

Recent site history - 2015 aerial photograph



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Capture Date: 11/06/2015

Site Area: 0.06ha



Recent site history - 2011 aerial photograph



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Capture Date: 01/05/2011

Site Area: 0.06ha



Recent site history - 2000 aerial photograph



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Capture Date: 04/09/2000

Site Area: 0.06ha



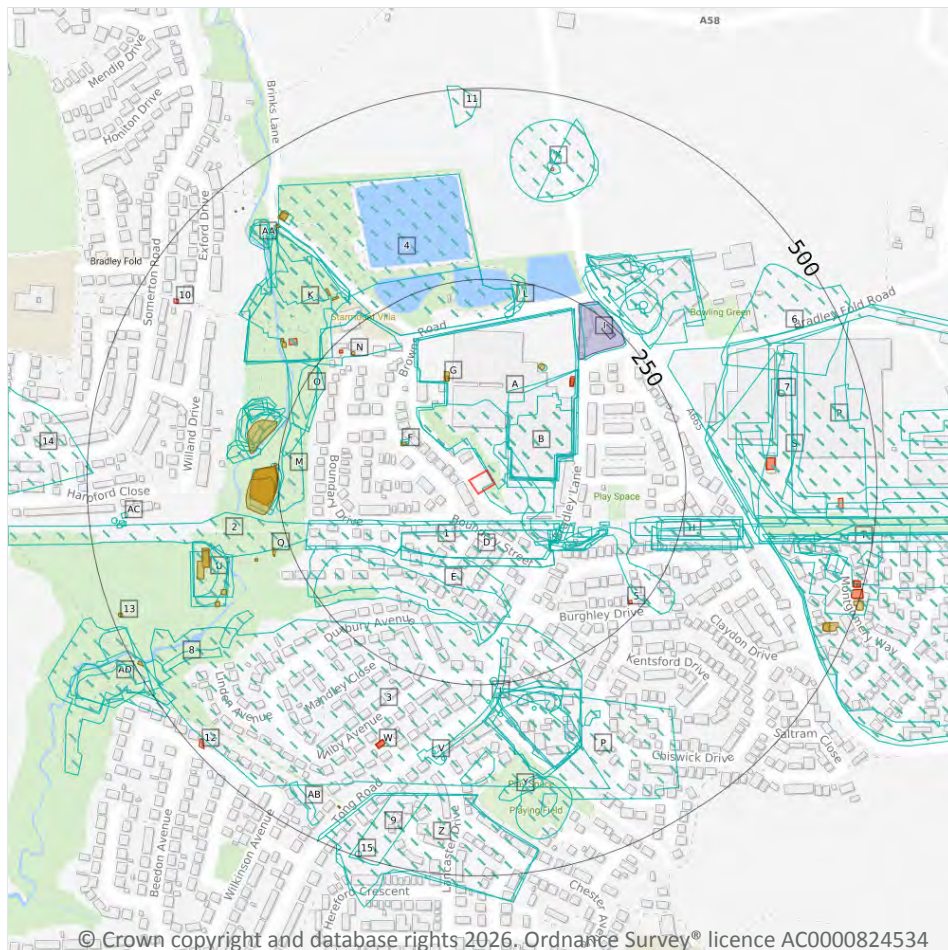
OS MasterMap site plan



Site Area: 0.06ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

141

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 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Mill	1991	770841



ID	Location	Land use	Dates present	Group ID
A	1m NE	Unspecified Mill	1977	732820
B	16m E	Unspecified Mill	1927 - 1938	756908
B	20m E	Unspecified Mill	1955	748759
C	22m NE	Unspecified Ground Workings	1890	660858
B	22m NE	Unspecified Mill	1965	794317
A	23m E	Unspecified Mill	1988	741201
1	36m S	Railway Sidings	1965	800789
2	40m S	Railway Sidings	1955	718120
D	48m S	Railway Sidings	1938	757480
D	49m S	Railway Sidings	1908 - 1927	719968
E	85m S	Refuse Heap	1955 - 1965	736991
C	92m SE	Railway Station	1890	761299
F	92m NW	Unspecified Tank	1908 - 1927	768535
F	93m NW	Unspecified Tank	1938	782639
C	93m SE	Railway Building	1955	702717
C	94m SE	Railway Building	1955 - 1965	764366
C	101m SE	Railway Station	1850	801776
C	104m SE	Railway Station	1938	741597
C	112m SE	Railway Station	1955	770949
C	120m SE	Railway Station	1927	708740
C	122m SE	Railway Station	1908	756114
C	123m SE	Railway Station	1965	751368
E	123m SW	Pumping Pit	1908	668452
C	146m E	Railway Building	1955	702716
A	149m NE	Unspecified Tank	1988 - 1991	749540
3	168m S	Bleach Works	1890	684871
H	184m E	Cuttings	1850	779751
H	190m E	Cuttings	1965	732937



ID	Location	Land use	Dates present	Group ID
J	191m S	Railway Sidings	1850	705767
4	192m N	Print Works	1938	762405
K	192m N	Print Works	1927	801540
I	193m NE	Garage	1988 - 1991	707560
K	196m NW	Print Works	1890 - 1908	776747
L	200m N	Unspecified Heap	1927 - 1938	730716
L	210m N	Unspecified Ground Workings	1955	660930
H	213m E	Cuttings	1938	716242
H	213m E	Cuttings	1890 - 1908	744105
M	217m W	Unspecified Heap	1977	714336
H	218m E	Cuttings	1977 - 1988	748180
H	223m E	Cuttings	1927	744742
H	224m E	Cuttings	1955	707884
O	224m NW	Unspecified Heap	1955	761242
O	224m W	Unspecified Heap	1927 - 1938	770292
K	241m NW	Unspecified Works	1965	683118
J	241m S	Unspecified Tank	1977	697530
M	245m W	Settling Tanks	1955	795885
M	248m W	Settling Tanks	1927 - 1938	776842
K	249m NW	Print Works	1955	739405
M	252m W	Unspecified Pit	1908	726869
J	255m S	Pottery	1927 - 1955	768250
P	257m S	Pottery	1890	728065
M	257m W	Settling Tank	1927 - 1938	768960
M	257m W	Settling Tank	1955	766537
M	259m W	Unspecified Pit	1890	758316
J	260m S	Pottery	1965	723193
I	260m NE	Unspecified Old Shaft	1927 - 1938	744229



ID	Location	Land use	Dates present	Group ID
J	262m S	Sawmill	1977	706239
I	262m NE	Refuse Heap	1908	763243
J	262m S	Unspecified Depot	1988 - 1991	726564
I	264m NE	Soap Works	1927 - 1938	723986
I	266m NE	Unspecified Works	1977	802839
M	270m W	Unspecified Ground Workings	1977	751155
J	270m S	Coal Pit	1850	679324
J	270m S	Refuse Heap	1908	656093
J	270m S	Pottery	1908	786484
M	271m W	Unspecified Pits	1965	703958
R	273m NE	Unspecified Works	1955	760611
M	275m W	Unspecified Pit	1955	752737
M	278m W	Unspecified Ground Workings	1991	793153
I	279m NE	Unspecified Works	1988 - 1991	763977
I	280m NE	Refuse Heap	1890	789285
R	281m E	Unspecified Works	1927 - 1938	783013
S	282m E	Unspecified Works	1908	736751
M	283m W	Unspecified Ground Workings	1988	748275
M	284m W	Unspecified Pit	1965	732982
R	286m E	Unspecified Works	1965 - 1977	749448
J	288m S	Old Air Shafts	1908	706747
J	288m S	Old Air Shafts	1908	706746
I	288m NE	Unspecified Old Shafts	1908	691004
I	288m NE	Unspecified Old Shafts	1890	691006
I	293m NE	Unspecified Disused Shaft	1977	700172
K	300m NW	Bleaching Mill	1850	669383
I	301m NE	Unspecified Heap	1965	688344
I	318m NE	Unspecified Ground Workings	1977	660673



ID	Location	Land use	Dates present	Group ID
T	318m E	Railway Sidings	1955 - 1965	737666
P	321m SE	Unspecified Ground Workings	1965	660676
T	322m E	Railway Sidings	1927 - 1938	753254
U	324m W	Unspecified Works	1965	683119
S	328m E	Railway Sidings	1977	783574
T	328m E	Cuttings	1850	795165
U	330m W	Sewage Works	1955	731734
U	333m SW	Refuse Heap	1977	656087
U	334m W	Unspecified Ground Workings	1965	660675
V	334m S	Colliery	1850	690044
6	337m NE	Unspecified Pit	1890	675489
V	337m S	Unspecified Pit	1890	675490
I	337m NE	Unspecified Old Shafts	1890	691005
U	338m W	Sewage Works	1927 - 1938	787023
I	340m NE	Unspecified Old Shafts	1908	690970
V	341m S	Coal Pit	1850	679325
T	345m E	Railway Sidings	1908	743498
V	345m S	Unspecified Old Shaft	1908	671344
T	356m E	Engineering Works	1955	704843
X	360m N	Pumping Pit	1890	668453
X	363m N	Unspecified Pit	1890	675569
T	364m E	Unspecified Works	1977 - 1988	800123
T	365m E	Unspecified Works	1965	768421
Y	376m S	Unspecified Pit	1908	789022
Y	380m S	Unspecified Pit	1927 - 1938	764173
7	389m E	Unspecified Tank	1965 - 1977	773019
8	393m SW	Unspecified Ground Workings	1988 - 1991	779398
Z	394m S	Colliery	1891	690046



ID	Location	Land use	Dates present	Group ID
Z	394m S	Disused Collieries	1908	687600
T	397m E	Railway Sidings	1977	738509
X	397m N	Unspecified Heap	1927	688343
9	398m S	Railway Sidings	1891	705766
AA	401m NW	Refuse Heap	1927	729681
Y	402m S	Unspecified Pit	1955	719841
AA	402m NW	Unspecified Heap	1977 - 1991	738642
T	404m E	Cuttings	1965 - 1977	720732
T	404m E	Unspecified Ground Workings	1977 - 1988	731671
AA	407m NW	Refuse Heap	1955	726979
AA	409m NW	Unspecified Tank	1988 - 1991	722699
X	410m N	Unspecified Ground Workings	1955	660684
AB	445m SW	Unspecified Ground Workings	1965	660679
T	448m E	Cuttings	1965	653042
AC	449m W	Unspecified Old Shaft	1955	671343
11	451m N	Refuse Heap	1955	656092
AC	452m W	Unspecified Old Shaft	1908	732286
R	453m E	Railway Station	1890	666348
AC	454m W	Unspecified Old Shaft	1927 - 1938	741134
AC	463m W	Coal Pit	1850	679326
AD	467m SW	Paper Mill	1955	799692
AD	485m SW	Unspecified Mill	1965	673358
T	485m E	Cuttings	1965	653043
AD	487m SW	Unspecified Mills	1977	669992
14	492m W	Sewage Works	1890	691755
AD	492m SW	Paper Mill	1890	722929
15	493m S	Coal Pit	1850	679327
AD	497m SW	Paper Mill	1908	741868

This data is sourced from Ordnance Survey® / Groundsure.



1.2 Historical tanks

Records within 500m

45

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
F	94m NW	Unspecified Tank	1910 - 1930	102247
G	127m NW	Tanks	1986 - 1994	102590
G	127m NW	Tanks	1972	99541
A	150m NE	Unspecified Tank	1986 - 1994	96257
N	223m NW	Unspecified Tank	1992	88940
M	250m W	Disused Settling Tanks	1955	97399
M	250m W	Disused Settling Tanks	1955 - 1972	92521
M	250m W	Disused Settling Tanks	1989	104076
M	250m W	Disused Settling Tanks	1995	94697
M	252m W	Disused Settling Tanks	1986	108212
M	252m W	Unspecified Tank	1955 - 1967	93669
M	255m W	Settling Tanks	1930 - 1937	97445
M	262m W	Settling Tank	1930 - 1937	99874
Q	269m W	Unspecified Tank	1955	100274
Q	269m W	Unspecified Tank	1967	103228
Q	270m W	Unspecified Tank	1955	104579
Q	270m W	Unspecified Tank	1955 - 1967	96405
Q	272m W	Unspecified Tank	1955	101256
Q	272m W	Unspecified Tank	1967	107475
Q	273m W	Unspecified Tank	1955	103243
K	294m NW	Unspecified Tank	1937	88944



ID	Location	Land use	Dates present	Group ID
Q	295m W	Unspecified Tank	1955 - 1967	95073
K	296m NW	Unspecified Tank	1955 - 1975	100324
K	302m NW	Unspecified Tank	1955	102866
K	302m NW	Tanks	1930	82209
U	348m SW	Humus Tank	1955 - 1967	101033
U	352m W	Tanks	1955 - 1967	106136
U	353m W	Tanks	1955	82217
U	353m W	Septic Tank	1930 - 1967	103847
U	363m SW	Humus Tank	1930 - 1937	92168
X	401m N	Unspecified Tank	1890	88941
AA	414m NW	Unspecified Tank	1955	104924
AA	417m NW	Unspecified Tank	1986 - 1992	97063
AA	417m NW	Unspecified Tank	1955 - 1975	100838
AB	447m SW	Unspecified Tank	1955	101473
AB	447m SW	Unspecified Tank	1955	103906
AA	462m NW	Unspecified Tank	1955	96637
AA	462m NW	Unspecified Tank	1955	94358
AA	465m NW	Unspecified Tank	1955	104747
AA	465m NW	Unspecified Tank	1955	92572
T	467m SE	Tanks	1986 - 1988	106332
T	467m SE	Tanks	1955 - 1970	100489
13	486m W	Unspecified Tank	1967 - 1972	96481
AD	490m SW	Unspecified Tank	1955	93784
T	494m E	Tanks	1955 - 1970	102498

This data is sourced from Ordnance Survey® / Groundsure.



1.3 Historical energy features

Records within 500m

20

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
A	154m NE	Electricity Substation	1972	54721
A	155m NE	Electricity Substation	1992 - 1994	61777
A	156m NE	Electricity Substation	1986	54765
5	233m SE	Electricity Substation	1992 - 1994	57315
N	235m NW	Electricity Substation	1986 - 1992	57001
K	287m NW	Electricity Substation	1955	48828
W	345m S	Electricity Substation	1989 - 1994	55763
W	345m S	Electricity Substation	1967	54073
W	346m S	Electricity Substation	1986 - 1989	55757
S	356m E	Electricity Substation	1986 - 1988	55781
S	356m E	Electricity Substation	1992	57964
10	446m NW	Electricity Substation	1975 - 1992	55308
T	450m E	Electricity Substation	1992	47307
12	482m SW	Electricity Substation	1972	48830
T	485m E	Electricity Substation	1986 - 1988	64233
T	487m E	Electricity Substation	1956	63386
T	488m E	Electricity Substation	1956	60789
T	488m E	Electricity Substation	1970	62475
T	491m E	Electricity Substation	1968	51783
T	491m E	Electricity Substation	1955	57345

This data is sourced from Ordnance Survey® / Groundsure.



1.4 Historical petrol stations

Records within 500m**0**

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

This data is sourced from Ordnance Survey® / Groundsure.

1.5 Historical garages

Records within 500m**2**

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

Features are displayed on the Past land use map on [page 15 >](#)

ID	Location	Land use	Dates present	Group ID
I	187m NE	Garage	1986 - 1994	21285
I	236m NE	Garage	1972	20984

This data is sourced from Ordnance Survey® / Groundsure.

1.6 Historical military land

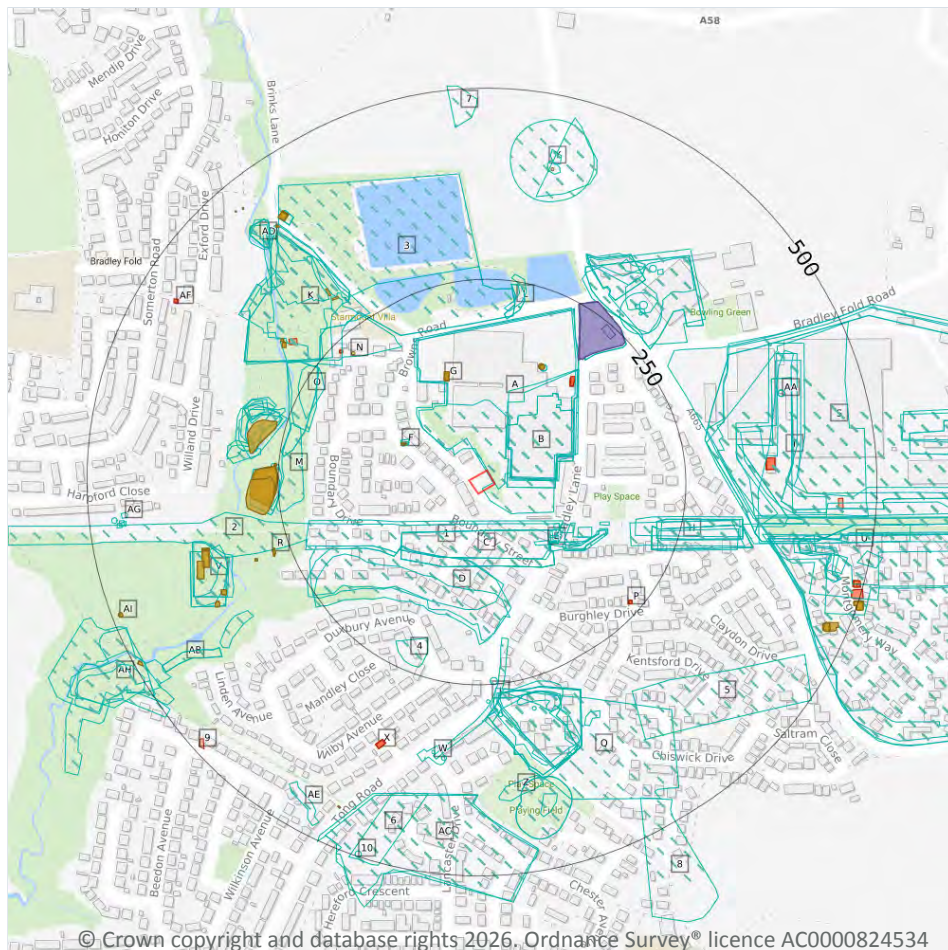
Records within 500m**0**

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



2.1 Historical industrial land uses

Records within 500m

173

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 25](#) >

ID	Location	Land Use	Date	Group ID
A	On site	Unspecified Mill	1991	770841
A	1m NE	Unspecified Mill	1977	732820
B	16m E	Unspecified Mill	1938	756908

ID	Location	Land Use	Date	Group ID
B	16m E	Unspecified Mill	1927	756908
B	20m E	Unspecified Mill	1955	748759
B	22m NE	Unspecified Mill	1965	794317
A	23m E	Unspecified Mill	1988	741201
1	36m S	Railway Sidings	1965	800789
2	40m S	Railway Sidings	1955	718120
C	48m S	Railway Sidings	1938	757480
C	49m S	Railway Sidings	1927	719968
C	49m S	Railway Sidings	1908	719968
D	85m S	Refuse Heap	1955	736991
D	89m S	Refuse Heap	1965	736991
E	92m SE	Railway Station	1890	761299
F	92m NW	Unspecified Tank	1908	768535
F	93m NW	Unspecified Tank	1938	782639
E	93m SE	Railway Building	1955	702717
F	93m NW	Unspecified Tank	1927	768535
E	94m SE	Railway Building	1965	764366
E	100m SE	Railway Building	1955	764366
E	101m SE	Railway Station	1850	801776
E	104m SE	Railway Station	1938	741597
E	112m SE	Railway Station	1955	770949
E	120m SE	Railway Station	1927	708740
E	122m SE	Railway Station	1908	756114
E	123m SE	Railway Station	1965	751368
D	123m SW	Pumping Pit	1908	668452
E	146m E	Railway Building	1955	702716
A	149m NE	Unspecified Tank	1991	749540
A	149m NE	Unspecified Tank	1988	749540



ID	Location	Land Use	Date	Group ID
H	184m E	Cuttings	1850	779751
H	190m E	Cuttings	1965	732937
J	191m S	Railway Sidings	1850	705767
3	192m N	Print Works	1938	762405
K	192m N	Print Works	1927	801540
I	193m NE	Garage	1991	707560
I	193m NE	Garage	1988	707560
K	196m NW	Print Works	1890	776747
L	200m N	Unspecified Heap	1938	730716
L	200m N	Unspecified Heap	1927	730716
4	200m S	Unspecified Heap	1890	688226
L	210m N	Unspecified Ground Workings	1955	660930
H	213m E	Cuttings	1938	716242
H	213m E	Cuttings	1908	744105
H	213m E	Cuttings	1890	744105
M	217m W	Unspecified Heap	1977	714336
H	218m E	Cuttings	1977	748180
H	218m E	Cuttings	1988	748180
K	219m W	Print Works	1908	776747
H	223m E	Cuttings	1927	744742
H	224m E	Cuttings	1955	707884
O	224m NW	Unspecified Heap	1955	761242
O	224m W	Unspecified Heap	1938	770292
O	224m W	Unspecified Heap	1927	770292
K	241m NW	Unspecified Works	1965	683118
J	241m S	Unspecified Tank	1977	697530
M	245m W	Settling Tanks	1955	795885
M	248m W	Settling Tanks	1938	776842



ID	Location	Land Use	Date	Group ID
M	248m W	Settling Tanks	1927	776842
K	249m NW	Print Works	1955	739405
M	252m W	Unspecified Pit	1908	726869
J	255m S	Pottery	1955	768250
Q	257m S	Pottery	1890	728065
M	257m W	Settling Tank	1938	768960
M	257m W	Settling Tank	1927	768960
M	257m W	Settling Tank	1955	766537
M	259m W	Unspecified Pit	1890	758316
J	260m S	Pottery	1965	723193
I	260m NE	Unspecified Old Shaft	1938	744229
J	262m S	Sawmill	1977	706239
I	262m NE	Refuse Heap	1908	763243
J	262m S	Unspecified Depot	1991	726564
J	262m S	Unspecified Depot	1988	726564
I	264m NE	Soap Works	1938	723986
I	264m NE	Soap Works	1927	723986
I	266m NE	Unspecified Works	1977	802839
J	268m S	Pottery	1938	768250
J	268m S	Pottery	1927	768250
M	270m W	Unspecified Ground Workings	1977	751155
J	270m S	Coal Pit	1850	679324
J	270m S	Refuse Heap	1908	656093
J	270m S	Pottery	1908	786484
M	271m W	Unspecified Pits	1965	703958
S	273m NE	Unspecified Works	1955	760611
M	275m W	Unspecified Pit	1955	752737
M	278m W	Unspecified Ground Workings	1991	793153



ID	Location	Land Use	Date	Group ID
I	279m NE	Unspecified Works	1991	763977
I	279m NE	Unspecified Works	1988	763977
I	280m NE	Refuse Heap	1890	789285
S	281m E	Unspecified Works	1938	783013
S	281m E	Unspecified Works	1927	783013
T	282m E	Unspecified Works	1908	736751
M	283m W	Unspecified Ground Workings	1988	748275
M	284m W	Unspecified Pit	1965	732982
I	285m NE	Unspecified Old Shaft	1927	744229
S	286m E	Unspecified Works	1965	749448
J	288m S	Old Air Shafts	1908	706747
J	288m S	Old Air Shafts	1908	706746
I	288m NE	Unspecified Old Shafts	1908	691004
I	288m NE	Unspecified Old Shafts	1890	691006
I	293m NE	Unspecified Disused Shaft	1977	700172
S	294m E	Unspecified Works	1977	749448
K	300m NW	Bleaching Mill	1850	669383
I	301m NE	Unspecified Heap	1965	688344
I	318m NE	Unspecified Ground Workings	1977	660673
U	318m E	Railway Sidings	1965	737666
U	318m E	Railway Sidings	1955	737666
Q	321m SE	Unspecified Ground Workings	1965	660676
U	322m E	Railway Sidings	1938	753254
U	322m E	Railway Sidings	1927	753254
V	324m W	Unspecified Works	1965	683119
5	325m SE	Cuttings	1890	652989
T	328m E	Railway Sidings	1977	783574
U	328m E	Cuttings	1850	795165



ID	Location	Land Use	Date	Group ID
V	330m W	Sewage Works	1955	731734
V	333m SW	Refuse Heap	1977	656087
V	334m W	Unspecified Ground Workings	1965	660675
W	334m S	Colliery	1850	690044
I	337m NE	Unspecified Old Shafts	1890	691005
V	338m W	Sewage Works	1938	787023
V	338m W	Sewage Works	1927	787023
I	340m NE	Unspecified Old Shafts	1908	690970
W	341m S	Coal Pit	1850	679325
U	345m E	Railway Sidings	1908	743498
W	345m S	Unspecified Old Shaft	1908	671344
U	356m E	Engineering Works	1955	704843
Y	360m N	Pumping Pit	1890	668453
Y	364m N	Unspecified Pit	1890	675569
U	364m E	Unspecified Works	1977	800123
U	365m E	Unspecified Works	1965	768421
U	365m E	Unspecified Works	1988	800123
Z	376m S	Unspecified Pit	1908	789022
Z	380m S	Unspecified Pit	1938	764173
Z	380m S	Unspecified Pit	1927	764173
AA	389m E	Unspecified Tank	1977	773019
AA	389m E	Unspecified Tank	1965	773019
AB	393m SW	Unspecified Ground Workings	1991	779398
AB	393m SW	Unspecified Ground Workings	1988	779398
AC	394m S	Colliery	1891	690046
AC	394m S	Disused Collieries	1908	687600
U	397m E	Railway Sidings	1977	738509
Y	397m N	Unspecified Heap	1927	688343



ID	Location	Land Use	Date	Group ID
6	398m S	Railway Sidings	1891	705766
AD	401m NW	Refuse Heap	1927	729681
Z	402m S	Unspecified Pit	1955	719841
AD	402m NW	Unspecified Heap	1991	738642
AD	402m NW	Unspecified Heap	1977	738642
AD	402m NW	Unspecified Heap	1988	738642
U	404m E	Cuttings	1977	720732
U	404m E	Unspecified Ground Workings	1988	731671
U	405m E	Cuttings	1965	720732
AD	407m NW	Refuse Heap	1955	726979
AD	409m NW	Unspecified Tank	1991	722699
AD	409m NW	Unspecified Tank	1988	722699
Y	410m N	Unspecified Ground Workings	1955	660684
U	429m E	Unspecified Ground Workings	1977	731671
AE	445m SW	Unspecified Ground Workings	1965	660679
U	448m E	Cuttings	1965	653042
AG	449m W	Unspecified Old Shaft	1955	671343
7	451m N	Refuse Heap	1955	656092
8	451m SE	Unspecified Pit	1890	675252
AG	452m W	Unspecified Old Shaft	1908	732286
AG	454m W	Unspecified Old Shaft	1938	741134
AG	458m W	Unspecified Old Shaft	1927	741134
AG	463m W	Coal Pit	1850	679326
AH	467m SW	Paper Mill	1955	799692
AH	485m SW	Unspecified Mill	1965	673358
U	485m E	Cuttings	1965	653043
AH	487m SW	Unspecified Mills	1977	669992
AH	492m SW	Paper Mill	1890	722929



ID	Location	Land Use	Date	Group ID
10	493m S	Coal Pit	1850	679327
AH	497m SW	Paper Mill	1908	741868

This data is sourced from Ordnance Survey® / Groundsure.

2.2 Historical tanks

Records within 500m

86

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 25 >](#)

ID	Location	Land Use	Date	Group ID
F	94m NW	Unspecified Tank	1930	102247
F	96m NW	Unspecified Tank	1910	102247
G	127m NW	Tanks	1986	102590
G	127m NW	Tanks	1986	102590
G	127m NW	Tanks	1972	99541
G	128m NW	Tanks	1994	102590
G	128m NW	Tanks	1992	102590
A	150m NE	Unspecified Tank	1994	96257
A	150m NE	Unspecified Tank	1992	96257
A	150m NE	Unspecified Tank	1986	96257
A	150m NE	Unspecified Tank	1986	96257
N	223m NW	Unspecified Tank	1992	88940
M	250m W	Disused Settling Tanks	1955	97399
M	250m W	Disused Settling Tanks	1967	92521
M	250m W	Disused Settling Tanks	1955	92521
M	250m W	Disused Settling Tanks	1989	104076
M	250m W	Disused Settling Tanks	1972	92521
M	250m W	Disused Settling Tanks	1995	94697



ID	Location	Land Use	Date	Group ID
M	252m W	Disused Settling Tanks	1986	108212
M	252m W	Unspecified Tank	1967	93669
M	252m W	Unspecified Tank	1955	93669
M	252m W	Unspecified Tank	1955	93669
M	255m W	Settling Tanks	1930	97445
M	255m W	Settling Tanks	1937	97445
M	262m W	Settling Tank	1930	99874
M	262m W	Settling Tank	1937	99874
R	269m W	Unspecified Tank	1967	103228
R	269m W	Unspecified Tank	1955	100274
R	270m W	Unspecified Tank	1955	104579
R	270m W	Unspecified Tank	1967	96405
R	270m W	Unspecified Tank	1955	96405
R	270m W	Unspecified Tank	1955	96405
R	272m W	Unspecified Tank	1967	107475
R	272m W	Unspecified Tank	1955	101256
R	273m W	Unspecified Tank	1955	103243
K	294m NW	Unspecified Tank	1937	88944
R	295m W	Unspecified Tank	1967	95073
R	295m W	Unspecified Tank	1955	95073
R	296m W	Unspecified Tank	1955	95073
K	296m NW	Unspecified Tank	1955	100324
K	296m NW	Unspecified Tank	1955	100324
K	296m NW	Unspecified Tank	1975	100324
K	302m NW	Unspecified Tank	1955	102866
K	302m NW	Unspecified Tank	1955	102866
K	302m NW	Tanks	1930	82209
V	348m SW	Humus Tank	1955	101033



ID	Location	Land Use	Date	Group ID
V	348m SW	Humus Tank	1967	101033
V	348m SW	Humus Tank	1955	101033
V	352m W	Tanks	1967	106136
V	352m W	Tanks	1955	106136
V	352m W	Tanks	1955	106136
V	353m W	Tanks	1955	82217
V	353m W	Septic Tank	1967	103847
V	353m W	Septic Tank	1955	103847
V	363m W	Septic Tank	1930	103847
V	363m W	Septic Tank	1937	103847
V	363m SW	Humus Tank	1930	92168
V	363m SW	Humus Tank	1937	92168
Y	401m N	Unspecified Tank	1890	88941
AD	414m NW	Unspecified Tank	1955	104924
AD	414m NW	Unspecified Tank	1955	104924
AD	417m NW	Unspecified Tank	1992	97063
AD	417m NW	Unspecified Tank	1955	100838
AD	417m NW	Unspecified Tank	1955	100838
AD	417m NW	Unspecified Tank	1975	100838
AD	417m NW	Unspecified Tank	1986	97063
AE	447m SW	Unspecified Tank	1955	101473
AE	447m SW	Unspecified Tank	1955	103906
AD	462m NW	Unspecified Tank	1955	96637
AD	462m NW	Unspecified Tank	1955	94358
AD	465m NW	Unspecified Tank	1955	104747
AD	465m NW	Unspecified Tank	1955	92572
U	467m SE	Tanks	1986	106332
U	467m SE	Tanks	1988	106332



ID	Location	Land Use	Date	Group ID
U	467m SE	Tanks	1956	100489
U	467m SE	Tanks	1970	100489
U	467m SE	Tanks	1955	100489
U	467m SE	Tanks	1968	100489
AI	486m W	Unspecified Tank	1967	96481
AI	486m W	Unspecified Tank	1972	96481
AH	490m SW	Unspecified Tank	1955	93784
AH	490m SW	Unspecified Tank	1955	93784
U	494m E	Tanks	1956	102498
U	494m E	Tanks	1970	102498
U	494m E	Tanks	1955	102498
U	494m E	Tanks	1968	102498

This data is sourced from Ordnance Survey® / Groundsure.

2.3 Historical energy features

Records within 500m

37

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 25 >](#)

ID	Location	Land Use	Date	Group ID
A	154m NE	Electricity Substation	1972	54721
A	155m NE	Electricity Substation	1994	61777
A	155m NE	Electricity Substation	1992	61777
A	156m NE	Electricity Substation	1986	54765
A	156m NE	Electricity Substation	1986	54765
P	233m SE	Electricity Substation	1994	57315
P	233m SE	Electricity Substation	1994	57315
P	233m SE	Electricity Substation	1992	57315



ID	Location	Land Use	Date	Group ID
P	233m SE	Electricity Substation	1994	57315
N	235m NW	Electricity Substation	1992	57001
N	235m NW	Electricity Substation	1986	57001
K	287m NW	Electricity Substation	1955	48828
X	345m S	Electricity Substation	1994	55763
X	345m S	Electricity Substation	1994	55763
X	345m S	Electricity Substation	1992	55763
X	345m S	Electricity Substation	1994	55763
X	345m S	Electricity Substation	1967	54073
X	346m S	Electricity Substation	1989	55763
X	346m S	Electricity Substation	1986	55757
X	346m S	Electricity Substation	1986	55757
X	346m S	Electricity Substation	1989	55757
T	356m E	Electricity Substation	1986	55781
T	356m E	Electricity Substation	1988	55781
T	356m E	Electricity Substation	1988	55781
T	356m E	Electricity Substation	1992	57964
AF	446m NW	Electricity Substation	1992	55308
AF	446m NW	Electricity Substation	1975	55308
AF	447m NW	Electricity Substation	1986	55308
U	450m E	Electricity Substation	1992	47307
9	482m SW	Electricity Substation	1972	48830
U	485m E	Electricity Substation	1986	64233
U	485m E	Electricity Substation	1988	64233
U	487m E	Electricity Substation	1956	63386
U	488m E	Electricity Substation	1956	60789
U	488m E	Electricity Substation	1970	62475
U	491m E	Electricity Substation	1955	57345



ID	Location	Land Use	Date	Group ID
U	491m E	Electricity Substation	1968	51783

This data is sourced from Ordnance Survey® / Groundsure.

2.4 Historical petrol stations

Records within 500m	0
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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	5
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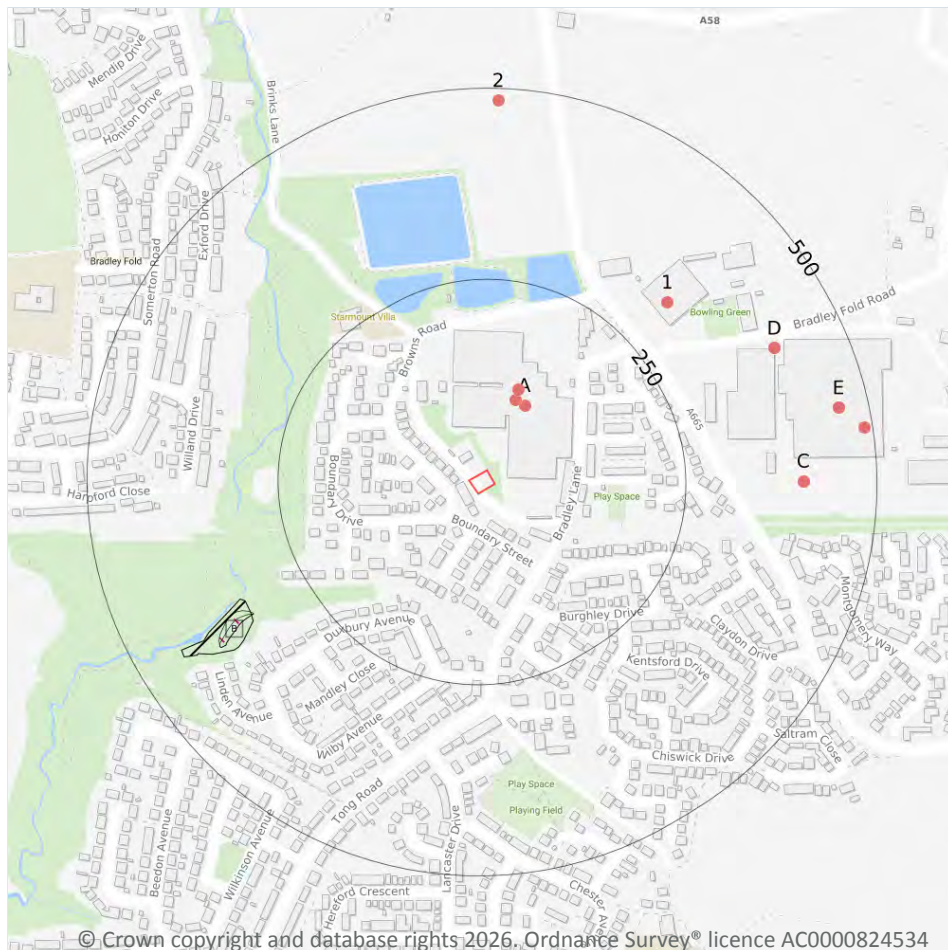
Garages digitised from historical Ordnance Survey® mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

Features are displayed on the Past land use - un-grouped map on [page 25 >](#)

ID	Location	Land Use	Date	Group ID
I	187m NE	Garage	1992	21285
I	187m NE	Garage	1994	21285
I	190m NE	Garage	1986	21285
I	190m NE	Garage	1986	21285
I	236m NE	Garage	1972	20984

This data is sourced from Ordnance Survey® / Groundsure.

3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Historical landfill (LA/OS)
- 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

2

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

Features are displayed on the Waste and landfill map on [page 38 >](#)

ID	Location	Site address	Source	Data type
B	331m SW	Refuse Tip	1971 mapping	Polygon
B	332m SW	Refuse Tip	1966 mapping	Polygon

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

1

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

Features are displayed on the Waste and landfill map on [page 38 >](#)

ID	Location	Details		
B	333m SW	Site Address: Lomax Mill Tip No.1, Off Linden Avenue, Little Lever, Bolton, Greater Manchester Licence Holder Address: Johnson Street, Radcliffe, Bury	Waste Licence: Yes Site Reference: B018, RD/LIC/112/77 Waste Type: Inert, Industrial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 19/10/1978 Licence Surrender: 18/01/1986	Operator: - Licence Holder: The Radcliffe Paper Mill Company First Recorded 31/12/1914 Last Recorded: 31/12/1988

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

3.5 Historical waste sites

Records within 500m

0

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

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



3.6 Licensed waste sites

Records within 500m

0

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

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

3.7 Waste exemptions

Records within 500m

32

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 38 >](#)

ID	Location	Site	Reference	Category	Sub-Category	Description
A	97m NE	Fold Mill, Bradley Lane, Bolton, BL2 6ra	WEX224958	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	98m N	-	WEX478767	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
A	113m N	-	WEX354598	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
1	322m NE	Radcliffe Moor Road, Bolton, BL2 6re	WEX037268	Using waste exemption	Not on a farm	Use of waste for a specified purpose
C	404m E	-	WEX278364	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	404m E	-	WEX278364	Using waste exemption	Not on a farm	Use of waste in construction
C	404m E	-	WEX406604	Storing waste exemption	Not on a farm	Storage of waste in a secure place
C	404m E	-	WEX406604	Using waste exemption	Not on a farm	Use of waste in construction
D	406m NE	-	WEX371938	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
D	406m NE	-	WEX371938	Storing waste exemption	Not on a farm	Storage of waste in a secure place
D	406m NE	-	WEX371939	Using waste exemption	Not on a farm	Use of waste for a specified purpose



ID	Location	Site	Reference	Category	Sub-Category	Description
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX095510	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX241509	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX242358	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	460m E	Unit 1, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX244118	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 1, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX244118	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	460m E	Unit 1, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX101960	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 1, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX101960	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX095510	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX241509	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX275477	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)

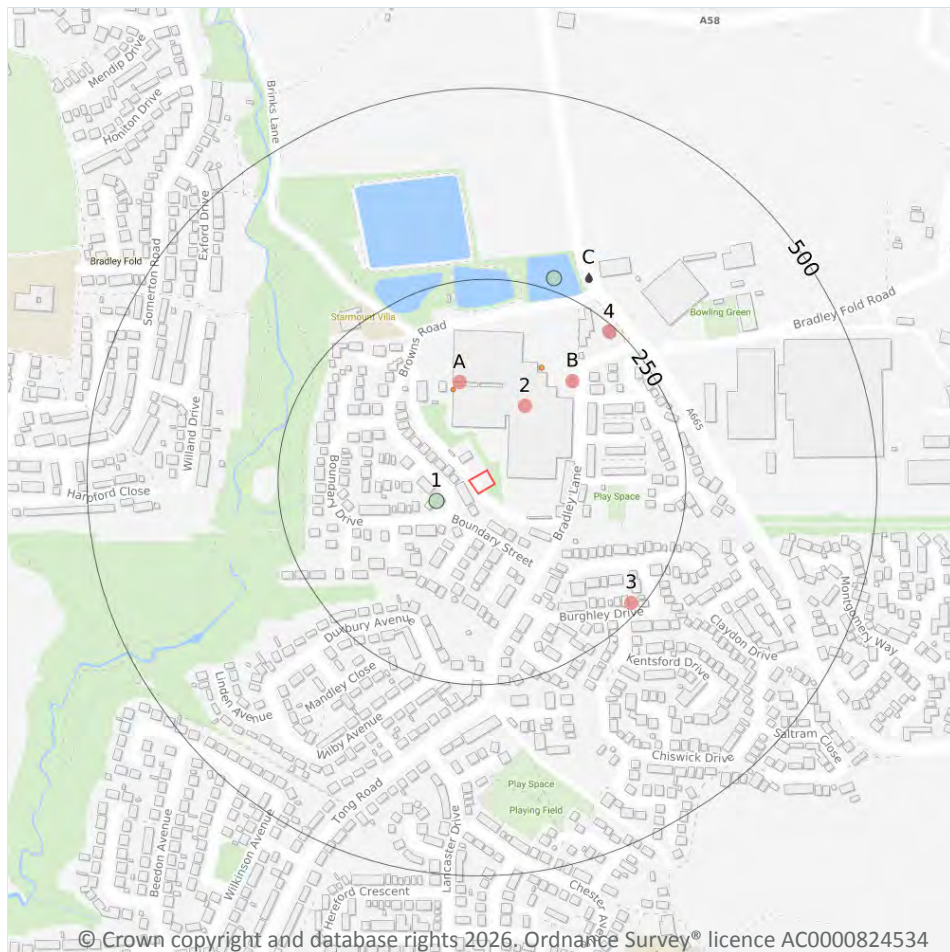


ID	Location	Site	Reference	Category	Sub-Category	Description
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX275477	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX275480	Using waste exemption	Not on a farm	Use of waste to manufacture finished goods
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX311959	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX311959	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX286379	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 1, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX371356	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 1, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX371356	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX181515	Storing waste exemption	Not on a farm	Storage of waste in a secure place
E	460m E	Unit 8, Bradley Fold Trading Estate, Radcliffe Moor Road, Bradley Fold, Bolton, BL2 6rt	WEX181515	Treating waste exemption	Not on a farm	Preparatory treatments (baling, sorting, shredding etc)
2	483m N	-	WEX420019	Using waste exemption	Not on a farm	Use of waste in construction
E	489m E	Unit 8 Bradley Fold Trading Estate Radcliffe Moor Road Lancashire BL2 6rt	EPR/GH0414Q B/A001	Treating waste exemption	Non-agricultural waste only	Preparatory treatments (baling, sorting, shredding etc)

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
- NGD current or recent tanks
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

5

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on [page 43](#) >

ID	Location	Company	Address	Activity	Category
2	98m NE	Penine Manufacturing Ltd	Pennine Fold Mill, Bradley Lane, Radcliffe, Greater Manchester, BL2 6RA	Rubber, Silicones and Plastics	Industrial Products
A	121m N	Chimney	Greater Manchester, BL2	Chimneys	Industrial Features
B	162m NE	Electricity Sub Station	Greater Manchester, BL2	Electrical Features	Infrastructure and Facilities



ID	Location	Company	Address	Activity	Category
3	237m SE	Electricity Sub Station	Greater Manchester, M26	Electrical Features	Infrastructure and Facilities
4	241m NE	Radmoor Car Sales	Bradley Fold Garage Ltd, Bradley Lane, Radcliffe, Greater Manchester, BL2 6RF	Secondhand Vehicles	Motoring

This data is sourced from Ordnance Survey®.

4.2 National Geographic Database (NGD) - Current or recent tanks

Records within 250m

2

Current or recent tanks identified from the Ordnance Survey® NGD.

Features are displayed on the Current industrial land use map on [page 43](#) >

ID	Location	Tank description	Activity	Date first identified
A	111m NW	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	04/05/2016
B	149m NE	Roofed Storage Tank	Commercial Activity: Distribution Or Storage	01/04/1993

This data is sourced from Ordnance Survey®.

4.3 Current or recent petrol stations

Records within 500m

0

Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.4 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.5 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.



4.6 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.

4.7 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.

4.8 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.

4.9 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.

4.10 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.



4.11 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.

4.12 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.

4.13 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.

4.14 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 43](#) >

ID	Location	Address	Details	
C	285m NE	GARDEN STORE LTD SWO, RADCLIFFE MOOR ROAD, RADCLIFFE, BURY, GREATER MANCHESTER	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991449 Permit Version: 1 Receiving Water: COASTAL TRIB FOR DA 68/69	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1992 Revocation Date: 01/04/1992

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



4.15 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.

4.16 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.

4.17 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.

4.18 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.

4.19 Pollution Incidents (EA/NRW)

Records within 500m**2**

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

Features are displayed on the Current industrial land use map on [page 43 >](#)

ID	Location	Details	
1	51m SW	Incident Date: 12/06/2001 Incident Identification: 8753 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 2 (Significant) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)
C	266m N	Incident Date: 22/09/2001 Incident Identification: 32300 Pollutant: Other Pollutant Pollutant Description: Natural Ochre	Water Impact: Category 3 (Minor) Land Impact: Category 4 (No Impact) Air Impact: Category 4 (No Impact)

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

4.20 Pollution inventory substances

Records within 500m	0
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The pollution inventory (substances) includes reporting on annual emissions of certain regulated substances to air, controlled waters and land. A reporting threshold for each substance is also included. Where emissions fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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

4.21 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.

4.22 Pollution inventory radioactive waste

Records within 500m	0
----------------------------	----------

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

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

5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

1

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on [page 49](#) >

ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

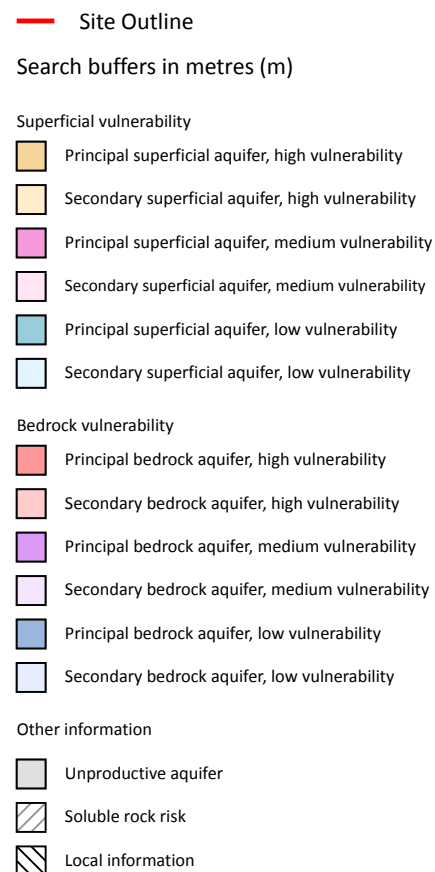
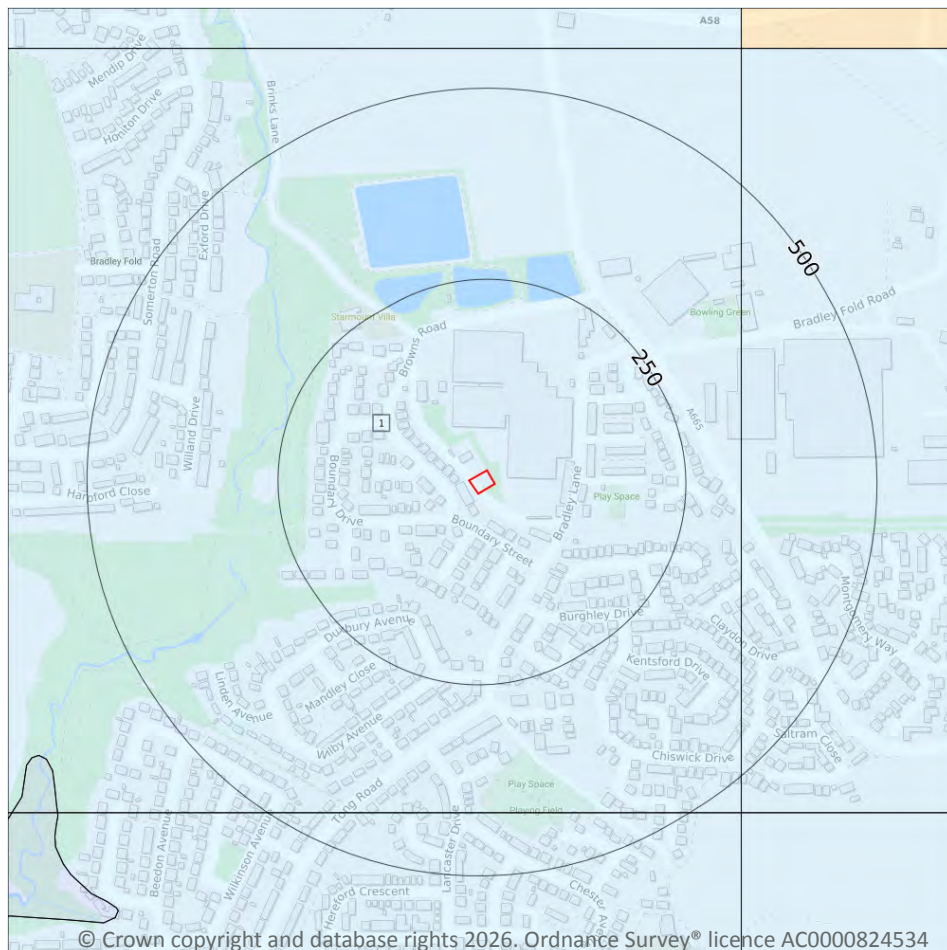
Features are displayed on the Bedrock aquifer map on [page 50](#) >

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

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



Groundwater vulnerability



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 51](#) >



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

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

5.4 Groundwater vulnerability- soluble rock risk

Records on site

0

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

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

5.5 Groundwater vulnerability- local information

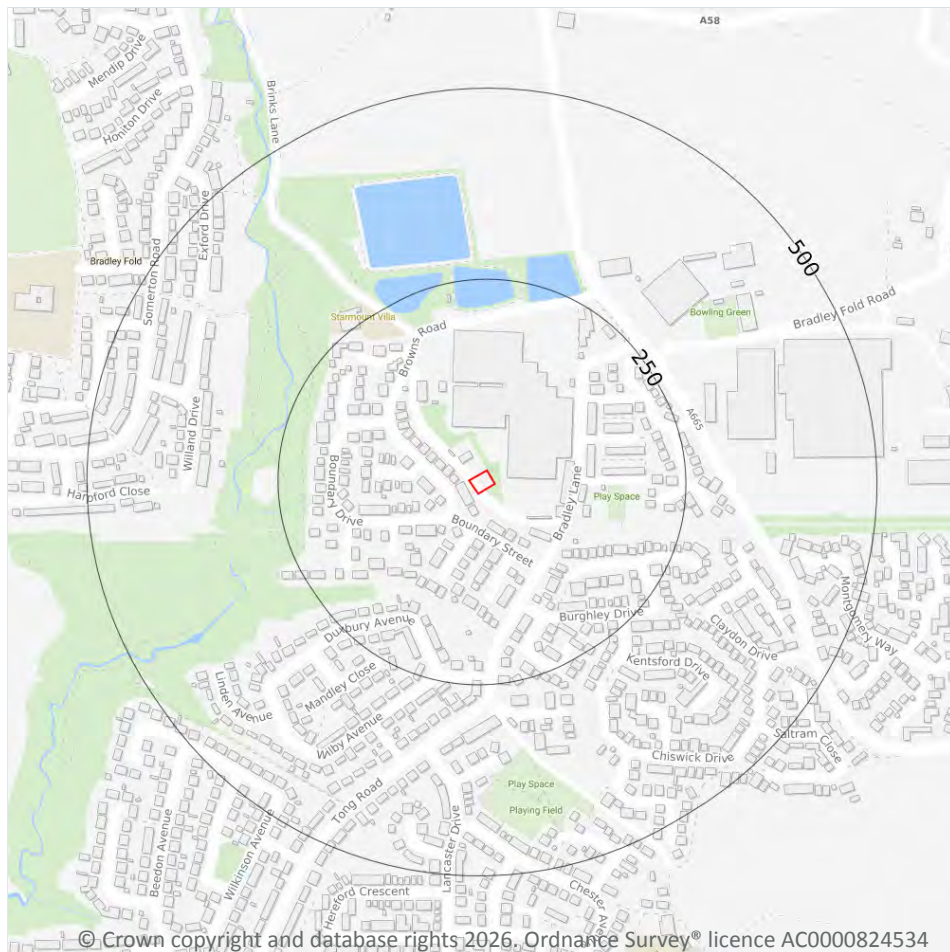
Records on site

0

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

14

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 53 >](#)

ID	Location	Details	
-	770m N	Status: Historical Licence No: 2569003012 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, AINSWORTH MILLBREIGHTMET, BOLTON" Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD. Easting: 375500 Northing: 409200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 23/02/2001 Version End Date: -
-	770m N	Status: Historical Licence No: 2569003012 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, AINSWORTH MILLBREIGHTMET, BOLTON Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD. Easting: 375500 Northing: 409200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 23/02/2001 Version End Date: -
-	771m N	Status: Historical Licence No: 2569003012 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, AINSWORTH MILLBREIGHTMET, BOLTON Data Type: Point Name: PNC PROPERTIES LLP Easting: 375460 Northing: 409190	Annual Volume (m ³): 44840 Max Daily Volume (m ³): 700 Original Application No: - Original Start Date: 02/02/1966 Expiry Date: 05/08/2010 Issue No: 104 Version Start Date: 15/10/2007 Version End Date: -
-	771m N	Status: Historical Licence No: 2569003012/R1 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, AINSWORTH MILLBREIGHTMET, BOLTON Data Type: Point Name: PCN PROPERTIES LLP Easting: 375460 Northing: 409190	Annual Volume (m ³): 8183 Max Daily Volume (m ³): 27.28 Original Application No: - Original Start Date: 02/02/1966 Expiry Date: - Issue No: 104 Version Start Date: 06/08/2010 Version End Date: -



ID	Location	Details	
-	1096m SE	Status: Historical Licence No: 2569004051 Details: Dust suppression Direct Source: Ground Water - North West Region Point: "BOREHOLE AT STOPES RD, LITTLE LEVER, BOLTON" Data Type: Point Name: TARMAC TOPBLOCK LTD Easting: 376330 Northing: 407550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/04/1996 Expiry Date: - Issue No: 100 Version Start Date: 06/04/1998 Version End Date: -
-	1096m SE	Status: Historical Licence No: 2569004051 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT STOPES RD, LITTLE LEVER, BOLTON" Data Type: Point Name: TARMAC TOPBLOCK LTD Easting: 376330 Northing: 407550	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 29/04/1996 Expiry Date: - Issue No: 100 Version Start Date: 06/04/1998 Version End Date: -
-	1096m SE	Status: Historical Licence No: 2569004051 Details: Dust Suppression Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOPES RD, LITTLE LEVER, BOLTON Data Type: Point Name: Tarmac Building Products Limited Easting: 376330 Northing: 407550	Annual Volume (m ³): 30000 Max Daily Volume (m ³): 168 Original Application No: - Original Start Date: 29/04/1996 Expiry Date: - Issue No: 104 Version Start Date: 01/11/2016 Version End Date: -
-	1096m SE	Status: Historical Licence No: 2569004051 Details: General Use Relating To Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT STOPES RD, LITTLE LEVER, BOLTON Data Type: Point Name: Tarmac Building Products Limited Easting: 376330 Northing: 407550	Annual Volume (m ³): 30000 Max Daily Volume (m ³): 168 Original Application No: - Original Start Date: 29/04/1996 Expiry Date: - Issue No: 104 Version Start Date: 01/11/2016 Version End Date: -



ID	Location	Details	
-	1107m N	Status: Historical Licence No: 2569003042 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, AINSWORTH MILL BREIGHTMET, BOLTON Data Type: Point Name: PNC PROPERTIES LLP Easting: 375560 Northing: 409550	Annual Volume (m ³): 24820 Max Daily Volume (m ³): 436.41 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: 05/08/2010 Issue No: 104 Version Start Date: 15/10/2007 Version End Date: -
-	1107m N	Status: Historical Licence No: 2569003042/R1 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, AINSWORTH MILL BREIGHTMET, BOLTON Data Type: Point Name: PCN PROPERTIES LLP Easting: 375560 Northing: 409550	Annual Volume (m ³): 159290 Max Daily Volume (m ³): 436.41 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 104 Version Start Date: 06/08/2010 Version End Date: -
-	1164m N	Status: Historical Licence No: 2569003042 Details: Process water Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, AINSWORTH MILLBREIGHTMET, BOLTON" Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD. Easting: 375500 Northing: 409600	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 23/02/2001 Version End Date: -
-	1164m N	Status: Historical Licence No: 2569003042 Details: Process water Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, AINSWORTH MILLBREIGHTMET, BOLTON Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD Easting: 375500 Northing: 409600	Annual Volume (m ³): 44840 Max Daily Volume (m ³): 486 Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 102 Version Start Date: 23/02/2001 Version End Date: -



ID	Location	Details	
-	1918m S	Status: Historical Licence No: 2569004049 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "BOREHOLE AT CREAMS MILL, MYTHAM ROAD, LITTLE LEVER, BOLTON" Data Type: Point Name: DANISCO PAPER LTD Easting: 375700 Northing: 406500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1994 Expiry Date: - Issue No: 100 Version Start Date: 21/09/1995 Version End Date: -
-	1918m S	Status: Historical Licence No: 2569004049 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: BOREHOLE AT CREAMS MILL, MYTHAM ROAD, LITTLE LEVER, BOLTON Data Type: Point Name: MONDI PAPER LIMITED Easting: 375700 Northing: 406500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/05/1994 Expiry Date: - Issue No: 101 Version Start Date: 11/09/2001 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

8

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 53](#) >

ID	Location	Details	
-	993m N	Status: Historical Licence No: 2569003043 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE AT PREMISES AINSWORTH MILL Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD Easting: 375520 Northing: 409430	Annual Volume (m ³): 200000 Max Daily Volume (m ³): 1600 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 104 Version Start Date: 05/08/2005 Version End Date: -



ID	Location	Details	
-	1018m S	Status: Historical Licence No: 2569003027 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE ATPREMISES, LITTLE LEVER, " Data Type: Point Name: LORIVAL PLASTICS LTD Easting: 375700 Northing: 407400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/02/1991 Version End Date: -
-	1018m S	Status: Historical Licence No: 2569003027 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATPREMISES, LITTLE LEVER Data Type: Point Name: LORIVAL PLASTICS LTD Easting: 375700 Northing: 407400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/01/1966 Expiry Date: - Issue No: 100 Version Start Date: 18/02/1991 Version End Date: -
-	1065m N	Status: Historical Licence No: 2569003043 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "RESERVOIR FED BY SURFACE DRAINAGE ATPREMISES, AINSWORTH MILL" Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD. Easting: 375500 Northing: 409500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 102 Version Start Date: 23/02/2001 Version End Date: -
-	1065m N	Status: Historical Licence No: 2569003043 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: RESERVOIR FED BY SURFACE DRAINAGE ATPREMISES, AINSWORTH MILL Data Type: Point Name: AINSWORTH FINISHING COMPANY LTD Easting: 375500 Northing: 409500	Annual Volume (m ³): 365000 Max Daily Volume (m ³): 1980 Original Application No: - Original Start Date: 21/01/1966 Expiry Date: - Issue No: 103 Version Start Date: 23/02/2001 Version End Date: -



ID	Location	Details	
-	1959m N	Status: Historical Licence No: 2569003051 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: CHERRY TREE & PIMHOLE R/VOIRS FED BY SURFACE DRAINAGE114 Data Type: Point Name: REXHAM CFP LTD. Easting: 375500 Northing: 410400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/06/1999 Version End Date: -
-	1959m N	Status: Historical Licence No: 2569003051 Details: Process water Direct Source: Surface, Non-Tidal - North West Region Point: CHERRY TREE & PIMHOLE R/VOIRS FED BY SURFACE DRAINAGE \$114 Data Type: Point Name: FIBERMARK RED BRIDGE INTERNATIONAL LTD Easting: 375500 Northing: 410400	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 04/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 18/04/2001 Version End Date: -
-	1959m N	Status: Historical Licence No: 2569003051 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: CHERRY TREE & PIMHOLE R/VOIRS FED BY SURFACE DRAINAGE Data Type: Point Name: Neenah Red Bridge International Limited Easting: 375500 Northing: 410400	Annual Volume (m ³): 13500 Max Daily Volume (m ³): 54 Original Application No: NPS/WR/037099 Original Start Date: 04/03/1966 Expiry Date: - Issue No: 103 Version Start Date: 20/01/2022 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

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



5.9 Source Protection Zones

Records within 500m

0

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

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



- Site Outline
- Search buffers in metres (m)
- Water Network (OS MasterMap)
- Surface water features (wider than 5m)
- Surface water features (narrower than 5m)
- ⋯ WFD River, canal and surface water transfer water bodies
- WFD Lake water bodies
- WFD Transitional and coastal water bodies
- WFD Surface water body catchments boundaries
- WFD Groundwater body boundaries

6.1 Water Network (OS MasterMap)

Records within 250m

1

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

Features are displayed on the Hydrology map on [page 61](#) >

ID	Location	Type of water feature	Ground level	Permanence	Name
B	220m W	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-

This data is sourced from the Ordnance Survey®.



6.2 Surface water features

Records within 250m

4

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

Features are displayed on the Hydrology map on [page 61 >](#)

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 61 >](#)

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Croal (including Blackshaw Brook)	GB112069064550	Croal Irwell	Irwell

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on [page 61 >](#)

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
4	253m W	River	Croal (including Blackshaw Brook)	GB112069064550 ↗	Moderate	Fail	Moderate	2019



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

6.5 WFD Groundwater bodies

Records on site

1

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

Features are displayed on the Hydrology map on [page 61](#) >

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

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



7 River and coastal flooding



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

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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



7.2 Historical Flood Events

Records within 250m

1

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.

Features are displayed on the River and coastal flooding map on [page 64](#) >

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
1	148m NW	Bksb	1998-03-06 1998-03-07	Unknown	Channel capacity exceeded (no raised defences)	No data

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

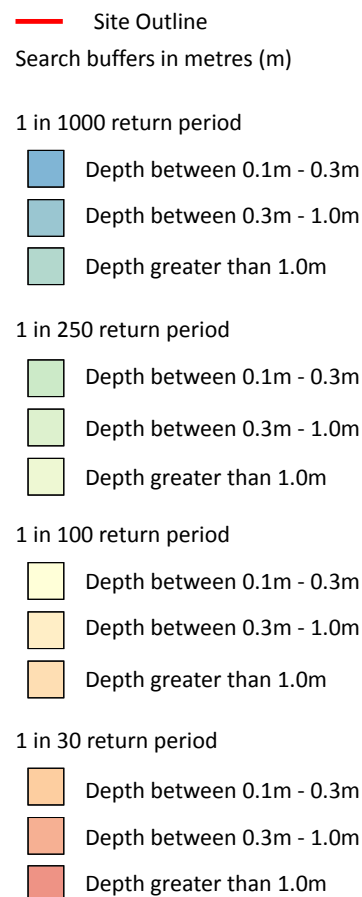
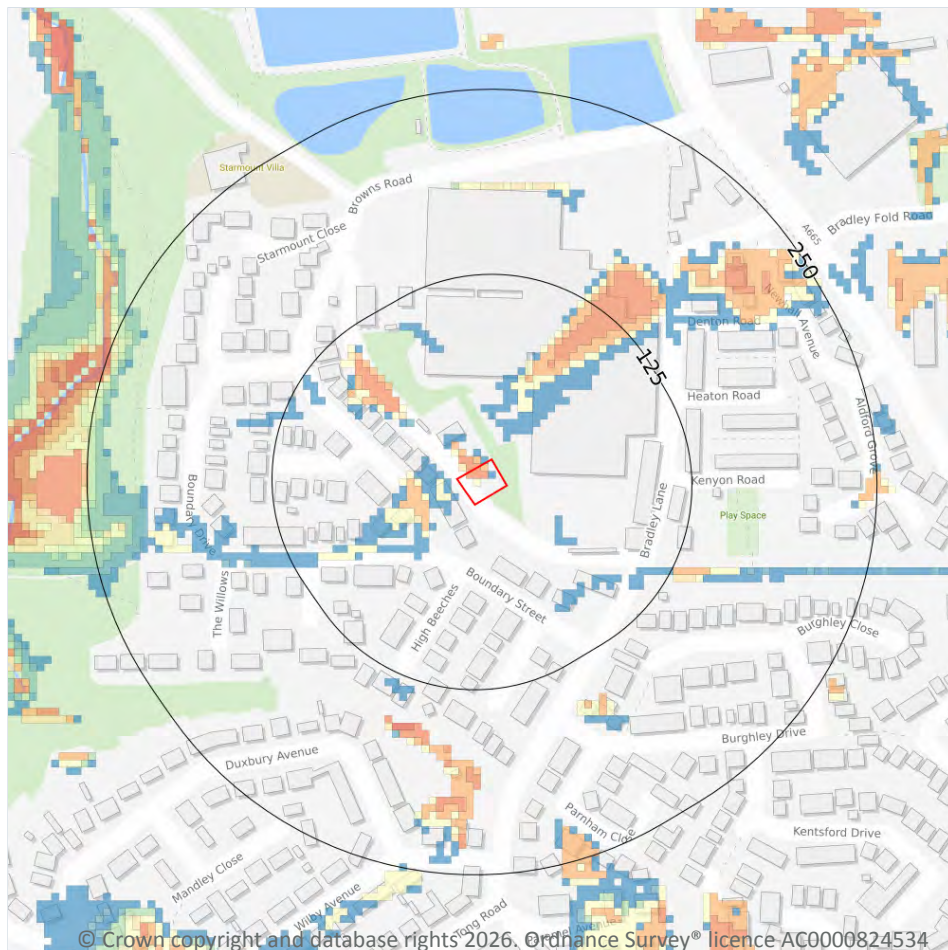
0

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



8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, 0.3m - 1.0m

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

Features are displayed on the Surface water flooding map on [page 67 >](#)

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 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.3m and 1.0m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

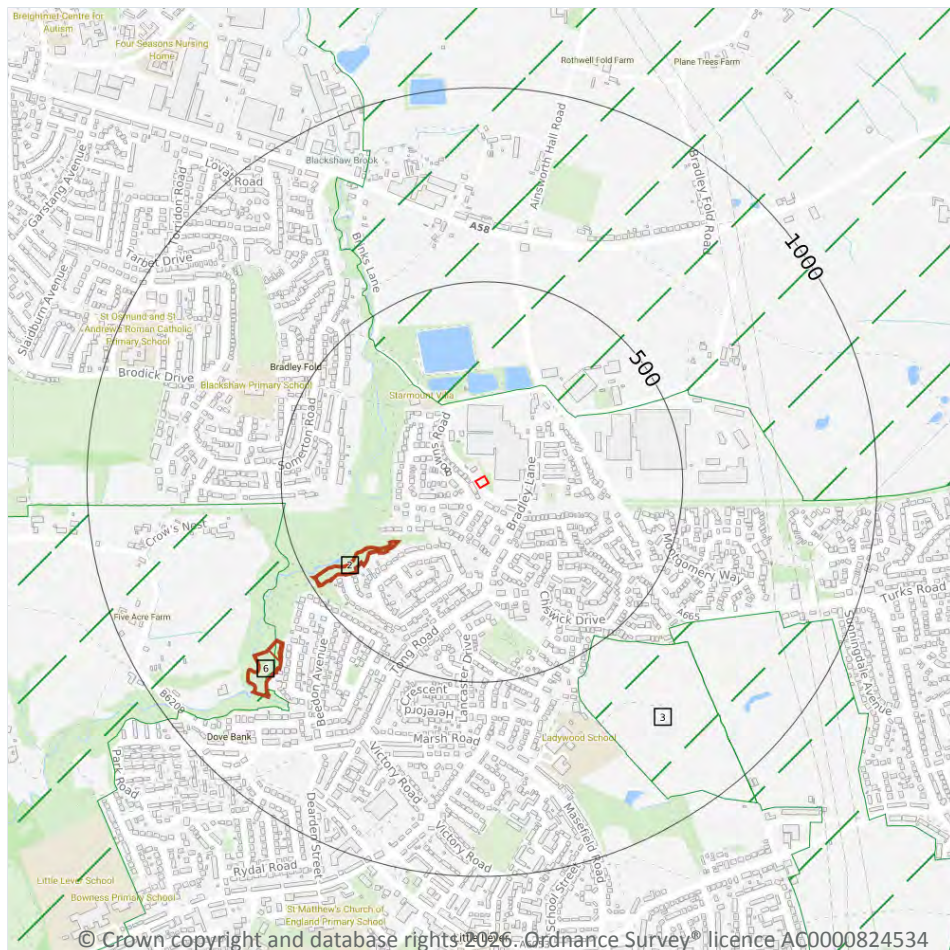
Low

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

Features are displayed on the Groundwater flooding map on [page 69](#) >

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- Sites of Special Scientific Interest (SSSI)
- + Local Nature Reserves (LNR)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

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

Features are displayed on the Environmental designations map on [page 70 >](#)

ID	Location	Name	Data source
-	1965m S	Nob End SSSI	Natural England



ID	Location	Name	Data source
-	1979m S	Ashclough SSSI	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m	0
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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
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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
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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

8

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 70 >](#)

ID	Location	Name	Data source
-	1363m SW	Moses Gate	Natural England
-	1476m SW	Moses Gate	Natural England
-	1552m S	Moses Gate	Natural England
-	1689m SW	Moses Gate	Natural England
-	1720m SW	Moses Gate	Natural England
-	1774m W	Leverhulme	Natural England
-	1839m SW	Moses Gate	Natural England
-	1965m S	Nob End	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m

5

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 70 >](#)

ID	Location	Name	Woodland Type
2	253m SW	Unknown	Ancient & Semi-Natural Woodland
6	646m SW	Unknown	Ancient & Semi-Natural Woodland
-	1675m S	Unknown	Ancient & Semi-Natural Woodland
-	1727m S	Unknown	Ancient & Semi-Natural Woodland
-	1851m W	Unknown	Ancient Replanted 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

5

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

Features are displayed on the Environmental designations map on [page 70 >](#)

ID	Location	Name	Local Authority name
1	202m N	Merseyside and Greater Manchester Green Belt	Bury
3	477m SE	Merseyside and Greater Manchester Green Belt	Bolton
4	493m W	Merseyside and Greater Manchester Green Belt	Bolton
5	597m SE	Merseyside and Greater Manchester Green Belt	Bury
-	1699m N	Merseyside and Greater Manchester Green Belt	Bolton



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

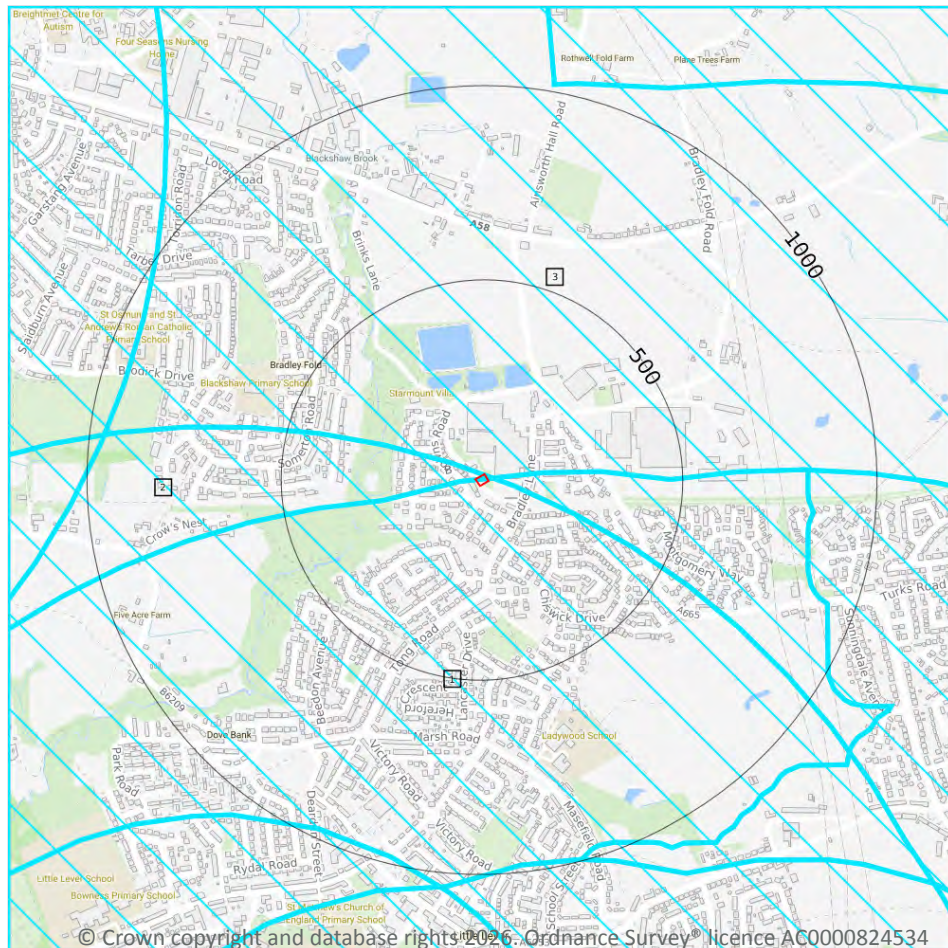
0

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.

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



SSSI Impact Zones and Units



- Site Outline
- Search buffers in metres (m)
- SSSI Impact Risk Zones
- SSSI Units
- Not recorded
- Favourable
- Unfavourable - Recovering
- Unfavourable - No change
- Unfavourable - Declining
- Partially destroyed
- Destroyed

10.17 SSSI Impact Risk Zones

Records on site

3

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

Features are displayed on the SSSI Impact Zones and Units map on [page 76 >](#)

ID	Location	Type of developments requiring consultation
1	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0101000322302&notes=&location=375035,407942%20(IRZ%20polygon%20centre)
2	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0301000322300&notes=&location=374950,408429%20(IRZ%20polygon%20centre)



ID	Location	Type of developments requiring consultation
3	On site	https://irz.geodata.org.uk/IRZ/step2.html?irzcode=0301000500000&notes=&location=372937,411698%20(IRZ%20polygon%20centre)

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m	2
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Divisions of SSSIs used to record management and condition details. Units are the smallest areas for which Natural England gives a condition assessment, however, the size of units varies greatly depending on the types of management and the conservation interest.

Features are displayed on the SSSI Impact Zones and Units map on [page 76 >](#)

ID: -
 Location: 1965m S
 SSSI name: Nob End
 Unit name: 1
 Broad habitat: Calcareous Grassland - Lowland
 Condition: Unfavourable - Declining
 Reportable features:

Feature name	Feature condition	Date of assessment
Lowland calcareous grassland (CG2)	Unfavourable - Declining	27/06/2023
Lowland neutral grassland (MG5)	Unfavourable - Declining	27/06/2023

ID: -
 Location: 1979m S
 SSSI name: Ashclough
 Unit name: Westphalian Gcr
 Broad habitat: Earth Heritage
 Condition: Unfavourable - No change
 Reportable features:

Feature name	Feature condition	Date of assessment
EW - Westphalian	Unfavourable - No change	19/07/2011

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

Records within 250m

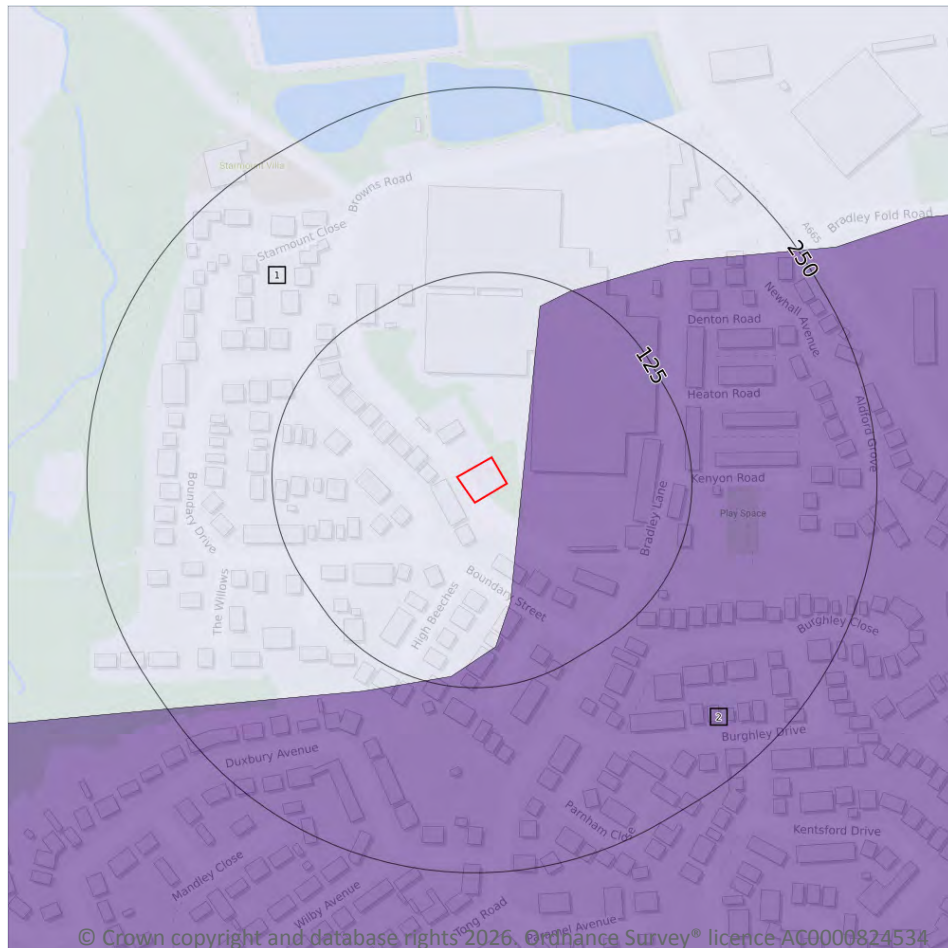
0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

2

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

Features are displayed on the Agricultural designations map on [page 80](#) >

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



ID	Location	Classification	Description
2	10m E	Urban	Non-agricultural/no quality assigned

This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.



13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

4

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 82 >](#)

ID	Location	Main Habitat	Other habitats
1	164m SW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	174m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	217m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	220m W	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

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

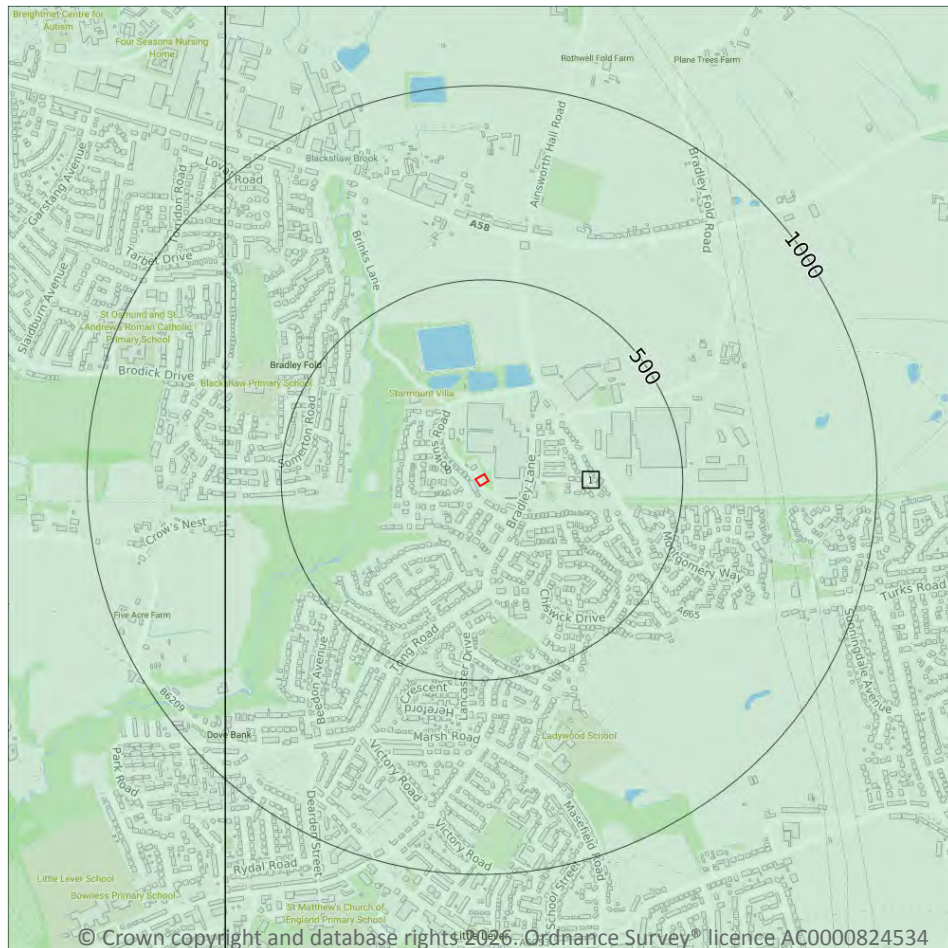
0

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

1

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

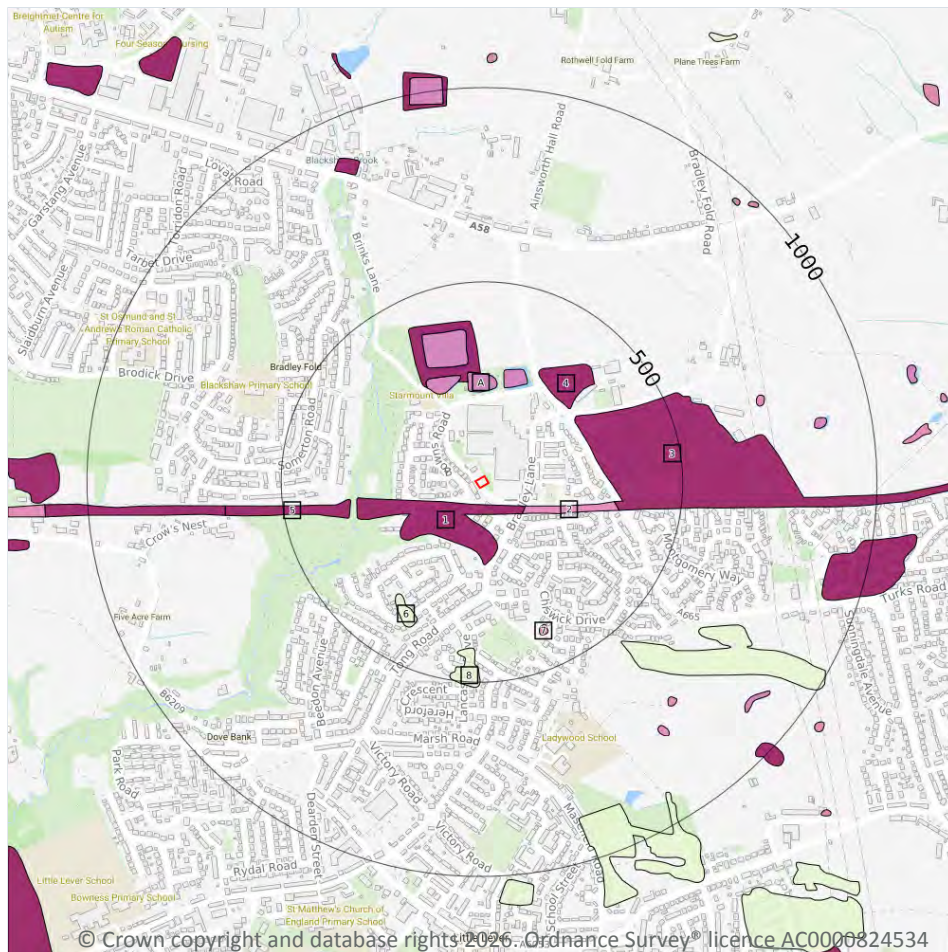
Features are displayed on the Geology 1:10,000 scale - Availability map on [page 84](#) >

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD70NE

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

13

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 85](#) >

ID	Location	LEX Code	Description	Rock description
1	43m S	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
2	112m SE	WGR-VOID	Worked Ground (Undivided)	Void
A	217m N	WGR-VOID	Worked Ground (Undivided)	Void
A	234m N	WGR-VOID	Worked Ground (Undivided)	Void

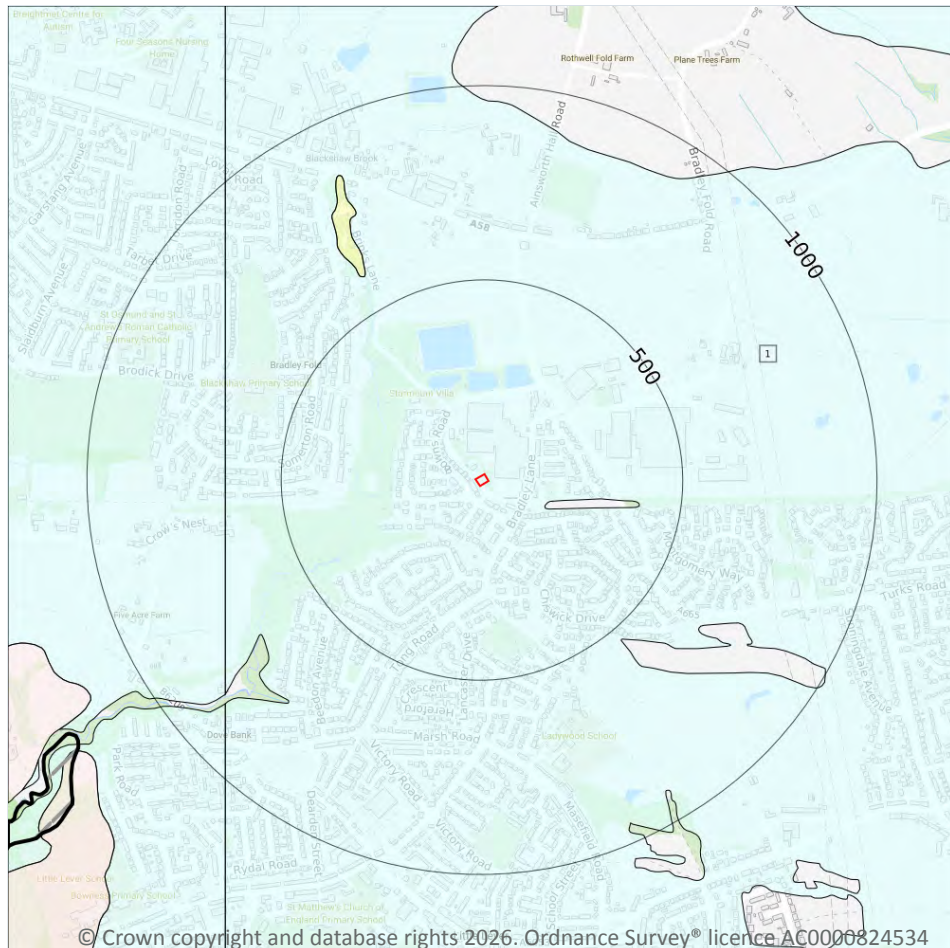


ID	Location	LEX Code	Description	Rock description
A	236m NW	WGR-VOID	Worked Ground (Undivided)	Void
A	246m N	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
3	271m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
4	273m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
A	291m N	WGR-VOID	Worked Ground (Undivided)	Void
5	325m W	MGR-ARTDP	Made Ground (Undivided)	Artificial deposit
6	341m SW	WMGR-ARTDP	Infilled Ground	Artificial deposit
7	388m SE	WGR-VOID	Worked Ground (Undivided)	Void
8	413m S	WMGR-ARTDP	Infilled Ground	Artificial deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on [page 87](#) >

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian-Diamicton	Diamicton

This data is sourced from the British Geological Survey.



14.4 Landslip (10k)

Records within 500m

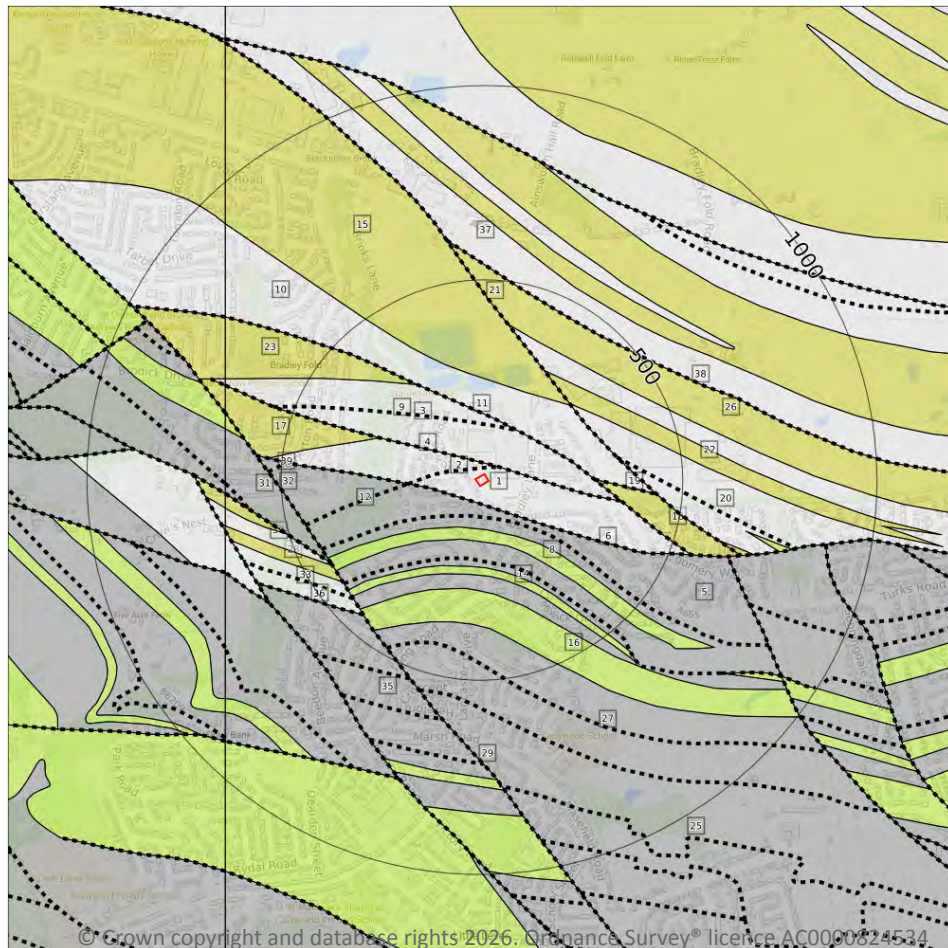
0

Mass movement deposits on BGS geological maps at 1:10,000 scale. Primarily superficial deposits that 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

21

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 89](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
3	27m N	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
5	44m S	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
8	111m S	PMCM-SDST	Pennine Middle Coal Measures Formation-Sandstone	Westphalian
10	139m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
14	209m S	PMCM-SDST	Pennine Middle Coal Measures Formation-Sandstone	Westphalian
15	233m N	CAR-SDST	Cannel Rock (South Lancashire)-Sandstone	Westphalian
16	266m S	PMCM-SDST	Pennine Middle Coal Measures Formation-Sandstone	Westphalian
17	269m NW	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
18	273m E	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
20	284m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
22	285m NE	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
23	286m NW	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
25	356m S	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
26	366m NE	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
28	429m SW	PLCM-SDST	Pennine Lower Coal Measures Formation-Sandstone	Westphalian
30	430m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
31	430m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
33	431m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
35	447m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian
37	457m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, Siltstone And Sandstone	Westphalian

This data is sourced from the British Geological Survey.



14.6 Bedrock faults and other linear features (10k)

Records within 500m

20

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.

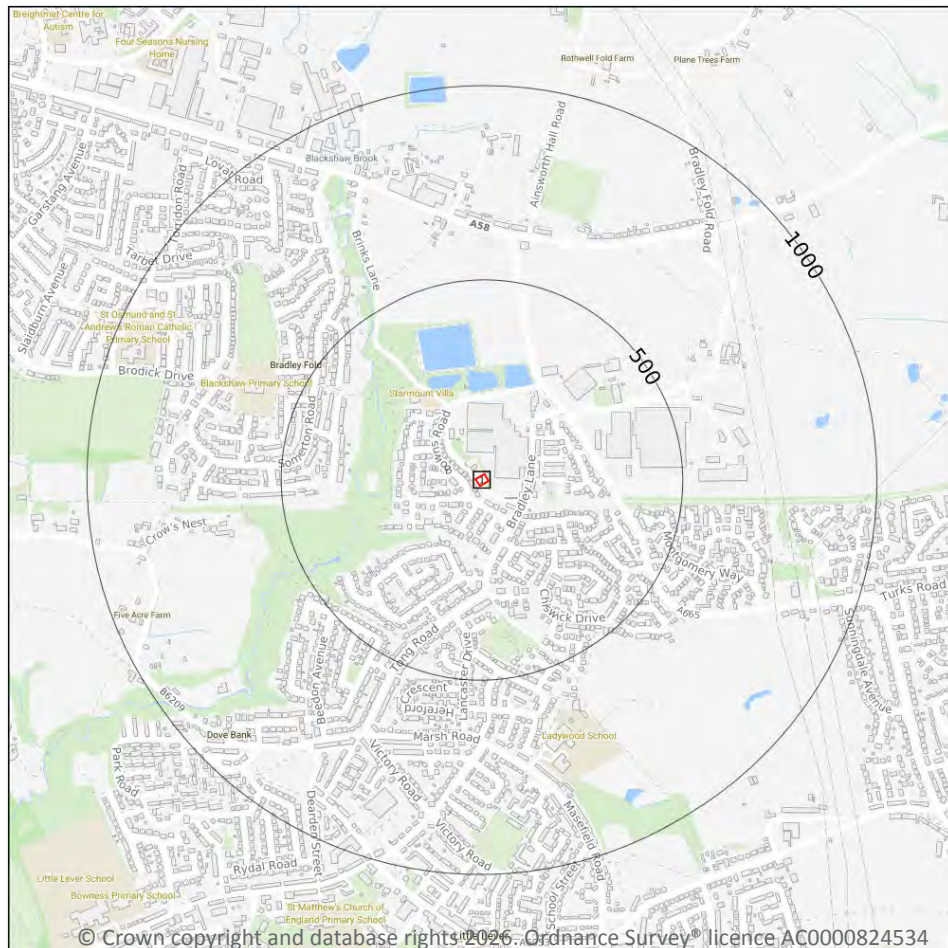
Features are displayed on the Geology 1:10,000 scale - Bedrock map on [page 89](#) >

ID	Location	Category	Description
2	16m N	ROCK	Coal seam, inferred
4	27m N	FAULT	Fault, inferred, displacement unknown
6	44m S	FAULT	Fault, inferred, displacement unknown
7	79m S	ROCK	Coal seam, inferred
9	127m N	ROCK	Coal seam, inferred
11	139m NE	FAULT	Fault, inferred, displacement unknown
12	174m W	ROCK	Coal seam, inferred
13	189m S	ROCK	Coal seam, inferred
19	273m E	ROCK	Coal seam, inferred
21	284m NE	FAULT	Fault, inferred, displacement unknown
24	336m E	ROCK	Coal seam, inferred
27	421m S	ROCK	Coal seam, inferred
29	429m SW	FAULT	Fault, inferred, displacement unknown
32	430m SW	FAULT	Fault, inferred, displacement unknown
A	430m SW	FAULT	Fault, inferred, displacement unknown
A	430m SW	MINERAL_VEIN	Mineral vein, inferred
34	437m SW	ROCK	Coal seam, inferred
36	447m SW	ROCK	Coal seam, inferred
38	457m NE	ROCK	Coal seam, inferred
39	487m W	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.

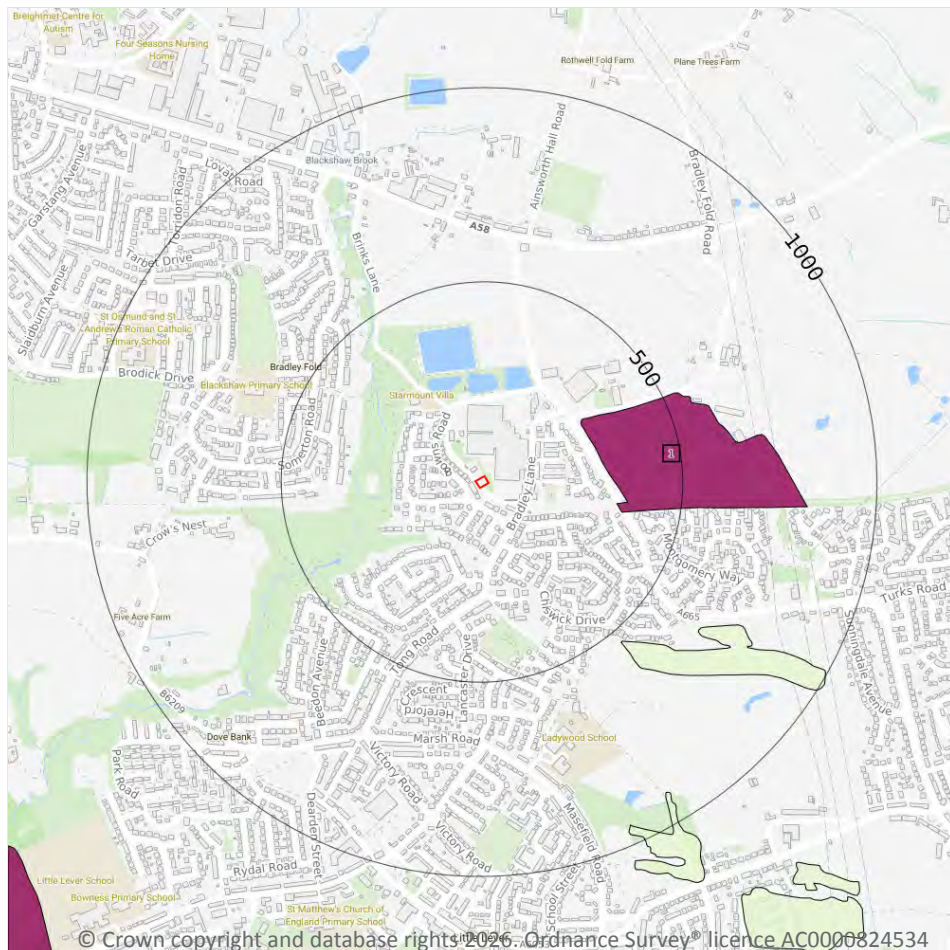
Features are displayed on the Geology 1:50,000 scale - Availability map on [page 92](#) >

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

This data is sourced from the British Geological Survey.



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



- Site Outline
- Search buffers in metres (m)
- Made ground
 - Worked ground
 - Infilled ground
 - Disturbed ground
 - Landscaped ground

15.2 Artificial and made ground (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on [page 93](#) >

ID	Location	LEX Code	Description	Rock description
1	281m NE	MGR-ARTDP	Made Ground	Artificial deposit

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

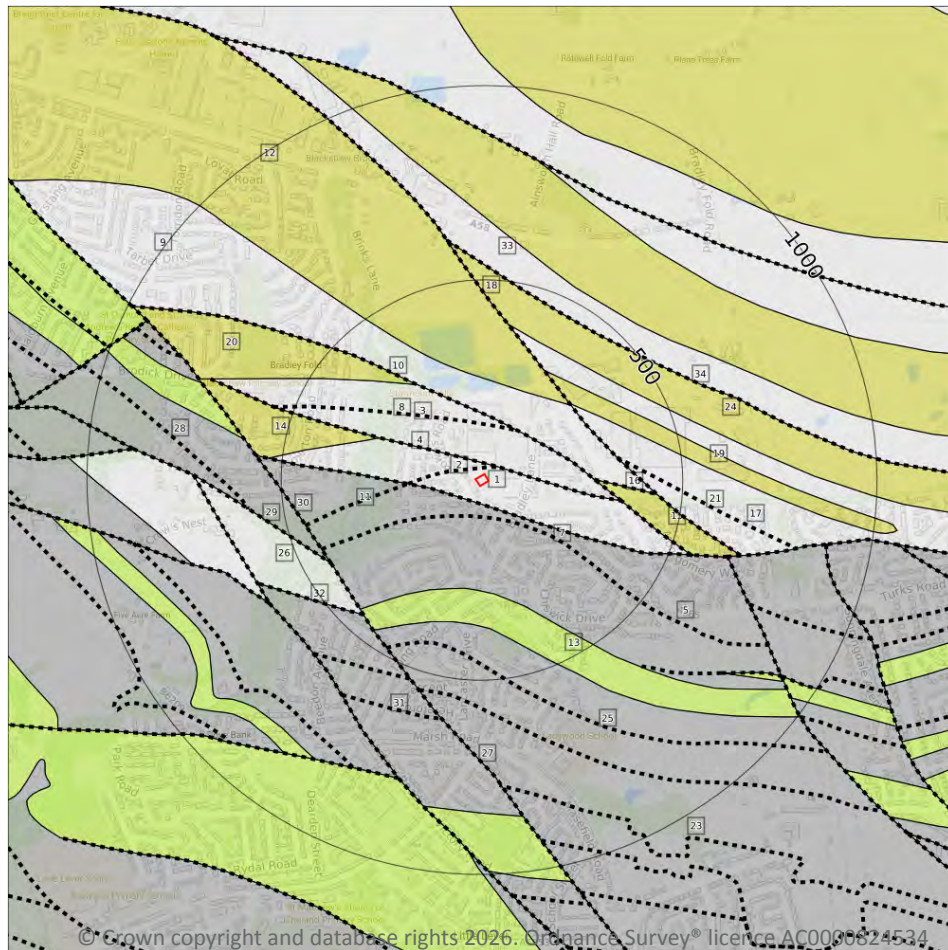
Records within 50m**0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (50k)

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

15.8 Bedrock geology (50k)

Records within 500m

17

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 97](#) >

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
3	27m N	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian

ID	Location	LEX Code	Description	Rock age
5	44m S	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
9	139m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
12	234m N	CAR-SDST	Cannel Rock (South Lancashire)-Sandstone	Westphalian
13	266m S	PMCM-SDST	Pennine Middle Coal Measures Formation-Sandstone	Westphalian
14	269m NW	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
15	273m E	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
17	285m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
19	285m NE	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
20	285m NW	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
23	356m S	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
24	366m NE	TRBR-SDST	Trencherbone Rock-Sandstone	Westphalian
26	429m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
28	430m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
31	447m SW	PMCM-MDSS	Pennine Middle Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian
33	457m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation-Mudstone, siltstone and sandstone	Westphalian

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m

2

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	Moderate	Low
44m S	Fracture	Moderate	Low



This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

17

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.

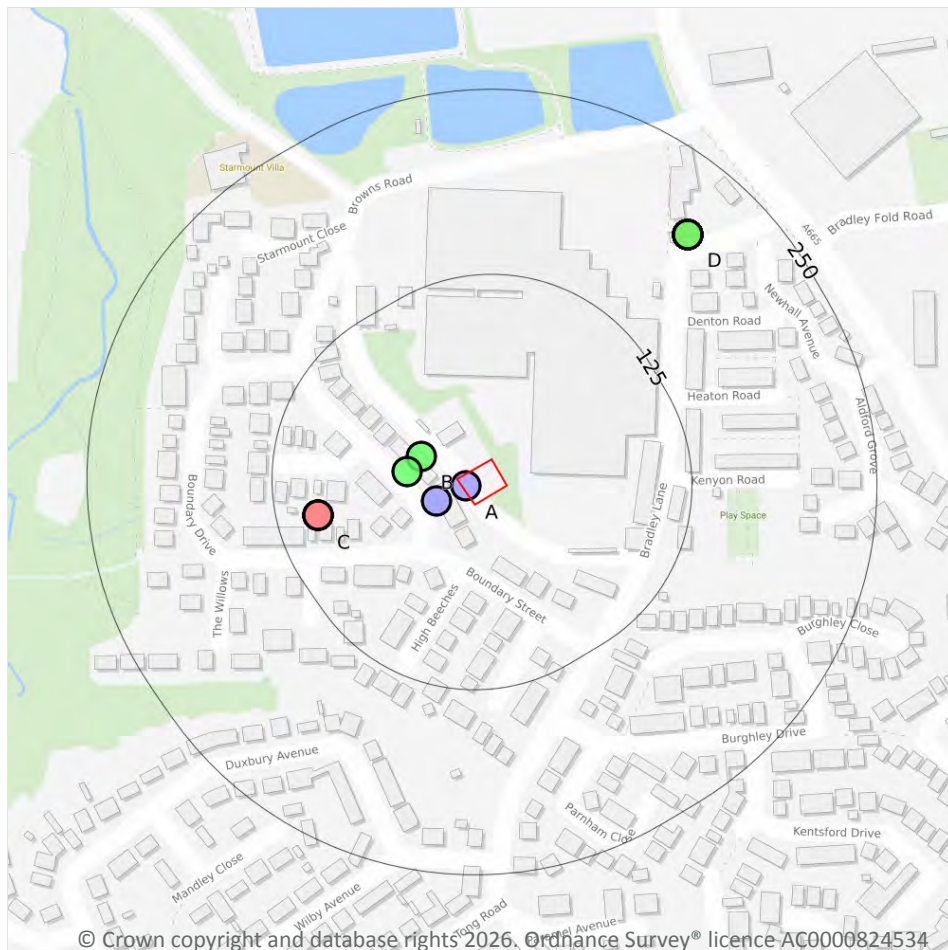
Features are displayed on the Geology 1:50,000 scale - Bedrock map on [page 97 >](#)

ID	Location	Category	Description
2	17m N	ROCK	Coal seam, inferred
4	27m N	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
6	44m S	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
7	79m S	ROCK	Coal seam, inferred
8	127m N	ROCK	Coal seam, inferred
10	139m NE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
11	173m W	ROCK	Coal seam, inferred
16	273m E	ROCK	Coal seam, inferred
18	285m NE	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
21	336m E	ROCK	Coal seam, inferred
22	346m E	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
25	421m S	ROCK	Coal seam, inferred
27	430m SW	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
29	430m SW	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
30	430m SW	FAULT	Fault, inferred, crossmark on downthrow side, throw in metres
32	447m SW	ROCK	Coal seam, inferred
34	457m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

34

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 100](#) >

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	On site	375650 408430	BRADLEY FOLD RADCLIFFE 3	5.0	N	15573861 ↗
A	20m SW	375630 408420	BRADLEY FOLD RADCLIFFE 4	5.0	N	15573863 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	28m NW	375620 408450	BRADLEY FOLD RADCLIFFE 2	12.8	N	15573859 ↗
B	34m W	375610 408440	BRADLEY FOLD RADCLIFFE 1	12.0	N	15573854 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 1	40.0	N	18525 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 2	35.0	N	18526 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 3	53.0	N	18527 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 4	53.0	N	18528 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 5	48.0	N	18529 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 6	46.0	N	18530 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 7	42.0	N	18531 ↗
C	97m W	375550 408410	BRADLEY FOLD SITE. 8	44.0	N	18532 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.1	2.0	N	18494 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.2	2.0	N	18495 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.3	2.0	N	18496 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.4	2.0	N	18497 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.5	3.0	N	18498 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.6	3.0	N	18499 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.7	2.0	N	18500 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.8	4.0	N	18501 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.9	2.0	N	18502 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.10	2.0	N	18503 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. TP.11	3.0	N	18504 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. A	11.0	N	18505 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. B	12.0	N	18506 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. C	6.0	N	18507 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 1	30.0	N	18508 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 2	30.0	N	18509 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 3	30.0	N	18510 ↗



ID	Location	Grid reference	Name	Length	Confidential	Web link
D	202m NE	375800 408600	PROP GARDENSTORE. 4	30.0	N	18511 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 5	30.0	N	18512 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 2I	15.0	N	18513 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 2II	36.0	N	18514 ↗
D	202m NE	375800 408600	PROP GARDENSTORE. 75	18.0	N	18515 ↗

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).

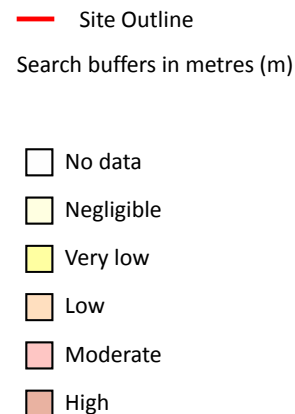
Features are displayed on the Natural ground subsidence - Shrink swell clays map on [page 103 >](#)

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



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.

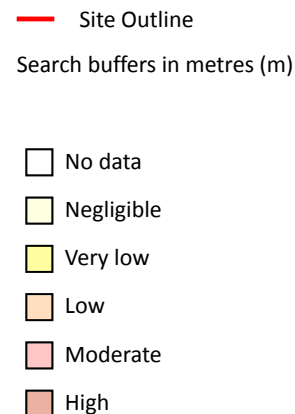
Features are displayed on the Natural ground subsidence - Running sands map on [page 104 >](#)

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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 105](#) >

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.

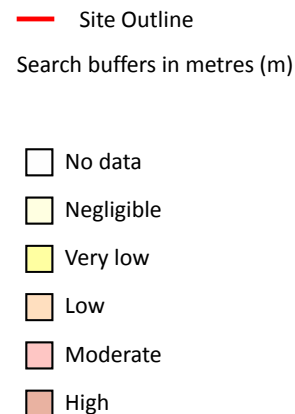
Features are displayed on the Natural ground subsidence - Collapsible deposits map on [page 106 >](#)

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



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.

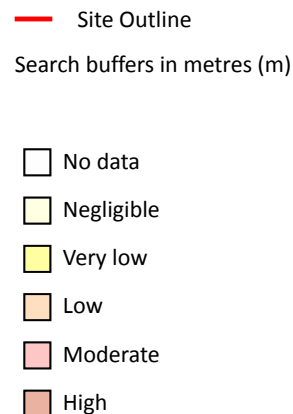
Features are displayed on the Natural ground subsidence - Landslides map on [page 107](#) >

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

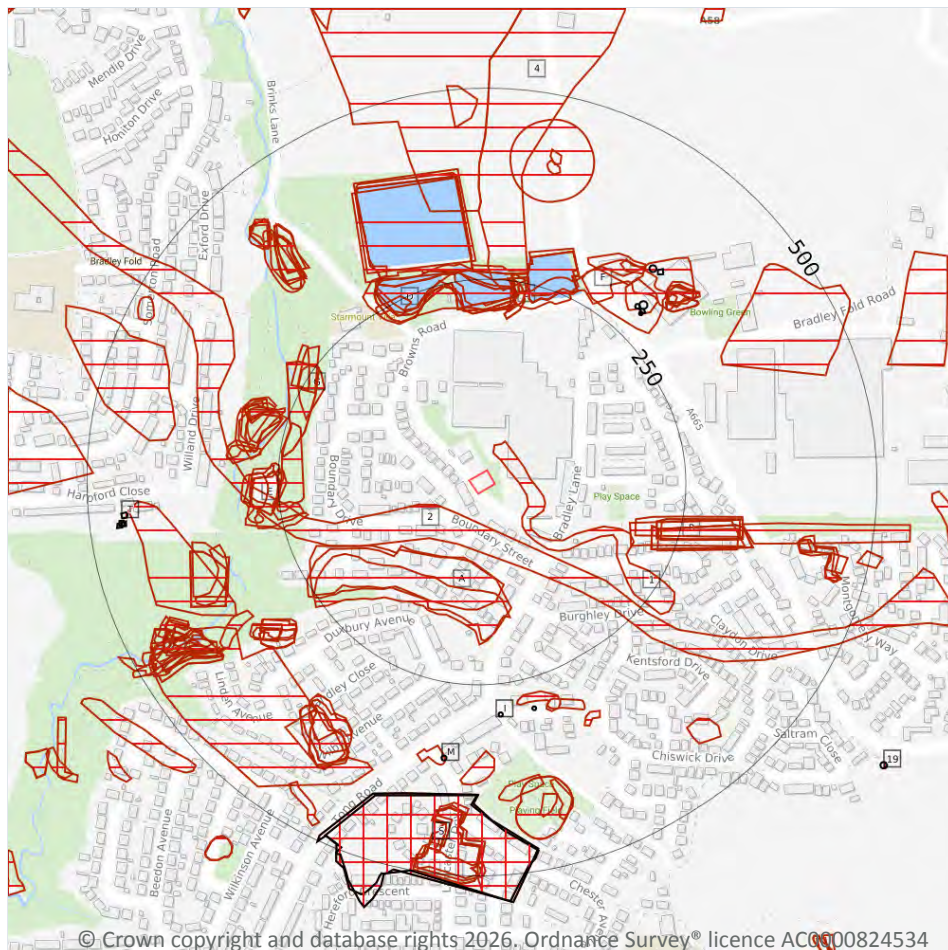
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on [page 108](#) >

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

This data is sourced from the British Geological Survey.



18 Mining and ground workings



- Site Outline
- Search buffers in metres (m)
- BritPits
- Surface ground workings
- Underground workings
- Underground mining extents
- Historical mineral planning areas
- TCA non-coal mining
- Non Coal Mining
 - Sporadic underground mining of restricted extent possible
 - Localised small scale underground mining possible
 - Small scale mining possible
 - Underground mining known or likely within or in close proximity
 - Underground mining known within or in very close proximity

18.1 BritPits

Records within 500m

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.

18.2 Surface ground workings

Records within 250m

40

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

Features are displayed on the Mining and ground workings map on [page 110](#) >

ID	Location	Land Use	Year of mapping	Mapping scale
1	22m NE	Unspecified Ground Workings	1890	1:10560
2	35m SW	Canal	1890	1:10560
A	85m S	Refuse Heap	1955	1:10560
A	89m S	Refuse Heap	1965	1:10560
A	123m SW	Pumping Pit	1908	1:10560
B	184m E	Cuttings	1850	1:10560
B	190m E	Cuttings	1965	1:10560
C	200m N	Unspecified Heap	1938	1:10560
C	200m N	Unspecified Heap	1927	1:10560
D	206m N	Ponds	1938	1:10560
D	206m N	Ponds	1927	1:10560
D	206m N	Ponds	1908	1:10560
D	209m N	Reservoirs	1890	1:10560
C	210m N	Unspecified Ground Workings	1955	1:10560
D	210m N	Reservoirs	1991	1:10000
D	210m N	Reservoirs	1977	1:10000
D	210m N	Reservoirs	1988	1:10000
B	213m E	Cuttings	1938	1:10560
B	213m E	Cuttings	1908	1:10560
B	213m E	Cuttings	1890	1:10560
D	216m N	Ponds	1965	1:10560
E	216m W	Ponds	1908	1:10560
E	217m W	Unspecified Heap	1977	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
D	217m N	Ponds	1955	1:10560
B	218m E	Cuttings	1977	1:10000
B	218m E	Cuttings	1988	1:10000
F	219m N	Ponds	1850	1:10560
E	220m W	Ponds	1890	1:10560
B	223m E	Cuttings	1927	1:10560
B	224m E	Cuttings	1955	1:10560
G	224m NW	Unspecified Heap	1955	1:10560
G	224m W	Unspecified Heap	1938	1:10560
G	224m W	Unspecified Heap	1927	1:10560
3	232m NW	Pond	1850	1:10560
G	232m NW	Reservoir	1908	1:10560
4	236m N	Colliery	1890	1:10560
G	241m NW	Reservoir	1890	1:10560
E	245m W	Settling Tanks	1955	1:10560
E	248m W	Settling Tanks	1938	1:10560
E	248m W	Settling Tanks	1927	1:10560

This data is sourced from Ordnance Survey®/Groundsure.

18.3 Underground workings

Records within 1000m

37

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

Features are displayed on the Mining and ground workings map on [page 110 >](#)

ID	Location	Land Use	Year of mapping	Mapping scale
F	285m NE	Unspecified Old Shaft	1927	1:10560
I	288m S	Old Air Shafts	1908	1:10560
I	288m S	Old Air Shafts	1908	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
F	288m NE	Unspecified Old Shafts	1908	1:10560
F	288m NE	Unspecified Old Shafts	1890	1:10560
F	293m NE	Unspecified Disused Shaft	1977	1:10000
F	337m NE	Unspecified Old Shafts	1890	1:10560
F	340m NE	Unspecified Old Shafts	1908	1:10560
M	345m S	Unspecified Old Shaft	1908	1:10560
S	394m S	Colliery	1891	1:10560
S	394m S	Disused Collieries	1908	1:10560
T	449m W	Unspecified Old Shaft	1955	1:10560
T	452m W	Unspecified Old Shaft	1908	1:10560
T	454m W	Unspecified Old Shaft	1938	1:10560
T	458m W	Unspecified Old Shaft	1927	1:10560
19	624m SE	Unspecified Disused Shaft	1977	1:10000
-	647m N	Unspecified Old Shaft	1908	1:10560
-	649m N	Unspecified Old Shaft	1890	1:10560
-	675m W	Unspecified Old Shaft	1908	1:10560
-	720m W	Unspecified Old Shaft	1938	1:10560
-	722m W	Unspecified Old Shaft	1927	1:10560
-	728m W	Air Shaft	1938	1:10560
-	728m W	Air Shaft	1908	1:10560
-	731m W	Air Shaft	1927	1:10560
-	762m W	Colliery	1890	1:10560
-	829m E	Collieries	1938	1:10560
-	829m E	Collieries	1927	1:10560
-	832m E	Collieries	1955	1:10560
-	871m W	Colliery	1890	1:10560
-	924m E	Unspecified Shaft	1938	1:10560
-	938m E	Unspecified Shaft	1955	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
-	940m E	Unspecified Disused Shafts	1965	1:10560
-	941m E	Unspecified Disused Shafts	1977	1:10000
-	945m E	Unspecified Old Shaft	1890	1:10560
-	952m E	Unspecified Old Shaft	1908	1:10560
-	985m E	Unspecified Disused Shafts	1977	1:10000
-	985m E	Unspecified Disused Shafts	1965	1:10560

This data is sourced from Ordnance Survey®/Groundsure.

18.4 Underground mining extents

Records within 500m

0

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

This data is sourced from Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

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 JPB mining areas

Records on site

1

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

Location	Details
On site	In addition to being located inside an area where The Coal Authority have information on coal mining activities, Johnson Poole & Bloomer (JPB) have information such as mining plans and maps held within their archive of mining activities that have occurred within 1km of this property which may supplement this information. Please note, the plans held by JPB may also relate to non-mining records. Further details and a quote for services (if appropriate) can be obtained by emailing this report to enquiries.gs@jpb.co.uk ↗.

This data is sourced from Johnson Poole and Bloomer.

18.8 The Coal Authority non-coal mining

Records within 500m

0

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

This data is sourced from The Coal Authority.

18.9 Researched mining

Records within 500m

1

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

Location	Mineral type
112m SE	Unspecified

This data is sourced from Groundsure.



18.10 Mining record office plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.11 BGS mine plans

Records within 500m

0

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

This data is sourced from Groundsure.

18.12 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.

18.13 Brine areas

Records on site

0

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

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

18.14 Gypsum areas

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

This data is sourced from British Gypsum.

18.15 Tin mining

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

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.

18.16 Clay mining

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

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

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

19 Ground cavities and sinkholes

19.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

19.2 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

19.3 Reported recent incidents

Records within 500m

0

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

This data is sourced from Groundsure.

19.4 Historical incidents

Records within 500m

0

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

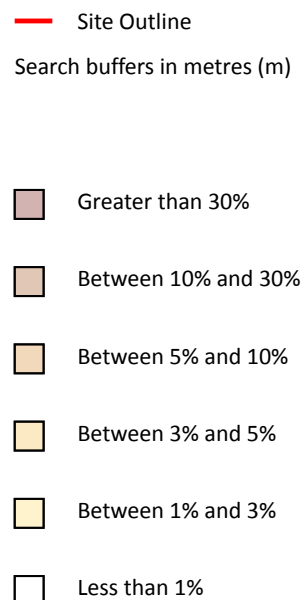
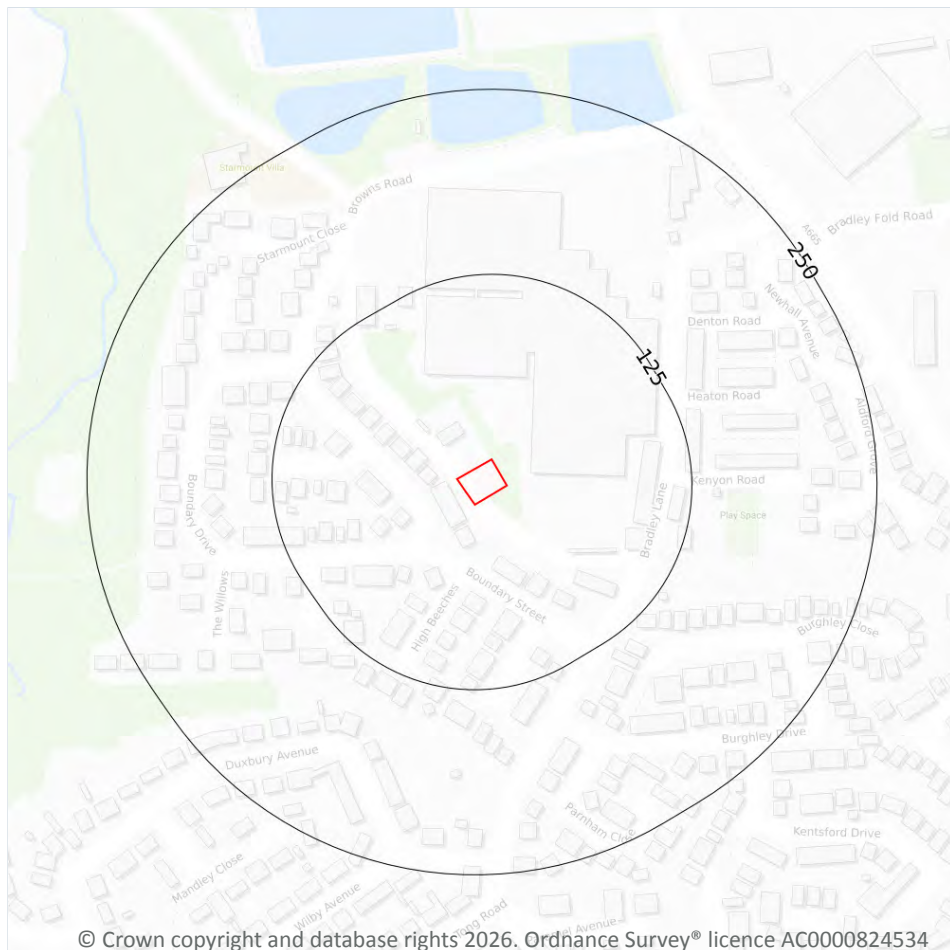
Not all 'holes' noted on Ordnance Survey® mapping will necessarily be present within this dataset.



This data is sourced from Groundsure.



20 Radon



20.1 Radon

Records on site

1

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

Features are displayed on the Radon map on [page 120](#) >

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



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



21 Soil chemistry

21.1 BGS Estimated Background Soil Chemistry

Records within 50m

2

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
On site	15 - 25 mg/kg	No data	300 - 600 mg/kg	240 - 360 mg/kg	2.2 - 3.0 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

21.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

21.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



22 Railway infrastructure and projects



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

22.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

22.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

22.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey® mapping.

This data is sourced from the Ordnance Survey®.

22.4 Historical railway and tunnel features

Records within 250m

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 123](#) >

Location	Land Use	Year of mapping	Mapping scale
36m S	Railway Sidings	1965	10560
40m S	Railway Sidings	1955	10560
40m S	Railway Sidings	1955	2500
48m S	Railway Sidings	1938	10560
49m S	Railway Sidings	1927	10560
49m S	Railway Sidings	1908	10560
52m S	Railway Sidings	1910	2500
54m S	Railway Sidings	1955	1250
55m S	Railway Sidings	1937	2500
56m S	Railway Sidings	1890	2500
57m SE	Railway Sidings	1967	1250
57m SE	Railway Sidings	1955	1250
66m S	Railway Sidings	1930	2500
162m SW	Railway Sidings	1955	1250
191m S	Railway Sidings	1850	10560

This data is sourced from Ordnance Survey®/Groundsure.



22.5 Royal Mail tunnels

Records within 250m**0**

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

This data is sourced from Groundsure/the Postal Museum.

22.6 Historical railways

Records within 250m**5**

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 123 >](#)

Location	Description
44m S	Historical OSM
45m S	Razed
102m SE	Abandoned
107m SE	Historical OSM
224m W	Abandoned

This data is sourced from OpenStreetMap.

22.7 Railways

Records within 250m**0**

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

This data is sourced from Ordnance Survey® and OpenStreetMap.

22.8 Crossrail 2

Records within 500m**0**

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

This data is sourced from publicly available information by Groundsure.



22.9 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

Terms and conditions

Groundsure's Terms and Conditions can be accessed at this link: www.groundsure.com/terms-and-conditions-april-2023/ ↗.



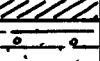
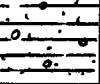
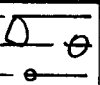
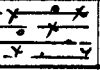
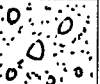
23

BOREHOLE RECORD

Contract No. 12894/91 Client PERSIMMON HOMES LIMITED

Ground Level _____ Location BRADLEY FOLD - RADCLIFFE

BOREHOLE No. 3 Date MAY 1991

Depth	Thick- ness	Legend	Description of Strata	Type of Sample	C kN/m ²	M %	Ø	Density kg/m ³	N
0.100	0.100		Topsoil						
1.400	1.300		Mottled sandy clay with gravel	1.000 U	111.3			1980	
2.200	0.600		Brown boulder clay	2.000 U	63.0			1980	
3.400	1.200		Sand and gravel	3.000 P					8
4.100	0.700		Grey silty clay with gravel						
5.000	0.900		Sand and gravel	4.500					23

Water Struck at 2.200m Standing Water Level

Undisturbed Sample	U
Disturbed Sample	O
Penetration Test	P
Cohesion	C
Angle of Internal Friction	ϕ
Moisture Content %	M
Standard Penetration Value	N

J. T. HYMAS (Site Investigation) LTD.

12 YARM ROAD, STOCKTON-ON-TEES

CLEVELAND TS18 3NE

Tel. 0642 607083 Fax. 0642 616600



Peter Moss

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Tel : (0977) 797041.

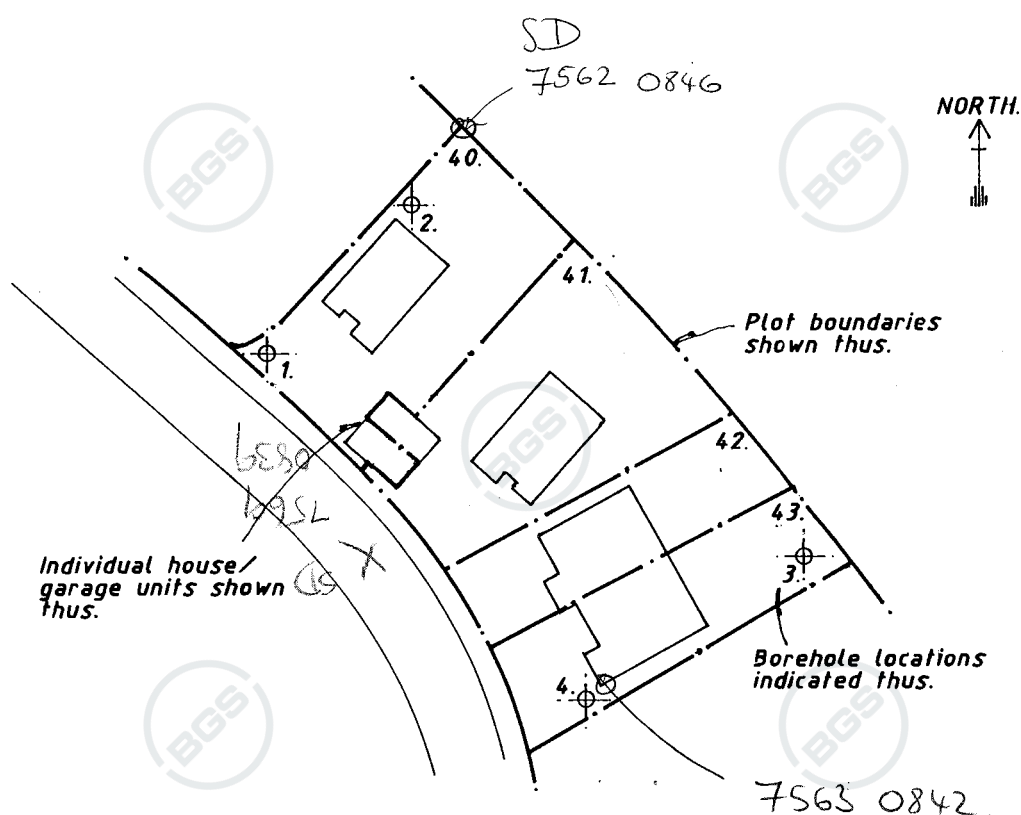
Sheet n°. Sk01.

Prepared
by. D.J.C.

Date APR. 91.

Title of Scheme RESIDENTIAL DEVELOPMENT. - RADCLIFFE - PERSIMMON HOMES

Job n°. 0123



PART PLAN OF DEVELOPMENT.



12

BOREHOLE RECORD

Contract No. 12894/91 Client PERSIMMON HOMES LIMITED
Ground Level Location BRADLEY FOLD - RADCLIFFE
BOREHOLE No. 2 Date MAY 1991

Depth	Thick- ness	Legend	Description of Strata	Type of Sample	C kN/m ²	M %	Ø	Density kg/m ³	N
2.700	2.700		Silty peat (disturbed to 1.400m)	2.000 P	(for 450mm penetration)				1
4.600	1.900		Blue/Grey silty clay with gravel	4.000 P					11
5.700	1.100		Grey/brown boulder clay	5.000 P					14
7.000	1.300		Grey silty sand with bands of laminated clay	6.500 P					8
8.900	1.700		Brown sand	7.500 P					5
12.800	2.900		Brown/grey boulder clay	9.000 P 10.500 P 12.300 P					22 37 39

Water Struck at Standing Water Level

Undisturbed Sample
Disturbed Sample
Penetration Test
Cohesion
Angle of Internal Friction
Moisture Content %
Standard Penetration Value

U
O
P
C
Ø
M
N

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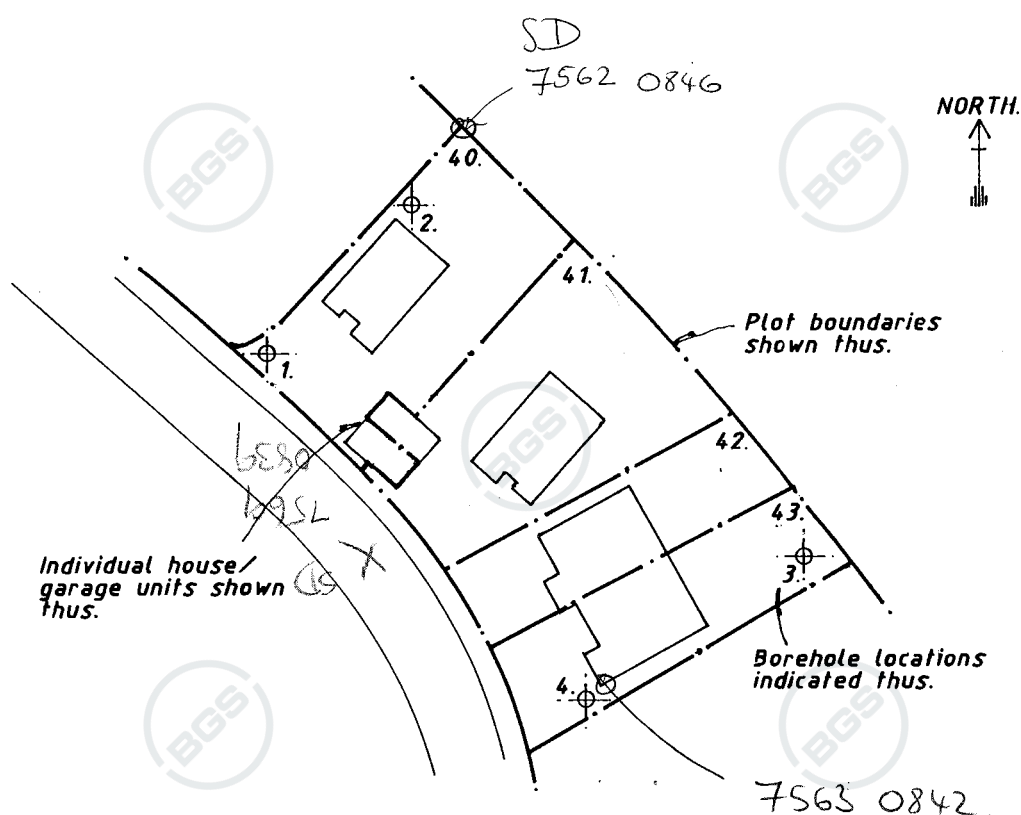
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PART PLAN OF DEVELOPMENT.