Groundsure
LOCATION INTELLIGENCE

Enviro+Geo Insight

KNOWL GROVE, MIRFIELD, WF14 9RF

Order Details

Date: 19/11/2020

Your ref: A3800

Our Ref: GS-7296205

Client: Earth Environmental & Geotechnical Ltd

Site Details

Location: 420159 420198

Area: 0.14 ha

Authority: Kirklees Council

Summary of findings p. 2

OS MasterMap site plan p.11

Aerial image p. 8

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Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
12	1.1	Historical industrial land uses	0	0	11	65	-
15	1.2	Historical tanks	0	1	2	8	-
16	1.3	Historical energy features	0	0	2	10	-
17	1.4	Historical petrol stations	0	0	0	0	-
17	1.5	Historical garages	0	0	0	11	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	Historical industrial land uses	0	0	14	93	-
23	2.2	Historical tanks	0	2	4	16	-
24	2.3	Historical energy features	0	0	7	21	-
26	2.4	Historical petrol stations	0	0	0	0	-
26	2.5	Historical garages	0	0	0	15	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
28	3.1	Active or recent landfill	0	0	0	0	-
28	3.2	Historical landfill (BGS records)	0	0	0	0	-
29	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
29	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
29	3.5	Historical waste sites	0	0	0	0	-
29	3.6	Licensed waste sites	0	0	0	2	-
30	3.7	Waste exemptions	0	0	3	16	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
33	4.1	Recent industrial land uses	0	0	3	-	-
34	4.2	Current or recent petrol stations	0	0	0	1	-
34	4.3	Electricity cables	0	0	0	0	-
34	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-

35	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
35	4.7	Regulated explosive sites	0	0	0	0	-
35	4.8	Hazardous substance storage/usage	0	0	0	0	-
35	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
35	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
36	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
36	4.12	Radioactive Substance Authorisations	0	0	0	0	-
36	**4.13**	**Licensed Discharges to controlled waters**	0	0	0	1	-
36	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
37	4.15	Pollutant release to public sewer	0	0	0	0	-
37	4.16	List 1 Dangerous Substances	0	0	0	0	-
37	4.17	List 2 Dangerous Substances	0	0	0	0	-
37	**4.18**	**Pollution Incidents (EA/NRW)**	0	0	1	0	-
38	4.19	Pollution inventory substances	0	0	0	0	-
38	4.20	Pollution inventory waste transfers	0	0	0	0	-
38	4.21	Pollution inventory radioactive waste	0	0	0	0	-

Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
39	**5.1**	**Superficial aquifer**	Identified (within 500m)				
41	**5.2**	**Bedrock aquifer**	Identified (within 500m)				
43	**5.3**	**Groundwater vulnerability**	Identified (within 50m)				
44	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
44	5.5	Groundwater vulnerability- local information	None (within 0m)				
45	**5.6**	**Groundwater abstractions**	0	0	0	0	16
49	**5.7**	**Surface water abstractions**	0	0	0	0	3
50	5.8	Potable abstractions	0	0	0	0	0
50	5.9	Source Protection Zones	0	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-

Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
51	6.1	Water Network (OS MasterMap)	0	0	0	-	-

51	6.2	Surface water features	0	0	0	-	-
52	**6.3**	**WFD Surface water body catchments**	1	-	-	-	-
52	**6.4**	**WFD Surface water bodies**	0	0	0	-	-
53	**6.5**	**WFD Groundwater bodies**	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
54	7.2	Historical Flood Events	0	0	0	-	-
54	7.3	Flood Defences	0	0	0	-	-
54	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
55	7.5	Flood Storage Areas	0	0	0	-	-
56	7.6	Flood Zone 2	None (within 50m)				
56	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
57	**8.1**	**Surface water flooding**	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
59	**9.1**	**Groundwater flooding**	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
60	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
61	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
61	10.4	Special Protection Areas (SPA)	0	0	0	0	0
61	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	**10.6**	**Local Nature Reserves (LNR)**	0	0	0	0	1
62	**10.7**	**Designated Ancient Woodland**	0	0	0	0	6
62	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
63	10.10	Marine Conservation Zones	0	0	0	0	0
63	**10.11**	**Green Belt**	0	0	0	0	2
63	10.12	Proposed Ramsar sites	0	0	0	0	0

64	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
64	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
64	10.15	Nitrate Sensitive Areas	0	0	0	0	0
64	**10.16**	**Nitrate Vulnerable Zones**	0	0	0	0	1
66	**10.17**	**SSSI Impact Risk Zones**	1	-	-	-	-
67	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
68	11.1	World Heritage Sites	0	0	0	-	-
68	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
68	11.3	National Parks	0	0	0	-	-
68	11.4	Listed Buildings	0	0	0	-	-
69	11.5	Conservation Areas	0	0	0	-	-
69	11.6	Scheduled Ancient Monuments	0	0	0	-	-
69	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
70	**12.1**	**Agricultural Land Classification**	Urban (within 250m)				
71	12.2	Open Access Land	0	0	0	-	-
71	12.3	Tree Felling Licences	0	0	0	-	-
71	12.4	Environmental Stewardship Schemes	0	0	0	-	-
71	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
72	**13.1**	**Priority Habitat Inventory**	0	0	13	-	-
73	13.2	Habitat Networks	0	0	0	-	-
73	13.3	Open Mosaic Habitat	0	0	0	-	-
73	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
75	**14.1**	**10k Availability**	Identified (within 500m)				
77	**14.2**	**Artificial and made ground (10k)**	0	0	0	8	-
79	**14.3**	**Superficial geology (10k)**	0	0	0	3	-

80	14.4	Landslip (10k)	0	0	0	0	-
81	14.5	Bedrock geology (10k)	2	0	9	15	-
83	14.6	Bedrock faults and other linear features (10k)	1	0	12	3	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
85	15.1	50k Availability	Identified (within 500m)				
86	15.2	Artificial and made ground (50k)	0	0	0	2	-
87	15.3	Artificial ground permeability (50k)	0	0	-	-	-
88	15.4	Superficial geology (50k)	0	0	0	1	-
89	15.5	Superficial permeability (50k)	None (within 50m)				
89	15.6	Landslip (50k)	0	0	0	0	-
89	15.7	Landslip permeability (50k)	None (within 50m)				
90	15.8	Bedrock geology (50k)	2	0	3	8	-
91	15.9	Bedrock permeability (50k)	Identified (within 50m)				
92	15.10	Bedrock faults and other linear features (50k)	1	0	5	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
93	16.1	BGS Boreholes	0	1	13	-	-
Page	Section	Natural ground subsidence					
95	17.1	Shrink swell clays	Very low (within 50m)				
96	17.2	Running sands	Negligible (within 50m)				
97	17.3	Compressible deposits	Negligible (within 50m)				
98	17.4	Collapsible deposits	Very low (within 50m)				
99	17.5	Landslides	Very low (within 50m)				
100	17.6	Ground dissolution of soluble rocks	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
102	18.1	Natural cavities	0	0	0	0	-
103	18.2	BritPits	0	0	0	0	-
103	18.3	Surface ground workings	0	0	2	-	-
103	18.4	Underground workings	0	0	0	0	4
104	18.5	Historical Mineral Planning Areas	0	0	0	0	-

104	18.6	Non-coal mining	0	0	0	0	0
104	18.7	Mining cavities	0	0	0	0	0
104	18.8	JPB mining areas	None (within 0m)				
104	**18.9**	**Coal mining**	Identified (within 0m)				
105	18.10	Brine areas	None (within 0m)				
105	18.11	Gypsum areas	None (within 0m)				
105	18.12	Tin mining	None (within 0m)				
105	18.13	Clay mining	None (within 0m)				

Page	Section	Radon	
106	**19.1**	**Radon**	Less than 1% (within 0m)

Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
107	**20.1**	**BGS Estimated Background Soil Chemistry**	2	0	-	-	-
107	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
107	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-

Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
108	21.1	Underground railways (London)	0	0	0	-	-
108	21.2	Underground railways (Non-London)	0	0	0	-	-
109	21.3	Railway tunnels	0	0	0	-	-
109	**21.4**	**Historical railway and tunnel features**	0	0	15	-	-
110	21.5	Royal Mail tunnels	0	0	0	-	-
110	**21.6**	**Historical railways**	0	0	1	-	-
110	21.7	Railways	0	0	0	-	-
110	21.8	Crossrail 1	0	0	0	0	-
111	21.9	Crossrail 2	0	0	0	0	-
111	21.10	HS2	0	0	0	0	-

Recent aerial photograph

Capture Date: 01/07/2018

Site Area: 0.14ha

Recent site history - 2012 aerial photograph

Capture Date: 26/03/2012

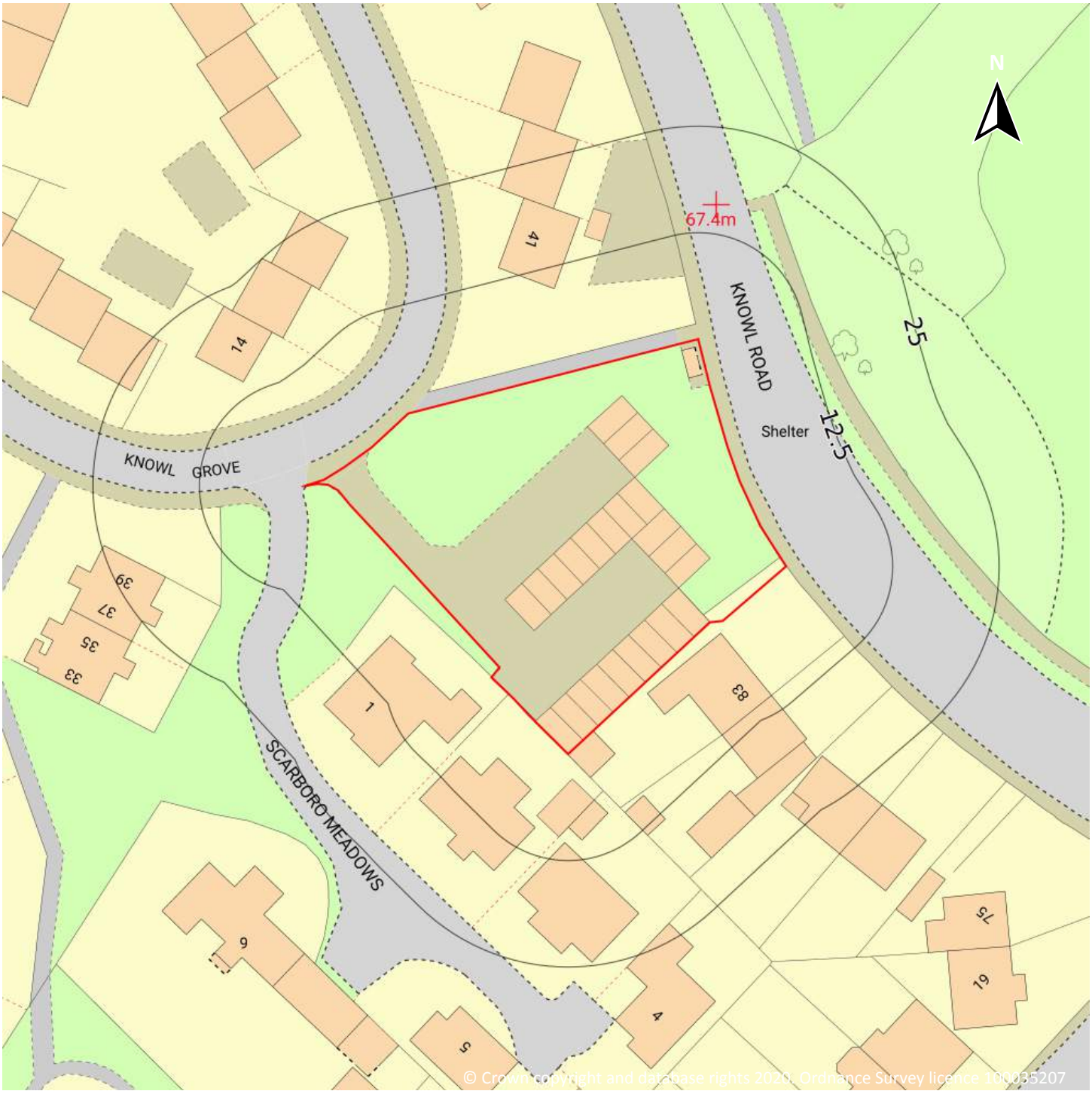
Site Area: 0.14ha

Recent site history - 1999 aerial photograph

Capture Date: 10/07/1999

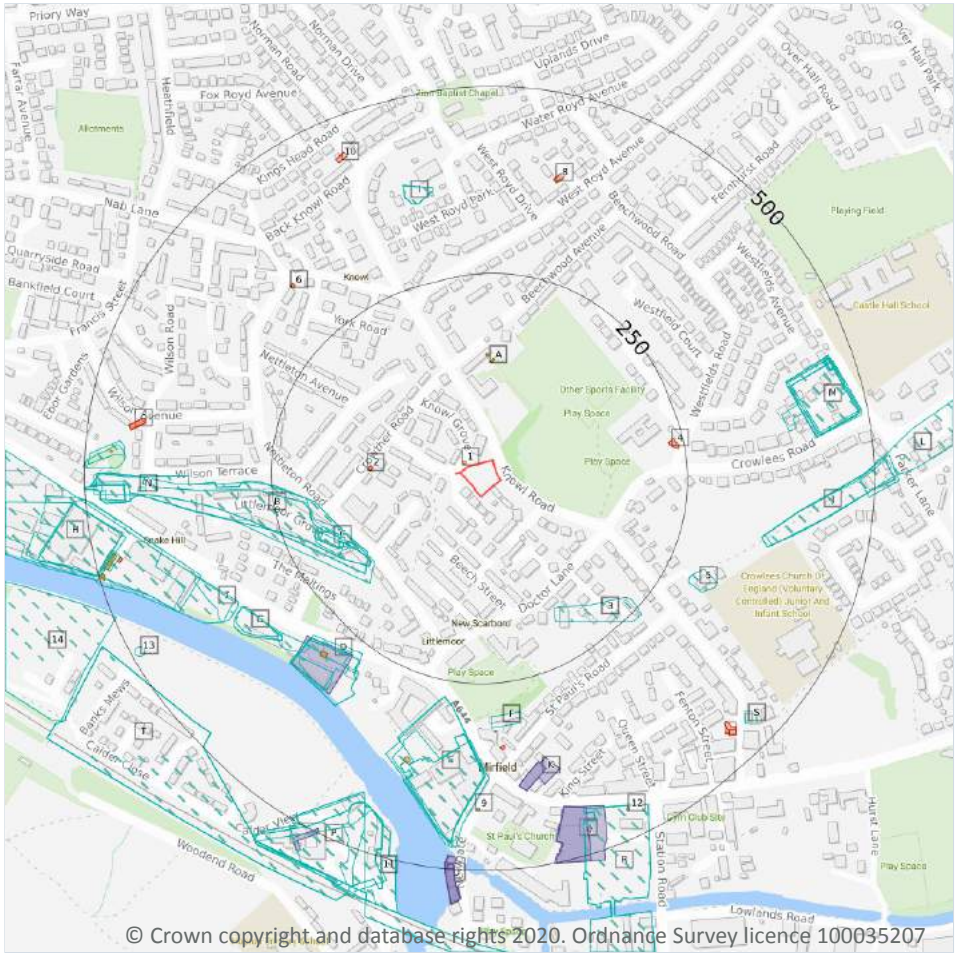
Site Area: 0.14ha

OS MasterMap site plan



Site Area: 0.14ha

1 Past land use



1.1 Historical industrial land uses

Records within 500m	76

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

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
B	161m SW	Railway Sidings	1966	1545531

ID	Location	Land use	Dates present	Group ID
B	161m SW	Railway Sidings	1951	1555392
B	163m SW	Railway Sidings	1938	1461996
B	165m SW	Railway Sidings	1905 - 1931	1480561
B	165m SW	Railway Sidings	1948	1548100
C	168m SW	Railway Building	1951	1483485
C	172m SW	Railway Buildings	1938	1442103
C	176m SW	Railway Building	1905 - 1931	1475208
C	176m SW	Railway Building	1948	1552484
3	179m SE	Unspecified Heap	1981 - 1988	1546220
C	180m SW	Railway Building	1966	1486144
D	263m SW	Unspecified Malthouse	1956	1492508
E	271m S	Unspecified Mill	1938	1535845
D	272m SW	Malthouse	1938	1428933
E	272m S	Unspecified Mill	1951	1529822
D	273m SW	Unspecified Malthouse	1931	1478156
D	273m SW	Unspecified Malthouse	1948	1549842
5	284m SE	Unspecified Heap	1981	1415194
F	292m S	Fire Engine Station	1966	1420970
D	303m SW	Unspecified Heap	1892 - 1905	1511624
D	308m SW	Unspecified Heap	1965 - 1988	1475866
E	318m S	Unspecified Mill	1905 - 1931	1492316
E	319m S	Unspecified Mill	1948	1554849
G	319m SW	Unspecified Heap	1938	1491004
G	322m SW	Unspecified Heap	1948	1526659
G	322m SW	Unspecified Heap	1931	1549073
E	324m S	Unspecified Mill	1966 - 1993	1470860
7	341m SW	Refuse Heap	1966	1436663
H	346m SW	Unspecified Mills	1975 - 1985	1550698

ID	Location	Land use	Dates present	Group ID
I	356m N	Unspecified Heap	1892 - 1931	1459294
I	356m N	Unspecified Heap	1948	1539431
J	358m E	Cuttings	1948 - 1955	1487989
J	358m E	Cuttings	1905 - 1931	1496953
L	362m E	Cuttings	1938	1505271
H	370m W	Unspecified Mills	1951	1462939
M	386m E	Hospital	1967	1461532
H	395m SW	Unspecified Mills	1938	1493915
M	403m E	Hospital	1948 - 1955	1554136
M	403m E	Hospital	1905	1508794
M	403m E	Hospital	1931	1531007
M	405m E	Hospital	1938	1527813
M	409m E	Hospital	1974 - 1988	1532543
N	418m W	Railway Building	1951	1429020
P	425m S	Unspecified Mill	1956	1504283
P	425m S	Unspecified Mill	1965 - 1988	1512536
P	429m S	Unspecified Mill	1938	1536504
P	439m S	Unspecified Mill	1931	1461948
P	439m S	Unspecified Mill	1948	1491971
R	439m S	Unspecified Malthouse	1905 - 1931	1476225
R	439m S	Unspecified Malthouse	1948	1540521
N	440m W	Railway Station	1951	1479300
11	442m S	Unspecified Mill	1993	1549967
P	443m S	Unspecified Mills	1892 - 1905	1541812
N	446m W	Unspecified Quarry	1966 - 1985	1546731
N	446m W	Railway Station	1948	1459891
N	446m W	Railway Station	1905 - 1931	1463671
N	447m W	Railway Station	1938	1554891

ID	Location	Land use	Dates present	Group ID
N	448m W	Unspecified Quarry	1951	1489611
S	451m SE	Police Station	1966 - 1993	1542210
H	453m W	Unspecified Mills	1966	1509495
H	456m W	Unspecified Mills	1948	1472013
H	456m W	Unspecified Mills	1905 - 1931	1538082
M	460m E	Mortuary	1948	1507211
M	460m E	Mortuary	1931	1537936
M	461m E	Mortuary	1955	1515514
M	463m E	Mortuary	1938	1554543
H	466m W	Unspecified Tanks	1951	1425836
H	471m W	Unspecified Tanks	1938	1476849
H	473m W	Unspecified Tanks	1948	1542479
H	473m W	Unspecified Tanks	1931	1542722
T	480m SW	Railway Sidings	1966	1458282
T	480m SW	Railway Sidings	1965	1458283
T	480m SW	Railway Sidings	1956	1459391
L	481m E	Cuttings	1967 - 1981	1528502
13	482m SW	Malt Kiln	1938	1423564
14	496m SW	Unspecified Commercial/Industrial	1938	1493012

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m	**11**

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

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
1	5m NW	Unspecified Tank	1922 - 1933	243492
A	130m N	Unspecified Tank	1957	247347
A	139m N	Unspecified Tank	1922 - 1933	241058
D	294m SW	Tanks	1957	242526
F	314m S	Unspecified Tank	1986	223677
E	361m S	Oil Tanks	1922 - 1933	247185
9	416m S	Unspecified Tank	1907 - 1933	245047
12	459m SE	Unspecified Tank	1965 - 1995	240001
N	463m W	Unspecified Tank	1907	223707
H	470m W	Tanks	1922 - 1933	234254
H	492m W	Tanks	1922 - 1933	238159

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	**12**

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

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
2	115m W	Electricity Substation	1967 - 1973	137942
4	230m E	Electricity Substation	1967 - 1997	143677
6	331m NW	Electricity Substation	1972 - 1996	139156
F	334m S	Electricity Substation	1986 - 1995	141068
8	381m N	Electricity Substation	1967 - 1974	142595
O	422m W	Electricity Substation	1972 - 1983	145727
O	423m W	Electricity Substation	1996	140972

ID	Location	Land use	Dates present	Group ID
10	441m NW	Electricity Substation	1970 - 1996	139175
S	441m SE	Electricity Substation	1995	136378
S	452m SE	Electricity Substation	1986	140717
S	453m SE	Electricity Substation	1985 - 1989	142696
H	464m W	Electricity Substation	1996	129136

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m	**11**

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

Features are displayed on the Past land use map on **page 12**

ID	Location	Land use	Dates present	Group ID
D	273m SW	Garage	1989	41104
K	359m S	Central Garage	1957 - 1965	46465
K	363m S	Central Garage	1957	42514
Q	428m S	Central Garage	1985 - 1986	45902
Q	429m S	Central Garage	1965	41817
U	482m S	Garage	1985 - 1989	44752

ID	Location	Land use	Dates present	Group ID
U	482m S	Garage	1957	44026
U	490m S	Garage	1965 - 1986	45746
U	493m S	Garage	1995	42085
P	495m SW	Garage	1989	41105
U	498m S	Garage	1957	42366

This data is sourced from Ordnance Survey / Groundsure.

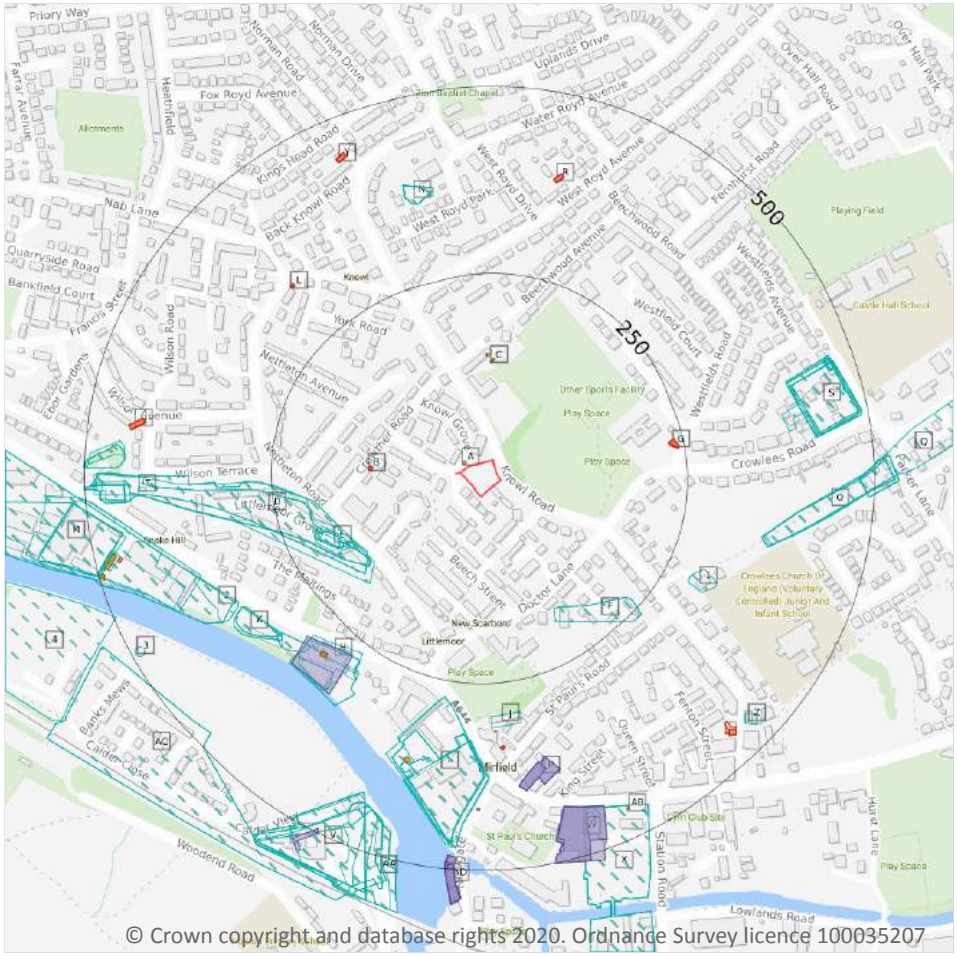
1.6 Historical military land

Records within 500m	**0**

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

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

2 Past land use - un-grouped



Site Outline

Search buffers in metres (m)

Historical industrial land uses

Historical tanks

Historical energy features

Historical garages

2.1 Historical industrial land uses

Records within 500m	107

Potentially contaminative land use features digitised from historical Ordnance Survey mapping at 1:10,000 and 10,560 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
D	161m SW	Railway Sidings	1951	1555392
D	161m SW	Railway Sidings	1966	1545531
D	163m SW	Railway Sidings	1938	1461996

ID	Location	Land Use	Date	Group ID
D	165m SW	Railway Sidings	1948	1548100
D	165m SW	Railway Sidings	1905	1480561
D	165m SW	Railway Sidings	1931	1480561
E	168m SW	Railway Building	1951	1483485
E	172m SW	Railway Buildings	1938	1442103
E	176m SW	Railway Building	1948	1552484
E	176m SW	Railway Building	1905	1475208
E	176m SW	Railway Building	1931	1475208
F	179m SE	Unspecified Heap	1988	1546220
F	179m SE	Unspecified Heap	1981	1546220
E	180m SW	Railway Building	1966	1486144
H	263m SW	Unspecified Malthouse	1956	1492508
I	271m S	Unspecified Mill	1938	1535845
H	272m SW	Malthouse	1938	1428933
I	272m S	Unspecified Mill	1951	1529822
H	273m SW	Unspecified Malthouse	1948	1549842
H	273m SW	Unspecified Malthouse	1931	1478156
1	284m SE	Unspecified Heap	1981	1415194
J	292m S	Fire Engine Station	1966	1420970
H	303m SW	Unspecified Heap	1905	1511624
H	303m SW	Unspecified Heap	1892	1511624
H	308m SW	Unspecified Heap	1988	1475866
H	308m SW	Unspecified Heap	1965	1475866
H	308m SW	Unspecified Heap	1975	1475866
I	318m S	Unspecified Mill	1905	1492316
I	319m S	Unspecified Mill	1948	1554849
I	319m S	Unspecified Mill	1931	1492316
K	319m SW	Unspecified Heap	1938	1491004

ID	Location	Land Use	Date	Group ID
K	319m SW	Unspecified Heap	1938	1491004
K	322m SW	Unspecified Heap	1948	1526659
K	322m SW	Unspecified Heap	1931	1549073
I	324m S	Unspecified Mill	1993	1470860
I	324m S	Unspecified Mill	1982	1470860
I	324m S	Unspecified Mill	1966	1470860
2	341m SW	Refuse Heap	1966	1436663
M	346m SW	Unspecified Mills	1985	1550698
M	346m SW	Unspecified Mills	1975	1550698
N	356m N	Unspecified Heap	1948	1539431
N	356m N	Unspecified Heap	1905	1459294
N	356m N	Unspecified Heap	1892	1459294
N	356m N	Unspecified Heap	1931	1459294
O	358m E	Cuttings	1948	1487989
O	358m E	Cuttings	1905	1496953
O	358m E	Cuttings	1931	1496953
O	359m E	Cuttings	1955	1487989
Q	362m E	Cuttings	1938	1505271
M	370m W	Unspecified Mills	1951	1462939
S	386m E	Hospital	1967	1461532
M	395m SW	Unspecified Mills	1938	1493915
S	403m E	Hospital	1955	1554136
S	403m E	Hospital	1948	1554136
S	403m E	Hospital	1905	1508794
S	403m E	Hospital	1931	1531007
S	405m E	Hospital	1938	1527813
S	409m E	Hospital	1988	1532543
S	409m E	Hospital	1981	1532543

ID	Location	Land Use	Date	Group ID
S	409m E	Hospital	1974	1532543
T	418m W	Railway Building	1951	1429020
V	425m S	Unspecified Mill	1965	1512536
V	425m S	Unspecified Mill	1956	1504283
V	425m S	Unspecified Mill	1975	1512536
V	429m S	Unspecified Mill	1938	1536504
V	439m S	Unspecified Mill	1948	1491971
V	439m S	Unspecified Mill	1931	1461948
X	439m S	Unspecified Malthouse	1948	1540521
X	439m S	Unspecified Malthouse	1905	1476225
X	439m S	Unspecified Malthouse	1931	1476225
T	440m W	Railway Station	1951	1479300
AA	442m S	Unspecified Mill	1993	1549967
AA	442m S	Unspecified Mill	1982	1512536
V	442m S	Unspecified Mill	1988	1512536
V	443m S	Unspecified Mills	1905	1541812
V	443m S	Unspecified Mills	1892	1541812
T	446m W	Unspecified Quarry	1966	1546731
T	446m W	Unspecified Quarry	1985	1546731
T	446m W	Unspecified Quarry	1975	1546731
T	446m W	Railway Station	1948	1459891
T	446m W	Railway Station	1905	1463671
T	446m W	Railway Station	1931	1463671
T	447m W	Railway Station	1938	1554891
T	448m W	Unspecified Quarry	1951	1489611
Z	451m SE	Police Station	1993	1542210
Z	451m SE	Police Station	1982	1542210
Z	451m SE	Police Station	1966	1542210

ID	Location	Land Use	Date	Group ID
M	453m W	Unspecified Mills	1966	1509495
AA	453m S	Unspecified Mill	1966	1512536
M	456m W	Unspecified Mills	1948	1472013
M	456m W	Unspecified Mills	1905	1538082
M	456m W	Unspecified Mills	1931	1538082
S	460m E	Mortuary	1948	1507211
S	460m E	Mortuary	1931	1537936
S	461m E	Mortuary	1955	1515514
S	463m E	Mortuary	1938	1554543
M	466m W	Unspecified Tanks	1951	1425836
M	471m W	Unspecified Tanks	1938	1476849
M	473m W	Unspecified Tanks	1948	1542479
M	473m W	Unspecified Tanks	1931	1542722
AC	480m SW	Railway Sidings	1965	1458283
AC	480m SW	Railway Sidings	1956	1459391
Q	481m E	Cuttings	1981	1528502
Q	481m E	Cuttings	1974	1528502
Q	481m E	Cuttings	1967	1528502
3	482m SW	Malt Kiln	1938	1423564
4	496m SW	Unspecified Commercial/Industrial	1938	1493012

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	**22**

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

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
A	5m NW	Unspecified Tank	1922	243492
A	5m NW	Unspecified Tank	1933	243492
C	130m N	Unspecified Tank	1957	247347
C	131m N	Unspecified Tank	1957	247347
C	139m N	Unspecified Tank	1922	241058
C	139m N	Unspecified Tank	1933	241058
H	294m SW	Tanks	1957	242526
H	295m SW	Tanks	1957	242526
J	314m S	Unspecified Tank	1986	223677
I	361m S	Oil Tanks	1922	247185
I	361m S	Oil Tanks	1933	247185
I	416m S	Unspecified Tank	1907	245047
I	416m S	Unspecified Tank	1922	245047
I	416m S	Unspecified Tank	1933	245047
AB	459m SE	Unspecified Tank	1965	240001
AB	459m SE	Unspecified Tank	1986	240001
AB	460m SE	Unspecified Tank	1995	240001
T	463m W	Unspecified Tank	1907	223707
M	470m W	Tanks	1922	234254
M	470m W	Tanks	1933	234254
M	492m W	Tanks	1922	238159
M	492m W	Tanks	1933	238159

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m	**28**

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

Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
B	115m W	Electricity Substation	1973	137942
B	115m W	Electricity Substation	1968	137942
B	115m W	Electricity Substation	1967	137942
G	230m E	Electricity Substation	1997	143677
G	231m E	Electricity Substation	1973	143677
G	231m E	Electricity Substation	1968	143677
G	231m E	Electricity Substation	1967	143677
L	331m NW	Electricity Substation	1972	139156
L	332m NW	Electricity Substation	1996	139156
J	334m S	Electricity Substation	1995	141068
J	334m S	Electricity Substation	1986	141068
J	334m S	Electricity Substation	1989	141068
R	381m N	Electricity Substation	1968	142595
R	381m N	Electricity Substation	1974	142595
R	381m N	Electricity Substation	1967	142595
U	422m W	Electricity Substation	1972	145727
U	423m W	Electricity Substation	1996	140972
U	423m W	Electricity Substation	1983	145727
Y	441m NW	Electricity Substation	1970	139175
Y	441m NW	Electricity Substation	1981	139175
Y	441m NW	Electricity Substation	1984	139175
Y	441m NW	Electricity Substation	1990	139175
Z	441m SE	Electricity Substation	1995	136378
Y	442m NW	Electricity Substation	1996	139175
Z	452m SE	Electricity Substation	1986	140717
Z	453m SE	Electricity Substation	1985	142696
Z	453m SE	Electricity Substation	1989	142696

ID	Location	Land Use	Date	Group ID
M	464m W	Electricity Substation	1996	129136

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m	**0**

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

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m	**15**

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

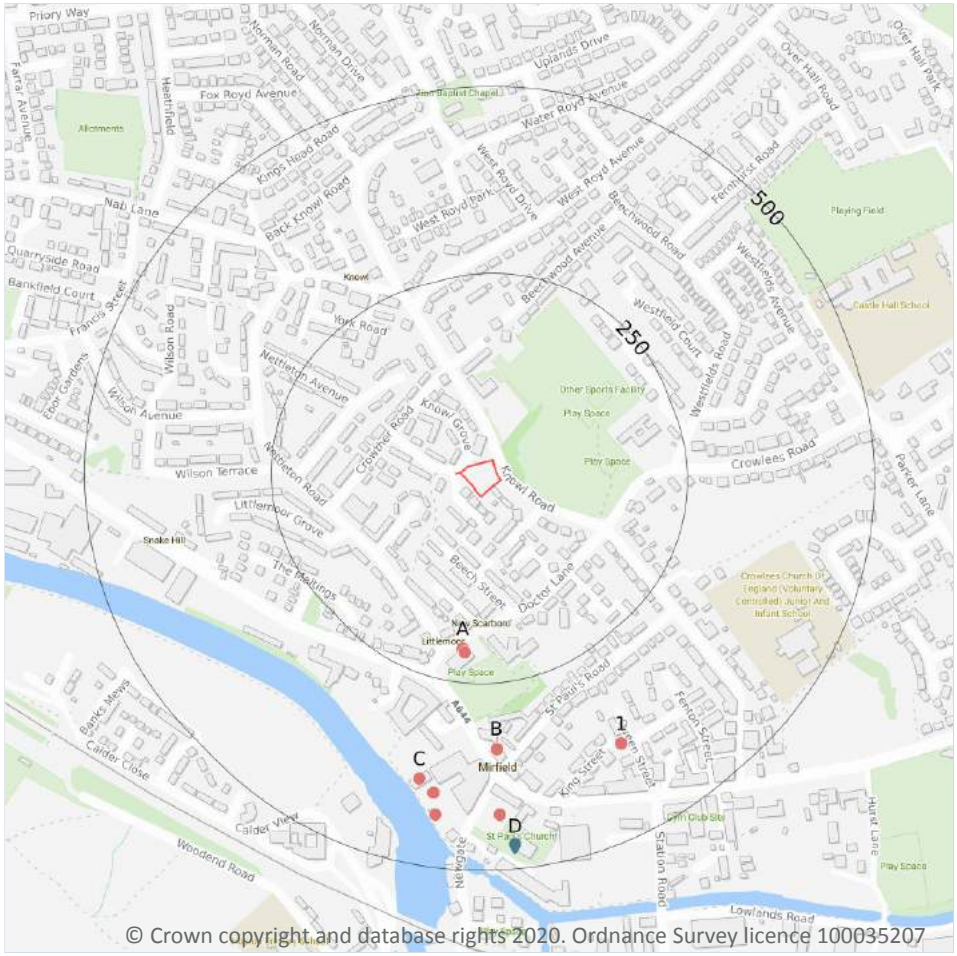
Features are displayed on the Past land use - un-grouped map on **page 19**

ID	Location	Land Use	Date	Group ID
H	273m SW	Garage	1989	41104
P	359m S	Central Garage	1965	46465
P	359m S	Central Garage	1957	46465
P	363m S	Central Garage	1957	42514
W	428m S	Central Garage	1985	45902
W	429m S	Central Garage	1965	41817
W	429m S	Central Garage	1986	45902
AD	482m S	Garage	1985	44752
AD	482m S	Garage	1989	44752
AD	482m S	Garage	1957	44026
AD	490m S	Garage	1965	45746
AD	490m S	Garage	1986	45746

ID	Location	Land Use	Date	Group ID
AD	493m S	Garage	1995	42085
V	495m SW	Garage	1989	41105
AD	498m S	Garage	1957	42366

This data is sourced from Ordnance Survey / Groundsure.

3 Waste and landfill



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Site Outline

Search buffers in metres (m)

Licensed waste sites

Waste exemptions

3.1 Active or recent landfill

Records within 500m	0

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

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

3.2 Historical landfill (BGS records)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m	0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m	0

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

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

3.5 Historical waste sites

Records within 500m	0

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

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

3.6 Licensed waste sites

Records within 500m	2

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

Features are displayed on the Waste and landfill map on **page 28**

ID	Location	Details		
D	470m S	Site Name: Fold Head Mills Site Address: Newgate, Mirfield, Dewsbury, West Yorkshire Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIF003 EPR reference: UP3195ZQ/S002 Operator: Biffa Waste Services Limited Waste Management licence No: 60994 Annual Tonnage: 250000	Issue Date: 31/07/1980 Effective Date: - Modified:: - Surrendered Date: 23/10/2000 Expiry Date: - Cancelled Date: - Status: Surrendered
D	470m S	Site Name: Fold Head Mills Site Address: Newgate, Mirfield, Dewsbury, West Yorkshir Correspondence Address: -	Type of Site: Household, Commercial & Industrial Waste Landfill Size: >= 25000 tonnes 75000 tonnes Environmental Permitting Regulations (Waste) Licence Number: BIF003 EPR reference: EA/EPR/UP3195ZQ/S002 Operator: Biffa Waste Services Ltd Waste Management licence No: 60994 Annual Tonnage: 250000	Issue Date: 31/07/1980 Effective Date: - Modified:: - Surrendered Date: Oct 23 2000 12:00AM Expiry Date: - Cancelled Date: - Status: Surrendered

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

3.7 Waste exemptions

Records within 500m **19**

Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 28**

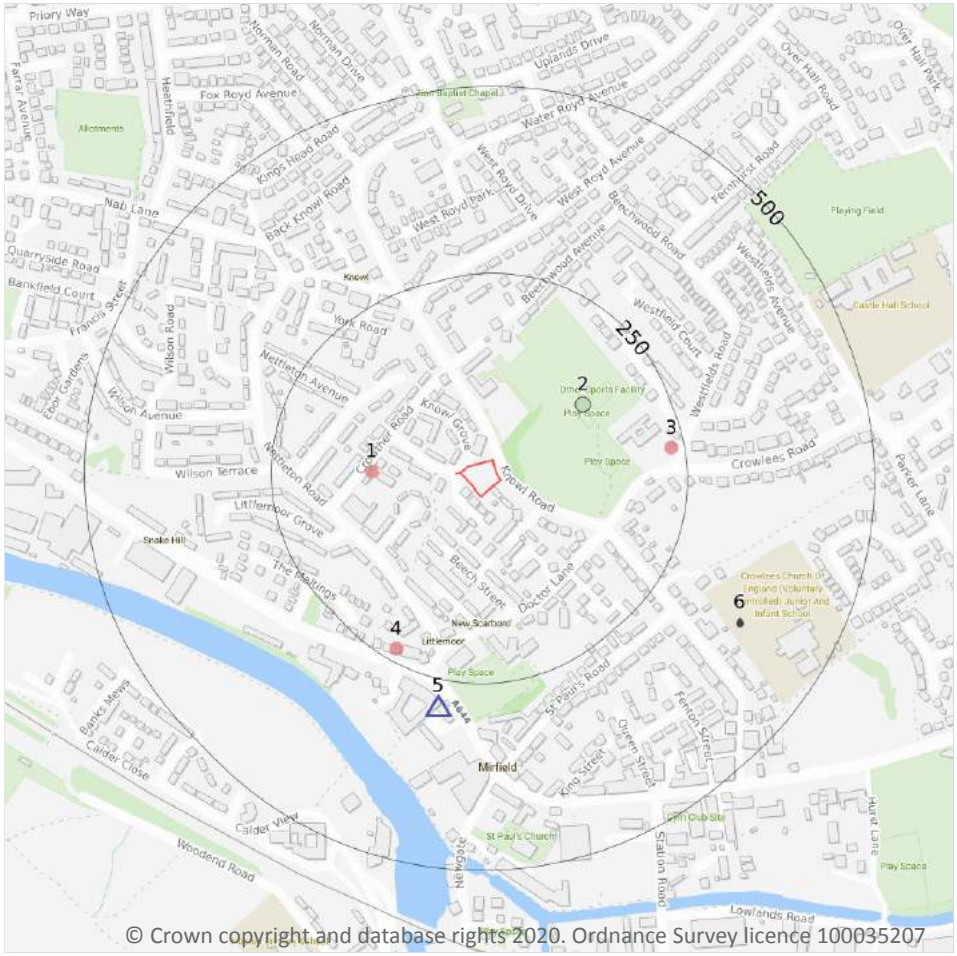
ID	Location	Site	Reference	Category	Sub-Category	Description
A	206m S	Mirfield Health Centre Doctor Lane MIRFIELD West Yorkshire WF14 8DU	EPR/NF0930VZ/A001	Treating waste exemption	Non-Agricultural Waste Only	Sorting and de-naturing of controlled drugs for disposal
A	210m S	DOCTOR LANE, MIRFIELD, WF14 8DU	WEX231599	Storing waste exemption	Not on a farm	Storage of waste in secure containers

ID	Location	Site	Reference	Category	Sub-Category	Description
A	210m S	DOCTOR LANE, MIRFIELD, WF14 8DU	WEX087249	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	339m S	196, HUDDERSFIELD ROAD, MIRFIELD, WF14 8AZ	WEX155570	Storing waste exemption	Not on a Farm	Storage of waste in a secure place
B	339m S	196, HUDDERSFIELD ROAD, MIRFIELD, WF14 8AZ	WEX155570	Treating waste exemption	Not on a Farm	Sorting and de-naturing of controlled drugs for disposal
B	339m S	196, HUDDERSFIELD ROAD, MIRFIELD, WF14 8AZ	WEX155570	Storing waste exemption	Not on a Farm	Storage of waste in secure containers
B	339m S	196, HUDDERSFIELD ROAD, MIRFIELD, WF14 8AZ	WEX029777	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
1	380m SE	CAVENDISH HOUSE 7-9, QUEEN STREET, MIRFIELD, WF14 8AH	WEX187819	Treating waste exemption	Not on a farm	Sorting and de-naturing of controlled drugs for disposal
C	387m S	Foldhead Mills Newgate MIRFIELD West Yorkshire WF14 8DD	EPR/HE5545NU/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in a secure place
C	402m S	Foldhead Mills Newgate MIRFIELD West Yorkshire WF14 8DD	EPR/KF0739YL/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of waste in secure containers
C	402m S	Foldhead Mills Newgate MIRFIELD West Yorkshire WF14 8DD	EPR/KF0739YL/A001	Treating waste exemption	Non-Agricultural Waste Only	Cleaning, washing, spraying or coating relevant waste
C	402m S	Foldhead Mills Newgate MIRFIELD West Yorkshire WF14 8DD	EPR/KF0739YL/A001	Treating waste exemption	Non-Agricultural Waste Only	Preparatory treatments (baling, sorting, shredding etc)
D	427m S	UNIT B2 Foldhead Mills, New gate, Mirfield, Dewsbury, WF14 8DD	WEX003048	Storing waste exemption	Not on a farm	Storage of waste in secure containers
D	427m S	UNIT B2 Foldhead Mills, New gate, Mirfield, Dewsbury, WF14 8DD	WEX003048	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	427m S	UNIT B2 Foldhead Mills, New gate, Mirfield, Dewsbury, WF14 8DD	WEX003048	Treating waste exemption	Not on a farm	Cleaning, washing, spraying or coating relevant waste
D	427m S	UNIT B2 Foldhead Mills, New gate, Mirfield, Dewsbury, WF14 8DD	WEX003048	Treating waste exemption	Not on a farm	Sorting mixed waste
D	427m S	UNIT B2 Foldhead Mills, New gate, Mirfield, Dewsbury, WF14 8DD	WEX003048	Treating waste exemption	Not on a farm	Manual treatment of waste

ID	Location	Site	Reference	Category	Sub-Category	Description
D	427m S	UNIT B2 Foldhead Mills, New gate, Mirfield, Dewsbury, WF14 8DD	WEX003048	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
C	430m S	UNIT 3 FOLDHEAD MILL WEST YORKSHIRE WF14 8DD	EPR/PF0001GU/A001	Using waste exemption	Non-Agricultural Waste Only	Burning of waste as a fuel in a small appliance

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

4 Current industrial land use



Site Outline

Search buffers in metres (m)

Recent industrial land uses

Current or recent petrol stations

Licensed Discharges to controlled waters

Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m	**3**

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 33**

ID	Location	Company	Address	Activity	Category
1	116m W	Electricity Sub Station	West Yorkshire, WF14	Electrical Features	Infrastructure and Facilities
3	232m E	Electricity Sub Station	West Yorkshire, WF14	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
4	233m SW	Blow Up Lady Balloons	214, Huddersfield Road, Mirfield, West Yorkshire, WF14 9PX	Giftware	Consumer Products

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	**1**

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 33**

ID	Location	Company	Address	LPG	Status
5	286m S	OBSOLETE	117, Huddersfield Road, Mirfield, West Yorkshire, WF14 9DA	Not Applicable	Obsolete

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	**0**

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	**0**

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	**0**

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m	0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m	0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m	0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m	0

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

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

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

Records within 500m	0

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

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m	0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m	1

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

Features are displayed on the Current industrial land use map on **page 33**

ID	Location	Address	Details	
6	371m SE	DARLEY SPS, MIRFIELD	Effluent Type: SEWAGE DISCHARGES - PUMPING STATION - WATER COMPANY Permit Number: WADC119 Permit Version: 1 Receiving Water: DARLEY BECK	Status: TRANSFERRED FROM WATER ACT 1989 Issue date: 02/11/1989 Effective Date: 02/11/1989 Revocation Date: 11/06/2003

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m	0

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

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

4.15 Pollutant release to public sewer

Records within 500m	0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m	0

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

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

4.17 List 2 Dangerous Substances

Records within 500m	0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m	1

Records of substantiated pollution incidents. Since 2006 this data has only included category 1 (major) and 2 (significant) pollution incidents.

Features are displayed on the Current industrial land use map on **page 33**

ID	Location	Details	
2	141m NE	Incident Date: 02/08/2002 Incident Identification: 97108 Pollutant: Sewage Materials Pollutant Description: Storm Sewage	Water Impact: Category 4 (No Impact) Land Impact: Category 2 (Significant) Air Impact: Category 3 (Minor)

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

4.19 Pollution inventory substances

Records within 500m	0

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

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

4.20 Pollution inventory waste transfers

Records within 500m	0

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

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

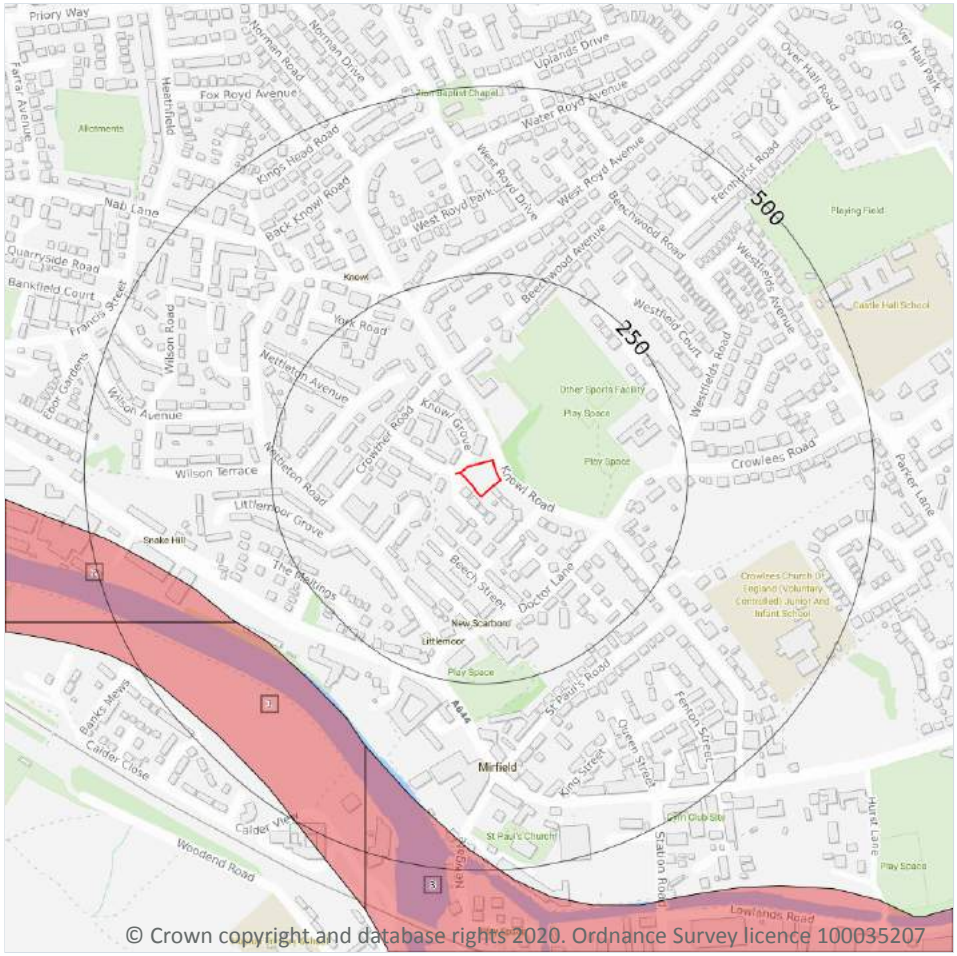
4.21 Pollution inventory radioactive waste

Records within 500m	0

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

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

5 Hydrogeology - Superficial aquifer



Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m	3

Aquifer status of groundwater held within superficial geology.

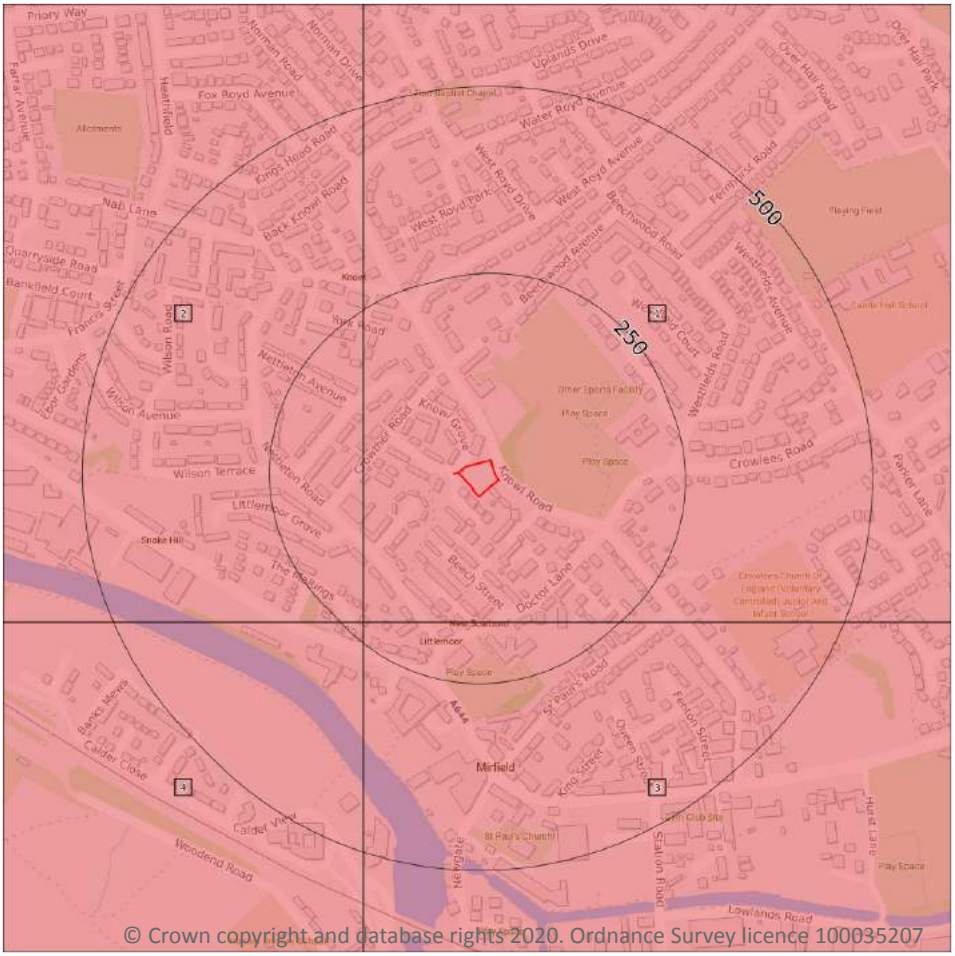
Features are displayed on the Hydrogeology map on **page 39**

ID	Location	Designation	Description
1	336m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	357m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	368m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Bedrock aquifer



5.2 Bedrock aquifer

Records within 500m	4

Aquifer status of groundwater held within bedrock geology.

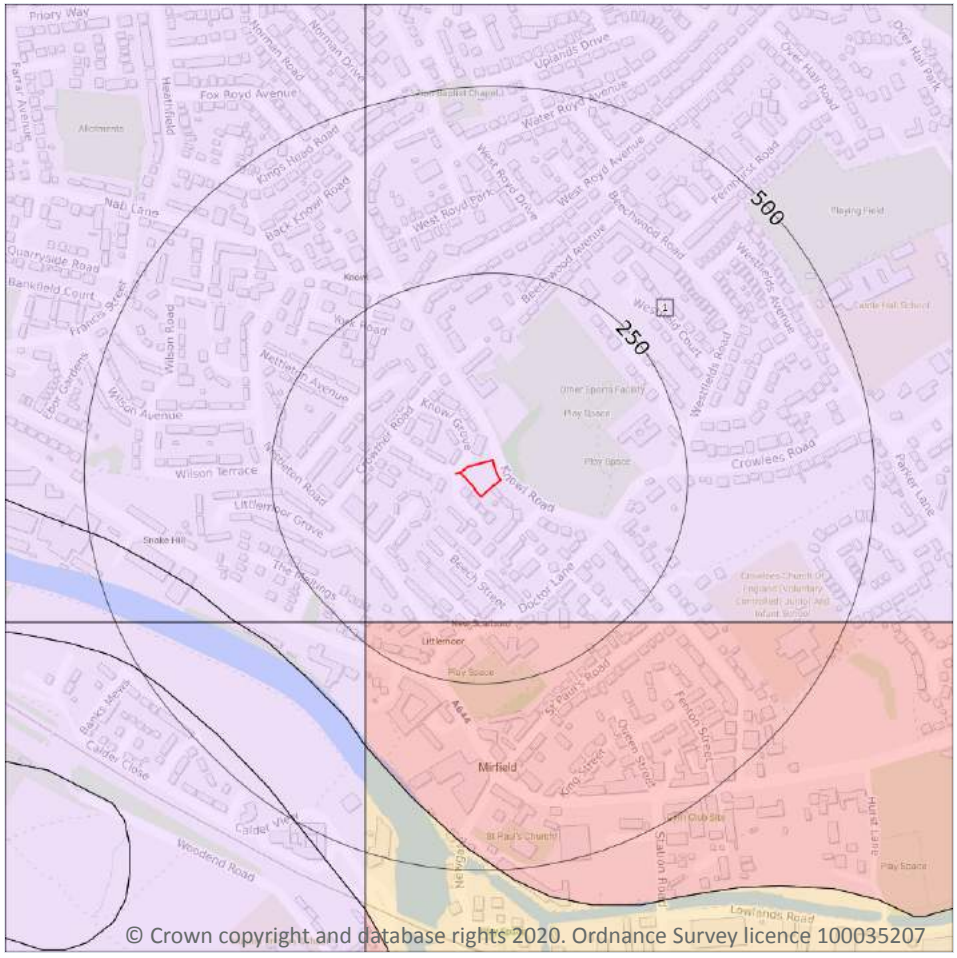
Features are displayed on the Bedrock aquifer map on **page 41**

ID	Location	Designation	Description
1	**On site**	**Secondary A**	**Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers**
2	124m W	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

ID	Location	Designation	Description
3	168m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	229m SW	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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

Groundwater vulnerability



Site Outline

Search buffers in metres (m)

Superficial vulnerability

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

Bedrock vulnerability

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

Other information

- Unproductive aquifer
- Soluble rock risk
- Local information

5.3 Groundwater vulnerability

Records within 50m	1

An assessment of the vulnerability of groundwater to a pollutant discharged at ground level based on the hydrological, geological, hydrogeological and soil properties within a one kilometre square grid. Groundwater vulnerability is described as High, Medium or Low as follows:

- High - Areas able to easily transmit pollution to groundwater. They are likely to be characterised by high leaching soils and the absence of low permeability superficial deposits.
- Medium - Intermediate between high and low vulnerability.
- Low - Areas that provide the greatest protection from pollution. They are likely to be characterised by low leaching soils and/or the presence of superficial deposits characterised by a low permeability.

Features are displayed on the Groundwater vulnerability map on **page 43**

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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site	**0**

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

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

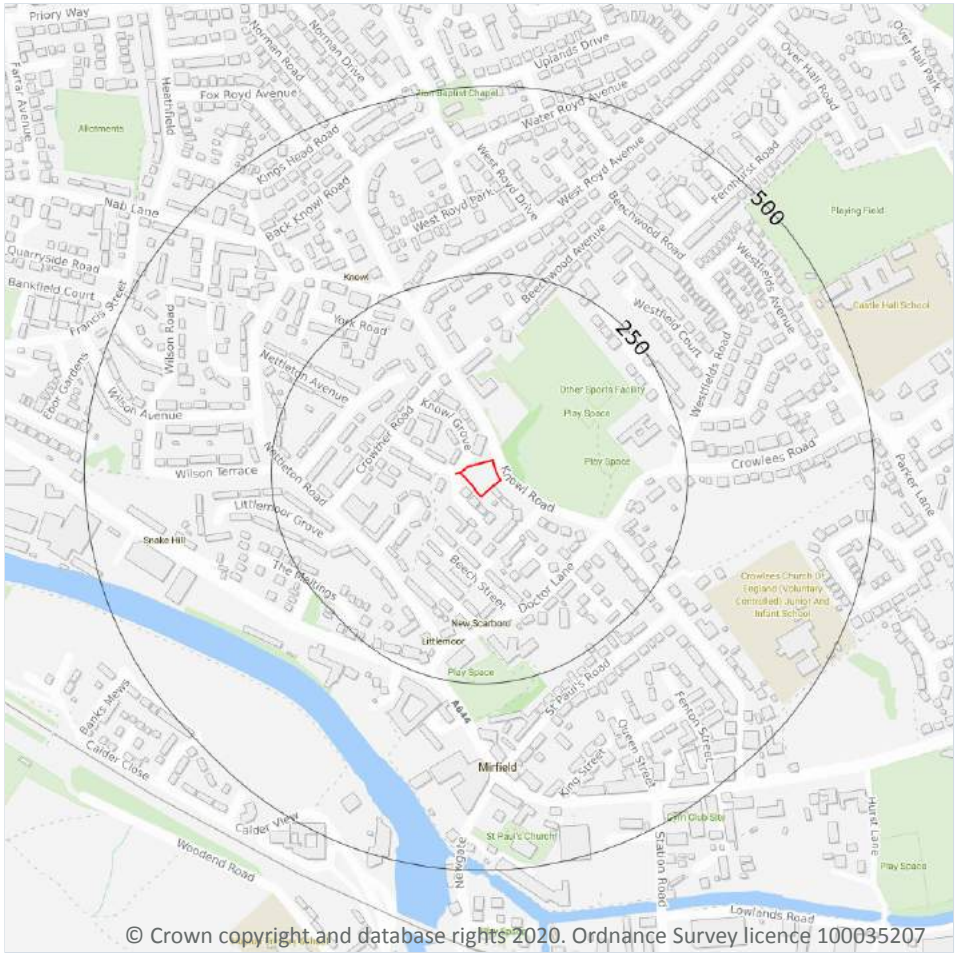
5.5 Groundwater vulnerability- local information

Records on site	**0**

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

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

Abstractions and Source Protection Zones



Site Outline

Search buffers in metres (m)

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

5.6 Groundwater abstractions

Records within 2000m	16

Licensed groundwater abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, between two points (line data) or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 45**

ID	Location	Details	
-	963m SW	Status: Historical Licence No: 2/27/13/090 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: -- WELL Data Type: Point Name: DEWS Easting: 419300 Northing: 419700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1974 Version End Date: -
-	963m SW	Status: Historical Licence No: 2/27/13/090 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL - COAL MEASURES - COLNSBRIDGE BRADLEY Data Type: Point Name: DEWS Easting: 419300 Northing: 419700	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 17/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/03/1974 Version End Date: -
-	1378m SE	Status: Active Licence No: NE/027/0013/014 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: DR REDDY'S LABORATORIES (EU) LTD Easting: 421401 Northing: 419548	Annual Volume (m^3): 13,800 Max Daily Volume (m^3): 80 Original Application No: - Original Start Date: 08/07/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 08/07/2014 Version End Date: -
-	1378m SE	Status: Active Licence No: NE/027/0013/014 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: DR REDDY'S LABORATORIES (EU) LTD Easting: 421401 Northing: 419548	Annual Volume (m^3): 13,800 Max Daily Volume (m^3): 80 Original Application No: - Original Start Date: 08/07/2014 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 08/07/2014 Version End Date: -
-	1401m SE	Status: Historical Licence No: 2/27/13/192 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MITCHELL COTTS CHEMICALS LIMITED Easting: 421400 Northing: 419500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/09/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 03/09/1997 Version End Date: -

ID	Location	Details	
-	1401m SE	Status: Historical Licence No: 2/27/13/192 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: MITCHELL COTTS CHEMICALS LIMITED Easting: 421400 Northing: 419500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/09/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 03/09/1997 Version End Date: -
-	1401m SE	Status: Historical Licence No: 2/27/13/192 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: MITCHELL COTTS CHEMICALS LTD Easting: 421400 Northing: 419500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/09/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 03/09/1997 Version End Date: -
-	1401m SE	Status: Historical Licence No: 2/27/13/192 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: MITCHELL COTTS CHEMICALS LTD Easting: 421400 Northing: 419500	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 03/09/1997 Expiry Date: 31/12/2006 Issue No: 100 Version Start Date: 03/09/1997 Version End Date: -
-	1432m E	Status: Historical Licence No: 2/27/13/063 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL Data Type: Point Name: BROOK Easting: 421600 Northing: 420000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/01/1972 Version End Date: -
-	1432m E	Status: Historical Licence No: 2/27/13/063 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL - COAL MEASURES - MIRFIELD Data Type: Point Name: BROOK Easting: 421600 Northing: 420000	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 27/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 12/01/1972 Version End Date: -

ID	Location	Details	
-	1573m NE	Status: Historical Licence No: 2/27/13/231 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: JOHN L BARBER & SON Easting: 420920 Northing: 421600	Annual Volume (m^3): 25000 Max Daily Volume (m^3): 103 Original Application No: - Original Start Date: 08/09/2008 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 08/09/2008 Version End Date: -
-	1870m SE	Status: Historical Licence No: 2/27/13/219 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-MIRFIELD Data Type: Point Name: HOPTON MILLS LTD Easting: 421160 Northing: 418590	Annual Volume (m^3): 100000 Max Daily Volume (m^3): 400 Original Application No: - Original Start Date: 01/01/2006 Expiry Date: 31/03/2015 Issue No: 3 Version Start Date: 02/06/2009 Version End Date: -
-	1870m SE	Status: Historical Licence No: 2/27/13/219 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-MIRFIELD Data Type: Point Name: YCPD (Wheatley Park) Ltd Easting: 421160 Northing: 418590	Annual Volume (m^3): 15100 Max Daily Volume (m^3): 145 Original Application No: - Original Start Date: 01/01/2006 Expiry Date: 31/03/2015 Issue No: 6 Version Start Date: 24/03/2013 Version End Date: -
-	1870m SE	Status: Active Licence No: 2/27/13/219/R01 Details: Non-Evaporative Cooling Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-MIRFIELD Data Type: Point Name: Wheatley Park Management Ltd Easting: 421160 Northing: 418590	Annual Volume (m^3): 15,100 Max Daily Volume (m^3): 145 Original Application No: - Original Start Date: 01/04/2015 Expiry Date: 31/03/2027 Issue No: 4 Version Start Date: 03/05/2019 Version End Date: -
-	1941m SE	Status: Historical Licence No: 2/27/13/182 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: INTERFACE FABRICS LIMITED Easting: 421300 Northing: 418600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/08/1996 Expiry Date: 31/12/2005 Issue No: 101 Version Start Date: 14/09/1999 Version End Date: -

ID	Location	Details	
-	1941m SE	Status: Historical Licence No: 2/27/13/182 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - MIRFIELD Data Type: Point Name: INTERFACE FABRICS LTD Easting: 421300 Northing: 418600	Annual Volume (m^3): - Max Daily Volume (m^3): - Original Application No: - Original Start Date: 26/08/1996 Expiry Date: 31/12/2005 Issue No: 101 Version Start Date: 14/09/1999 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m **3**

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 45**

ID	Location	Details	
-	1163m SE	Status: Active Licence No: 2/27/13/050 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: RIVER CALDER - HOLME BANK MILLS Data Type: Point Name: James Walker Textiles Ltd Easting: 420800 Northing: 419200	Annual Volume (m^3): 36,368 Max Daily Volume (m^3): 227.30 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 101 Version Start Date: 15/06/2009 Version End Date: -
-	1954m W	Status: Historical Licence No: 2/27/13/049 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: NUNBROOK BECK Data Type: Point Name: JOHN COTTON (MIRFIELD) LTD Easting: 418300 Northing: 420900	Annual Volume (m^3): 57825 Max Daily Volume (m^3): 327.312 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -

ID	Location	Details	
-	1954m W	Status: Active Licence No: 2/27/13/049 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: SURFACE WATER Point: NUNBROOK BECK - MIRFIELD Data Type: Point Name: JOHN COTTON (MIRFIELD) LTD Easting: 418300 Northing: 420900	Annual Volume (m^3): 57,825 Max Daily Volume (m^3): 327.31 Original Application No: - Original Start Date: 20/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 20/01/1966 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0

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

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

5.9 Source Protection Zones

Records within 500m	0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m	0

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

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

6 Hydrology

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Site Outline

Search buffers in metres (m)

Water Network (OS MasterMap)

Surface water features (wider than 5m)

Surface water features (narrower than 5m)

WFD River, canal and surface water transfer water bodies

WFD Lake water bodies

WFD Transitional and coastal water bodies

WFD Surface water body catchments boundaries

WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m	0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	1

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

Features are displayed on the Hydrology map on **page 51**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	**On site**	**River WB catchment**	**Calder from River Colne to River Chald**	**GB104027062631**	**Lower Calder**	**Aire and Calder**

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

6.4 WFD Surface water bodies

Records identified	1

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

Features are displayed on the Hydrology map on **page 51**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
2	351m SW	River	Calder from River Colne to River Chald	GB104027062631	Moderate	Fail	Moderate	2016

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

6.5 WFD Groundwater bodies

Records on site	1

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

Features are displayed on the Hydrology map on **page 51**

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

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

7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m	0

The chance of flooding from rivers and/or the sea in any given year, based on cells of 50m. Each cell is allocated one of four flood risk categories, taking into account flood defences and their condition; Very low (less than 1 in 1000 chance in any given year), Low (less than 1 in 100 but greater than or equal to 1 in 1000 chance), Medium (less than 1 in 30 but greater than or equal to 1 in 100 chance) or High (greater than or equal to 1 in 30 chance).

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

7.2 Historical Flood Events

Records within 250m	0

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

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

7.3 Flood Defences

Records within 250m	0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m	0

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

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

7.5 Flood Storage Areas

Records within 250m	0

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

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

River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m	0

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

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

7.7 Flood Zone 3

Records within 50m	0

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

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

8 Surface water flooding

Site Outline

Search buffers in metres (m)

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

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

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

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

8.1 Surface water flooding

Highest risk on site	**1 in 100 year, 0.1m - 0.3m**
Highest risk within 50m	**1 in 30 year, 0.1m - 0.3m**

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

Features are displayed on the Surface water flooding map on **page 57**

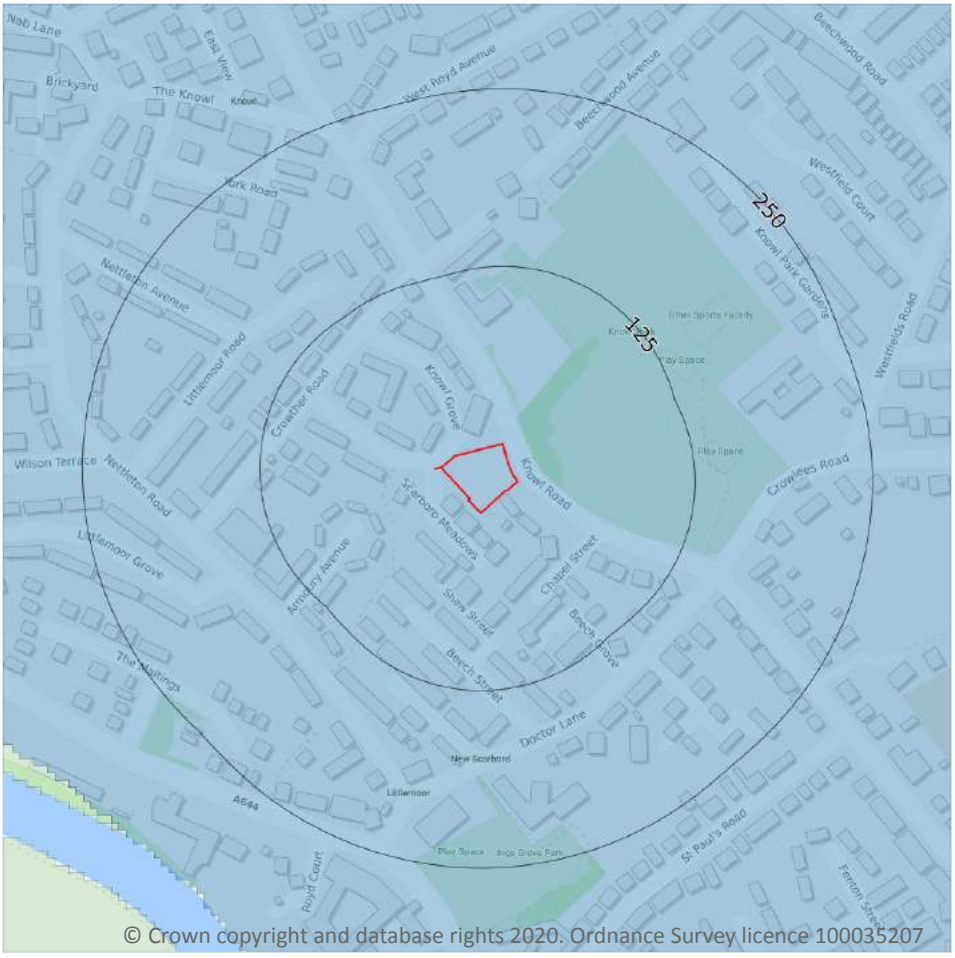
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site.

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

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

This data is sourced from Ambiental Risk Analytics.

9 Groundwater flooding



Site Outline

Search buffers in metres (m)

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

9.1 Groundwater flooding

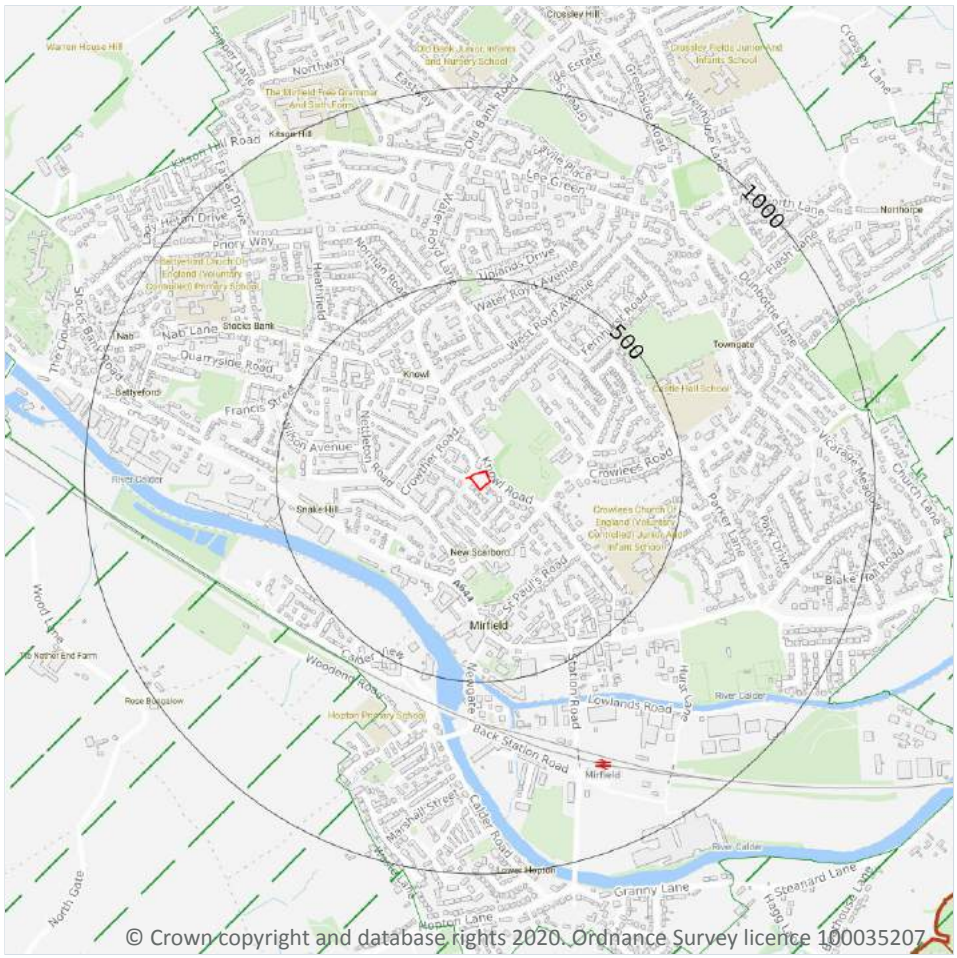
Highest risk on site	**Negligible**
Highest risk within 50m	**Negligible**

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

Features are displayed on the Groundwater flooding map on **page 59**

This data is sourced from Ambiental Risk Analytics.

10 Environmental designations



Site Outline

Search buffers in metres (m)

Local Nature Reserves (LNR)

Designated Ancient Woodland

Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m	0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m	0

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m	0

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m	0

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m	1

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

Features are displayed on the Environmental designations map on **page 60**

ID	Location	Name	Data source
-	1386m N	Sunny Bank Ponds	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m	6

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

Features are displayed on the Environmental designations map on **page 60**

ID	Location	Name	Woodland Type
-	1307m S	Briery Bank	Ancient Replanted Woodland
-	1415m SE	Newhall Wood	Ancient Replanted Woodland
6	1609m SE	Whitley Wood/hagg Wood	Ancient Replanted Woodland
-	1611m W	Heaton Hall Wood	Ancient Replanted Woodland
-	1796m S	Hepworth Wood	Ancient Replanted Woodland
-	1833m S	Hepworth Wood	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m	0

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

local community.

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

10.9 Forest Parks

Records within 2000m	0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m	0

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

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

10.11 Green Belt

Records within 2000m	2

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

Features are displayed on the Environmental designations map on **page 60**

ID	Location	Name	Local Authority name
1	563m SW	South and West Yorkshire	Kirklees
2	886m E	South and West Yorkshire	Kirklees

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

10.12 Proposed Ramsar sites

Records within 2000m	0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m	0

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m	0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m	0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

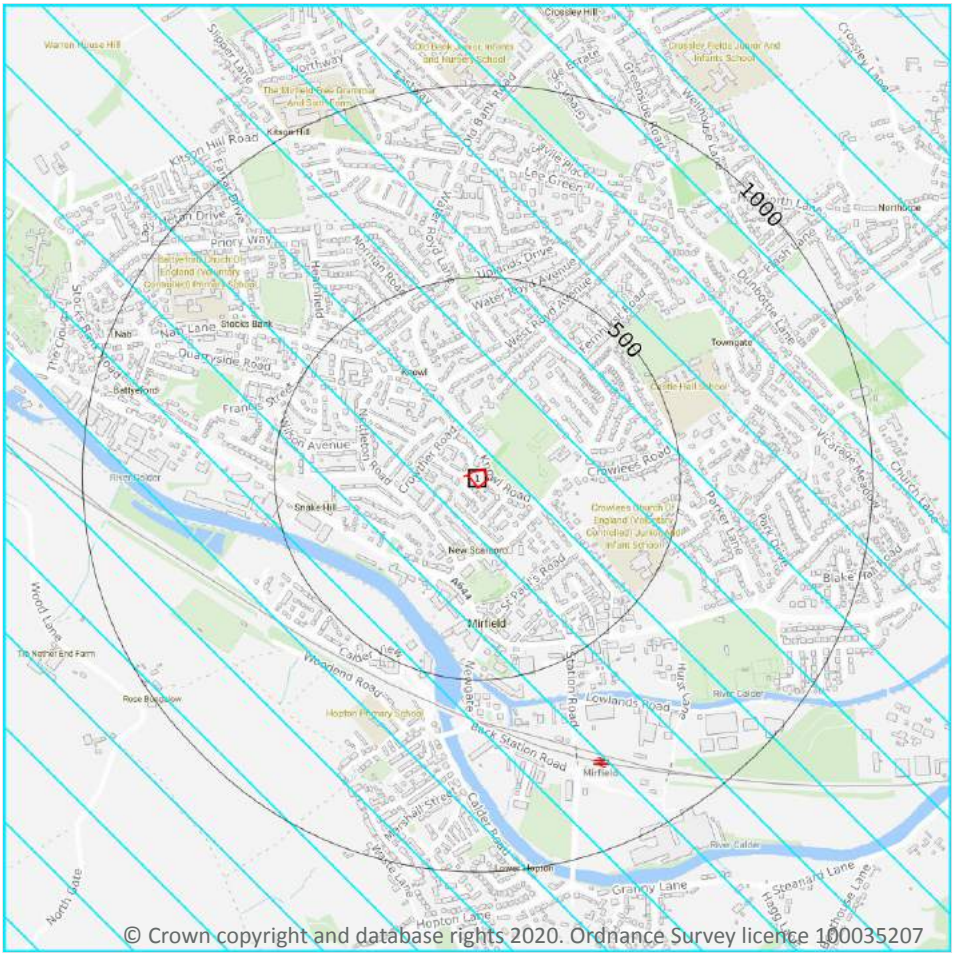
Records within 2000m	1

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

Location	Name	Type	NVZ ID	Status
1216m N	Spen Beck from Source to River Calder NVZ	Surface Water	S271	Existing

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

SSSI Impact Zones and Units



10.17 SSSI Impact Risk Zones

Records on site	1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 66**

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

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	0

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

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

11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m	0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m	0

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

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

11.3 National Parks

Records within 250m	0

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

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

11.4 Listed Buildings

Records within 250m	0

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

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

11.5 Conservation Areas

Records within 250m	0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m	0

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

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

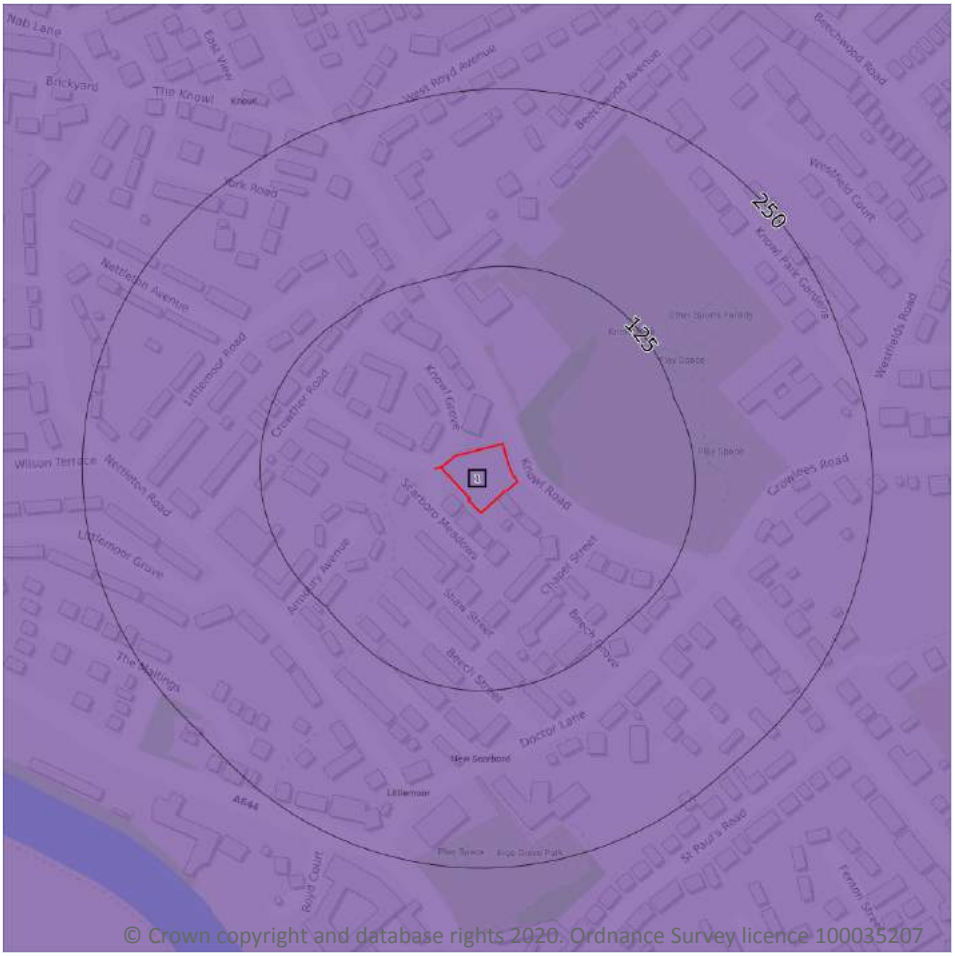
11.7 Registered Parks and Gardens

Records within 250m	0

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

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

12 Agricultural designations



Site Outline

Search buffers in metres (m)

- Grade 1 - excellent quality
- Grade 2 - very good quality
- Grade 3 - good to moderate quality
- Grade 3a - good quality
- Grade 3b - moderate quality
- Grade 4 - poor quality
- Grade 5 - very poor quality
- Non-agricultural land
- Urban land
- Exclusion land
- Tree felling licences
- Open Access land

12.1 Agricultural Land Classification

Records within 250m	1

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

Features are displayed on the Agricultural designations map on **page 70**

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

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m	0

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

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

12.3 Tree Felling Licences

Records within 250m	0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m	0

Environmental Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment.

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m	0

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

This data is sourced from Natural England.

13 Habitat designations

Site Outline

Search buffers in metres (m)

Priority Habitat Inventory
Open Mosaic Habitat
Limestone Pavement Orders

Habitat Networks

Primary Habitat
Restorable Habitat
Associated Habitats
Habitat Restoration-Creation
Network Enhancement Zone 1
Network Enhancement Zone 2

13.1 Priority Habitat Inventory

Records within 250m	**13**

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

Features are displayed on the Habitat designations map on **page 72**

ID	Location	Main Habitat	Other habitats
1	206m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	214m E	No main habitat but additional habitats present	Main habitat: DWOOD (INV > 50%)
3	218m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	231m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

ID	Location	Main Habitat	Other habitats
A	233m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	236m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	237m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	238m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	240m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	242m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	247m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	248m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	248m S	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m	**0**

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m	**0**

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

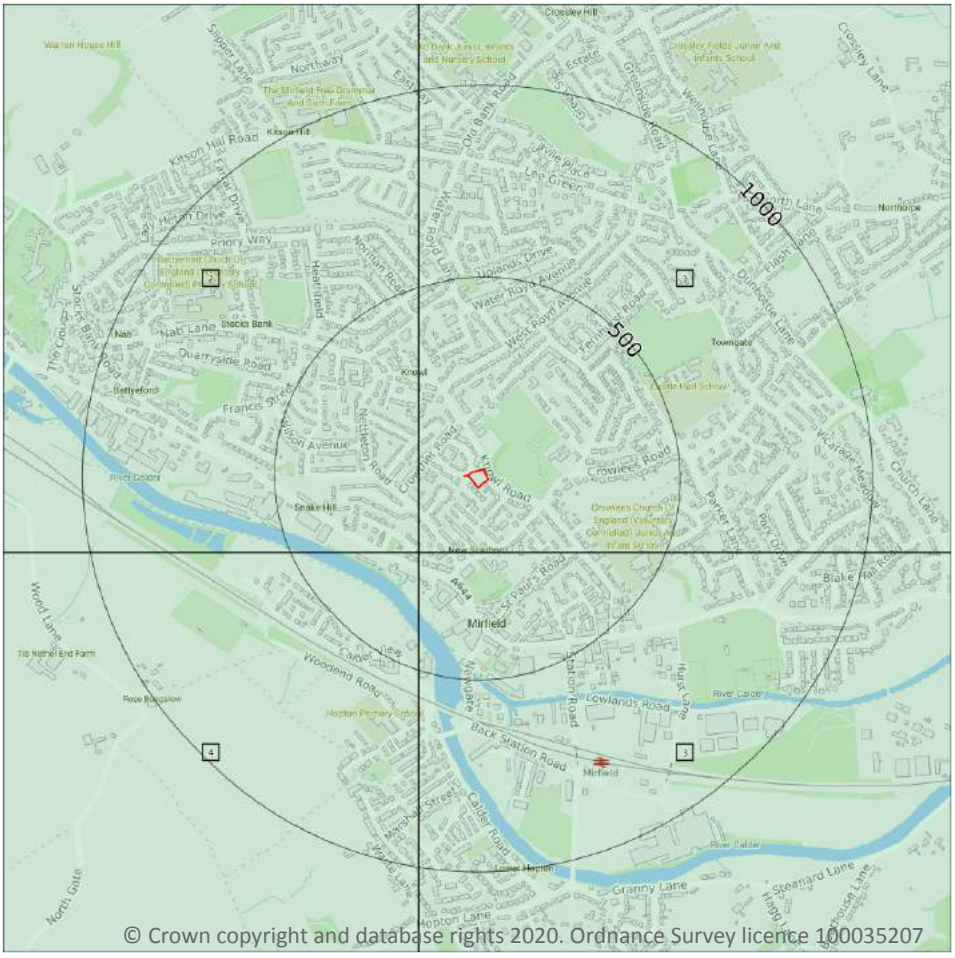
Records within 250m	**0**

Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave

them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



Site Outline

Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m **4**

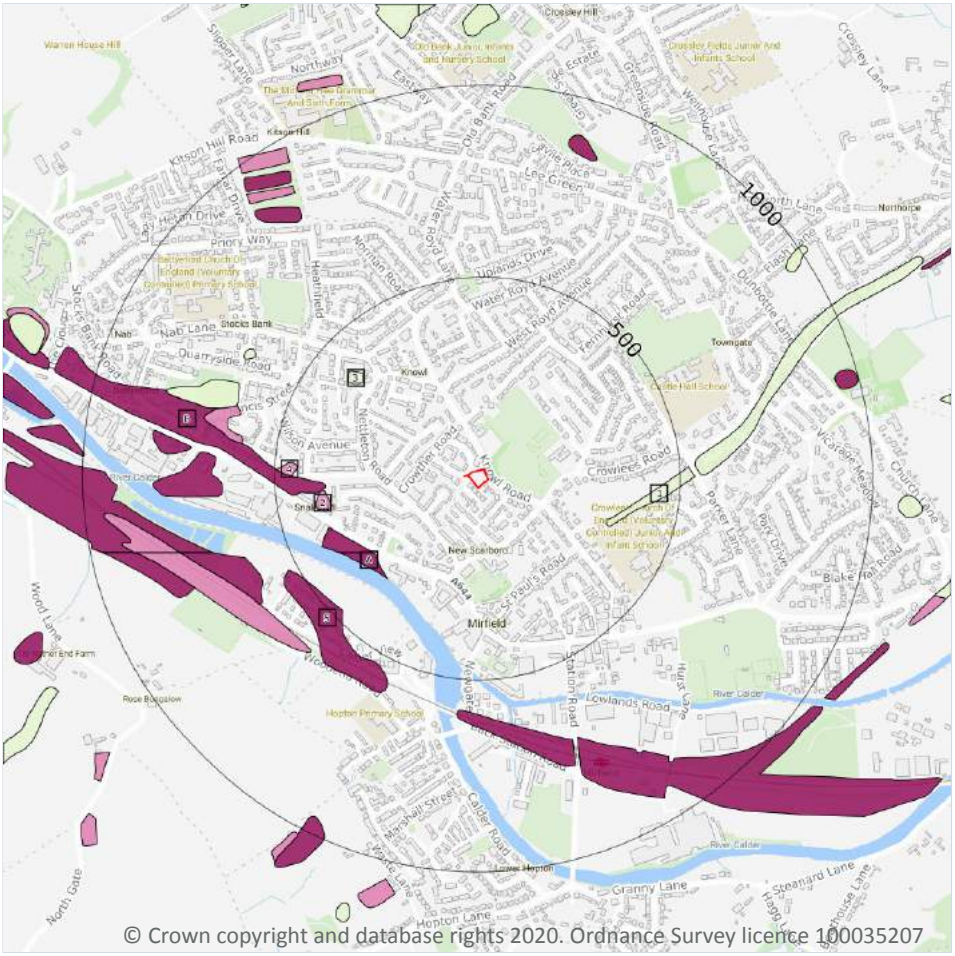
An indication on the coverage of 1:10,000 scale geology data for the site, the most detailed dataset provided by the British Geological Survey. Either 'Full', 'Partial' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 75**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**SE22SW**
2	124m W	Full	Full	Full	Full	SE12SE
3	168m S	Full	Full	Full	Full	SE21NW
4	229m SW	Full	Full	Full	Full	SE11NE

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m **8**

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

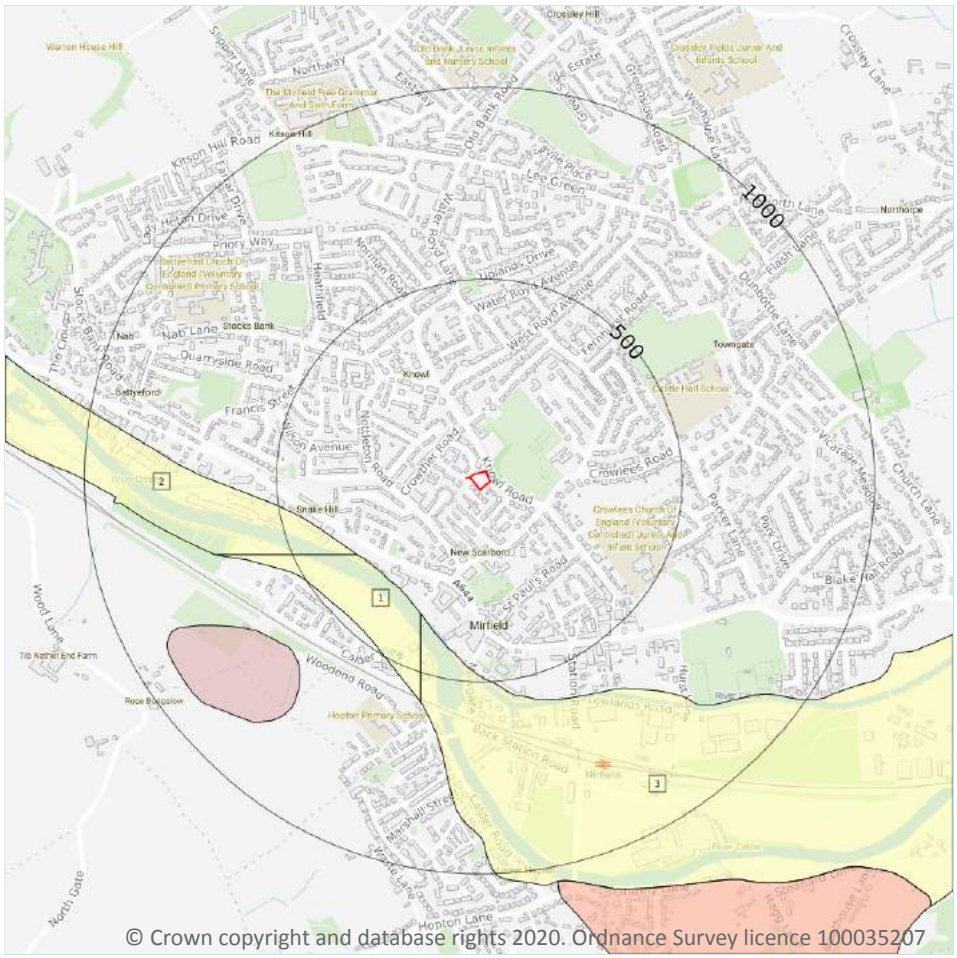
Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 77**

ID	Location	LEX Code	Description	Rock description
A	313m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	316m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
1	327m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
2	360m W	WGR-VOID	Worked Ground (Undivided)	Void

ID	Location	LEX Code	Description	Rock description
3	364m NW	WMGR-ARTDP	Infilled Ground	Artificial Deposit
B	368m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	441m W	WGR-VOID	Worked Ground (Undivided)	Void
5	476m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m	3

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 79**

ID	Location	LEX Code	Description	Rock description
1	332m SW	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel
2	353m SW	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel
3	358m SW	ALV-XCSV	Alluvium - Clay, Sand And Gravel	Clay, Sand And Gravel

This data is sourced from the British Geological Survey.

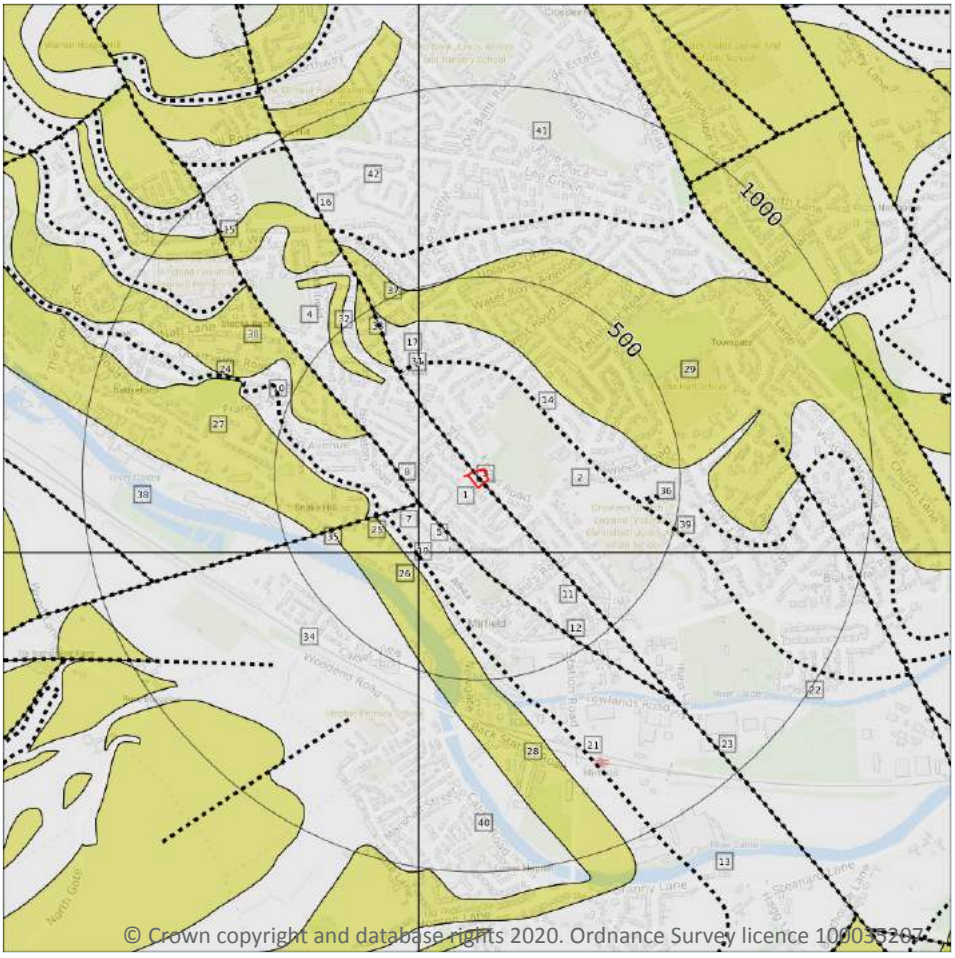
14.4 Landslip (10k)

Records within 500m	0

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

This data is sourced from the British Geological Survey.

Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m **26**

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 81**

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

ID	Location	LEX Code	Description	Rock age
4	124m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
5	139m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
7	143m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	143m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	168m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	171m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
17	226m NW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
19	229m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	242m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
25	252m SW	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
26	257m SW	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
27	265m W	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
28	266m SW	CLRK-SDST	Clifton Rock - Sandstone	Langsettian Sub-age
29	277m NE	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
30	279m NW	STNR-SDST	Stanningley Rock - Sandstone	Langsettian Sub-age
32	325m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
33	336m NW	PLCM-SDST	Pennine Lower Coal Measures Formation - Sandstone	Langsettian Sub-age
34	367m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
35	370m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
37	416m N	FHR-SDST	Falhouse Rock - Sandstone	Langsettian Sub-age
38	425m W	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
40	475m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
41	492m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
42	494m N	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m	**16**

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.

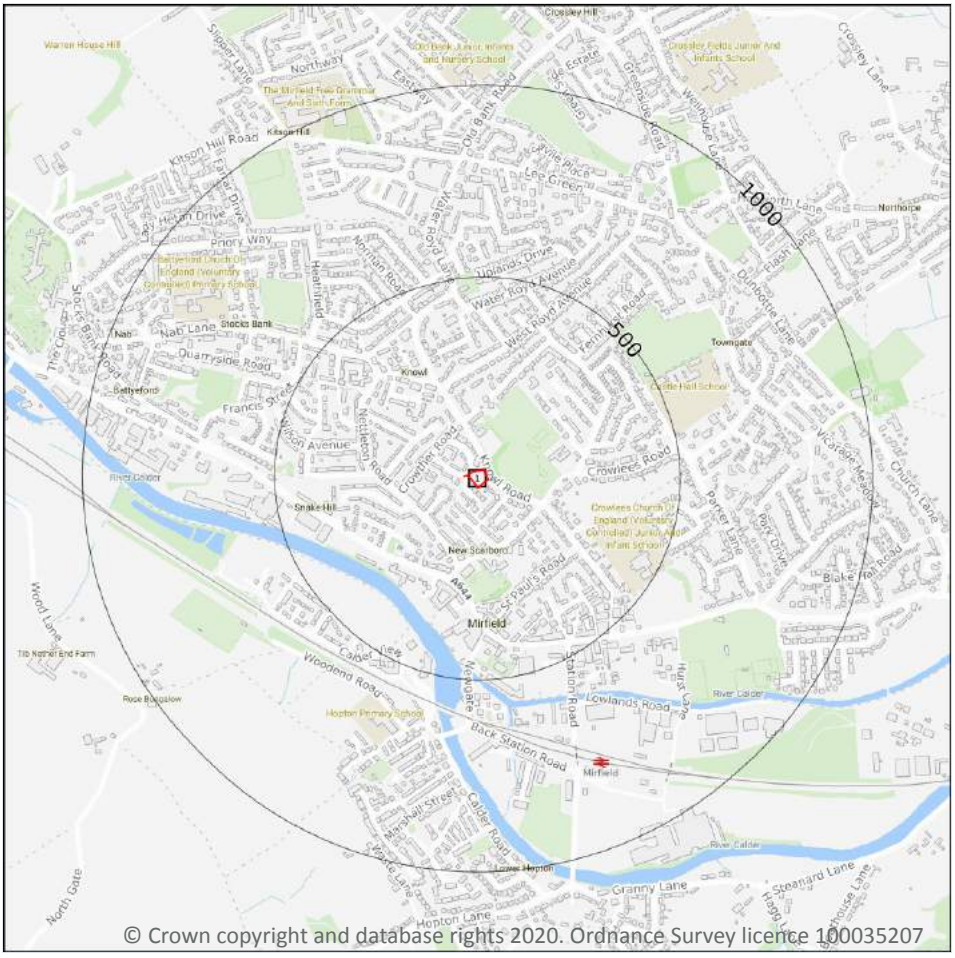
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 81**

ID	Location	Category	Description
3	**On site**	**FAULT**	**Normal fault, inferred; downthrow not specified**
6	139m SW	FAULT	Normal fault, inferred; downthrow not specified
8	143m SW	FAULT	Normal fault, inferred; downthrow not specified
9	143m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
12	171m S	FAULT	Normal fault, inferred; downthrow not specified
14	214m NE	ROCK	Coal seam, inferred
15	223m W	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	226m NW	FAULT	Normal fault, inferred; crossmarks on downthrow side
18	227m SW	ROCK	Coal seam, inferred
20	235m SW	ROCK	Coal seam, inferred
21	236m SW	ROCK	Coal seam, inferred
23	242m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	245m W	ROCK	Coal seam, inferred
31	314m NW	ROCK	Coal seam, inferred
36	390m E	ROCK	Coal seam, observed

ID	Location	Category	Description
39	428m E	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

15 Geology 1:50,000 scale - Availability



Site Outline

Search buffers in metres (m)

Geological map tile

15.1 50k Availability

Records within 500m	1

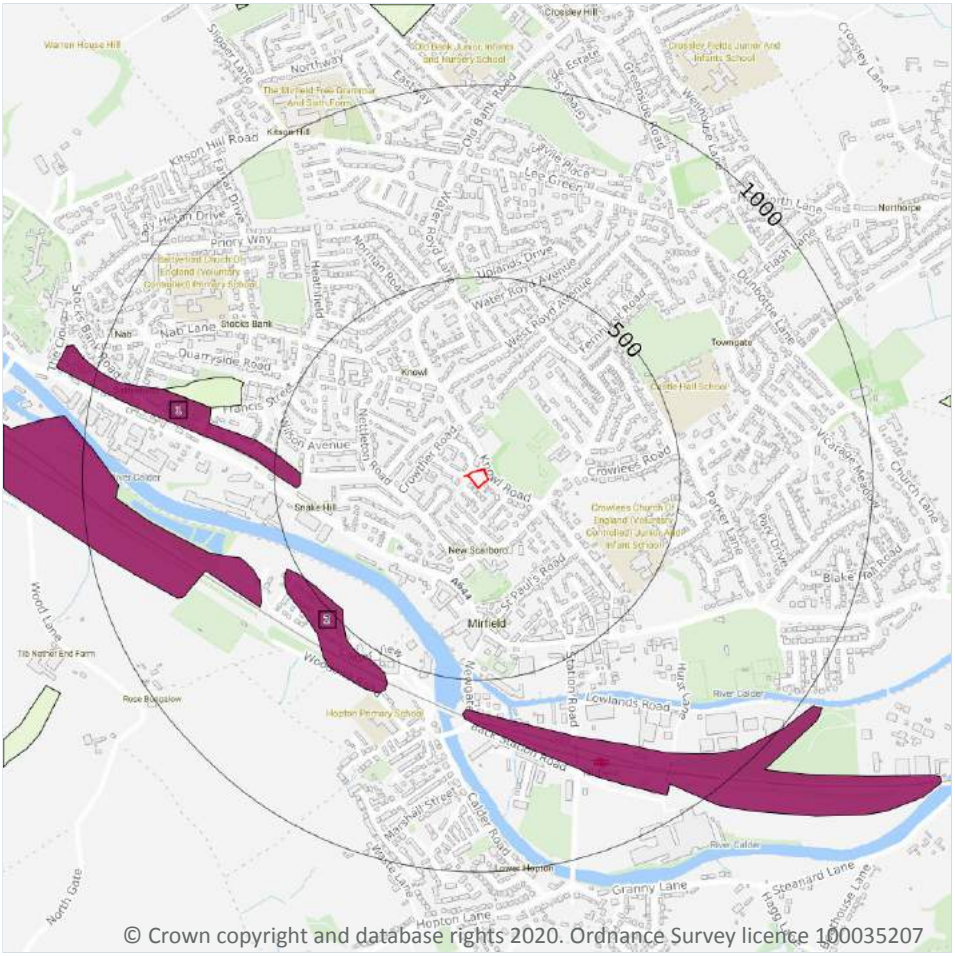
An indication on the coverage of 1:50,000 scale geology data for the site. Either 'Full' or 'No coverage' for each geological theme.

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 85**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	**On site**	**Full**	**Full**	**Full**	**Full**	**EW077_huddersfield_v4**

This data is sourced from the British Geological Survey.

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



Site Outline

Search buffers in metres (m)

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

15.2 Artificial and made ground (50k)

Records within 500m	2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 86**

ID	Location	LEX Code	Description	Rock description
1	431m W	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	475m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

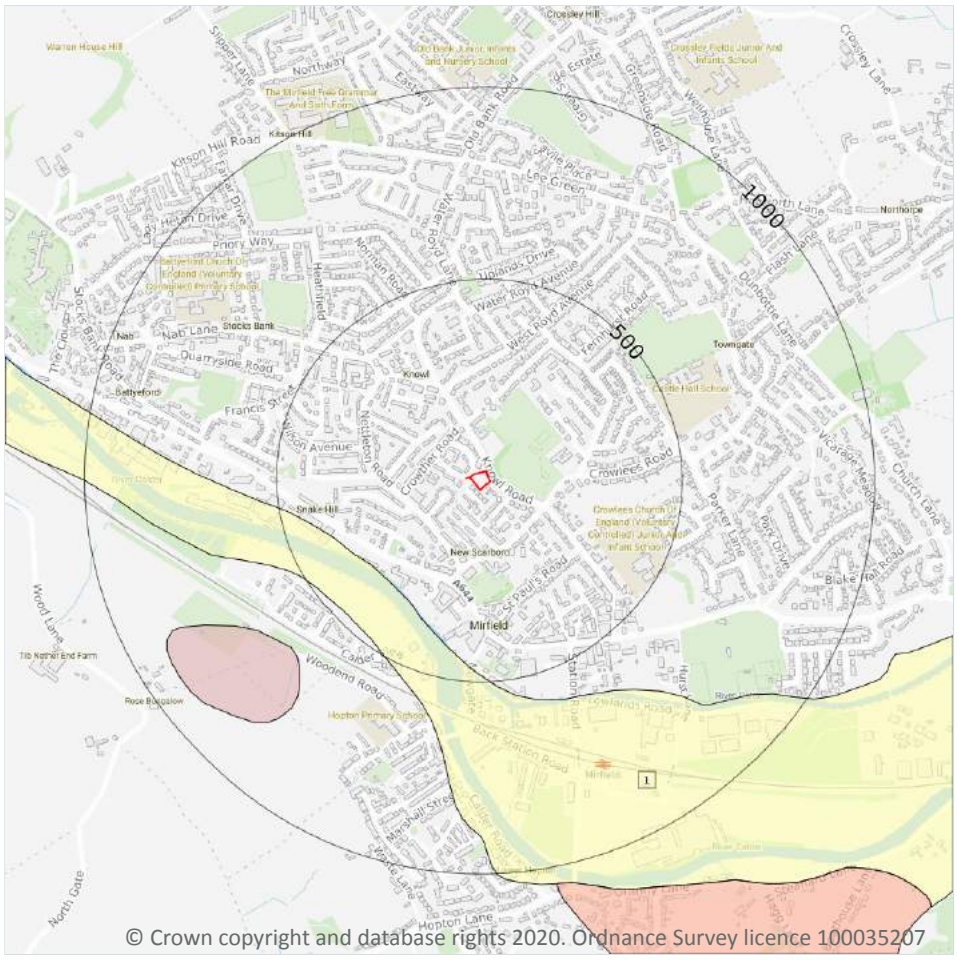
15.3 Artificial ground permeability (50k)

Records within 50m	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	1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 88**

ID	Location	LEX Code	Description	Rock description
1	336m SW	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m	0

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

This data is sourced from the British Geological Survey.

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.

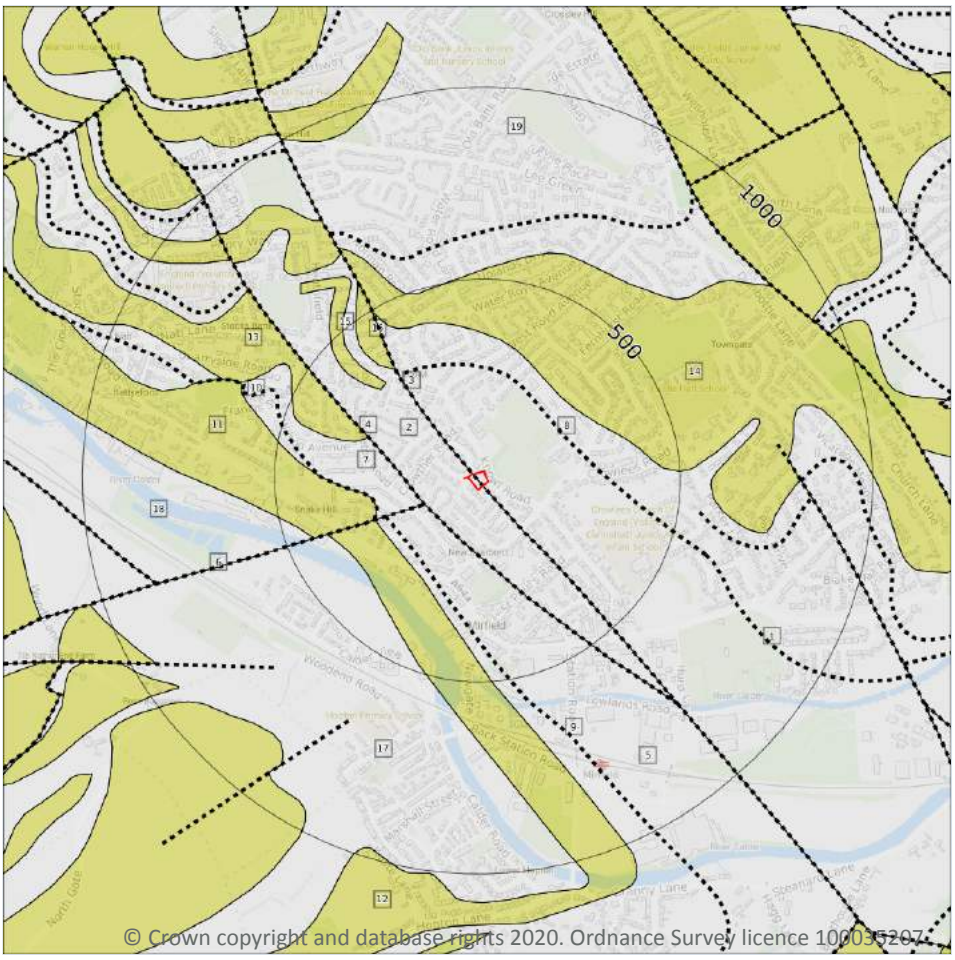
15.7 Landslip permeability (50k)

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	13

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 90**

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

ID	Location	LEX Code	Description	Rock age
5	125m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
7	130m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
11	247m W	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
12	256m SW	CLRK-SDST	CLIFTON ROCK - SANDSTONE	WESTPHALIAN
13	275m W	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
14	277m NE	FHR-SDST	FALHOUSE ROCK - SANDSTONE	WESTPHALIAN
15	320m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
16	337m NW	PLCM-SDST	PENNINE LOWER COAL MEASURES FORMATION - SANDSTONE	WESTPHALIAN
17	357m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
18	428m W	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
19	491m N	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	**1**

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

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

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	**6**

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

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 90**

ID	Location	Category	Description
3	**On site**	**FAULT**	**Fault, inferred**
4	125m SW	FAULT	Fault, inferred
6	130m SW	FAULT	Fault, inferred
8	218m NE	ROCK	Coal seam, inferred
9	227m SW	ROCK	Coal seam, inferred
10	247m W	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.

16 Boreholes

Site Outline

Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m	14

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.

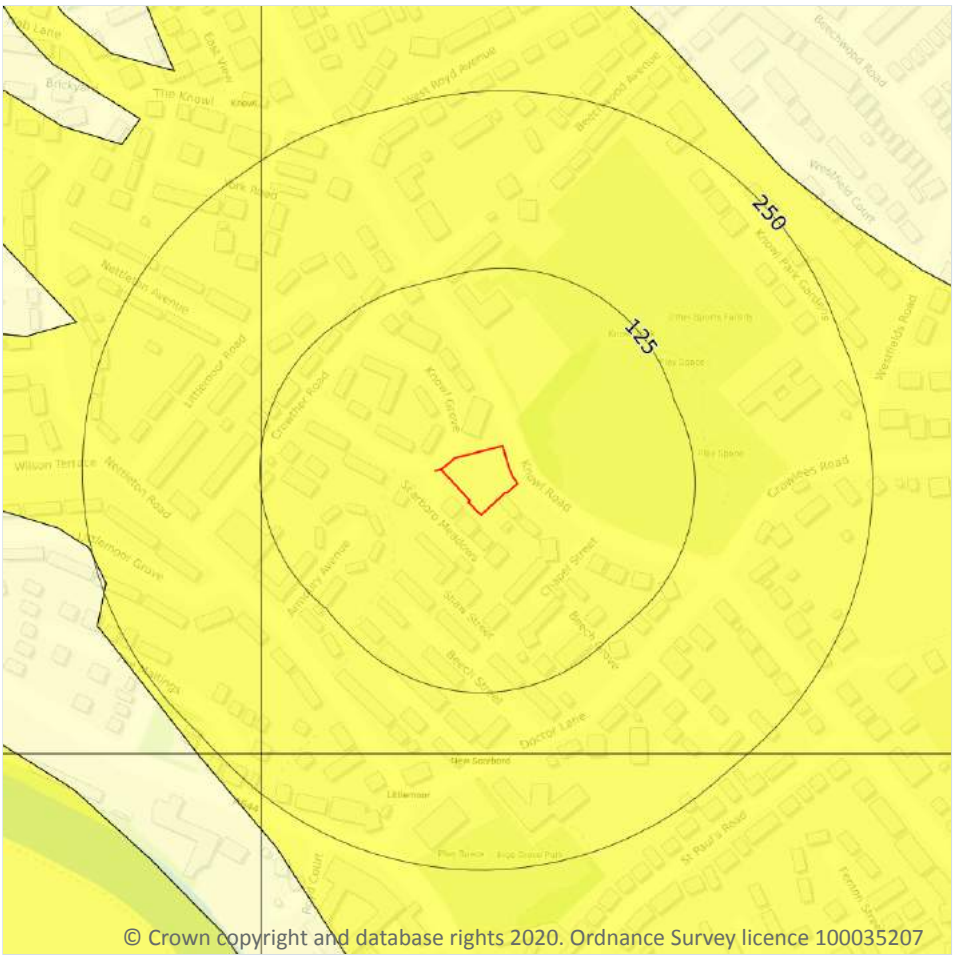
Features are displayed on the Boreholes map on **page 93**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	39m NW	420100 420230	MIRFIELD JUNIOR SCHOOL 4	1.0	N	77698
A	55m N	420120 420260	MIRFIELD JUNIOR SCHOOL 5	2.0	N	77699
2	66m N	420150 420280	MIRFIELD JUNIOR SCHOOL 6	3.0	N	77700

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	74m N	420120 420280	MIRFIELD JUNIOR SCHOOL 3	3.0	N	77697
A	90m NW	420100 420290	MIRFIELD JUNIOR SCHOOL 1	3.0	N	77695
A	93m N	420120 420300	MIRFIELD JUNIOR SCHOOL 2	3.0	N	77696
3	180m E	420360 420200	KIRKLEES SEWERAGE C	6.0	N	77995
B	201m S	420120 419970	MIRFIELD HEALTH CLINIC 3	3.05	N	56720
B	213m S	420110 419960	MIRFIELD HEALTH CLINIC 2	3.05	N	56719
B	220m S	420130 419950	MIRFIELD HEALTH CLINIC 6	3.05	N	56723
B	225m S	420100 419950	MIRFIELD HEALTH CLINIC 1	3.05	N	56718
B	231m S	420120 419940	MIRFIELD HEALTH CLINIC 5	3.05	N	56722
B	233m S	420110 419940	MIRFIELD HEALTH CLINIC 4	3.05	N	56721
4	250m SW	419970 420000	MIRFIELD, LITTLEMOOR HOUSE TP5	2.1	N	15630230

This data is sourced from the British Geological Survey.

17 Natural ground subsidence - Shrink swell clays



Site Outline

Search buffers in metres (m)

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

17.1 Shrink swell clays

Records within 50m	1

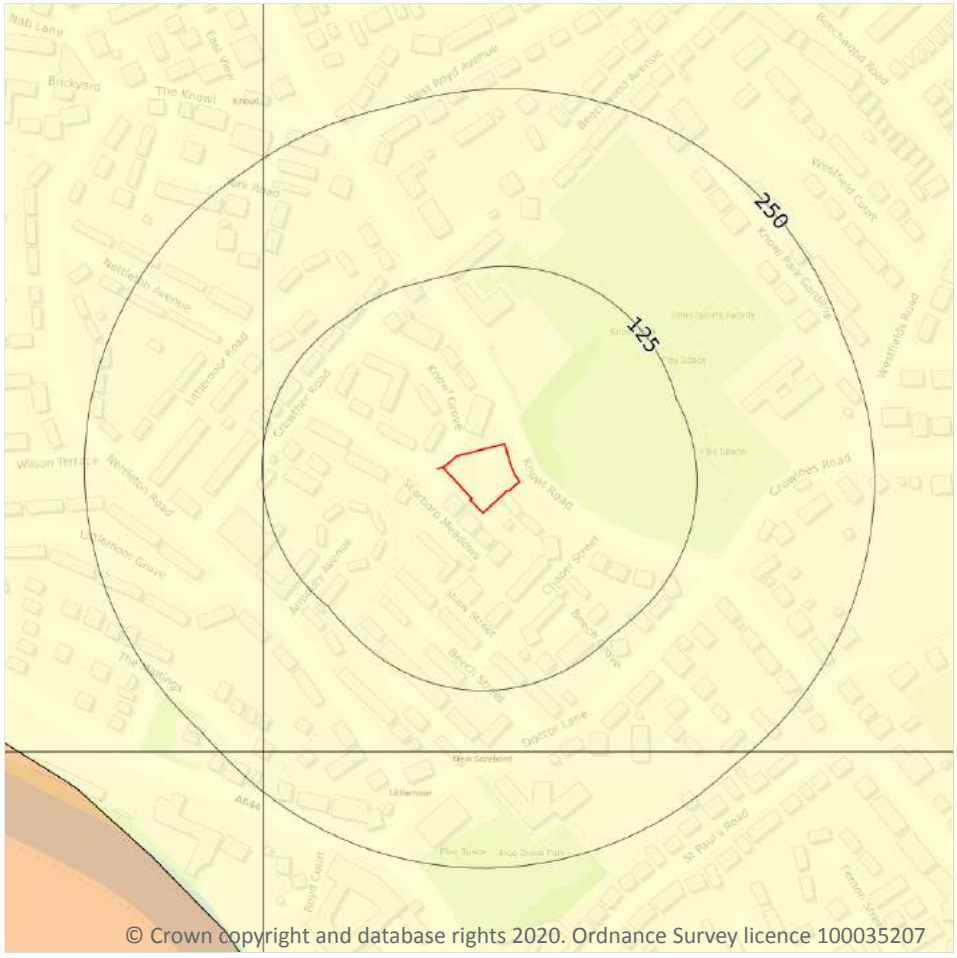
The potential hazard presented by soils that absorb water when wet (making them swell), and lose water as they dry (making them shrink). This shrink-swell behaviour is controlled by the type and amount of clay in the soil, and by seasonal changes in the soil moisture content (related to rainfall and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

Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 95**

Location	Hazard rating	Details
On site	**Very low**	**Ground conditions predominantly low plasticity.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Running sands



Site Outline

Search buffers in metres (m)

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

17.2 Running sands

Records within 50m	1

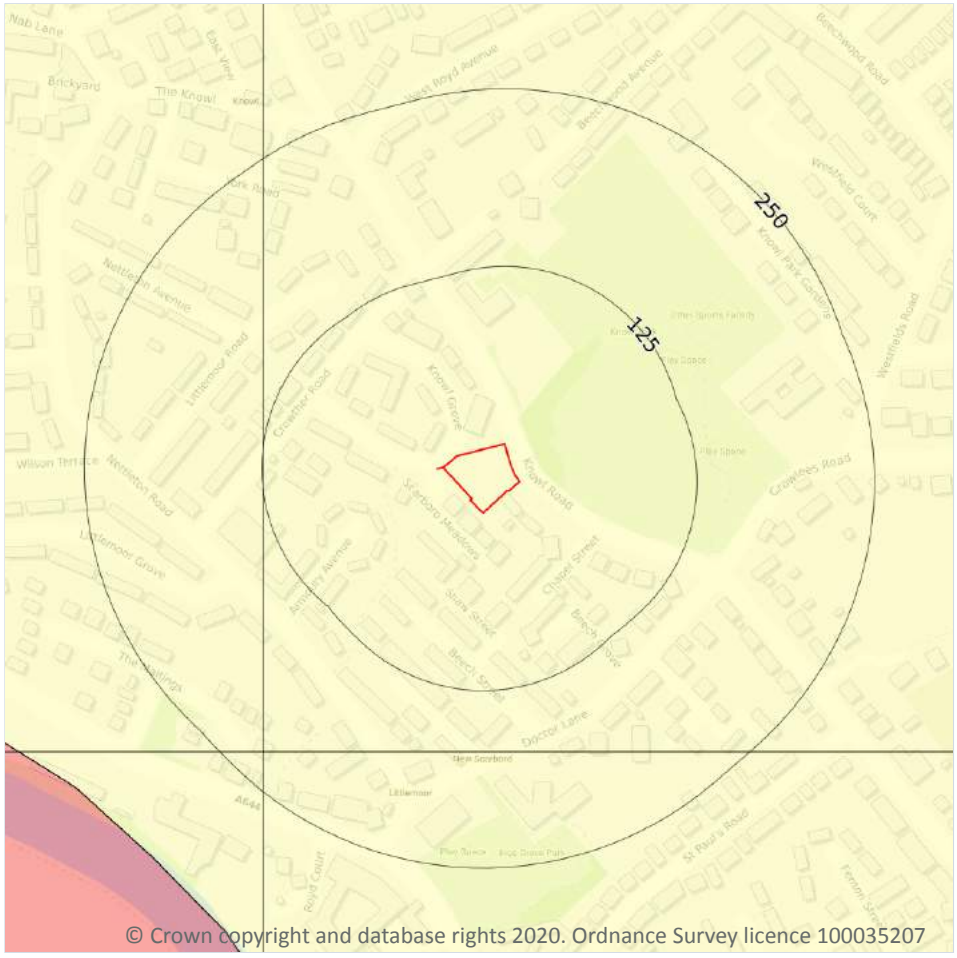
The potential hazard presented by rocks that can contain loosely-packed sandy layers that can become fluidised by water flowing through them. Such sands can 'run', removing support from overlying buildings and causing potential damage.

Features are displayed on the Natural ground subsidence - Running sands map on **page 96**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Compressible deposits



Site Outline

Search buffers in metres (m)

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

17.3 Compressible deposits

Records within 50m	1

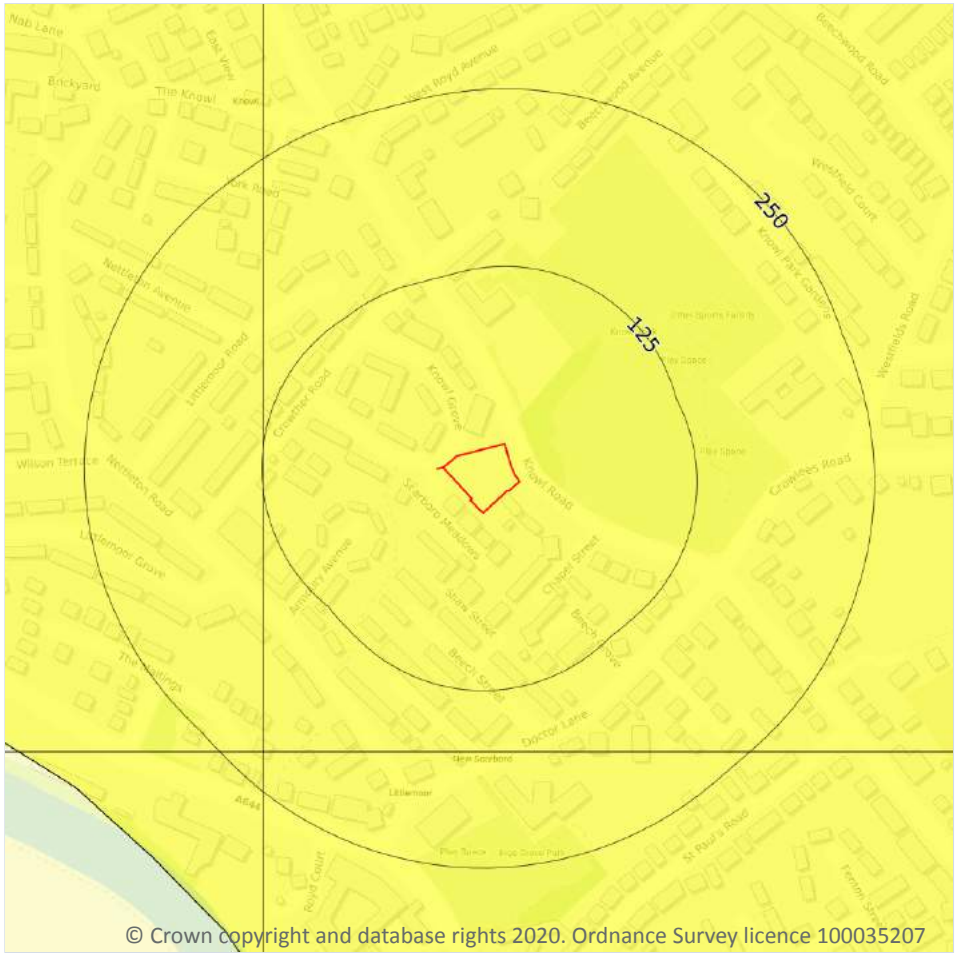
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 97**

Location	Hazard rating	Details
On site	**Negligible**	**Compressible strata are not thought to occur.**

This data is sourced from the British Geological Survey.

Natural ground subsidence - Collapsible deposits



Site Outline

Search buffers in metres (m)

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

17.4 Collapsible deposits

Records within 50m	1

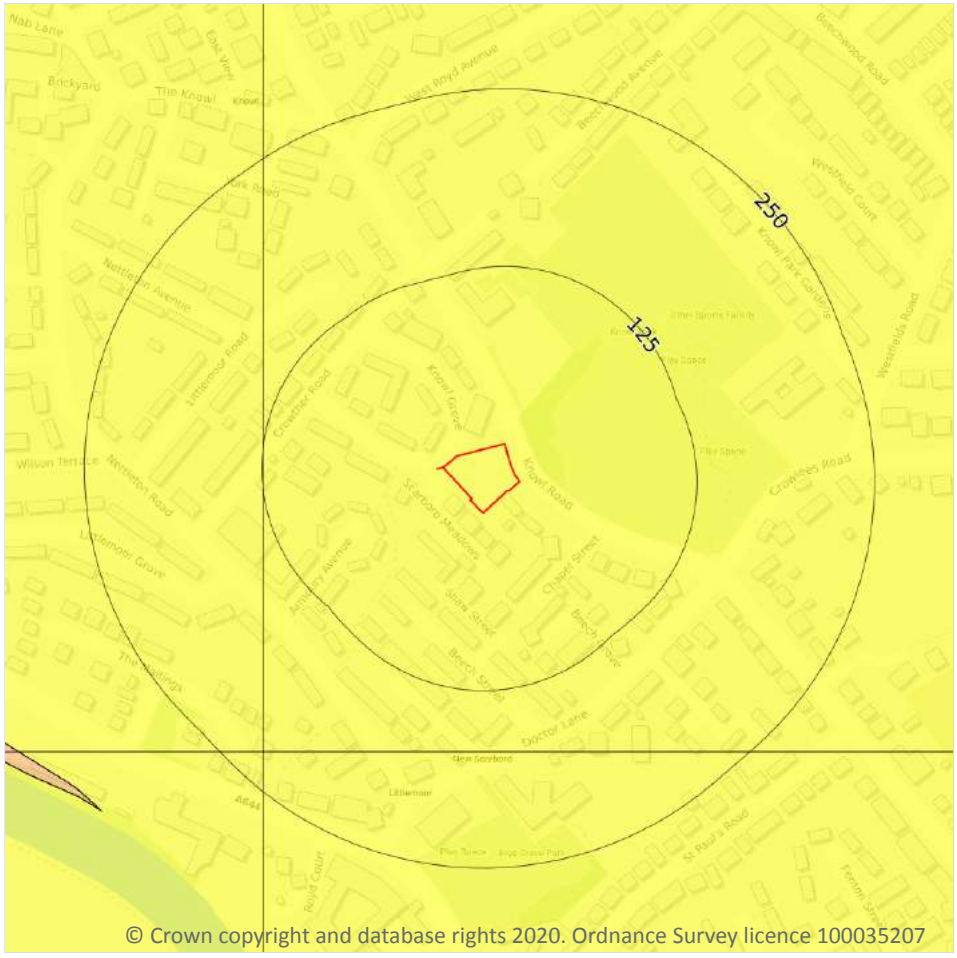
The potential hazard presented by natural deposits that could collapse when a load (such as a building) is placed on them or they become saturated with water.

Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 98**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Landslides



Site Outline

Search buffers in metres (m)

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

17.5 Landslides

Records within 50m	1

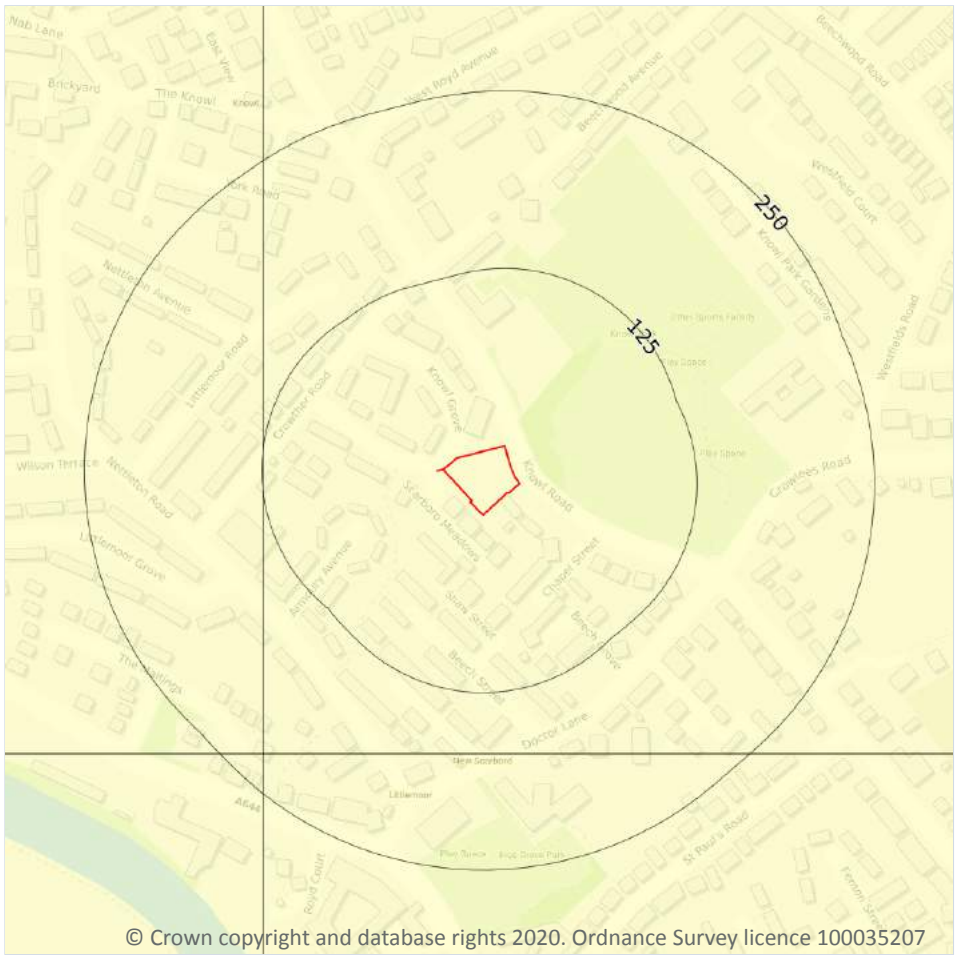
The potential for landsliding (slope instability) to be a hazard assessed using 1:50,000 scale digital maps of superficial and bedrock deposits, combined with information from the BGS National Landslide Database and scientific and engineering reports.

Features are displayed on the Natural ground subsidence - Landslides map on **page 99**

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

This data is sourced from the British Geological Survey.

Natural ground subsidence - Ground dissolution of soluble rocks



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

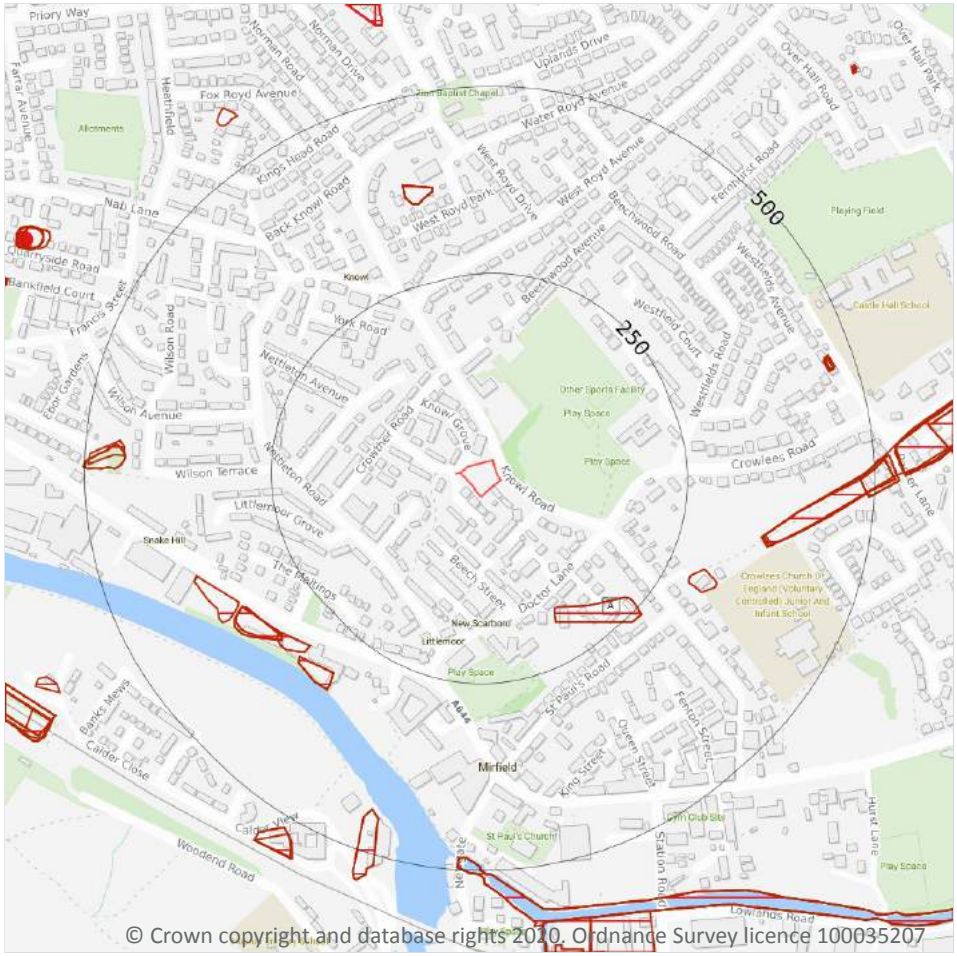
The potential hazard presented by ground dissolution, which occurs when water passing through soluble rocks produces underground cavities and cave systems. These cavities reduce support to the ground above and can cause localised collapse of the overlying rocks and deposits.

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 100**

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

This data is sourced from the British Geological Survey.

18 Mining, ground workings and natural cavities



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Site Outline

Search buffers in metres (m)

- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities

Non Coal Mining

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

18.1 Natural cavities

Records within 500m	0

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

This data is sourced from Peter Brett Associates (PBA).

18.2 BritPits

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m	2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 102**

ID	Location	Land Use	Year of mapping	Mapping scale
A	179m SE	Unspecified Heap	1988	1:10000
A	179m SE	Unspecified Heap	1981	1:10000

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m	4

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 102**

ID	Location	Land Use	Year of mapping	Mapping scale
O	600m N	Colliery	1948	1:10560
O	600m N	Colliery	1905	1:10560
O	600m N	Colliery	1892	1:10560
O	600m N	Colliery	1931	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m	0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m	0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m	0

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 Peter Brett Associates (PBA).

18.8 JPB mining areas

Records on site	0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site	0

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

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

18.11 Gypsum areas

Records on site	0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site	0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

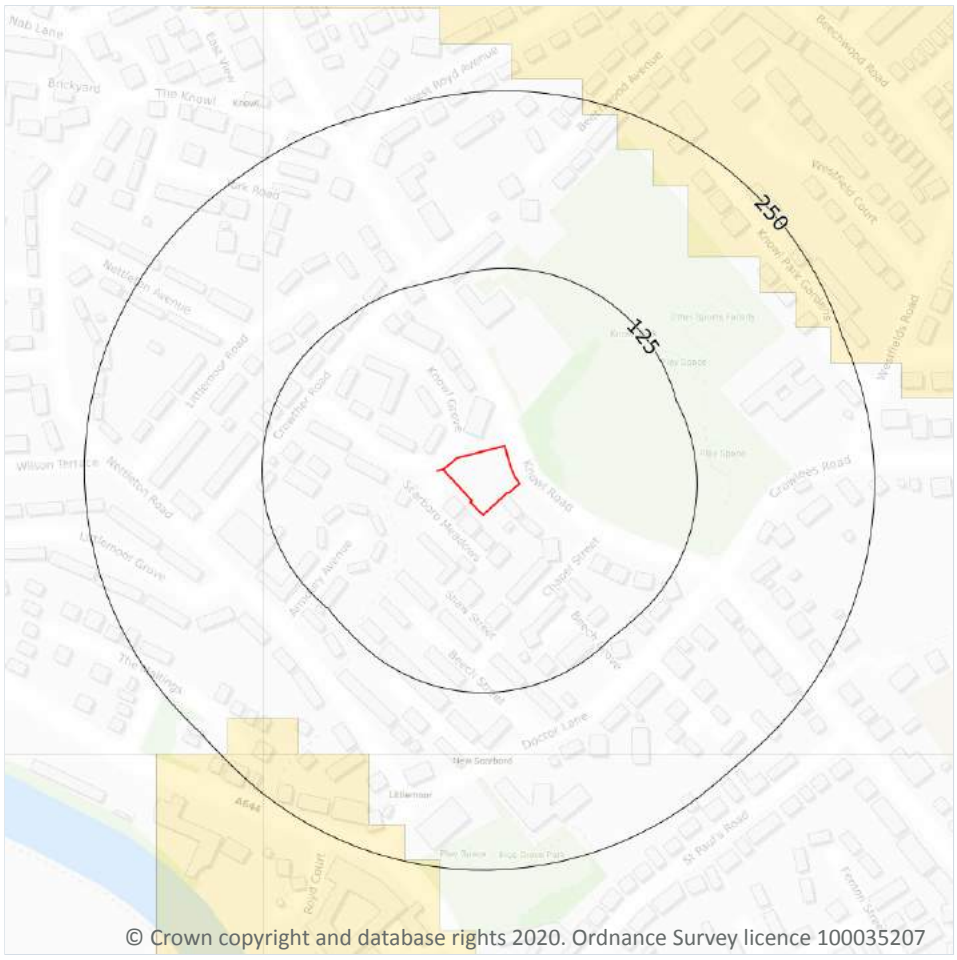
18.13 Clay mining

Records on site	0

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

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

19 Radon



19.1 Radon

Records on site	1

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

Features are displayed on the Radon map on **page 106**

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

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

20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m	2

The estimated values provide the likely background concentration of the potentially harmful elements Arsenic, Cadmium, Chromium, Lead and Nickel in topsoil. The values are estimated primarily from rural topsoil data collected at a sample density of approximately 1 per 2 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	**35 - 45 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**
On site	**35 - 45 mg/kg**	**No data**	**100 - 200 mg/kg**	**60 - 120 mg/kg**	**1.8 mg/kg**	**90 - 120 mg/kg**	**15 - 30 mg/kg**

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m	0

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

This data is sourced from the British Geological Survey.

21 Railway infrastructure and projects

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

21.1 Underground railways (London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m	0

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

This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m	0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m	15

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

Features are displayed on the Railway infrastructure and projects map on **page 108**

Location	Land Use	Year of mapping	Mapping scale
161m SW	Railway Sidings	1951	10560
161m SW	Railway Sidings	1966	10560
162m SW	Railway Sidings	1963	1250
162m SW	Railway Sidings	1957	1250
162m SW	Railway Sidings	1957	2500
163m SW	Railway Sidings	1938	10560
165m SW	Railway Sidings	1948	10560
165m SW	Railway Sidings	1905	10560
165m SW	Railway Sidings	1931	10560
167m SW	Railway Sidings	1907	2500
167m SW	Railway Sidings	1922	2500
167m SW	Railway Sidings	1933	2500
169m SW	Railway Sidings	1957	2500
170m SW	Railway Sidings	1957	2500
201m W	Railway Sidings	1957	1250

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m	0

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m	1

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

Features are displayed on the Railway infrastructure and projects map on **page 108**

Location	Description
147m S	Dismantled

This data is sourced from OpenStreetMap.

21.7 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.

21.8 Crossrail 1

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m	0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m	0

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

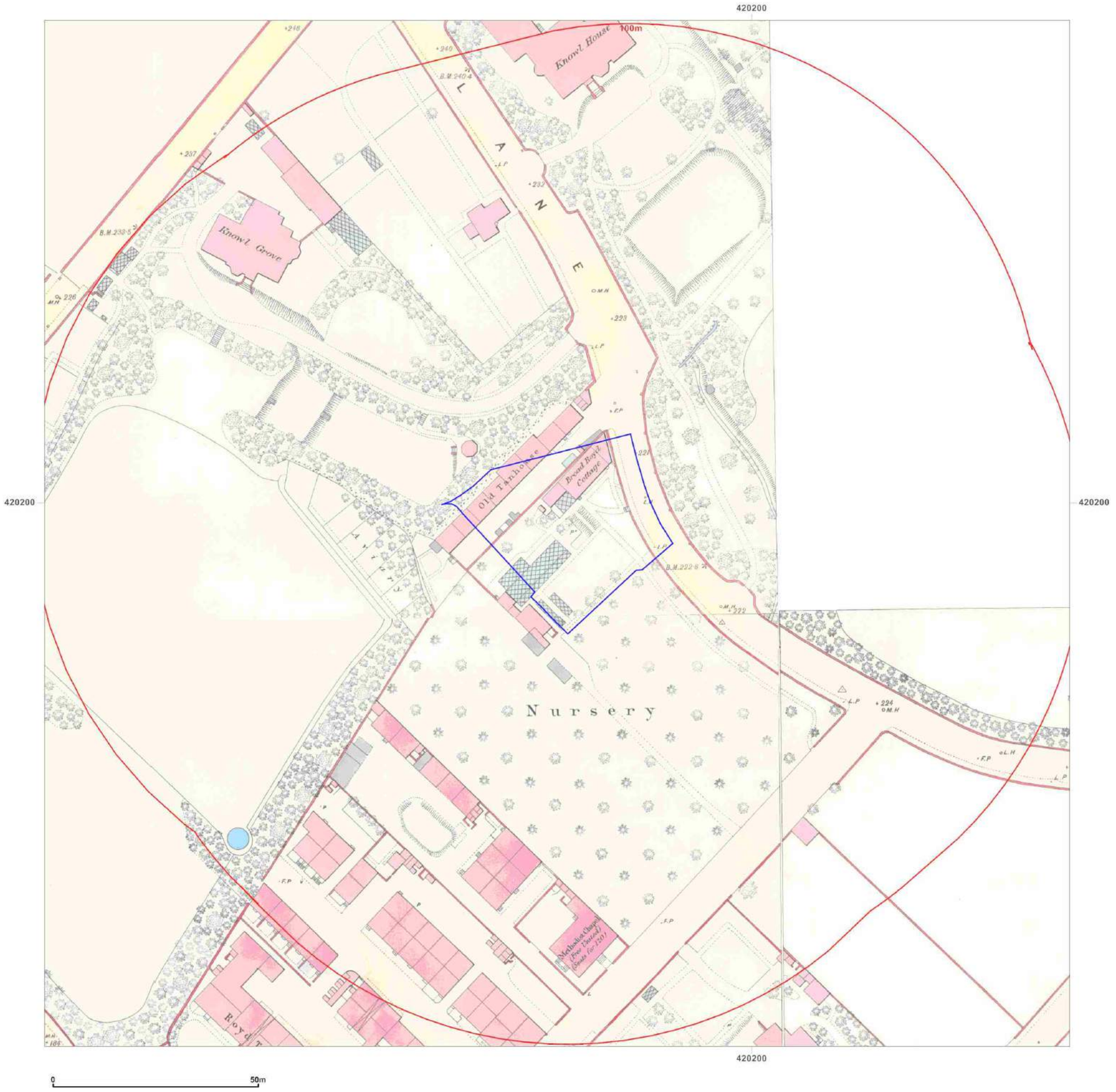
This data is sourced from HS2 ltd.

Data providers

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

Terms and conditions

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



Groundsure INSIGHTS

Site Details:

KNOWL GROVE, MIRFIELD,
WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: County Series Town Plan
Map date: **1890**
Scale: 1:500
Printed at: 1:1,000

N
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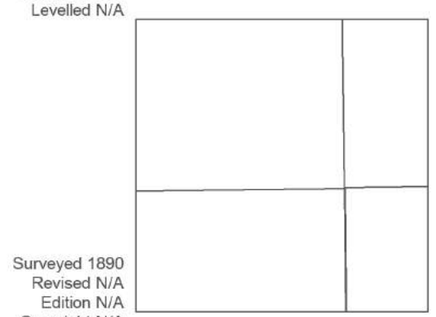
Surveyed 1890
Revised N/A
Edition N/A
Copyright N/A
Levelled N/A



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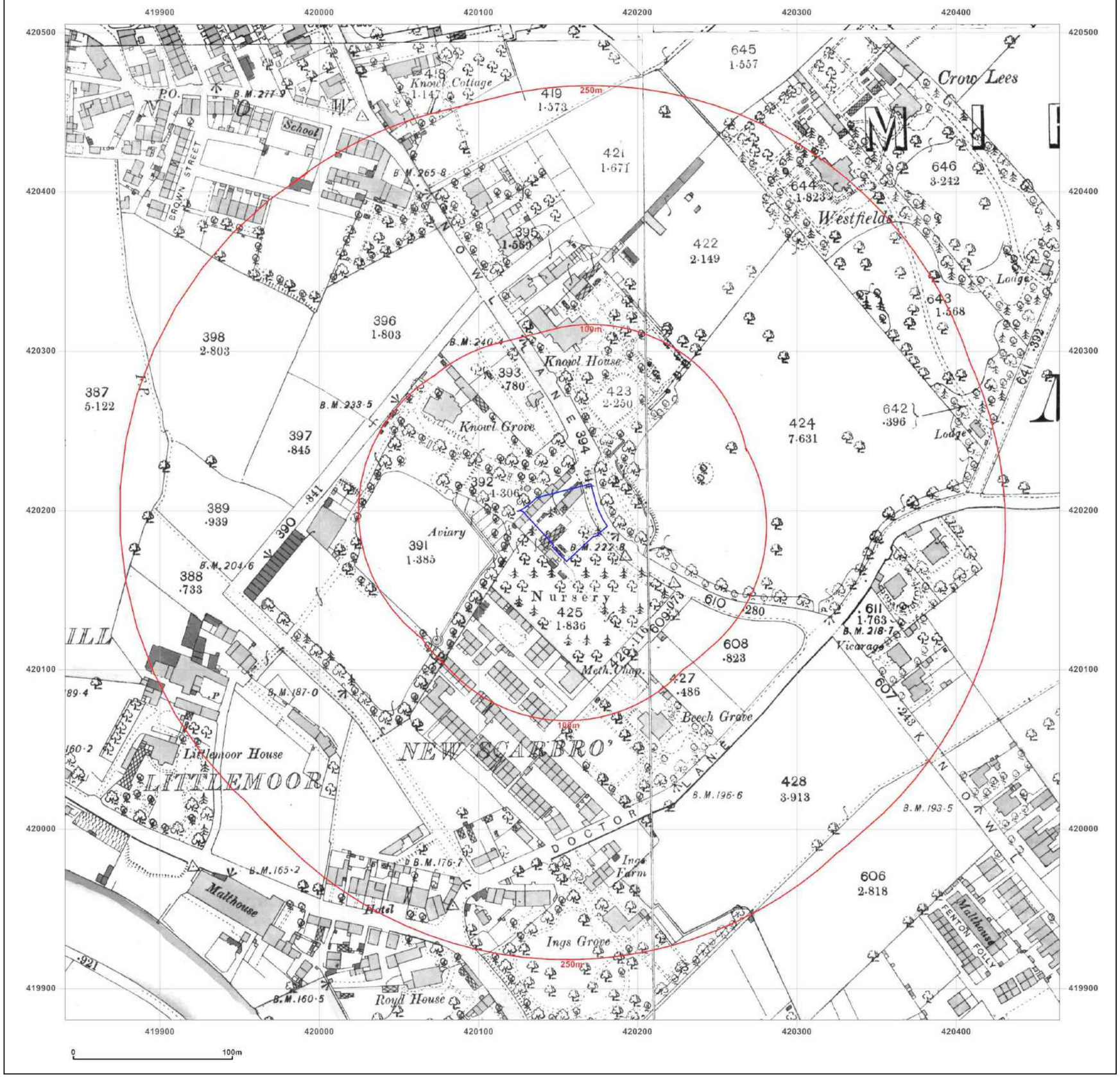

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Site Details:

KNOWL GROVE, MIRFIELD, WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: County Series
Map date: **1892-1893**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1893
Revised 1893
Edition N/A
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Surveyed 1892
Revised 1892
Edition N/A
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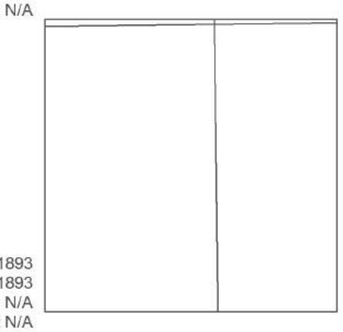

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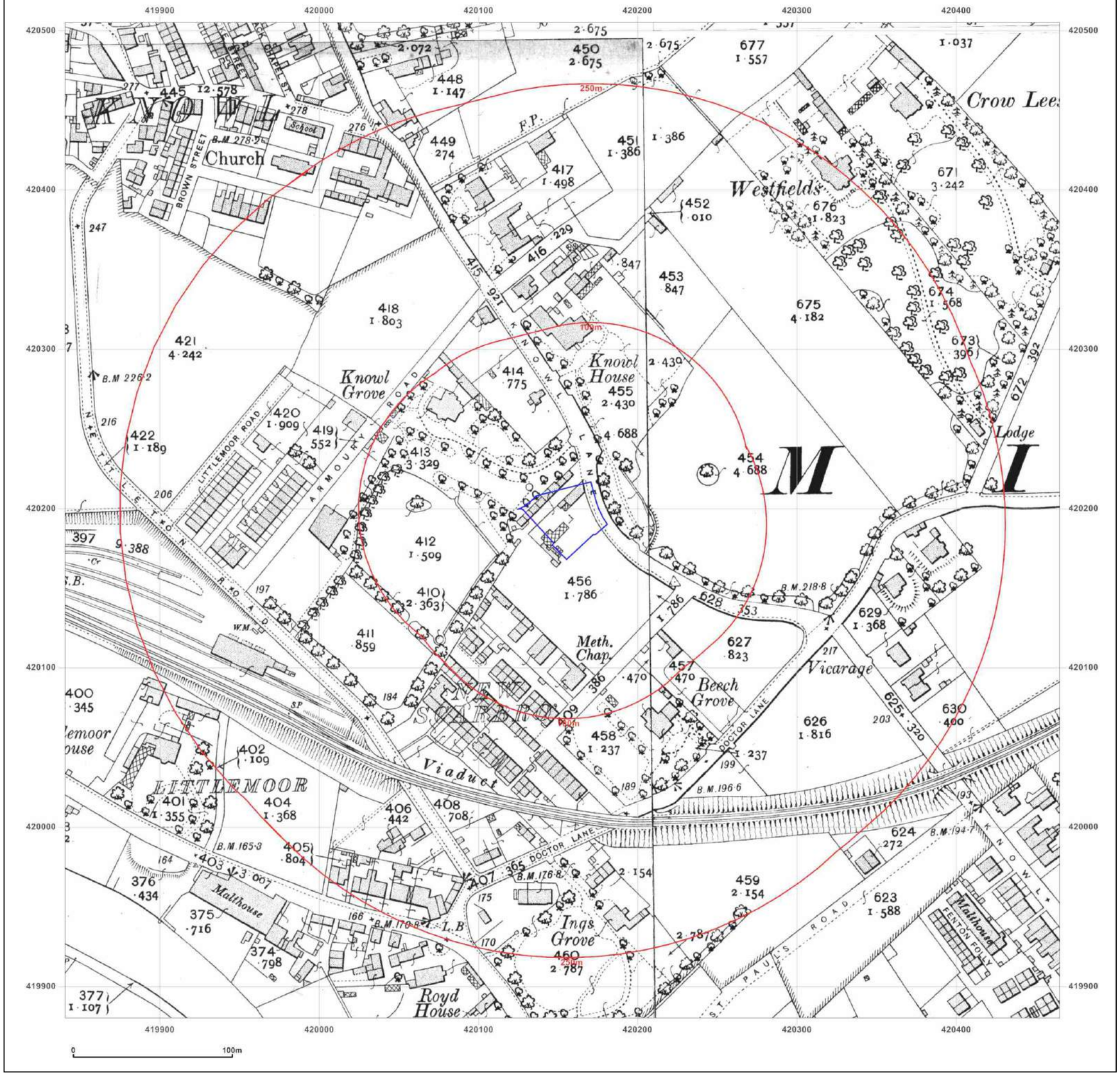

Groundsure INSIGHTS

Site Details:

KNOWL GROVE, MIRFIELD, WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: County Series
Map date: **1907**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1907
Revised 1907
Edition N/A
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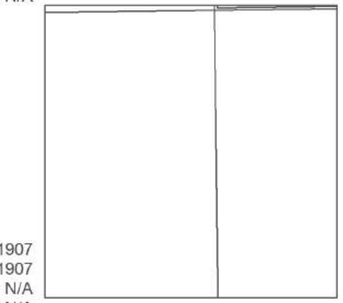

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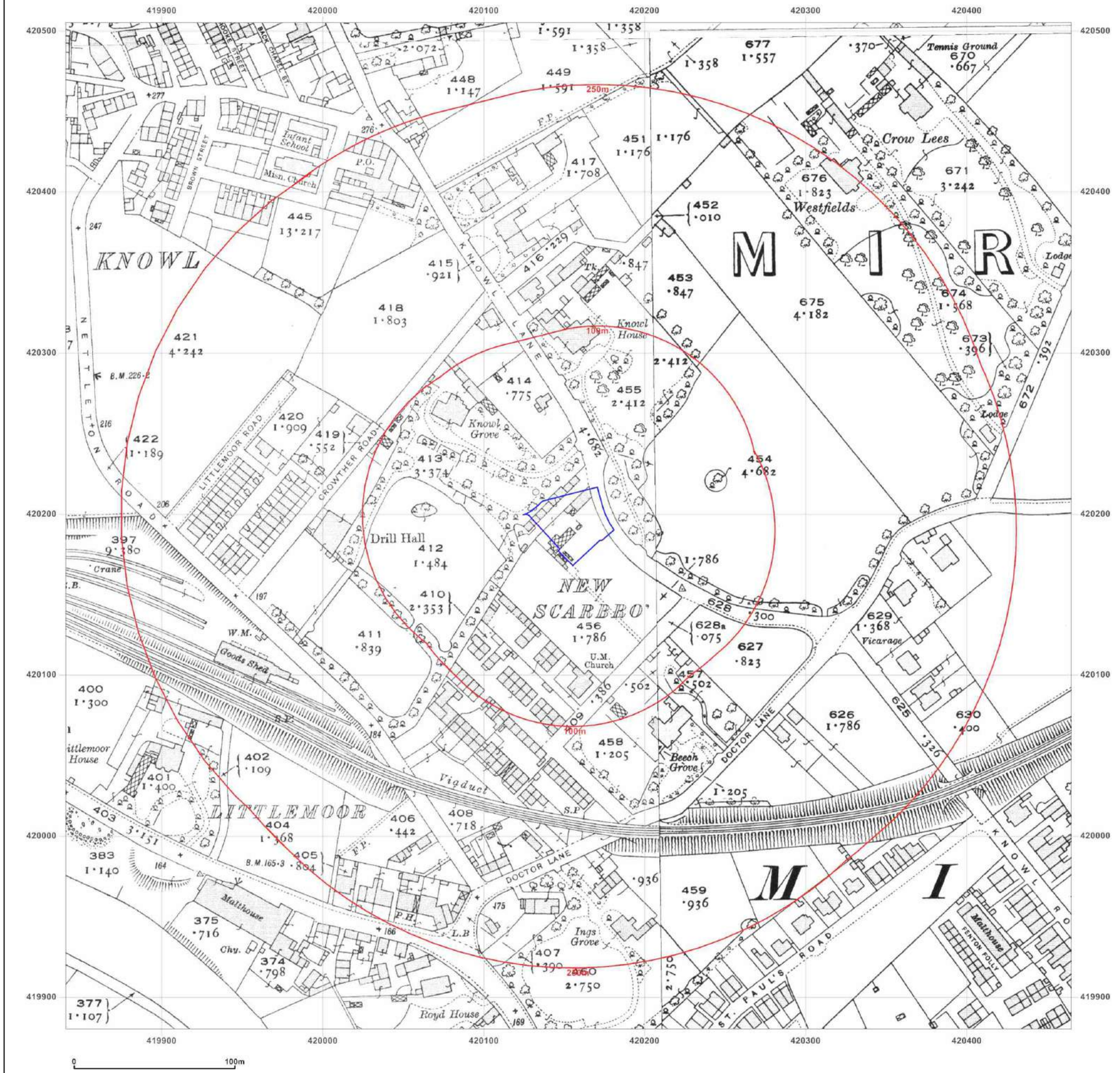

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Site Details:

KNOWL GROVE, MIRFIELD, WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: County Series
Map date: **1922**
Scale: 1:2,500
Printed at: 1:2,500

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Surveyed 1922
Revised 1922
Edition N/A
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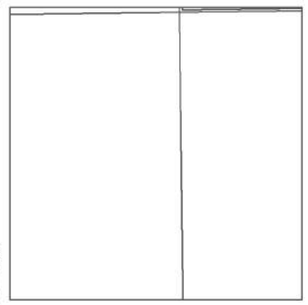

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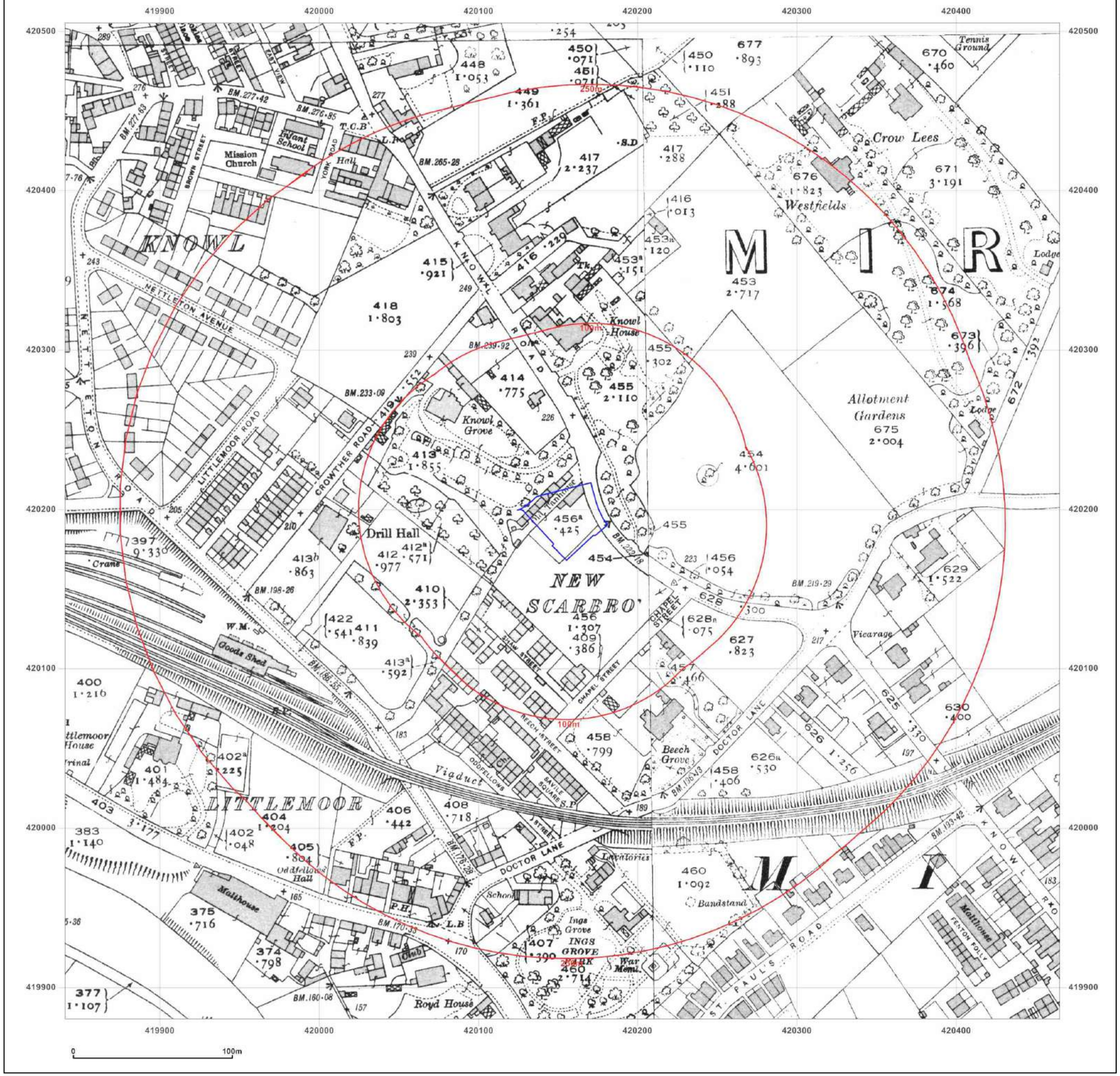

Site Details:

KNOWL GROVE, MIRFIELD,
WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: County Series

Map date: **1933**

Scale: 1:2,500

Printed at: 1:2,500

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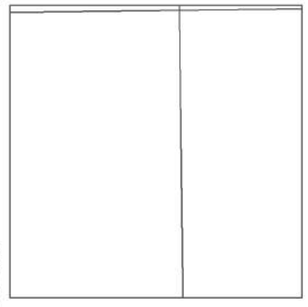

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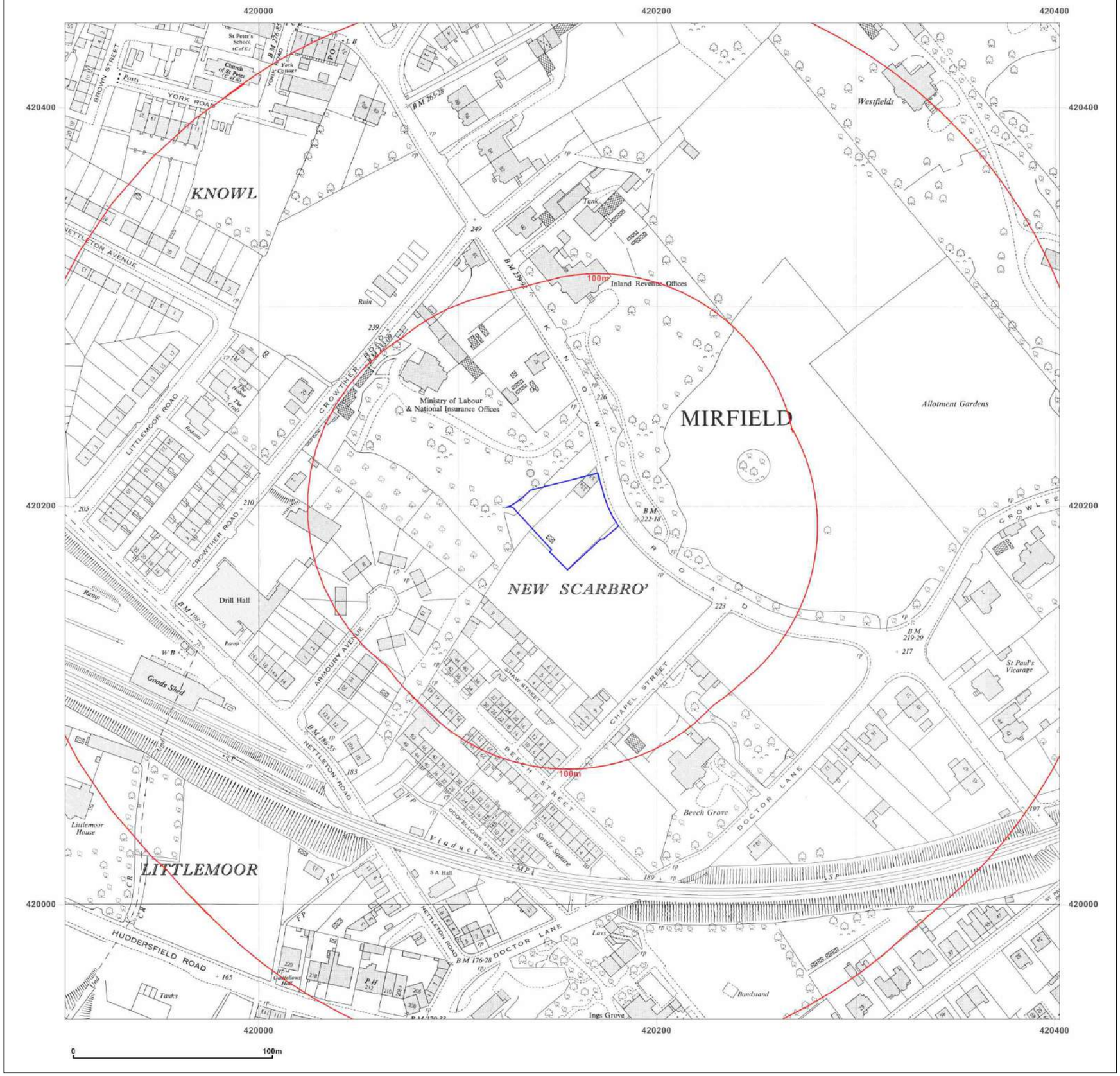

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Site Details:

KNOWL GROVE, MIRFIELD,
WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: National Grid

Map date: **1957**

Scale: 1:1,250

Printed at: 1:2,000

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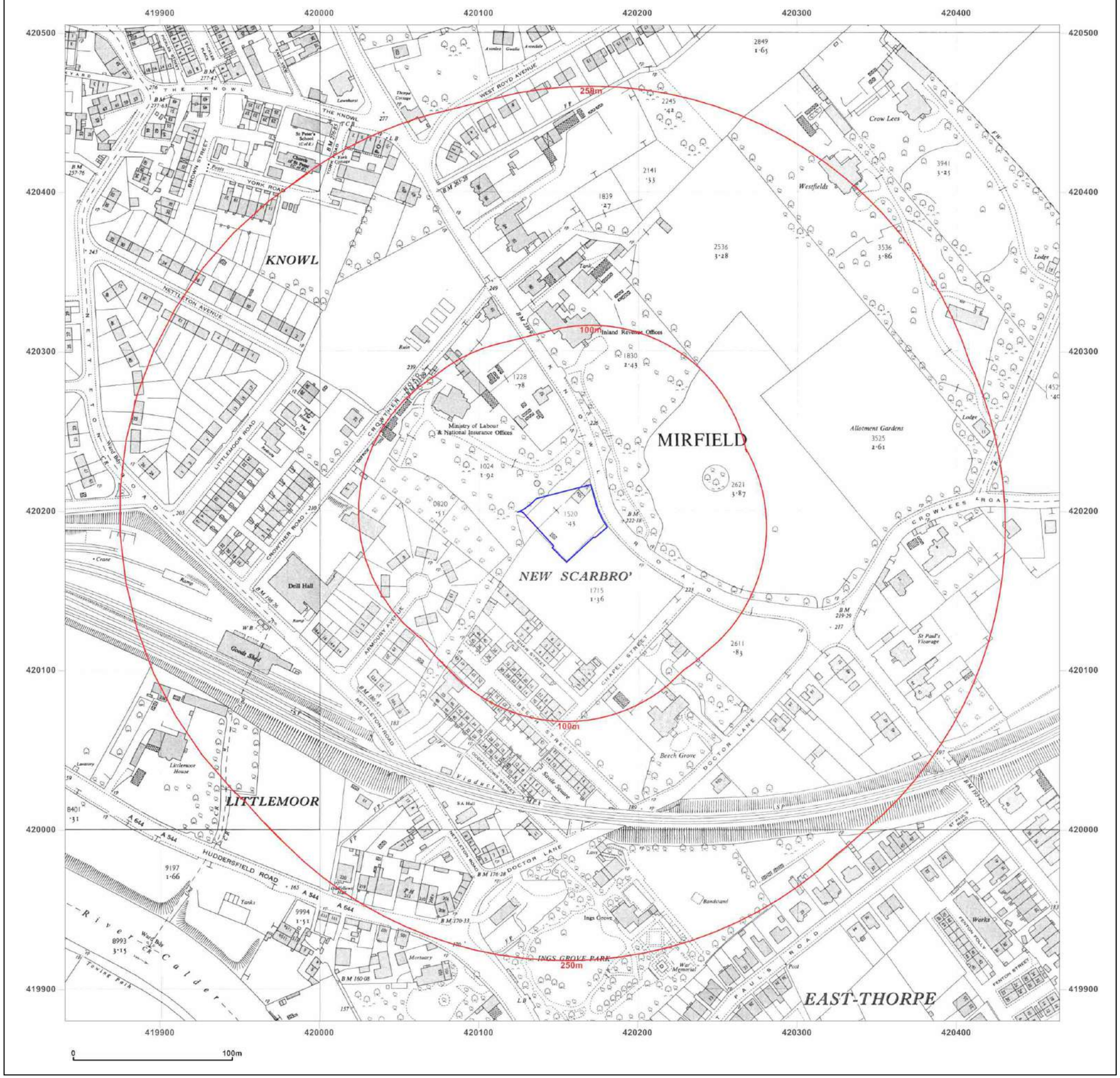

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Site Details:

KNOWL GROVE, MIRFIELD,
WF14 9RF

Client Ref: A3800
Report Ref: GS-7296204
Grid Ref: 420153, 420192

Map Name: National Grid

Map date: **1957-1958**

Scale: 1:2,500

Printed at: 1:2,500

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