	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
117	454m SE	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
118	458m NW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

ID	Location	LEX Code	Description	Rock description
119	468m W	GFIC-XSVB	Glaciofluvial Ice Contact Deposits - Sand, Gravel And Boulders	Sand, Gravel And Boulders
120	470m SE	MFT-DMTN	Mill Of Forest Till Formation - Diamicton	Diamicton
121	480m NW	GFSD-XVSZ	Glaciofluvial Sheet Deposits - Gravel, Sand And Silt	Gravel, Sand And Silt
122	489m W	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel

This data is sourced from the British Geological Survey.

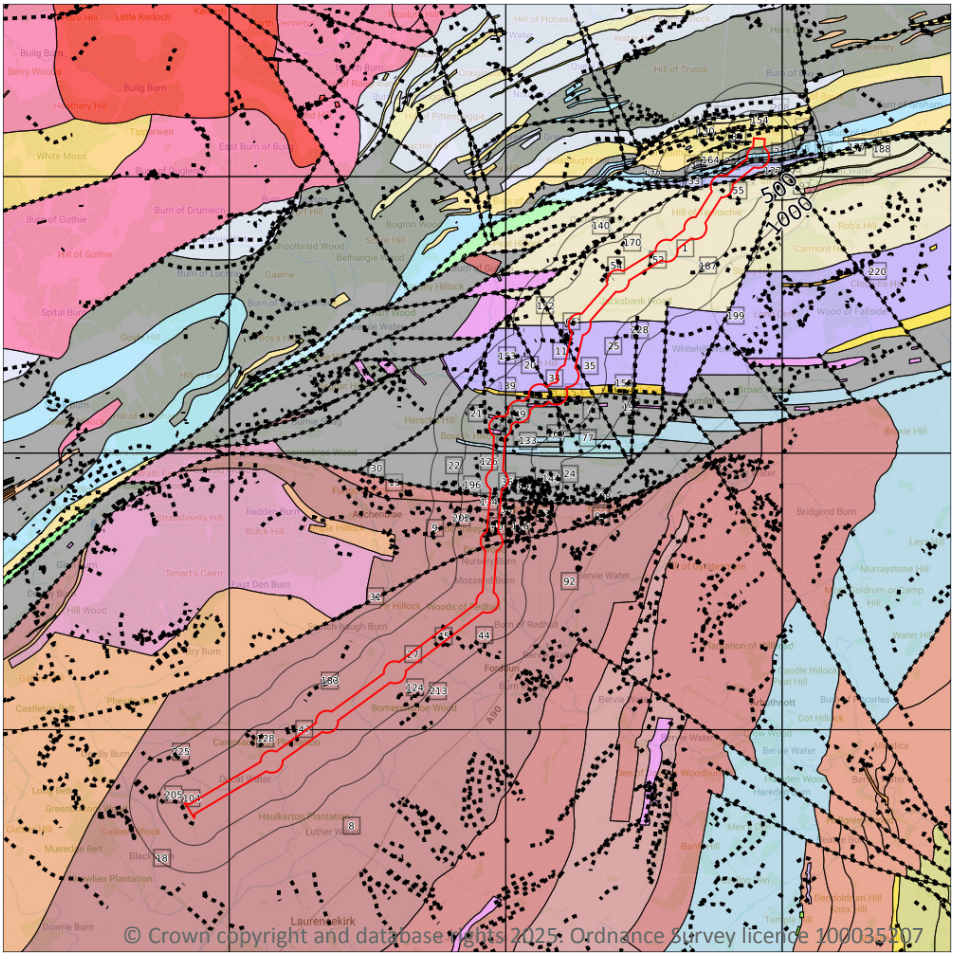
14.4 Landslip (10k)

Records within 500m	**0**

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m	82

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 85 >**

ID	Location	LEX Code	Description	Rock age
1	On site	CRN-SDST	Carron Sandstone Formation - Sandstone	Ludlow Epoch - Wenlock Epoch
2	On site	ATGK-ANDR	Arbuthnott-garvock Group - Andesitic-rock	Pragian Age - Lochkovian Age
3	On site	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era

ID	Location	LEX Code	Description	Rock age
4	On site	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
5	On site	ATGK-ANDR	Arbuthnott-garvock Group - Andesitic-rock	Pragian Age - Lochkovian Age
6	On site	ATGK-ANDR	Arbuthnott-garvock Group - Andesitic-rock	Pragian Age - Lochkovian Age
7	On site	MVF-ANDCLA	Montrose Volcanic Formation - Andesitic Lava	Pragian Age - Lochkovian Age
8	On site	CXF-MDST	Cromlix Mudstone Formation - Mudstone	Emsian Age
9	On site	CXF-MDST	Cromlix Mudstone Formation - Mudstone	Emsian Age
10	On site	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era
11	On site	DRCR-COSD	Dunnottar-crawton Group - Conglomerate And [subequal/subordinate] Sandstone, Interbedded	Lochkovian Age - Ludlow Epoch
12	On site	LNP-DATUF	Lintrathen Tuff Member - Dacitic Tuff	Lochkovian Age - Pridoli Epoch
13	On site	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
14	On site	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
15	On site	DECO-CONG	Deep Conglomerate Formation - Conglomerate	Pragian Age - Lochkovian Age
16	On site	LNP-DATUF	Lintrathen Tuff Member - Dacitic Tuff	Lochkovian Age - Pridoli Epoch
17	On site	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
18	On site	CXF-MDST	Cromlix Mudstone Formation - Mudstone	Emsian Age
19	On site	ATGK-ANDR	Arbuthnott-garvock Group - Andesitic-rock	Pragian Age - Lochkovian Age
20	On site	DRCR-COSD	Dunnottar-crawton Group - Conglomerate And [subequal/subordinate] Sandstone, Interbedded	Lochkovian Age - Ludlow Epoch
21	On site	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
22	On site	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
23	On site	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
24	On site	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
25	On site	DRCR-COSD	Dunnottar-crawton Group - Conglomerate And [subequal/subordinate] Sandstone, Interbedded	Lochkovian Age - Ludlow Epoch

ID	Location	LEX Code	Description	Rock age
26	**On site**	**GLGT-PSCMB**	**Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite**	**Neoproterozoic Era**
27	**On site**	**CXF-MDST**	**Cromlix Mudstone Formation - Mudstone**	**Emsian Age**
28	**On site**	**GLGT-PESP**	**Glen Lethnot Grit Formation - Pelite And Semipelite**	**Neoproterozoic Era**
74	6m NW	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
75	8m NW	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
77	22m E	MVF-ANDCLA	Montrose Volcanic Formation - Andesitic Lava	Pragian Age - Lochkovian Age
79	24m E	MVF-ANDCLA	Montrose Volcanic Formation - Andesitic Lava	Pragian Age - Lochkovian Age
80	26m W	SDCAD-FPMGN	North Britain Siluro-devonian Calc-alkaline Dyke Suite - Feldspar-phyric Microgranite	Devonian Period - Silurian Period
82	30m E	MVF-ANDCLA	Montrose Volcanic Formation - Andesitic Lava	Pragian Age - Lochkovian Age
85	33m SE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
87	40m S	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
89	43m W	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
92	55m E	CXF-MDST	Cromlix Mudstone Formation - Mudstone	Emsian Age
93	56m E	CXF-MDST	Cromlix Mudstone Formation - Mudstone	Emsian Age
99	67m SE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
100	68m SE	GLGT-SPSCH	Glen Lethnot Grit Formation - Schistose Semipelite	Neoproterozoic Era
103	76m NW	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
112	101m S	GLGT-SPSCH	Glen Lethnot Grit Formation - Schistose Semipelite	Neoproterozoic Era
125	150m S	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
127	159m S	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
129	165m N	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
135	175m S	CRN-SDST	Carron Sandstone Formation - Sandstone	Ludlow Epoch - Wenlock Epoch
139	185m NW	LNP-DATUF	Lintrathen Tuff Member - Dacitic Tuff	Lochkovian Age - Pridoli Epoch

ID	Location	LEX Code	Description	Rock age
140	185m W	CRN-SDST	Carron Sandstone Formation - Sandstone	Ludlow Epoch - Wenlock Epoch
150	219m SE	LNP-DATUF	Lintrathen Tuff Member - Dacitic Tuff	Lochkovian Age - Pridoli Epoch
152	224m W	CRN-SDST	Carron Sandstone Formation - Sandstone	Ludlow Epoch - Wenlock Epoch
153	232m NW	DRCR-COSD	Dunnottar-crawton Group - Conglomerate And [subequal/subordinate] Sandstone, Interbedded	Lochkovian Age - Ludlow Epoch
155	238m E	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era
156	239m E	GLGT-PSCMB	Glen Lethnot Grit Formation - Magnetite-bearing Schistose Psammite	Neoproterozoic Era
158	241m E	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
159	245m E	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
160	250m E	GLGT-PSAMIF	Glen Lethnot Grit Formation - Flaggy Micaceous Psammite	Neoproterozoic Era
164	260m NW	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
165	271m E	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
168	277m SE	GLGT-SPSCH	Glen Lethnot Grit Formation - Schistose Semipelite	Neoproterozoic Era
169	283m S	MVF-ANDCLA	Montrose Volcanic Formation - Andesitic Lava	Pragian Age - Lochkovian Age
171	290m SE	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
172	295m W	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
174	300m NE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
176	322m SE	CRN-SDST	Carron Sandstone Formation - Sandstone	Ludlow Epoch - Wenlock Epoch
184	346m SE	CWE-SDST	Cowie Sandstone Formation - Sandstone	Gorstian Age - Homerian Age
186	348m N	GLGT-PSAMM	Glen Lethnot Grit Formation - Psammite	Neoproterozoic Era
188	352m SE	CWE-SDST	Cowie Sandstone Formation - Sandstone	Gorstian Age - Homerian Age
189	352m SE	NOE-MBPP	North Esk Formation [not Same As Nes] - Metabasalt, Psammite And Pelite	Abereiddian Age - Tremadoc Epoch
195	364m SE	ATGK-SCON	Arbuthnott-garvock Group - Interbedded Sandstone And Conglomerate	Pragian Age - Lochkovian Age
A	365m SE	CRN-SDST	Carron Sandstone Formation - Sandstone	Ludlow Epoch - Wenlock Epoch

ID	Location	LEX Code	Description	Rock age
197	367m SE	CWE-SDST	Cowie Sandstone Formation - Sandstone	Gorstian Age - Homerian Age
198	368m SE	CWE-SDST	Cowie Sandstone Formation - Sandstone	Gorstian Age - Homerian Age
203	380m NE	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
208	410m N	GLGT-PSAMG	Glen Lethnot Grit Formation - Gritty Psammite	Neoproterozoic Era
210	415m N	GLGT-SPPM	Glen Lethnot Grit Formation - Semipelite And Micaceous Psammite	Neoproterozoic Era
216	449m NW	GLGT-PEPH	Glen Lethnot Grit Formation - Phyllitic Pelite	Neoproterozoic Era
219	462m SE	CWE-SDST	Cowie Sandstone Formation - Sandstone	Gorstian Age - Homerian Age
221	468m NW	SDCAD-MCGD	North Britain Siluro-devonian Calc-alkaline Dyke Suite - Microgranodiorite	Devonian Period - Silurian Period
222	470m E	GLGT-PESP	Glen Lethnot Grit Formation - Pelite And Semipelite	Neoproterozoic Era
226	476m NW	LNP-DATUF	Lintrathen Tuff Member - Dacitic Tuff	Lochkovian Age - Pridoli Epoch
231	490m SE	CWHC-CONG	Cowie Harbour Conglomerate Member - Conglomerate	Gorstian Age - Homerian Age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m **152**

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 85 >**

ID	Location	Category	Description
29	**On site**	**ALTERATION_AREA**	**Limit of pegmatitic rock veins; symbol within vein complex**
30	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
31	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
32	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
33	**On site**	**FAULT**	**Normal fault, inferred; crossmarks on downthrow side**
34	**On site**	**FAULT**	**Strike slip fault, inferred**

ID	Location	Category	Description
35	On site	FAULT	Strike slip fault, inferred
36	On site	LANDFORM	Glacial overflow channel centre line
37	On site	LANDFORM	Drumlin, form-line at base of mound
38	On site	LANDFORM	Drumlin, form-line at base of mound
39	On site	LANDFORM	Drumlin, form-line at base of mound
40	On site	LANDFORM	Glacial overflow channel centre line
41	On site	LANDFORM	Drumlin, form-line at base of mound
42	On site	LANDFORM	Drumlin, form-line at base of mound
43	On site	LANDFORM	Glacial overflow channel centre line
44	On site	LANDFORM	Backfeature of terrace margin, arrowheads denote uphill side
45	On site	LANDFORM	Glacial overflow channel centre line
46	On site	LANDFORM	Glacial overflow channel centre line
47	On site	LANDFORM	Glacial meltwater channel margins
48	On site	LANDFORM	Glacial meltwater channel margins
49	On site	LANDFORM	Glacial overflow channel centre line
50	On site	LANDFORM	Glacial overflow channel centre line
51	On site	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
52	On site	LANDFORM	Glacial overflow channel centre line
53	On site	LANDFORM	Glacial overflow channel centre line
54	On site	LANDFORM	Glacial overflow channel centre line
55	On site	LANDFORM	Glacial overflow channel centre line
56	On site	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
57	On site	LANDFORM	Glacial overflow channel centre line
58	On site	LANDFORM	Glacial overflow channel centre line
59	On site	LANDFORM	Glacial overflow channel centre line
60	On site	LANDFORM	Glacial overflow channel centre line
61	On site	LANDFORM	Glacial meltwater channel margins
62	On site	LANDFORM	Glacial meltwater channel margins

ID	Location	Category	Description
63	**On site**	**LANDFORM**	**Glacial meltwater channel margins**
64	**On site**	**LANDFORM**	**Glacial overflow channel centre line**
65	**On site**	**LANDFORM**	**Glacial overflow channel centre line branch**
66	**On site**	**LANDFORM**	**Glacial overflow channel centre line branch**
67	**On site**	**LANDFORM**	**Glacial overflow channel centre line branch**
68	**On site**	**LANDFORM**	**Glacial overflow channel centre line branch**
69	**On site**	**LANDFORM**	**Glacial overflow channel centre line**
70	**On site**	**LANDFORM**	**Glacial overflow channel centre line**
71	**On site**	**LANDFORM**	**Glacial overflow channel centre line branch**
72	**On site**	**LANDFORM**	**Glacial overflow channel centre line**
73	3m W	LANDFORM	Glacial overflow channel centre line
76	15m E	LANDFORM	Glacial overflow channel centre line
78	23m SE	LANDFORM	Glacial overflow channel centre line branch
81	26m E	LANDFORM	Drumlin, form-line at base of mound
83	30m N	LANDFORM	Glacial overflow channel centre line
84	32m SE	LANDFORM	Drumlin, form-line at base of mound
86	33m W	LANDFORM	Glacial overflow channel centre line
88	40m S	FAULT	Normal fault, inferred; downthrow not specified
90	51m NW	LANDFORM	Glacial meltwater channel margins
91	54m SW	LANDFORM	Glacial overflow channel centre line branch
94	56m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
95	59m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
96	59m E	LANDFORM	Drumlin, form-line at base of mound
97	60m W	LANDFORM	Glacial overflow channel centre line
98	67m W	LANDFORM	Glacial overflow channel centre line branch
101	71m N	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
102	75m E	LANDFORM	Drumlin, form-line at base of mound
104	77m SW	LANDFORM	Glacial overflow channel centre line

ID	Location	Category	Description
105	78m N	LANDFORM	Glacial overflow channel centre line branch
106	78m SE	LANDFORM	Glacial overflow channel centre line
107	79m W	LANDFORM	Glacial overflow channel centre line
108	89m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
109	90m SW	LANDFORM	Glacial overflow channel centre line branch
110	97m E	LANDFORM	Drumlin, form-line at base of mound
111	101m NW	LANDFORM	Glacial overflow channel centre line branch
113	102m E	LANDFORM	Drumlin, form-line at base of mound
114	110m E	LANDFORM	Drumlin, form-line at base of mound
115	111m NW	LANDFORM	Glacial overflow channel centre line
116	111m E	LANDFORM	Glacial overflow channel centre line
117	116m E	LANDFORM	Glacial overflow channel centre line
118	118m E	LANDFORM	Drumlin, form-line at base of mound
119	127m E	LANDFORM	Drumlin, form-line at base of mound
120	128m S	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
121	129m E	LANDFORM	Drumlin, form-line at base of mound
122	132m NE	LANDFORM	Drumlin, form-line at base of mound
123	133m NW	LANDFORM	Glacial meltwater channel margins
124	142m S	LANDFORM	Crestline of esker
126	150m W	LANDFORM	Glacial overflow channel centre line
128	162m NW	LANDFORM	Glacial meltwater channel margins
130	165m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
131	167m NE	LANDFORM	Drumlin, form-line at base of mound
132	167m NW	LANDFORM	Glacial overflow channel centre line
133	171m E	LANDFORM	Glacial overflow channel centre line
134	174m W	LANDFORM	Kettle hole; closed hollow
136	175m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
137	177m N	LANDFORM	Glacial overflow channel centre line

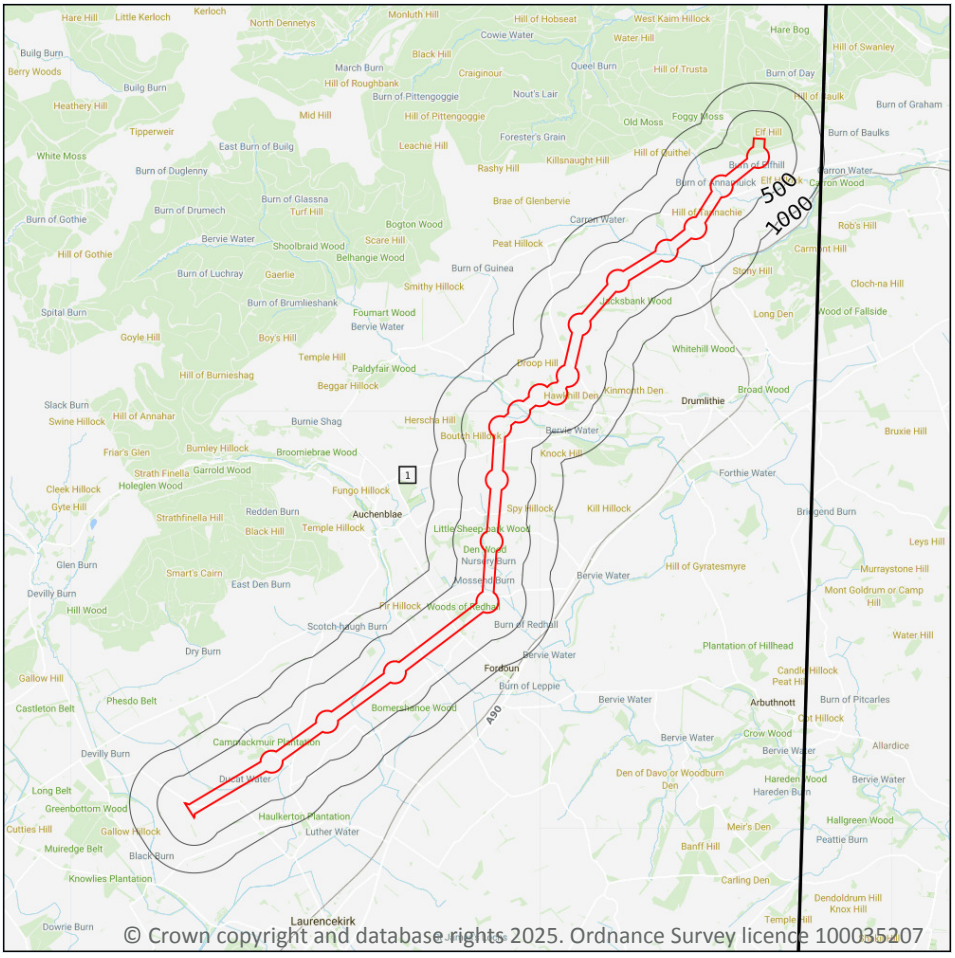
ID	Location	Category	Description
138	181m SE	LANDFORM	Glacial overflow channel centre line
141	186m W	FAULT	Strike slip fault, inferred
142	187m S	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
143	188m N	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
144	202m E	LANDFORM	Glacial overflow channel centre line branch
145	204m NW	LANDFORM	Glacial meltwater channel margins
146	207m NW	LANDFORM	Glacial overflow channel centre line
147	208m E	LANDFORM	Drumlin, form-line at base of mound
148	210m S	LANDFORM	Ice marginal glacial meltwater channel, single side left
149	216m W	LANDFORM	Drumlin, form-line at base of mound
151	222m S	LANDFORM	Crestline of esker
154	233m N	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
157	239m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
161	251m SE	LANDFORM	Small fluted deposit, aligned in direction of ice-movement
162	258m NW	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
163	260m E	LANDFORM	Glacial overflow channel centre line
166	276m NW	LANDFORM	Glacial meltwater channel margins
167	276m W	LANDFORM	Glacial overflow channel centre line
170	288m N	LANDFORM	Glacial overflow channel centre line
173	295m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
175	307m E	LANDFORM	Glacial overflow channel centre line branch
177	322m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
178	324m SE	LANDFORM	Drumlin, form-line at base of mound
179	329m E	LANDFORM	Glacial overflow channel centre line branch
180	340m SE	LANDFORM	Crestline of esker
181	341m SE	LANDFORM	Crestline of esker
182	342m W	LANDFORM	Kettle hole; closed hollow
183	346m NW	LANDFORM	Glacial overflow channel centre line

ID	Location	Category	Description
185	346m SE	FAULT	Strike slip fault, inferred
187	348m SE	LANDFORM	Glacial overflow channel centre line
190	352m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
191	352m SE	FAULT	Strike slip fault, inferred
192	358m SE	LANDFORM	Crestline of esker
193	358m E	LANDFORM	Glacial overflow channel centre line branch
194	362m SE	LANDFORM	Glacial overflow channel centre line
196	366m W	LANDFORM	Drumlin, form-line at base of mound
A	367m SE	FAULT	Strike slip fault, inferred
199	368m SE	FAULT	Strike slip fault, inferred
200	369m E	LANDFORM	Drumlin, form-line at base of mound
201	372m E	LANDFORM	Drumlin, form-line at base of mound
202	377m W	LANDFORM	Glacial overflow channel centre line head
204	380m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
205	381m W	LANDFORM	Crestline of elongate mound
206	401m S	LANDFORM	Crestline of esker
207	405m E	LANDFORM	Drumlin, form-line at base of mound
209	410m N	FAULT	Normal fault, inferred; crossmarks on downthrow side
211	426m SE	LANDFORM	Drumlin, form-line at base of mound
212	426m E	LANDFORM	Ice marginal glacial meltwater channel, single side left
213	435m SE	LANDFORM	Crestline of esker
214	437m E	LANDFORM	Glacial overflow channel centre line branch
215	440m SE	LANDFORM	Crestline of esker
217	450m W	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
218	455m E	LANDFORM	Drumlin, form-line at base of mound
220	462m SE	FAULT	Strike slip fault, inferred
223	470m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
224	470m NW	LANDFORM	Glacial overflow channel centre line

ID	Location	Category	Description
225	471m NW	LANDFORM	Glacial overflow channel centre line
227	480m SE	LANDFORM	Glacial meltwater channel margins
228	484m SE	LANDFORM	Glacial overflow channel centre line
229	484m N	ALTERATION_AREA	Limit of pegmatitic rock veins; symbol within vein complex
230	487m W	LANDFORM	Drumlin, form-line at base of mound
232	497m E	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

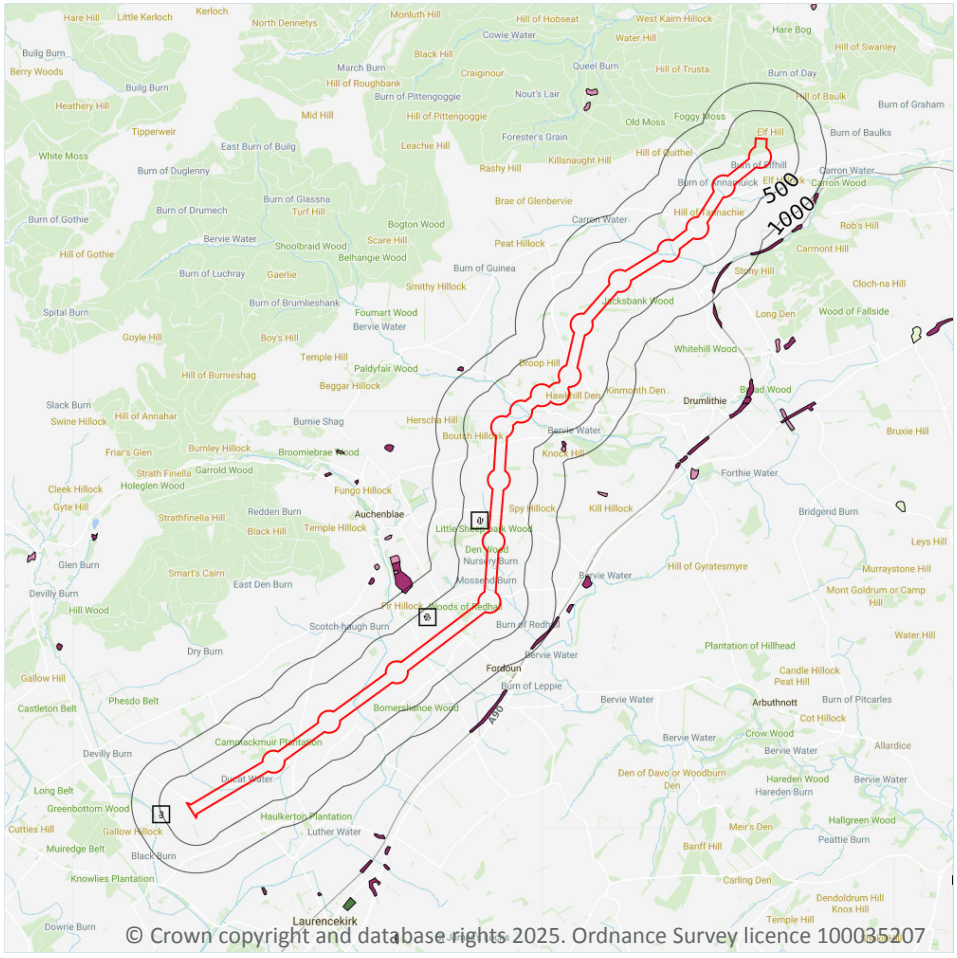
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 96 >**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SC066e_Banchory_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	3

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 97 >**

ID	Location	LEX Code	Description	Rock description
1	131m W	WGR-VOID	WORKED GROUND (UNDIVIDED)	VOID
2	309m NW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
3	475m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

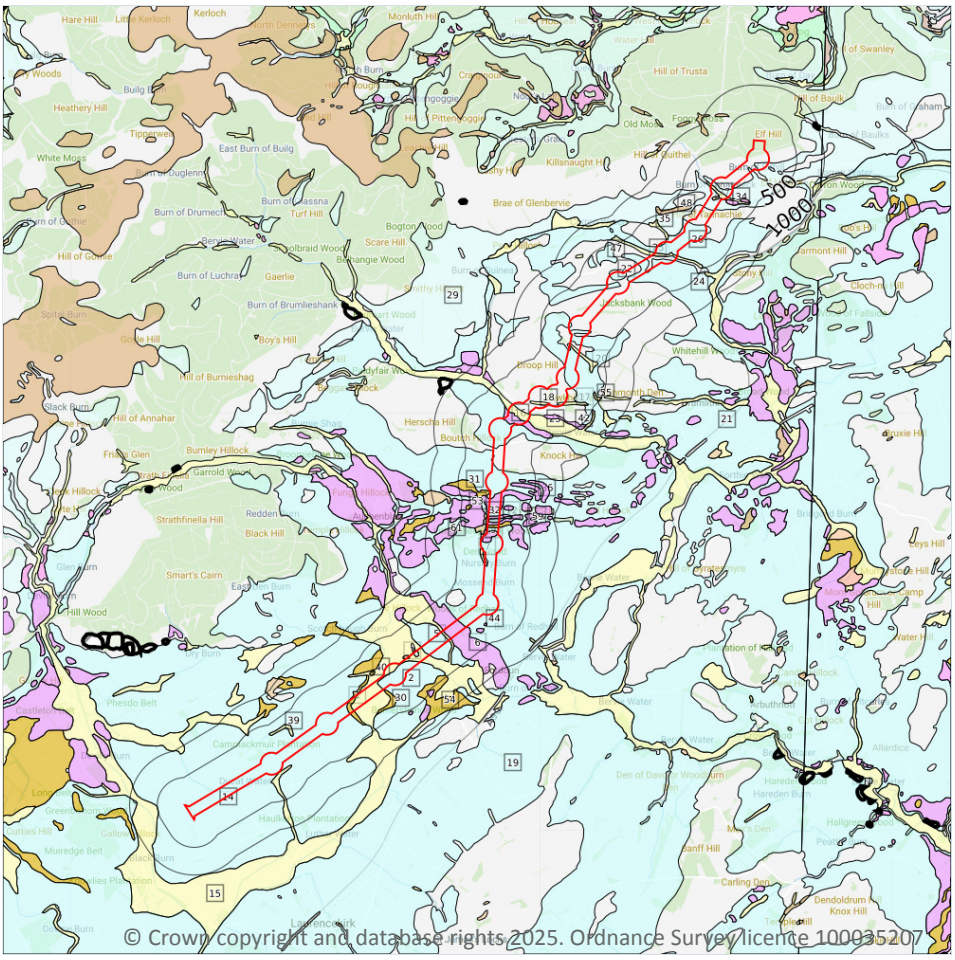
15.3 Artificial ground permeability (50k)

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



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 **61**

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 99 >**

ID	Location	LEX Code	Description	Rock description
1	On site	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
2	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
3	On site	RTDU-XVSZ	RIVER TERRACE DEPOSITS (UNDIFFERENTIATED)	GRAVEL, SAND AND SILT
4	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON

ID	Location	LEX Code	Description	Rock description
5	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
6	On site	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
7	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
8	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
9	On site	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
10	On site	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
11	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
12	On site	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
13	On site	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
14	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
15	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
16	On site	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
17	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
18	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
19	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
20	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
21	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
22	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
23	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
24	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
25	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
26	On site	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
27	On site	PEAT-P	PEAT	PEAT
28	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
29	On site	BATI-DMTN	BANCHORY TILL FORMATION	DIAMICTON
30	11m SE	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
31	14m W	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
32	20m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
33	23m W	LDE-XCZS	LACUSTRINE DEPOSITS	CLAY, SILT AND SAND
34	32m SE	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
35	38m N	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
36	55m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
37	57m W	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
38	70m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
39	81m NW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
40	122m NW	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
41	131m SE	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
42	136m S	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
43	145m NW	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
44	147m S	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
45	149m SE	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
46	150m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
47	162m N	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
48	178m NW	PEAT-P	PEAT	PEAT
49	199m SE	LOSG-XSV	LOCHTON SAND AND GRAVEL FORMATION	SAND AND GRAVEL
50	208m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
51	218m SW	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
52	293m NW	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
53	316m W	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
54	343m SE	USI-XCZS	URY SILTS FORMATION	CLAY, SILT AND SAND
55	347m SE	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
56	362m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
57	389m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
58	407m W	MFT-DMTN	MILL OF FOREST TILL FORMATION	DIAMICTON
59	438m E	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL
60	455m SE	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL

ID	Location	LEX Code	Description	Rock description
61	467m W	DSG-XSV	DRUMLITHIE SAND AND GRAVEL FORMATION	SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	**36**

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

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Intergranular**	**Very High**	**Moderate**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**High**	**Low**
On site	**Mixed**	**Low**	**Very Low**
On site	**Mixed**	**Moderate**	**Very Low**
11m SE	Mixed	Moderate	Very Low
11m SE	Intergranular	High	Very Low
14m W	Mixed	Moderate	Very Low
20m W	Intergranular	High	Very Low
23m W	Intergranular	Moderate	Very Low
24m SE	Intergranular	Very High	High
32m SE	Intergranular	Very High	High
38m N	Intergranular	High	Very Low

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

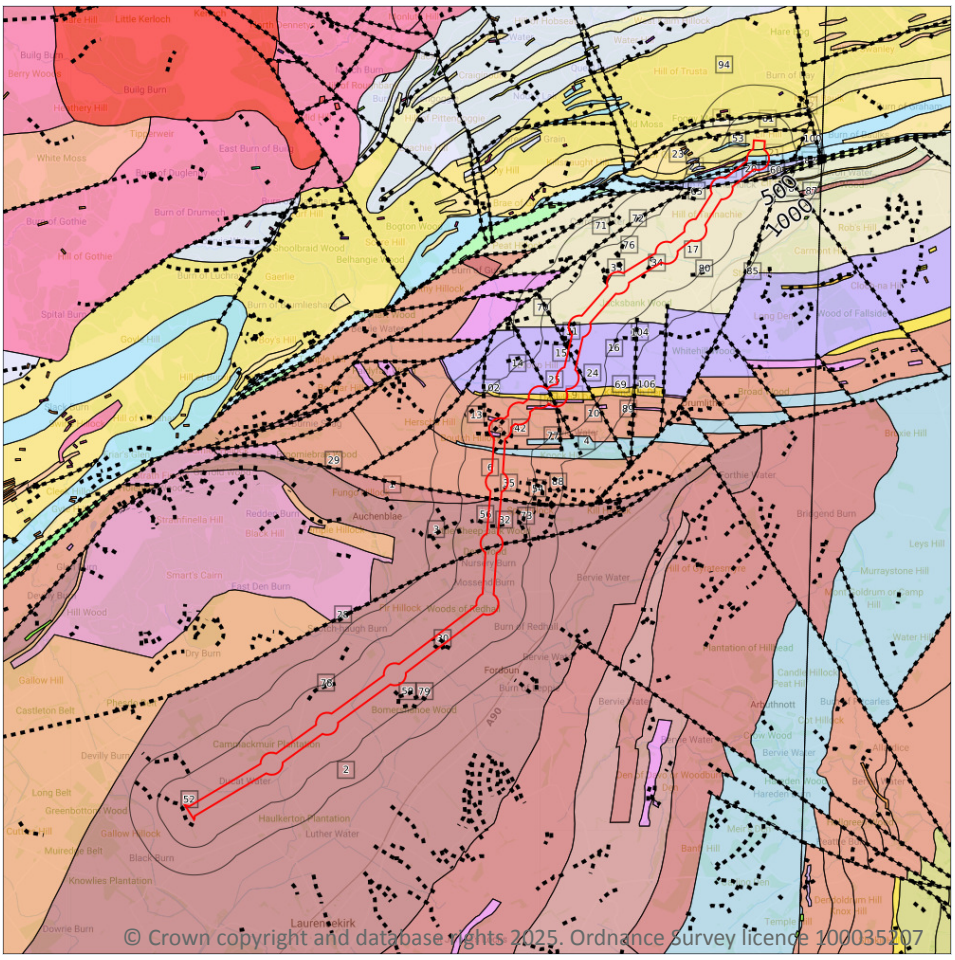
15.7 Landslip permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m	48

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 105 >**

ID	Location	LEX Code	Description	Rock age
1	On site	DECO-CONG	DEEP CONGLOMERATE FORMATION - CONGLOMERATE	LOCHKOVIAN
2	On site	CXF-MDST	CROMLIX MUDSTONE FORMATION - MUDSTONE	EMSIAN
3	On site	CXF-MDST	CROMLIX MUDSTONE FORMATION - MUDSTONE	EMSIAN

ID	Location	LEX Code	Description	Rock age
4	**On site**	**MVF-ANDCLA**	**MONTROSE VOLCANIC FORMATION - LAVA, ANDESITIC**	**LOCHKOVIAN**
5	**On site**	**ATGK-ANDR**	**ARBUTHNOTT-GARVOCK GROUP - ANDESITIC-ROCK**	**LOCHKOVIAN**
6	**On site**	**ATGK-CONG**	**ARBUTHNOTT-GARVOCK GROUP - CONGLOMERATE**	**LOCHKOVIAN**
7	**On site**	**ATGK-ANDR**	**ARBUTHNOTT-GARVOCK GROUP - ANDESITIC-ROCK**	**LOCHKOVIAN**
8	**On site**	**ATGK-ANDR**	**ARBUTHNOTT-GARVOCK GROUP - ANDESITIC-ROCK**	**LOCHKOVIAN**
9	**On site**	**ATGK-ANDR**	**ARBUTHNOTT-GARVOCK GROUP - ANDESITIC-ROCK**	**LOCHKOVIAN**
10	**On site**	**ATGK-CONG**	**ARBUTHNOTT-GARVOCK GROUP - CONGLOMERATE**	**LOCHKOVIAN**
11	**On site**	**LNP-DATUF**	**LINTRATHEN TUFF MEMBER - TUFF, DACITIC**	**-**
12	**On site**	**LNP-DATUF**	**LINTRATHEN TUFF MEMBER - TUFF, DACITIC**	**-**
13	**On site**	**ATGK-CONG**	**ARBUTHNOTT-GARVOCK GROUP - CONGLOMERATE**	**LOCHKOVIAN**
14	**On site**	**DRCR-COSD**	**DUNNOTTAR-CRAWTON GROUP - CONGLOMERATE AND [SUBEQUAL/SUBORDINATE] SANDSTONE, INTERBEDDED**	**-**
15	**On site**	**DRCR-COSD**	**DUNNOTTAR-CRAWTON GROUP - CONGLOMERATE AND [SUBEQUAL/SUBORDINATE] SANDSTONE, INTERBEDDED**	**-**
16	**On site**	**DRCR-COSD**	**DUNNOTTAR-CRAWTON GROUP - CONGLOMERATE AND [SUBEQUAL/SUBORDINATE] SANDSTONE, INTERBEDDED**	**-**
17	**On site**	**CRN-SDST**	**CARRON SANDSTONE FORMATION - SANDSTONE**	**-**
18	**On site**	**GLGT-PESP**	**GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE**	**-**
19	**On site**	**SDCAD-FPMGN**	**NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICROGRANITE, FELDSPAR-PHYRIC**	**-**
20	**On site**	**GLGT-PEPH**	**GLEN LETHNOT GRIT FORMATION - PELITE, PHYLLITIC**	**-**
21	**On site**	**GLGT-PESP**	**GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE**	**-**
22	**On site**	**GLGT-PSAMI**	**GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS**	**-**
23	**On site**	**GLGT-PSAMG**	**GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY**	**-**
46	41m S	ATGK-CONG	ARBUTHNOTT-GARVOCK GROUP - CONGLOMERATE	LOCHKOVIAN
48	47m SE	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
53	72m W	GLGT-PESP	GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE	-

ID	Location	LEX Code	Description	Rock age
55	88m NW	GLGT-PSAMI	GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS	-
60	112m SE	GLGT-SPSCH	GLEN LETHNOT GRIT FORMATION - SEMIPELITE, SCHISTOSE	-
61	151m N	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
64	173m S	GLGT-PEPH	GLEN LETHNOT GRIT FORMATION - PELITE, PHYLLITIC	-
69	221m SE	LNP-DATUF	LINTRATHEN TUFF MEMBER - TUFF, DACITIC	-
70	224m W	CRN-SDST	CARRON SANDSTONE FORMATION - SANDSTONE	-
71	230m W	CRN-SDST	CARRON SANDSTONE FORMATION - SANDSTONE	-
74	271m NW	GLGT-PEPH	GLEN LETHNOT GRIT FORMATION - PELITE, PHYLLITIC	-
77	291m S	MVF-ANDCLA	MONTROSE VOLCANIC FORMATION - LAVA, ANDESITIC	LOCHKOVIAN
81	343m N	GLGT-PSAMM	GLEN LETHNOT GRIT FORMATION - PSAMMITE	-
82	344m SE	NOE-MBPP	NORTH ESK FORMATION [NOT SAME AS NES] - METABASALT, PSAMMITE AND PELITE	-
84	346m SE	CWE-SDST	COWIE SANDSTONE FORMATION - SANDSTONE	HOMERIAN
86	349m SE	CWE-SDST	COWIE SANDSTONE FORMATION - SANDSTONE	HOMERIAN
89	379m SE	ATGK-CONG	ARBUTHNOTT-GARVOCK GROUP - CONGLOMERATE	LOCHKOVIAN
92	412m N	GLGT-PSAMG	GLEN LETHNOT GRIT FORMATION - PSAMMITE, GRITTY	-
94	416m N	GLGT-PSAMI	GLEN LETHNOT GRIT FORMATION - PSAMMITE, MICACEOUS	-
95	437m NW	SDCAD-MCGD	NORTH BRITAIN SILURO-DEVONIAN CALC-ALKALINE DYKE SUITE - MICROGRANODIORITE	-
98	451m E	GLGT-PESP	GLEN LETHNOT GRIT FORMATION - PELITE AND SEMIPELITE	-
101	466m NW	GLGT-PEPH	GLEN LETHNOT GRIT FORMATION - PELITE, PHYLLITIC	-
102	469m NW	LNP-DATUF	LINTRATHEN TUFF MEMBER - TUFF, DACITIC	-
103	474m SE	CWHC-CONG	COWIE HARBOUR CONGLOMERATE MEMBER - CONGLOMERATE	HOMERIAN
105	493m SE	CWHC-CONG	COWIE HARBOUR CONGLOMERATE MEMBER - CONGLOMERATE	HOMERIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	18

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**
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Moderate**	**Moderate**
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Moderate**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Low**	**Low**
On site	**Fracture**	**Moderate**	**Moderate**
On site	**Fracture**	**Moderate**	**Moderate**
22m E	Fracture	Moderate	Low
29m E	Fracture	Moderate	Moderate
46m SE	Fracture	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	58

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 105 >**

ID	Location	Category	Description
24	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
25	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
26	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
27	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
28	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
29	**On site**	**FAULT**	**Fault, inferred, displacement unknown**
30	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
31	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
32	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
33	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
34	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
35	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
36	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
37	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
38	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
39	**On site**	**LANDFORM**	**Glacial meltwater channel centre line, undifferentiated**
40	**On site**	**LANDFORM**	**Glacial meltwater channel centre line (tail)**
41	**On site**	**LANDFORM**	**Glacial meltwater channel centre line (tail)**
42	15m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated
43	31m SE	LANDFORM	Glacial meltwater channel centre line (tail)
44	37m N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
45	41m W	LANDFORM	Glacial meltwater channel centre line (tail)
47	42m S	FAULT	Fault, inferred, displacement unknown
49	52m W	FAULT	Fault, inferred, displacement unknown
50	58m N	LANDFORM	Glacial meltwater channel centre line (tail)
51	61m W	LANDFORM	Glacial meltwater channel centre line (tail)
52	69m SW	LANDFORM	Glacial meltwater channel centre line, undifferentiated

ID	Location	Category	Description
54	83m SE	LANDFORM	Glacial meltwater channel centre line (tail)
56	94m W	LANDFORM	Glacial meltwater channel centre line, undifferentiated
57	96m N	LANDFORM	Glacial meltwater channel centre line (tail)
58	101m W	LANDFORM	Glacial meltwater channel centre line (tail)
59	110m S	LANDFORM	Esker crestline
62	151m N	FAULT	Fault, inferred, displacement unknown
63	171m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated
65	195m NW	LANDFORM	Glacial meltwater channel centre line, undifferentiated
66	204m S	LANDFORM	Glacial meltwater channel centre line, undifferentiated
67	207m S	LANDFORM	Esker crestline
68	207m E	LANDFORM	Glacial meltwater channel centre line (tail)
72	230m W	FAULT	Fault, inferred, displacement unknown
73	250m E	LANDFORM	Glacial meltwater channel centre line (tail)
75	279m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated
76	289m N	LANDFORM	Glacial meltwater channel centre line, undifferentiated
78	328m NW	LANDFORM	Glacial meltwater channel centre line, undifferentiated
79	340m SE	LANDFORM	Esker crestline
80	343m SE	LANDFORM	Glacial meltwater channel centre line, undifferentiated
83	344m SE	FAULT	Fault, inferred, displacement unknown
85	346m SE	FAULT	Fault, inferred, displacement unknown
87	349m SE	FAULT	Fault, inferred, displacement unknown
88	358m E	LANDFORM	Glacial meltwater channel centre line, undifferentiated
90	404m W	LANDFORM	Glacial meltwater channel centre line, undifferentiated
91	406m S	LANDFORM	Esker crestline
93	412m N	FAULT	Fault, inferred, displacement unknown
96	441m E	FAULT	Fault, inferred, displacement unknown
97	442m SE	LANDFORM	Esker crestline
99	451m E	FAULT	Fault, inferred, displacement unknown

ID	Location	Category	Description
100	451m E	FAULT	Fault, inferred, displacement unknown
104	476m SE	LANDFORM	Glacial meltwater channel centre line, undifferentiated
106	495m SE	FAULT	Fault, inferred, displacement unknown

This data is sourced from the British Geological Survey.

16 Boreholes

Site Outline

Search buffers in metres (m)

Confidential

0 - 10m

10 - 30m

30m+

Unknown

16.1 BGS Boreholes

Records within 250m	3

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.

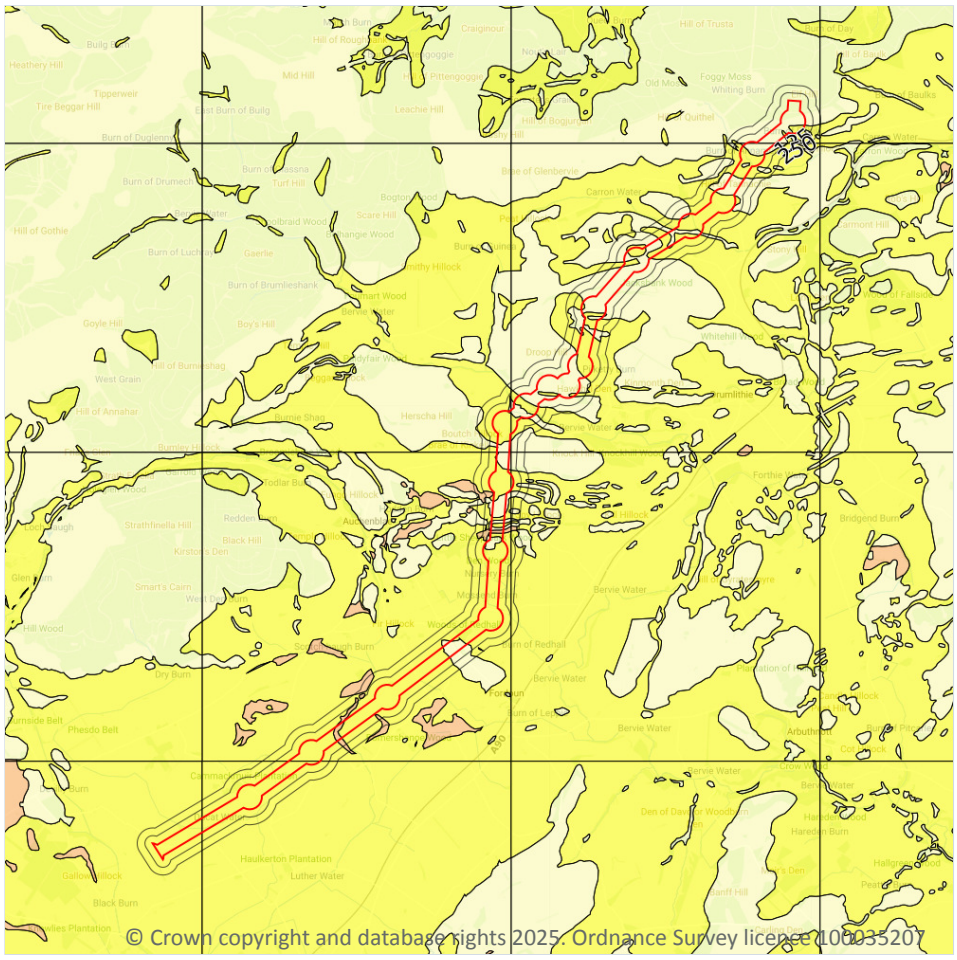
Features are displayed on the Boreholes map on **page 112 >**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	**On site**	**374790 778800**	**TEMPLE FAUCHS**	**20.6**	**N**	**630729** ↗
2	106m W	374570 778770	MONBODDO FARM	6.6	N	630728 ↗

ID	Location	Grid reference	Name	Length	Confidential	Web link
3	226m SE	375550 780460	AUCHTOCHTER	3.5	N	625776 ↗

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



17.1 Shrink swell clays

Records within 50m	10

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).

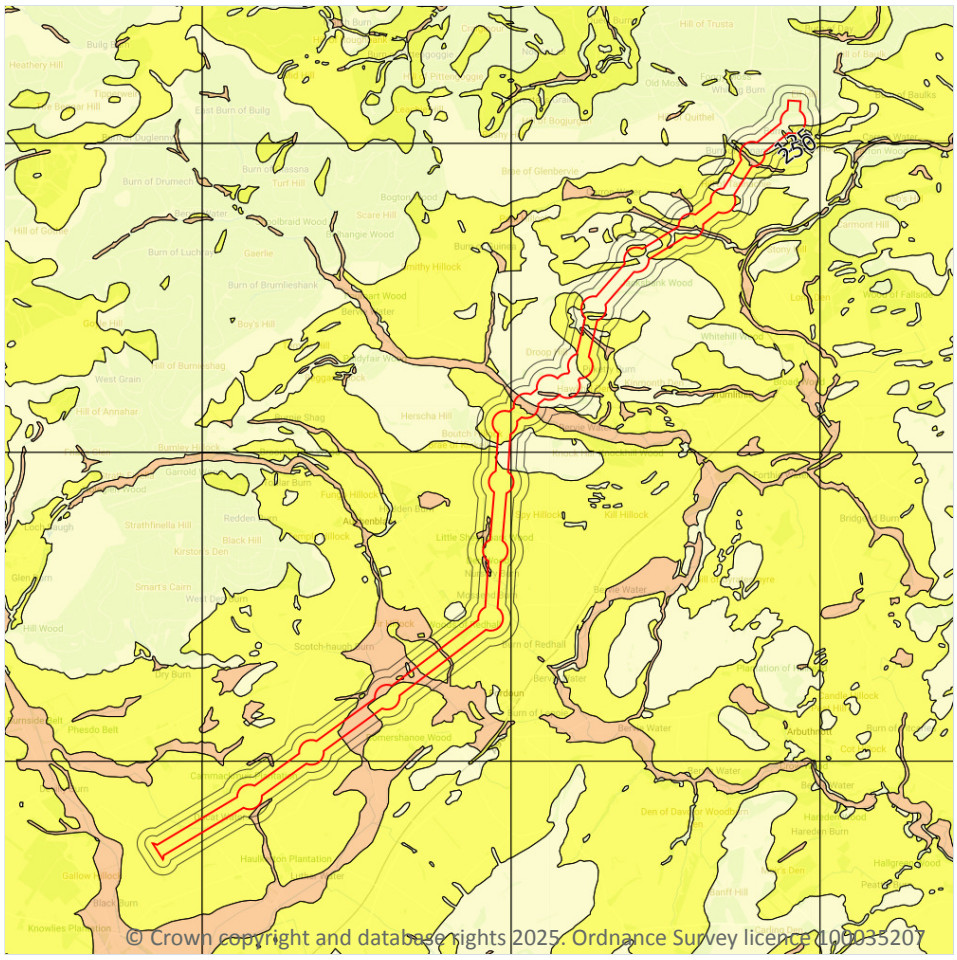
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 114 >**

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
11m SE	Low	Ground conditions predominantly medium plasticity.
14m W	Low	Ground conditions predominantly medium plasticity.
18m E	Negligible	Ground conditions predominantly non-plastic.
24m SE	Negligible	Ground conditions predominantly non-plastic.
30m E	Negligible	Ground conditions predominantly non-plastic.
32m SE	Negligible	Ground conditions predominantly non-plastic.
49m SE	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	8

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.

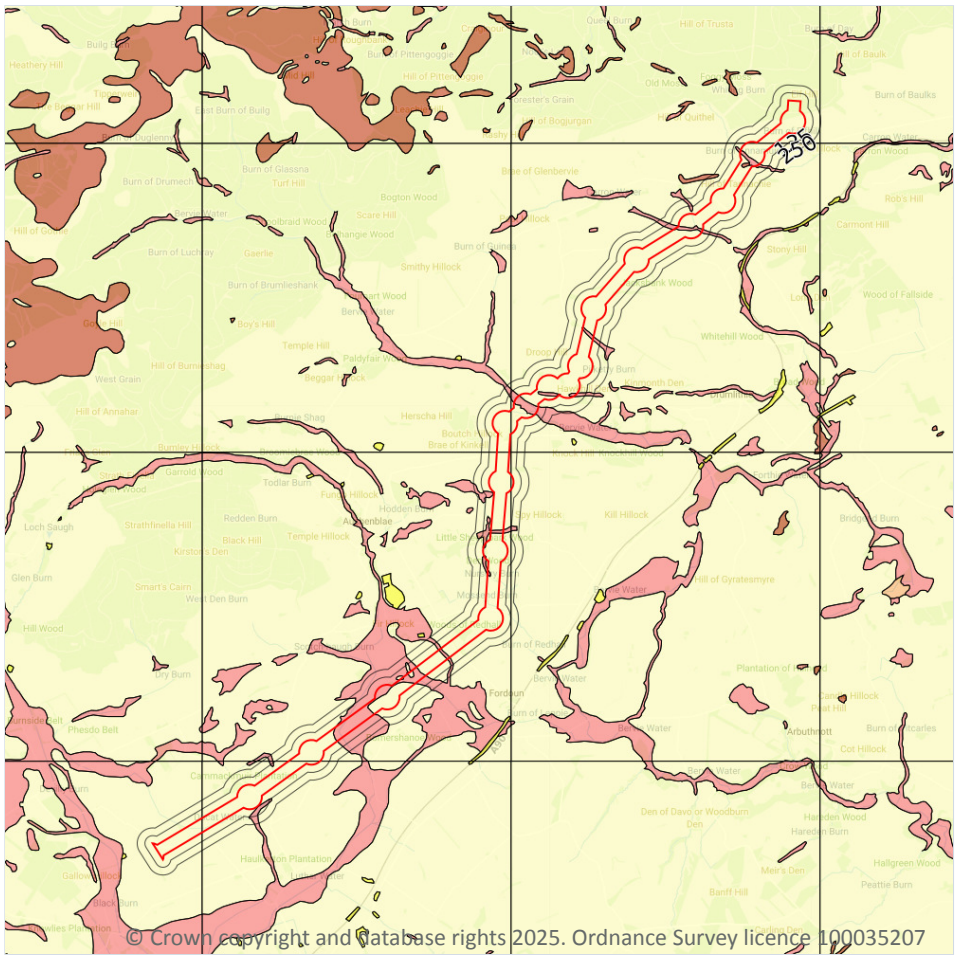
Features are displayed on the Natural ground subsidence - Running sands map on **page 116 >**

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.**
11m SE	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
18m E	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.
30m E	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.
38m N	Low	Running sand conditions may be present. Constraints may apply to land uses involving excavation or the addition or removal of water.
49m SE	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



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	6

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.

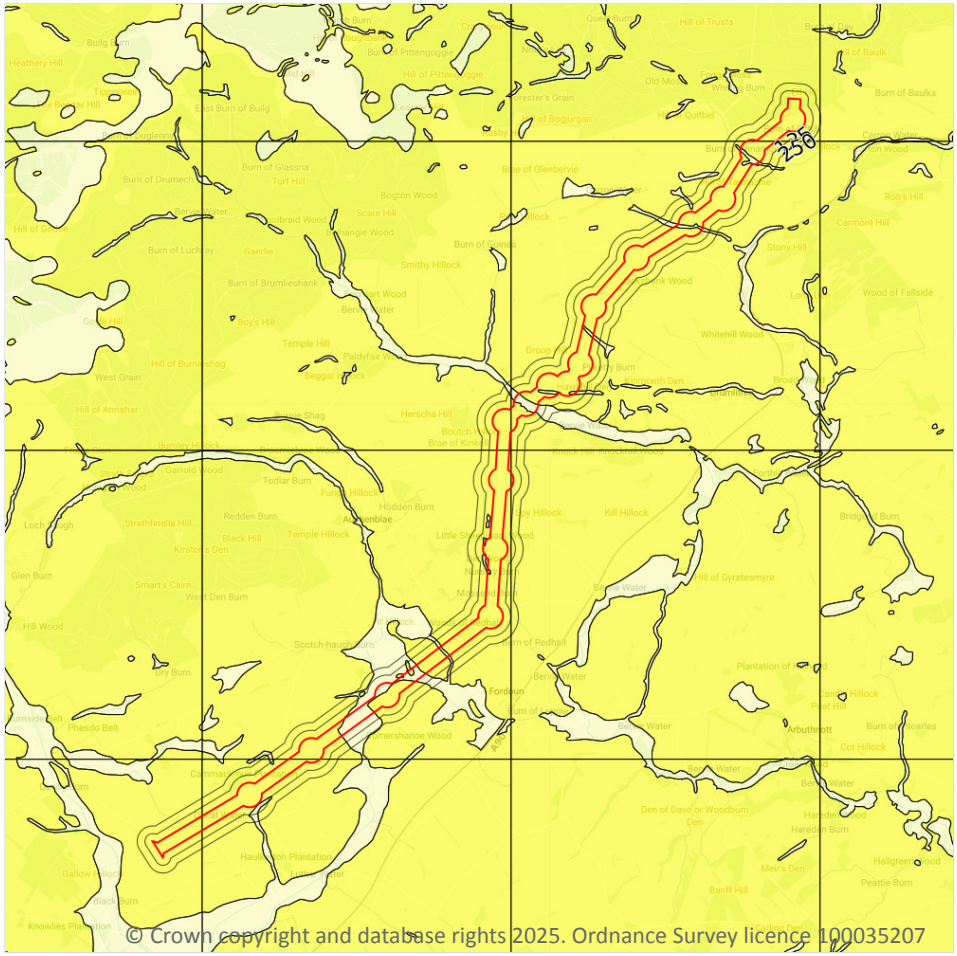
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 118 >**

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

Location	Hazard rating	Details
On site	**High**	**Highly compressible strata present. Significant constraint on land use depending on thickness.**
11m SE	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
14m W	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.
38m N	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	5

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.

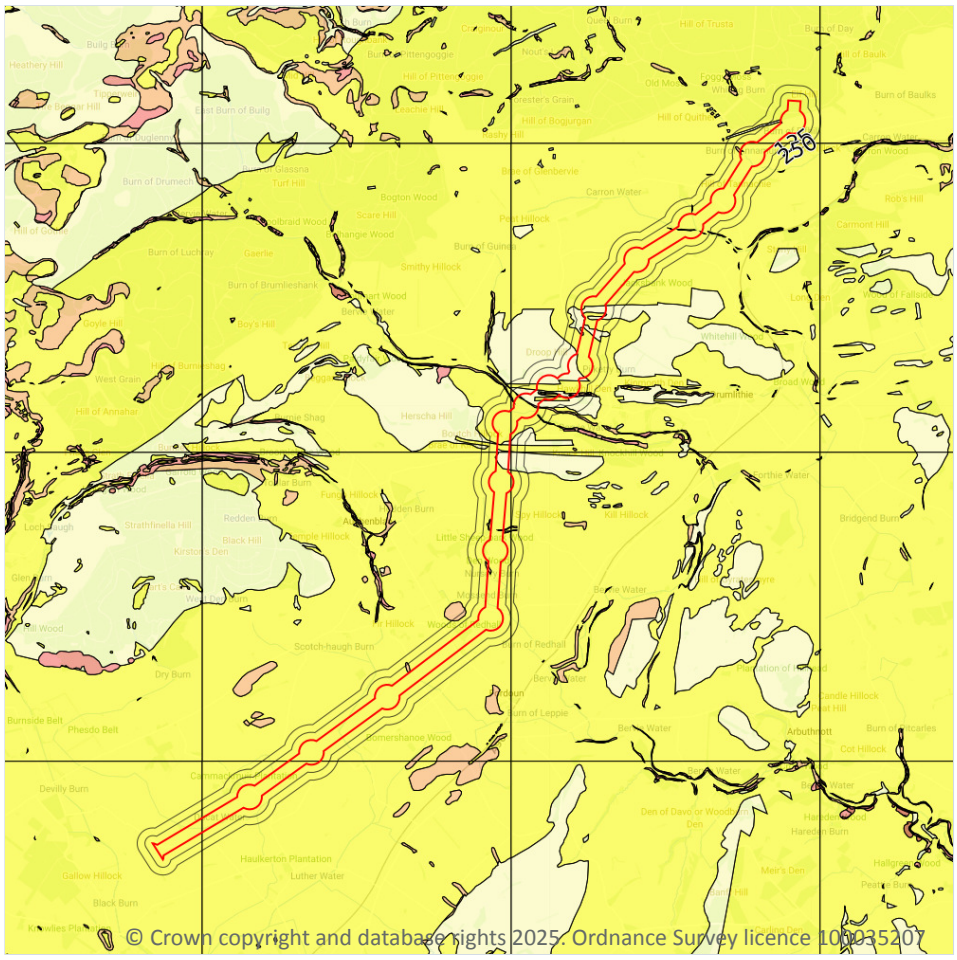
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 120 >**

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.**
11m SE	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

Location	Hazard rating	Details
20m W	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
38m N	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	13

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.

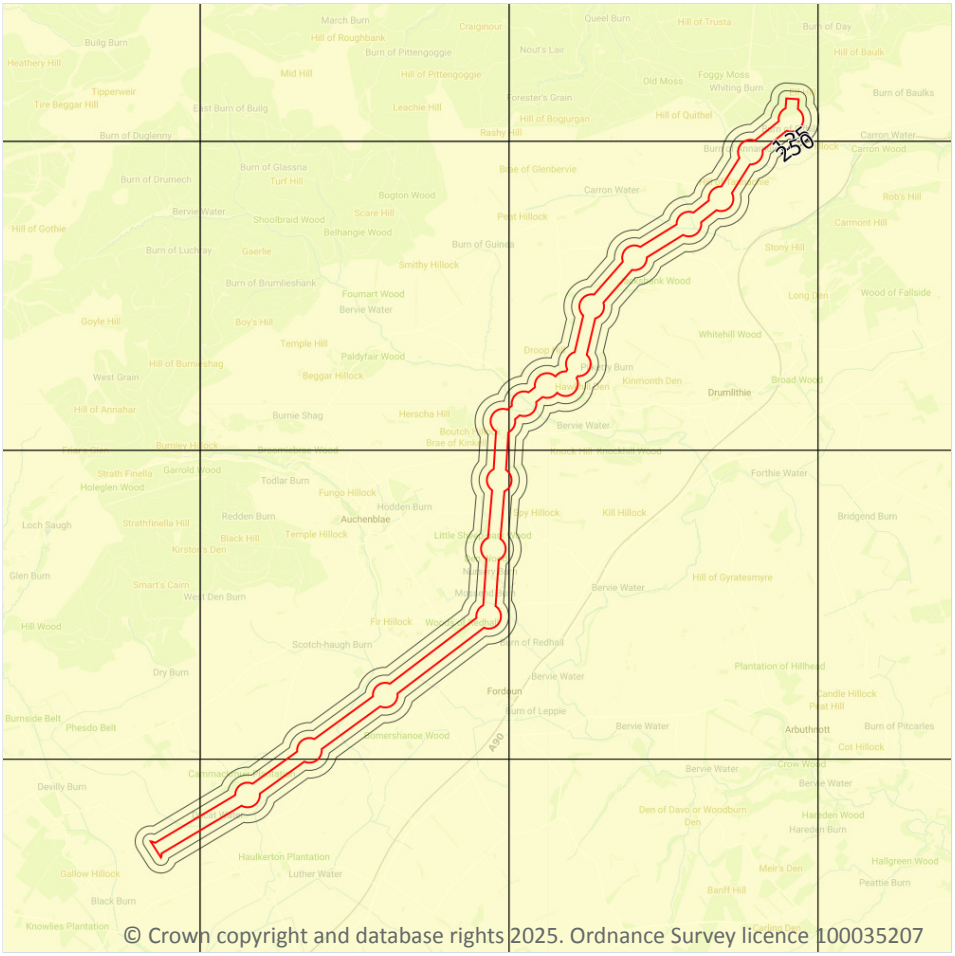
Features are displayed on the Natural ground subsidence - Landslides map on **page 122 >**

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

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.**
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.**
18m E	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
20m W	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
21m NW	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
24m E	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
29m E	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
30m E	Negligible	Slope instability problems are not thought to occur but consideration to potential problems of adjacent areas impacting on the site should always be considered.
32m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
40m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
42m N	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

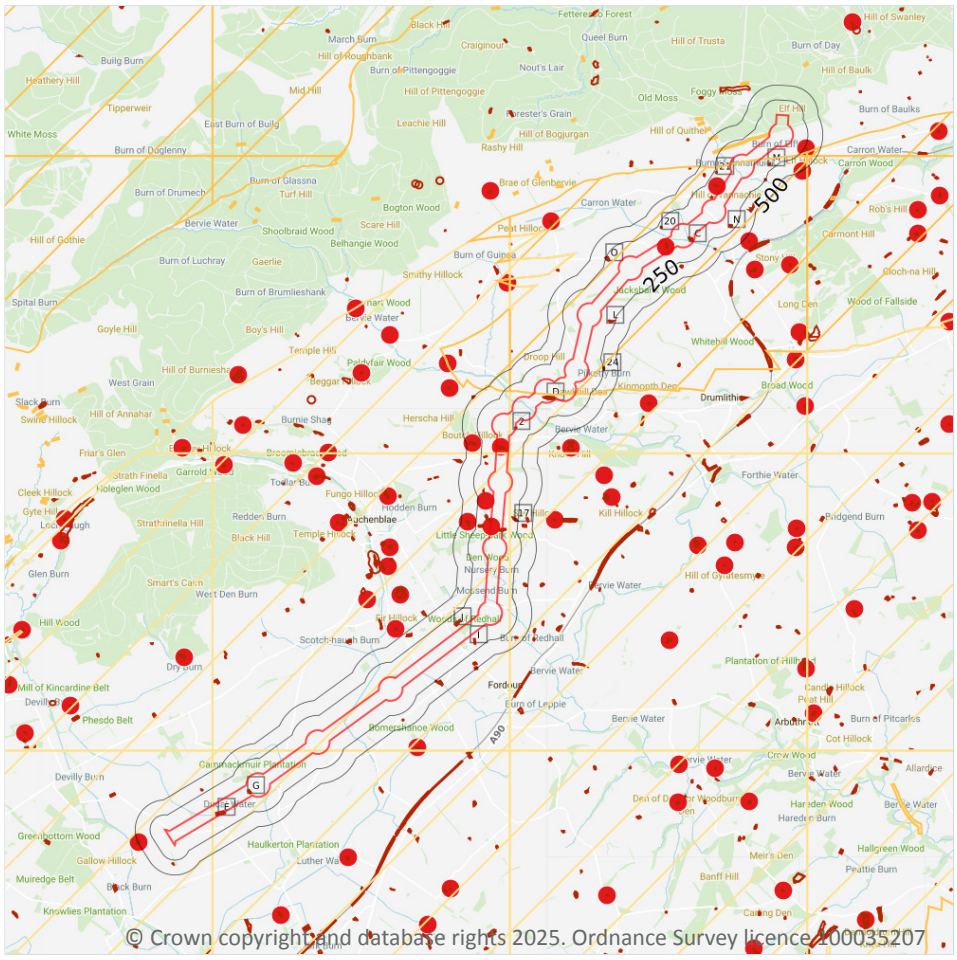
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

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

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	12

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 126 >**

ID	Location	Details	Description
1	**On site**	**Name: Temple Fauchs Gravel Pit Address: Temple Fauchs, Monboddo, Auchenblae, LAURENCEKIRK, Kincardineshire Commodity: Sand & Gravel Status: Ceased**	**Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.**
A	**On site**	**Name: Knockbank Address: Knockbank Farm, Glenbervie, LAURENCEKIRK, Kincardineshire Commodity: Igneous & Metamorphic Rock Status: Ceased**	**Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.**
B	**On site**	**Name: Blererno Address: Blererno, Drumlithie, LAURENCEKIRK, Kincardineshire Commodity: Sandstone Status: Ceased**	**Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.**
F	16m W	Name: Temple Fauchs Gravel Pit Address: Temple Fauchs, Monboddo, Auchenblae, LAURENCEKIRK, Kincardineshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
H	79m NW	Name: Nether Quithel Address: Nether Quithel, Tannachie, STONEHAVEN, Kincardineshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
15	115m W	Name: Braehead of Monboddo Pit Address: Braehead of Monboddo, Monboddo, Auchenblae, LAURENCEKIRK, Kincardineshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
K	160m W	Name: Monboddo Address: Temple Fauchs, Monboddo, Auchenblae, LAURENCEKIRK, Kincardineshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
Q	279m SE	Name: Elfhill Address: Elfhill, Kirktown of Fetteresso, STONEHAVEN, Kincardineshire Commodity: Igneous & Metamorphic Rock Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

ID	Location	Details	Description
U	365m NW	Name: Nether Quithel Address: Nether Quithel, Tannachie, STONEHAVEN, Kincardineshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
W	391m W	Name: Monboddo Pit Address: Monboddo, Auchenblae, LAURENCEKIRK, Kincardineshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
V	409m SW	Name: Mid Blairs Address: Mid Blairs, Glenbervie, LAURENCEKIRK, Kincardineshire Commodity: Igneous & Metamorphic Rock Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.
AD	486m SW	Name: Pitnamoon Gravel Pit Address: Little Pitnamoon, LAURENCEKIRK, Kincardineshire Commodity: Sand & Gravel Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Delf, Delph, Gravel Pit, Sand Pit, Sand and Gravel Pit, Clay Pit, Pit, Opencast Coal Site or Surface Mine. It may be mapped as Worked Ground or Worked and Made Ground on BGS mapping. Status description: Site which has ceased to extract minerals. May be considered as 'Closed' by operator. May be considered to have 'Active', 'Dormant' or 'Expired' planning permissions by the Mineral Planning Authority.

This data is sourced from the British Geological Survey.

18.2 Surface ground workings

Records within 250m	48

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 126 >**

ID	Location	Land Use	Year of mapping	Mapping scale
2	**On site**	**Unspecified Quarry**	**1904**	**1:10560**
3	**On site**	**Pond**	**1864**	**1:10560**
A	**On site**	**Unspecified Quarry**	**1904**	**1:10560**
A	**On site**	**Unspecified Quarry**	**1864**	**1:10560**
A	**On site**	**Unspecified Disused Quarry**	**1981**	**1:10000**
B	**On site**	**Unspecified Quarry**	**1865**	**1:10560**
B	**On site**	**Unspecified Quarry**	**1904**	**1:10560**
B	**On site**	**Unspecified Disused Quarry**	**1979**	**1:10000**
C	**On site**	**Pond**	**1865**	**1:10560**
C	**On site**	**Water Body**	**1904**	**1:10560**
D	**On site**	**Pond**	**1865**	**1:10560**
D	**On site**	**Water Body**	**1904**	**1:10560**
E	**On site**	**Pond**	**1864**	**1:10560**
E	**On site**	**Water Body**	**1901**	**1:10560**
F	**On site**	**Unspecified Pit**	**1864**	**1:10560**
G	**On site**	**Sewage Works**	**1988**	**1:10000**
G	**On site**	**Sewage Works**	**1970**	**1:10560**
F	2m W	Old Gravel Pit	1904	1:10560
F	2m W	Old Gravel Pit	1955	1:10560
12	24m N	Unspecified Pit	1979	1:10000
H	62m NW	Unspecified Old Quarry	1904	1:10560
13	63m W	Unspecified Heap	1864	1:10560
H	73m NW	Unspecified Pit	1865	1:10560

ID	Location	Land Use	Year of mapping	Mapping scale
I	76m SE	Pond	1955	1:10560
J	76m NW	Pond	1864	1:10560
J	77m NW	Pond	1928	1:10560
J	77m NW	Pond	1901	1:10560
J	87m NW	Pond	1955	1:10560
I	90m SE	Pond	1976	1:10000
14	113m SW	Water Body	1955	1:10560
K	126m W	Gravel Pit	1976	1:10000
L	135m E	Water Body	1904	1:10560
16	140m W	Water Body	1955	1:10560
M	145m SE	Water Body	1928	1:10560
M	145m SE	Water Body	1902	1:10560
L	146m E	Pond	1865	1:10560
N	151m SE	Pond	1979	1:10000
N	151m SE	Water Body	1904	1:10560
17	153m E	Pond	1864	1:10560
18	153m W	Pond	1864	1:10560
N	160m SE	Pond	1865	1:10560
O	180m NW	Pond	1865	1:10560
20	184m NW	Water Body	1904	1:10560
O	187m NW	Water Body	1904	1:10560
O	195m NW	Pond	1979	1:10000
21	206m NW	Water Body	1904	1:10560
23	239m SE	Unspecified Pit	1979	1:10000
24	250m E	Unspecified Pit	1865	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.3 Underground workings

Records within 1000m	0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground mining extents

Records within 500m	0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	22

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 126 >**

ID	Location	Name	Commodity	Class	Likelihood
4	**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.**

ID	Location	Name	Commodity	Class	Likelihood
5	**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.**
6	**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.**
7	**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.**
8	**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.**
9	**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.**
10	**On site**	**Not available**	**Vein Mineral**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
11	**On site**	**Not available**	**Vein Mineral**	**B**	**Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.**
19	182m NW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
22	216m SE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

ID	Location	Name	Commodity	Class	Likelihood
27	328m SE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
29	365m SE	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
32	437m NW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
37	620m NW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
42	704m NW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
44	763m 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.
45	766m NW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
46	767m 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.
48	831m 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.

ID	Location	Name	Commodity	Class	Likelihood
49	832m NW	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AT	868m N	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.
AT	910m N	Not available	Vein Mineral	B	Underground mine workings may have occurred in the past or current mines may be working at significant depth to modern engineering standards. Potential for difficult ground conditions are unlikely and are at a level where they need not be considered.

This data is sourced from the British Geological Survey.

18.7 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m	0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m	0

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

This data is sourced from Groundsure.

18.10 Mining record office plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m	0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site	0

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site	0

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

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

18.14 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.15 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

Records on site	0

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m	0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m	0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m	0

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

This data is sourced from Groundsure.

19.4 Historical incidents

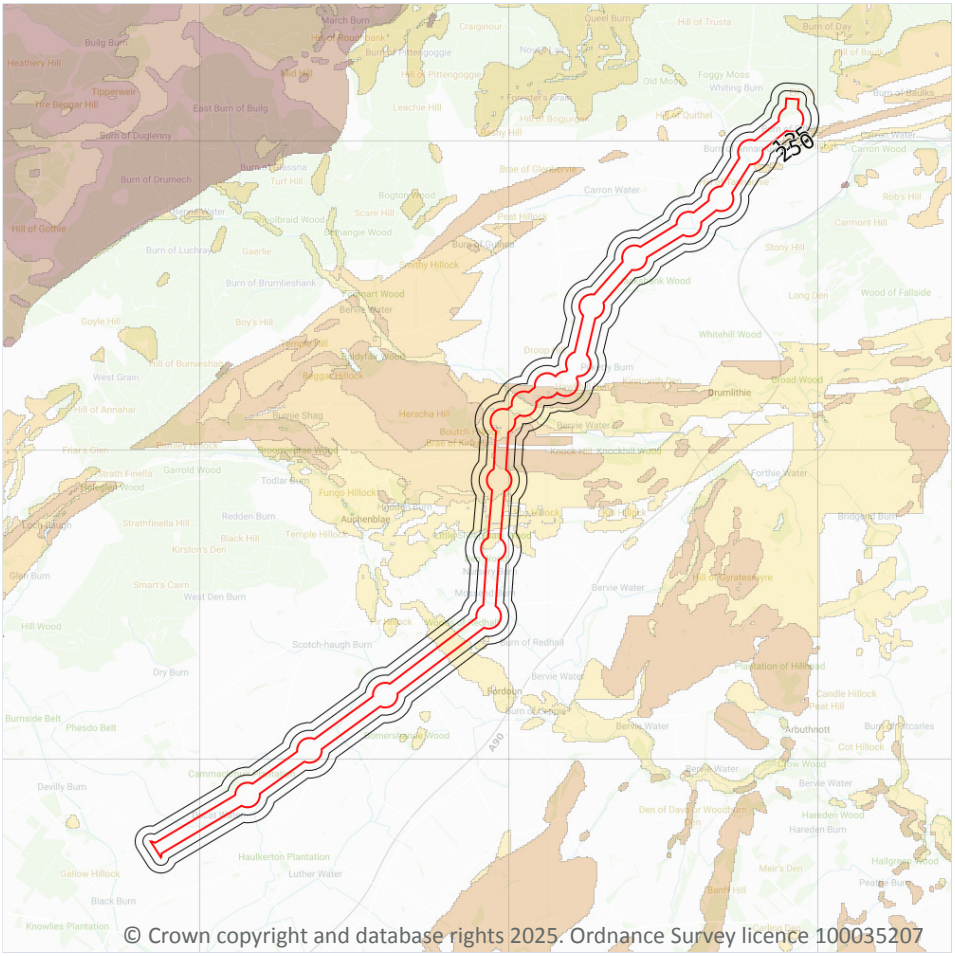
Records within 500m	0

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

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

This data is sourced from Groundsure.

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 140 >**

Location	Estimated properties affected	Radon Protection Measures required
On site	**Between 3% and 5%**	**Basic**

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

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	274

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**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 - 25 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**

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

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

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

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

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

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

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

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

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

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

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

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
On site	**15 mg/kg**	**-**	**100 mg/kg**	**60 mg/kg**	**No data**	**60 - 90 mg/kg**	**15 - 30 mg/kg**
3m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
3m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
3m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
5m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
10m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
11m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
11m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
14m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
15m W	15 - 25 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
18m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
19m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
20m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
22m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
23m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
24m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
29m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
30m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
32m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
33m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
36m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
37m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
37m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
37m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
38m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
38m N	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
38m N	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
40m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
41m S	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
42m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
42m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
43m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
44m E	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
44m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
45m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
45m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
46m W	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
46m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
47m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
48m NE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	90 - 120 mg/kg	15 - 30 mg/kg
48m SE	15 - 25 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
49m SE	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	60 - 90 mg/kg	15 - 30 mg/kg
49m NW	15 mg/kg	-	100 mg/kg	60 mg/kg	No data	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 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.

22.9 HS2

Records within 500m	0

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

This data is sourced from HS2 ltd.

Data providers

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

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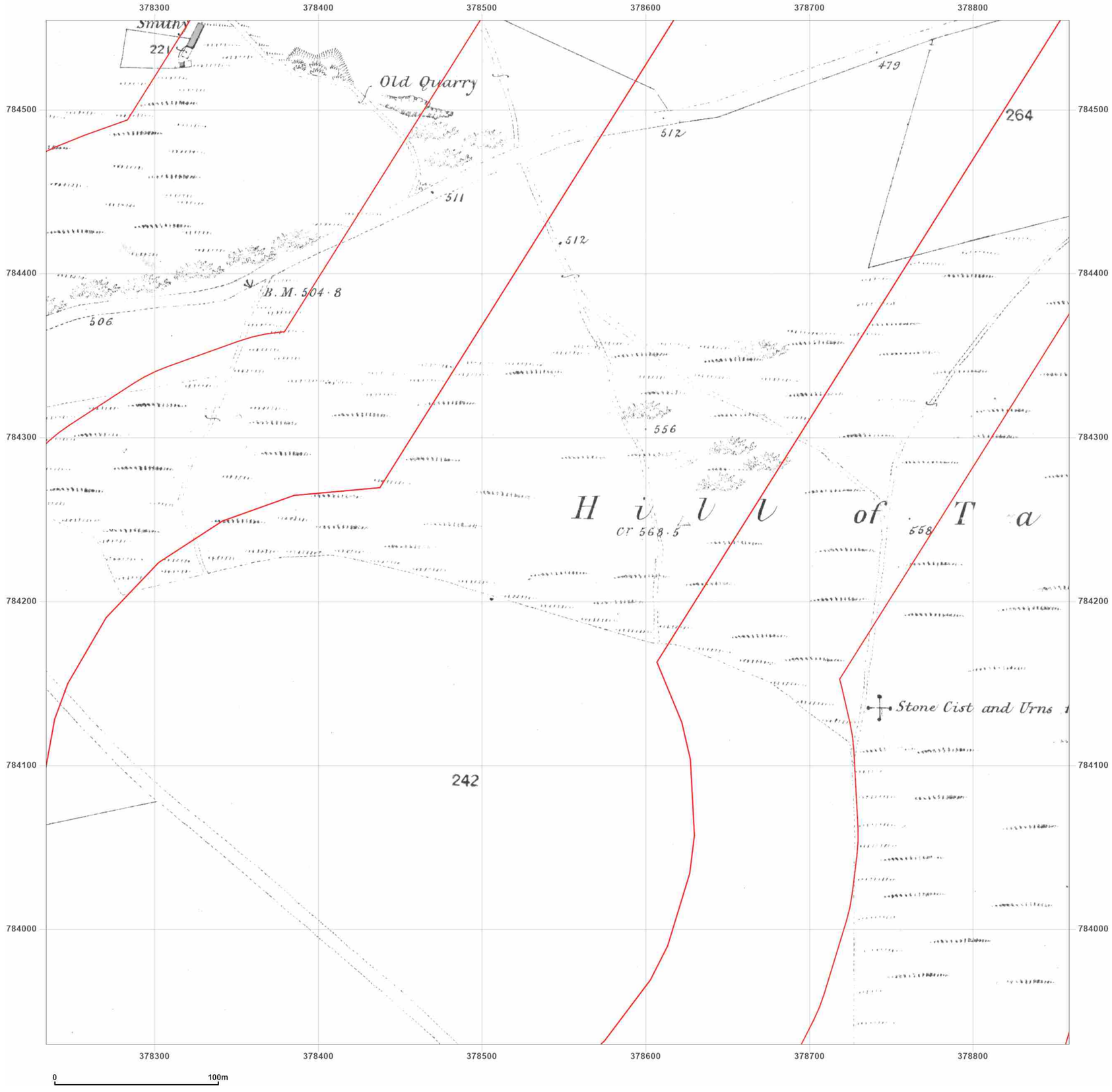

Site Details:

Section D

Client Ref: P110439UK001
Report Ref: WSP-GB8-PAK-XHS-599_LS_16_18
Grid Ref: 378546, 784242

Map Name: County Series

Map date: **1867**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

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Map legend available at:
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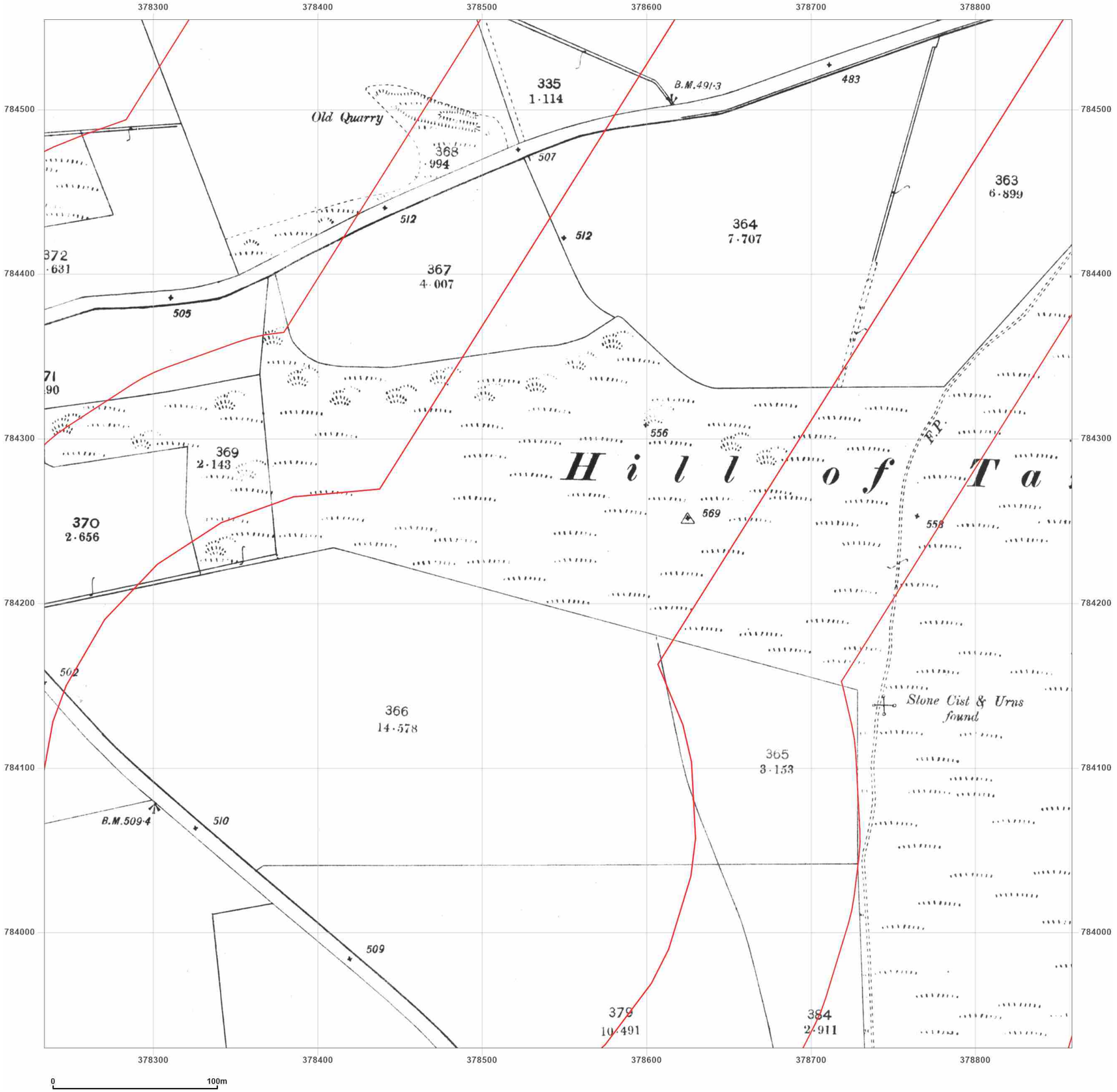

Site Details:

Section D

Client Ref: P110439UK001
Report Ref: WSP-GB8-PAK-XHS-599_LS_16_18
Grid Ref: 378546, 784242

Map Name: County Series

Map date: **1903**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1903
Revised 1903
Edition N/A
Copyright N/A
Levelled N/A

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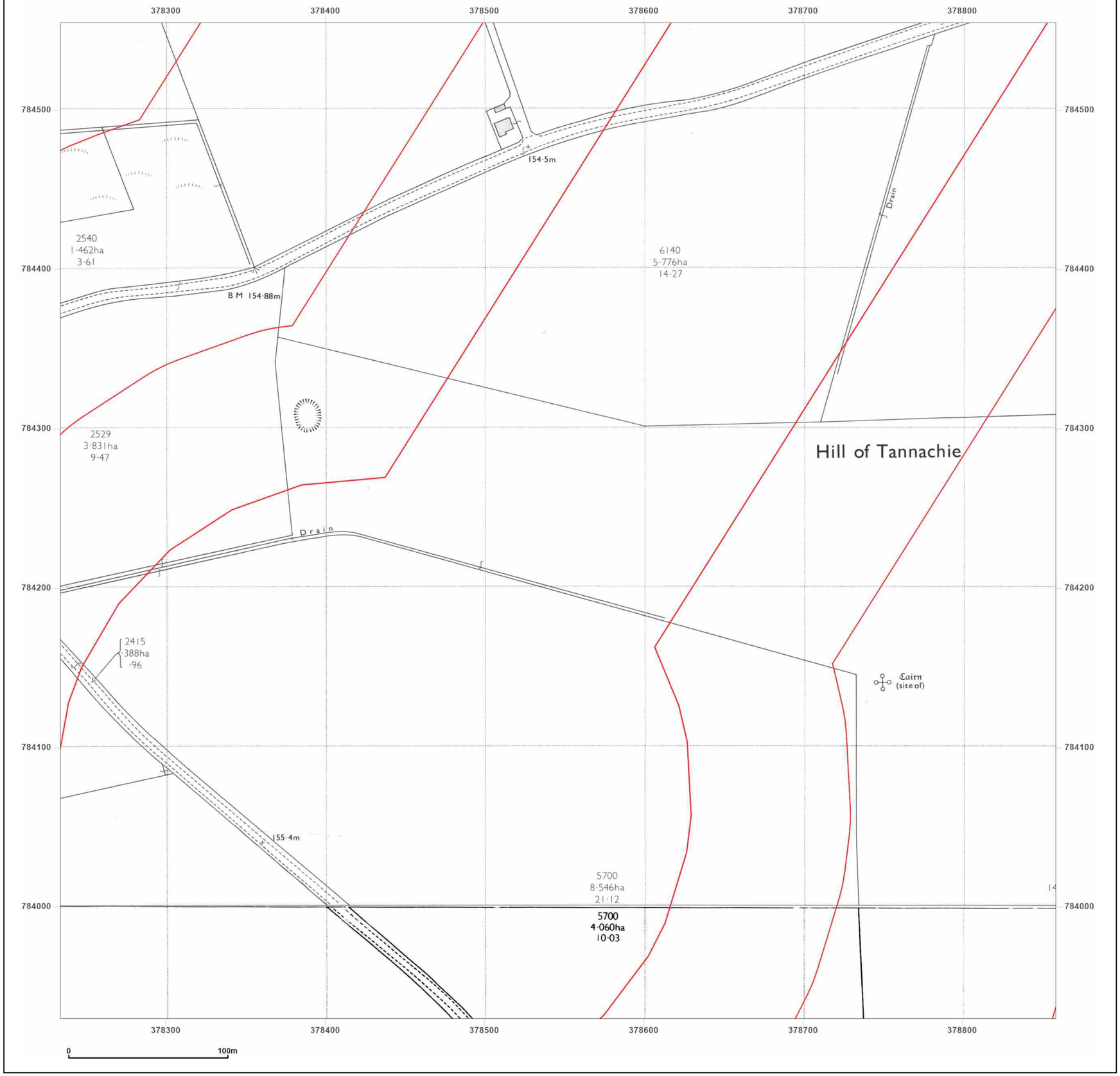

Site Details:

Section D

Client Ref: P110439UK001
Report Ref: WSP-GB8-PAK-XHS-599_LS_16_18
Grid Ref: 378546, 784242

Map Name: National Grid

Map date: **1971-1972**

Scale: 1:2,500

Printed at: 1:2,500

N
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Surveyed 1970
Revised 1970
Edition N/A
Copyright 1971
Levelled 1952

Surveyed N/A
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A

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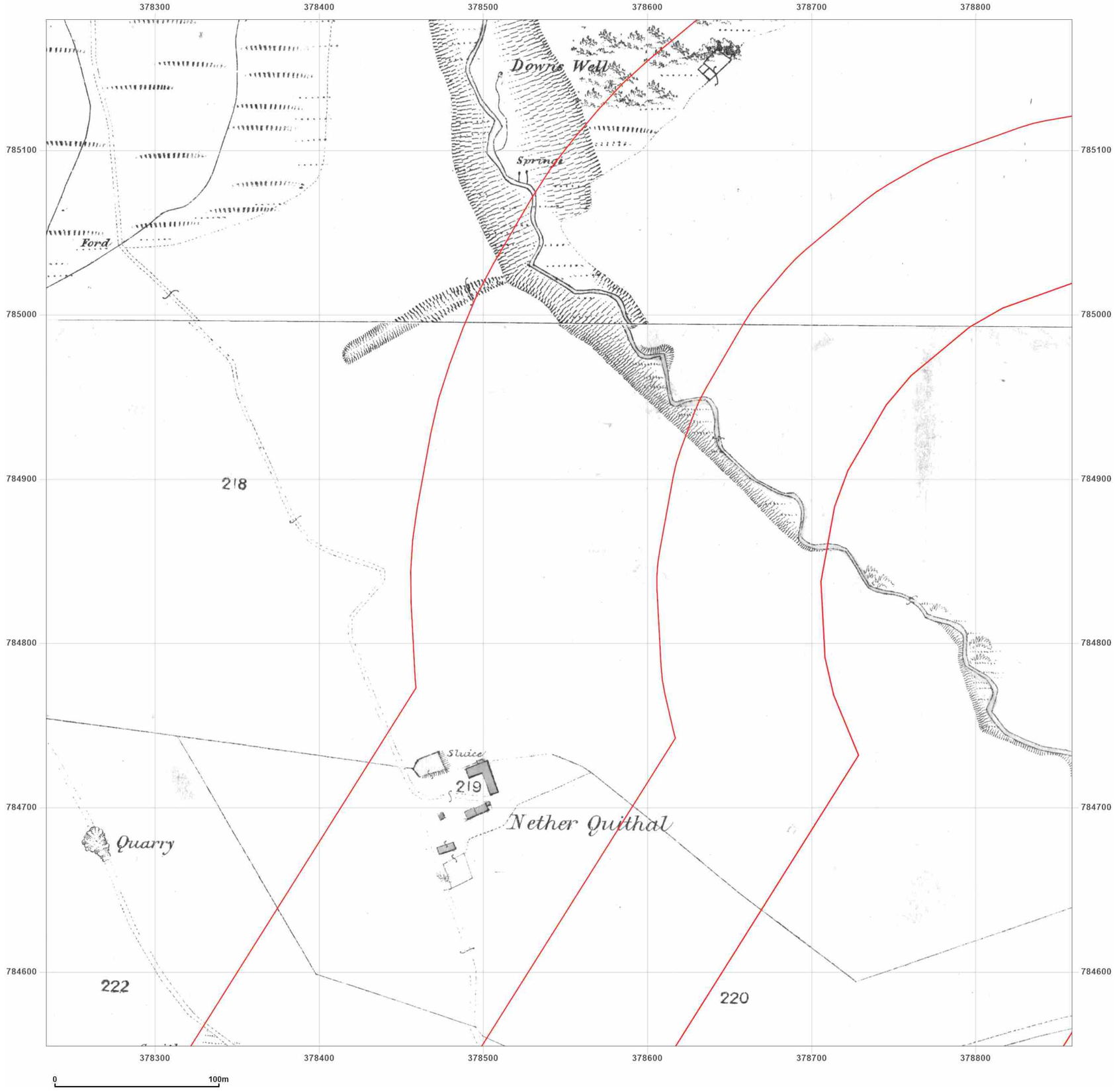

Site Details:

Section D

Client Ref: P110439UK001
Report Ref: WSP-GB8-PAK-XHS-599_LS_16_19
Grid Ref: 378546, 784867

Map Name: County Series

Map date: **1865-1867**

Scale: 1:2,500

Printed at: 1:2,500

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Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

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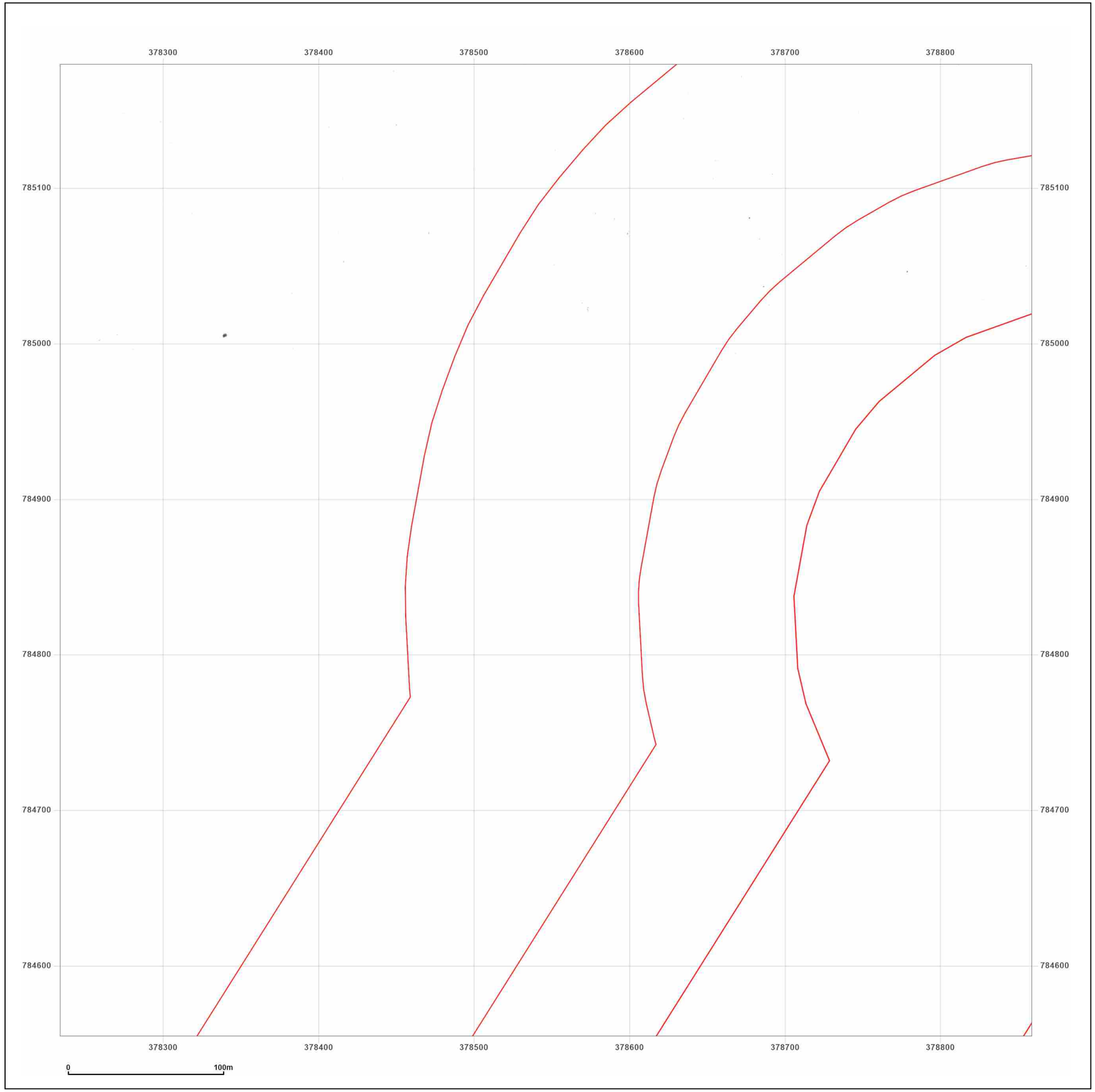

Site Details:

Section D

Client Ref: P110439UK001
Report Ref: WSP-GB8-PAK-XHS-599_LS_16_19
Grid Ref: 378546, 784867

Map Name: County Series

Map date: **1867**

Scale: 1:2,500

Printed at: 1:2,500

N
W E
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Surveyed 1867
Revised 1867
Edition N/A
Copyright N/A
Levelled N/A

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Production date: 08 September 2025

Map legend available at:
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