

WATERFOLD LANE, HEYWOOD, BL9 7JY

Order Details

Date: 22/10/2021
Your ref: A4301
Our Ref: GS-8283116
Client: Earth Environmental & Geotechnical Ltd

Site Details

Location: 382109 410331
Area: 1.11 ha
Authority: [Rochdale Metropolitan Borough Council](#)



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Summary of findings

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Aerial image

p. 8

OS MasterMap site plan

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Contact us with any questions at:

info@groundsure.com

08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	9	0	19	44	-
16	1.2	Historical tanks	0	2	21	37	-
19	1.3	Historical energy features	0	0	0	3	-
19	1.4	Historical petrol stations	0	0	0	0	-
19	1.5	Historical garages	0	0	0	5	-
20	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
21	2.1	Historical industrial land uses	12	0	25	60	-
25	2.2	Historical tanks	0	5	37	58	-
29	2.3	Historical energy features	0	0	0	4	-
29	2.4	Historical petrol stations	0	0	0	0	-
30	2.5	Historical garages	0	0	0	12	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
31	3.1	Active or recent landfill	0	0	0	1	-
32	3.2	Historical landfill (BGS records)	0	0	0	0	-
32	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
32	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
32	3.5	Historical waste sites	0	0	0	0	-
32	3.6	Licensed waste sites	0	0	0	0	-
33	3.7	Waste exemptions	0	0	1	23	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
35	4.1	Recent industrial land uses	0	0	13	-	-
36	4.2	Current or recent petrol stations	0	0	0	2	-
37	4.3	Electricity cables	0	0	0	0	-
37	4.4	Gas pipelines	0	0	0	0	-
37	4.5	Sites determined as Contaminated Land	0	0	0	0	-



37	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	0	1	-
38	4.7	Regulated explosive sites	0	0	0	0	-
38	4.8	Hazardous substance storage/usage	0	0	0	0	-
38	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
38	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
38	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	0	2	-
39	4.12	Radioactive Substance Authorisations	0	0	0	0	-
39	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	6	6	-
41	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
41	4.15	Pollutant release to public sewer	0	0	0	0	-
41	4.16	List 1 Dangerous Substances	0	0	0	0	-
42	4.17	List 2 Dangerous Substances	0	0	0	0	-
42	4.18	<u>Pollution Incidents (EA/NRW)</u>	0	1	41	9	-
47	4.19	Pollution inventory substances	0	0	0	0	-
47	4.20	Pollution inventory waste transfers	0	0	0	0	-
48	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
49	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
51	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
53	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
54	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
54	5.5	Groundwater vulnerability- local information	None (within 0m)				
55	5.6	<u>Groundwater abstractions</u>	0	0	4	0	7
58	5.7	<u>Surface water abstractions</u>	0	0	0	1	6
60	5.8	<u>Potable abstractions</u>	0	0	0	0	2
61	5.9	Source Protection Zones	0	0	0	0	-
61	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
62	6.1	<u>Water Network (OS MasterMap)</u>	0	5	6	-	-



63	<u>6.2</u>	<u>Surface water features</u>	1	3	6	-	-
64	<u>6.3</u>	<u>WFD Surface water body catchments</u>	1	-	-	-	-
64	<u>6.4</u>	<u>WFD Surface water bodies</u>	0	1	0	-	-
65	<u>6.5</u>	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
66	<u>7.1</u>	<u>Risk of flooding from rivers and the sea</u>	High (within 50m)				
67	<u>7.2</u>	<u>Historical Flood Events</u>	0	1	0	-	-
67	7.3	Flood Defences	0	0	0	-	-
67	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
68	7.5	Flood Storage Areas	0	0	0	-	-
69	<u>7.6</u>	<u>Flood Zone 2</u>	Identified (within 50m)				
70	<u>7.7</u>	<u>Flood Zone 3</u>	Identified (within 50m)				
Page	Section	Surface water flooding					
71	<u>8.1</u>	<u>Surface water flooding</u>	1 in 30 year, Greater than 1.0m (within 50m)				
Page	Section	Groundwater flooding					
73	<u>9.1</u>	<u>Groundwater flooding</u>	Moderate (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
74	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
75	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
75	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
75	10.4	Special Protection Areas (SPA)	0	0	0	0	0
75	10.5	National Nature Reserves (NNR)	0	0	0	0	0
76	<u>10.6</u>	<u>Local Nature Reserves (LNR)</u>	0	0	0	0	2
76	10.7	Designated Ancient Woodland	0	0	0	0	0
76	10.8	Biosphere Reserves	0	0	0	0	0
76	10.9	Forest Parks	0	0	0	0	0
77	10.10	Marine Conservation Zones	0	0	0	0	0
77	<u>10.11</u>	<u>Green Belt</u>	1	1	0	0	3
77	10.12	Proposed Ramsar sites	0	0	0	0	0

77	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
78	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
78	10.15	Nitrate Sensitive Areas	0	0	0	0	0
78	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
79	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
80	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
81	11.1	World Heritage Sites	0	0	0	-	-
81	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
81	11.3	National Parks	0	0	0	-	-
81	11.4	Listed Buildings	0	0	0	-	-
82	11.5	Conservation Areas	0	0	0	-	-
82	11.6	Scheduled Ancient Monuments	0	0	0	-	-
82	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
83	<u>12.1</u>	<u>Agricultural Land Classification</u>	Urban (within 250m)				
84	12.2	Open Access Land	0	0	0	-	-
84	<u>12.3</u>	<u>Tree Felling Licences</u>	3	8	10	-	-
85	12.4	Environmental Stewardship Schemes	0	0	0	-	-
85	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
86	<u>13.1</u>	<u>Priority Habitat Inventory</u>	0	0	7	-	-
87	<u>13.2</u>	<u>Habitat Networks</u>	0	0	1	-	-
87	<u>13.3</u>	<u>Open Mosaic Habitat</u>	0	0	1	-	-
88	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
89	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
90	<u>14.2</u>	<u>Artificial and made ground (10k)</u>	1	1	5	12	-
92	<u>14.3</u>	<u>Superficial geology (10k)</u>	2	0	8	1	-

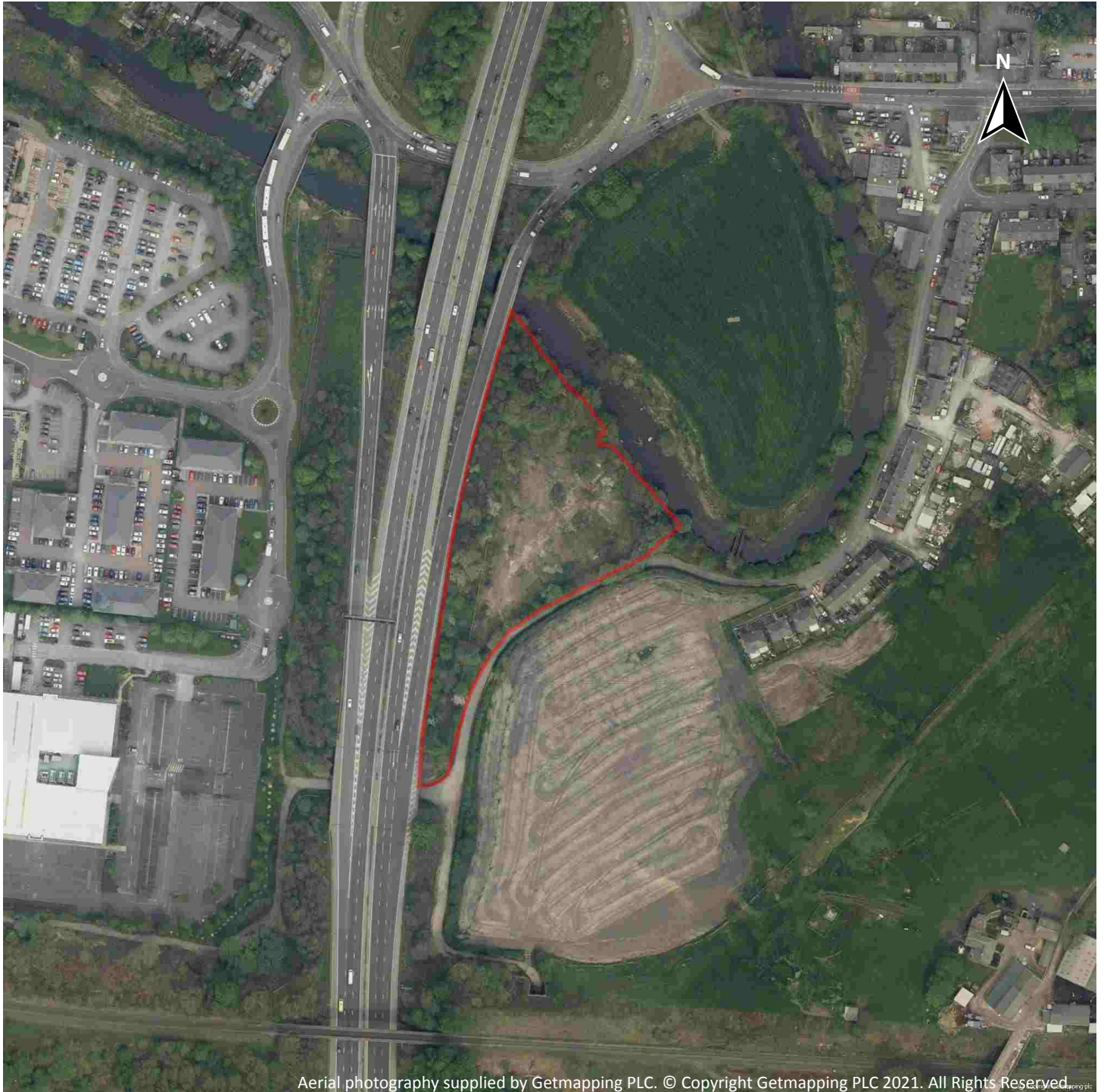


<u>93</u>	<u>14.4</u>	<u>Landslip (10k)</u>	0	0	0	1	-
<u>94</u>	<u>14.5</u>	<u>Bedrock geology (10k)</u>	1	0	13	11	-
<u>96</u>	<u>14.6</u>	<u>Bedrock faults and other linear features (10k)</u>	0	0	1	3	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
<u>97</u>	<u>15.1</u>	<u>50k Availability</u>	Identified (within 500m)				
<u>98</u>	<u>15.2</u>	<u>Artificial and made ground (50k)</u>	0	0	0	1	-
99	15.3	Artificial ground permeability (50k)	0	0	-	-	-
<u>100</u>	<u>15.4</u>	<u>Superficial geology (50k)</u>	2	0	4	0	-
<u>101</u>	<u>15.5</u>	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
<u>101</u>	<u>15.6</u>	<u>Landslip (50k)</u>	0	0	0	1	-
102	15.7	Landslip permeability (50k)	None (within 50m)				
<u>103</u>	<u>15.8</u>	<u>Bedrock geology (50k)</u>	1	0	8	7	-
<u>104</u>	<u>15.9</u>	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
<u>105</u>	<u>15.10</u>	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	2	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
<u>106</u>	<u>16.1</u>	<u>BGS Boreholes</u>	0	4	10	-	-
Page	Section	Natural ground subsidence					
<u>108</u>	<u>17.1</u>	<u>Shrink swell clays</u>	Very low (within 50m)				
<u>109</u>	<u>17.2</u>	<u>Running sands</u>	Low (within 50m)				
<u>111</u>	<u>17.3</u>	<u>Compressible deposits</u>	Moderate (within 50m)				
<u>113</u>	<u>17.4</u>	<u>Collapsible deposits</u>	Very low (within 50m)				
<u>114</u>	<u>17.5</u>	<u>Landslides</u>	Low (within 50m)				
<u>116</u>	<u>17.6</u>	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
118	18.1	Natural cavities	0	0	0	0	-
<u>119</u>	<u>18.2</u>	<u>BritPits</u>	0	0	0	1	-
<u>119</u>	<u>18.3</u>	<u>Surface ground workings</u>	9	0	12	-	-
120	18.4	Underground workings	0	0	0	0	0
120	18.5	Historical Mineral Planning Areas	0	0	0	0	-



121	18.6	Non-coal mining	0	0	0	0	0
121	18.7	Mining cavities	0	0	0	0	0
121	18.8	JPB mining areas	None (within 0m)				
121	18.9	<u>Coal mining</u>	Identified (within 0m)				
122	18.10	Brine areas	None (within 0m)				
122	18.11	Gypsum areas	None (within 0m)				
122	18.12	Tin mining	None (within 0m)				
122	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
123	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
124	20.1	<u>BGS Estimated Background Soil Chemistry</u>	2	2	-	-	-
124	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
125	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
126	21.1	Underground railways (London)	0	0	0	-	-
126	21.2	Underground railways (Non-London)	0	0	0	-	-
127	21.3	Railway tunnels	0	0	0	-	-
127	21.4	<u>Historical railway and tunnel features</u>	0	0	21	-	-
128	21.5	Royal Mail tunnels	0	0	0	-	-
128	21.6	<u>Historical railways</u>	0	0	1	-	-
128	21.7	<u>Railways</u>	0	0	9	-	-
129	21.8	Crossrail 1	0	0	0	0	-
129	21.9	Crossrail 2	0	0	0	0	-
129	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 23/05/2019

Site Area: 1.11ha



Recent site history - 2011 aerial photograph



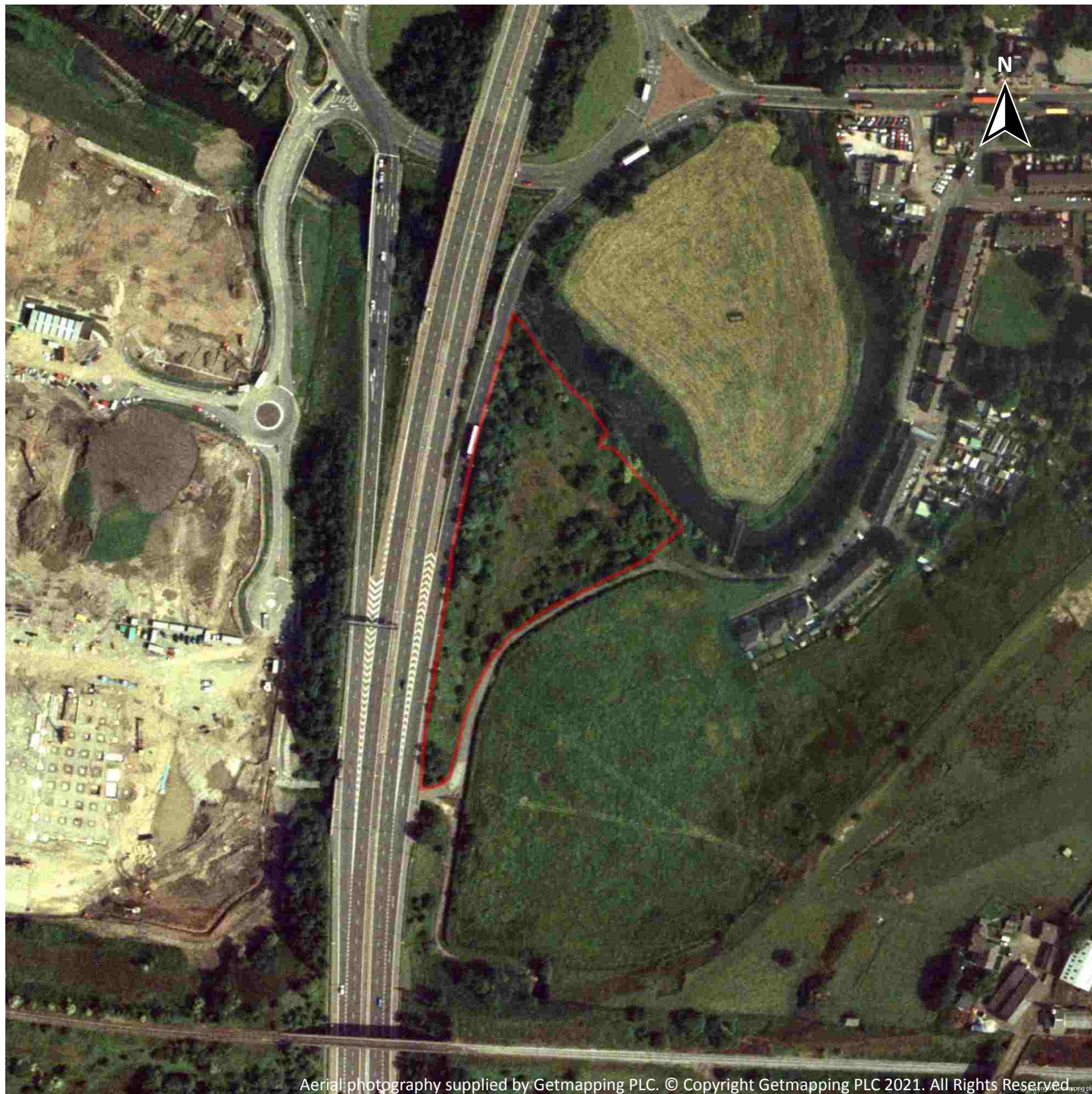
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Capture Date: 02/05/2011

Site Area: 1.11ha



Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 1.11ha



Recent site history - 1999 aerial photograph



Capture Date: 10/09/1999

Site Area: 1.11ha

OS MasterMap site plan

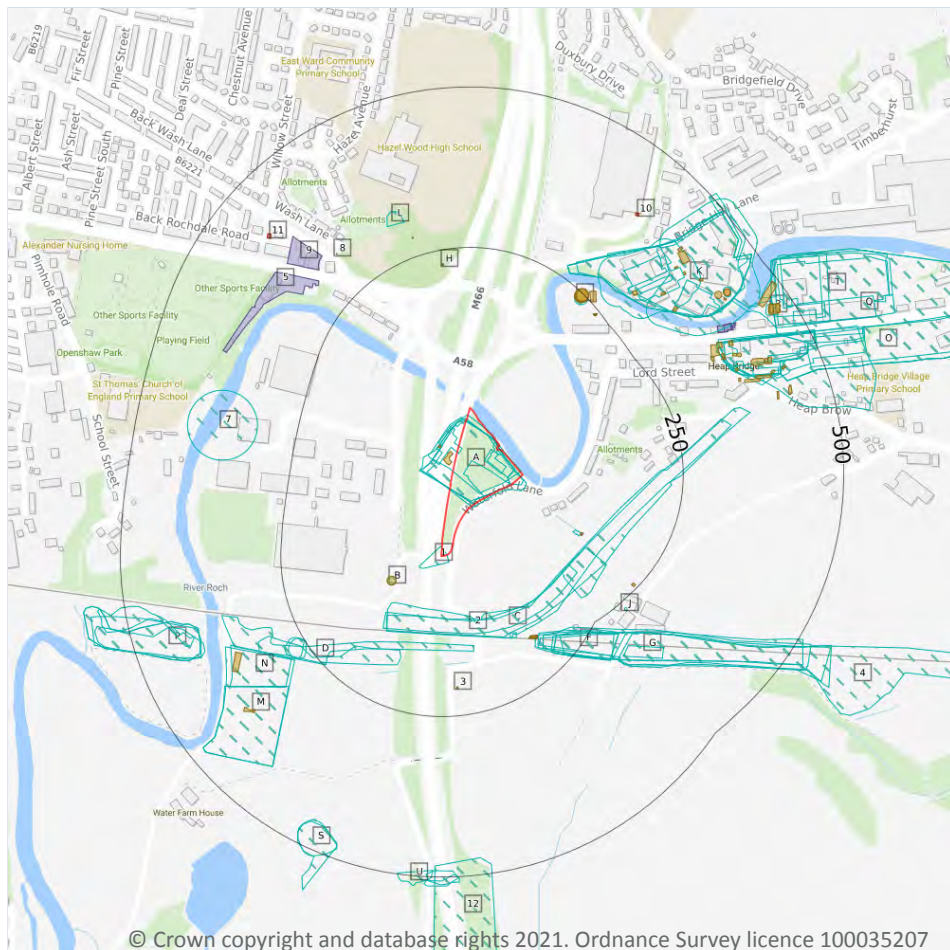


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Site Area: 1.11ha



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

72

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

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

ID	Location	Land use	Dates present	Group ID
1	On site	Unspecified Pit	1928	690998



ID	Location	Land use	Dates present	Group ID
A	On site	Unspecified Mill	1908	656770
A	On site	Woollen Mill	1851	670983
A	On site	Unspecified Works	1967	679028
A	On site	Water Mill	1891	686440
A	On site	Filter Beds	1908 - 1938	694242
A	On site	Unspecified Disused Mill	1956	697770
A	On site	Unspecified Disused Mill	1928 - 1938	728758
A	On site	Filter Beds	1956	782596
B	81m SW	Unspecified Tank	1983	674831
C	85m S	Railway Sidings	1908 - 1938	735280
2	96m S	Railway Sidings	1891	711985
C	97m S	Railway Sidings	1956 - 1967	708566
C	118m SE	Unspecified Tank	1928 - 1956	783020
D	137m S	Ground Workings	1851	681863
C	150m SE	Cuttings	1967 - 1983	785986
E	156m SE	Railway Building	1956	670236
D	160m SW	Unspecified Ground Workings	1983	648203
F	186m SE	Cuttings	1851	695872
G	187m SE	Cuttings	1908 - 1967	756799
F	194m SE	Cuttings	1908	754329
G	194m SE	Cuttings	1983	761441
G	207m SE	Cuttings	1956	788646
F	210m SE	Cuttings	1928	744617
F	210m SE	Cuttings	1938	775587
4	214m SE	Cuttings	1891	751273
I	233m NE	Unspecified Tank	1983	674832
D	249m SW	Unspecified Pit	1938	691008
D	251m SW	Unspecified Heap	1956	650928



ID	Location	Land use	Dates present	Group ID
J	260m SE	Pump	1851	675595
K	261m NE	Dye Mills	1956	675938
K	261m NE	Unspecified Works	1967 - 1983	731842
K	261m NE	Dye Works	1956	735685
K	268m NE	Dye Works	1908	755782
K	270m NE	Unspecified Mills	1891	742103
M	280m SW	Sewage Works	1908 - 1938	727765
N	283m SW	Sewage Works	1956	737708
G	298m SE	Cuttings	1851	769158
K	304m NE	Unspecified Mill	1891 - 1908	743774
K	305m NE	Dye Works	1928 - 1938	722578
K	307m NE	Woollen Mills	1851	644828
L	307m N	Unspecified Pit	1983	690997
6	309m SE	Railway Sidings	1908	641644
7	312m W	Unspecified Hole	1908	658372
M	313m SW	Disused Sewage Works	1955	654861
K	350m NE	Unspecified Mills	1928 - 1938	744699
K	357m NE	Paper Mill	1908	730748
K	358m NE	Paper Mill	1956	743281
K	359m NE	Unspecified Commercial/Industrial	1891	643324
K	359m NE	Paper Mill	1928 - 1938	698881
K	364m NE	Paper Mill	1851	785229
O	364m NE	Railway Sidings	1908	721227
K	364m NE	Unspecified Mill	1967	656771
P	395m W	Unspecified Ground Workings	1956	734076
P	395m W	Unspecified Ground Workings	1908	710662
P	395m W	Unspecified Ground Workings	1938	742381
P	396m W	Unspecified Ground Workings	1983	766134



ID	Location	Land use	Dates present	Group ID
P	404m W	Unspecified Ground Workings	1967	776505
K	421m NE	Unspecified Tank	1891 - 1908	742227
Q	431m E	Railway Sidings	1938	736364
Q	431m E	Railway Sidings	1928	760587
R	455m NE	Unspecified Tanks	1928 - 1938	694154
S	455m SW	Unspecified Heap	1928 - 1938	730990
S	460m SW	Unspecified Heap	1955	752943
T	462m NE	Paper Mill	1956	700336
12	473m S	Cuttings	1981	642596
O	480m E	Railway Sidings	1956 - 1967	756681
T	482m NE	Paper Mill	1928 - 1938	702289
T	483m NE	Unspecified Mill	1967 - 1983	717654
U	490m S	Sand Pit	1851	643772
U	490m S	Unspecified Pit	1955	690999
U	497m S	Unspecified Ground Workings	1908	648211

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

60

Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original 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 13**

ID	Location	Land use	Dates present	Group ID
A	5m W	Tanks	1910	94533
A	27m W	Unspecified Tank	1957 - 1970	89384
B	79m SW	Unspecified Tank	1980	84742



ID	Location	Land use	Dates present	Group ID
C	128m SE	Unspecified Tank	1957 - 1992	97326
E	180m SE	Tanks	1957	92475
E	181m SE	Tanks	1980 - 1992	91521
E	181m SE	Tanks	1957 - 1970	90649
3	205m S	Unspecified Tank	1891	99220
H	226m N	Unspecified Tank	1937	90775
H	227m N	Unspecified Tank	1930	101656
I	235m NE	Unspecified Tank	1957 - 1997	91194
I	236m NE	Unspecified Tank	1957 - 1970	92507
I	238m NE	Unspecified Tank	1980 - 1990	91750
I	240m NE	Unspecified Tank	1957 - 1970	89029
I	241m NE	Unspecified Tank	1996	89883
I	241m NE	Unspecified Tank	1996	96344
I	241m NE	Unspecified Tank	1997	101326
J	241m SE	Unspecified Tank	1957 - 1970	93383
I	242m NE	Unspecified Tank	1964	89972
I	242m NE	Unspecified Tank	1957	103217
I	243m NE	Unspecified Tank	1990	90305
I	243m NE	Unspecified Tank	1980	92383
I	250m NE	Unspecified Tank	1937	82579
L	279m N	Unspecified Tank	1891	82575
K	308m NE	Tanks	1930	87169
8	317m NW	Unspecified Tank	1891	82576
K	341m NE	Tanks	1937	87707
K	342m NE	Tanks	1930	87168
K	344m NE	Tanks	1910	87708
N	346m SW	Settling Tanks	1930 - 1937	95247
K	347m NE	Tanks	1910 - 1930	99047



ID	Location	Land use	Dates present	Group ID
K	358m NE	Tanks	1910	98174
K	361m NE	Tanks	1930	94696
K	367m NE	Tanks	1910	87713
K	369m NE	Unspecified Tank	1890	84744
K	374m NE	Tanks	1910	87715
K	376m NE	Unspecified Tank	1930	84745
M	376m SW	Settling Tanks	1930 - 1937	104044
K	379m NE	Unspecified Tank	1937	84746
K	383m NE	Unspecified Tank	1957	90595
K	385m NE	Unspecified Tank	1930	82577
K	390m NE	Unspecified Tank	1937	82578
K	393m NE	Tanks	1930 - 1937	103453
K	396m NE	Tanks	1990	87709
K	399m NE	Tanks	1937	87702
K	402m NE	Unspecified Tank	1930 - 1957	98202
K	406m NE	Tanks	1930 - 1937	93790
K	408m NE	Unspecified Tank	1910	82580
K	414m E	Tanks	1910	87716
K	416m NE	Filter Tanks	1930	88223
K	416m NE	Tanks	1990	87711
K	418m E	Tanks	1910	87712
K	420m NE	Tanks	1990	87710
K	421m NE	Gasometer	1890	78091
K	434m E	Tanks	1930 - 1970	98862
K	437m E	Tanks	1930 - 1937	98180
R	453m NE	Filter Tanks	1930 - 1937	95817
R	458m NE	Filter Tanks	1930 - 1937	96527
R	460m NE	Tanks	1957 - 1970	102235

ID	Location	Land use	Dates present	Group ID
R	469m NE	Tanks	1957 - 1970	101099

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m	3
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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 13**

ID	Location	Land use	Dates present	Group ID
10	395m NE	Electricity Substation	1996 - 1997	51211
11	408m NW	Electricity Substation	1984	45518
K	421m NE	Gasometer	1890	46143

This data is sourced from Ordnance Survey / Groundsure.

1.4 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, 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	5
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Garages digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale, intelligently grouped into contiguous features. To prevent misrepresentation of the size of historical features at any given time, features are only grouped if they have similar geometries within immediately preceding or succeeding map editions. See section 2 for a breakdown of grouping if required. Grouped and the original un-



grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land use	Dates present	Group ID
5	304m NW	Garage	1982 - 1984	17614
9	319m NW	Garage	1982 - 1984	17745
K	376m NE	Garage	1957 - 1970	17875
K	377m NE	Garage	1980 - 1990	18547
K	385m NE	Garage	1957 - 1968	19559

This data is sourced from Ordnance Survey / Groundsure.

1.6 Historical military land

Records within 500m

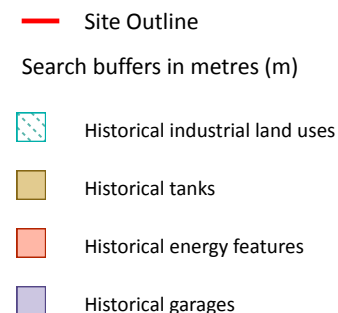
0

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

97

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 ungrouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
1	On site	Unspecified Pit	1928	690998
A	On site	Filter Beds	1956	782596
A	On site	Unspecified Disused Mill	1956	697770

ID	Location	Land Use	Date	Group ID
A	On site	Woollen Mill	1851	670983
A	On site	Unspecified Disused Mill	1938	728758
A	On site	Filter Beds	1938	694242
A	On site	Water Mill	1891	686440
A	On site	Unspecified Works	1967	679028
A	On site	Filter Beds	1928	694242
A	On site	Unspecified Disused Mill	1928	728758
A	On site	Filter Beds	1908	694242
A	On site	Unspecified Mill	1908	656770
B	81m SW	Unspecified Tank	1983	674831
C	85m S	Railway Sidings	1938	735280
C	85m S	Railway Sidings	1928	735280
C	85m S	Railway Sidings	1908	735280
2	96m S	Railway Sidings	1891	711985
C	97m S	Railway Sidings	1956	708566
C	97m S	Railway Sidings	1967	708566
C	118m SE	Unspecified Tank	1956	783020
C	122m SE	Unspecified Tank	1938	783020
C	122m SE	Unspecified Tank	1928	783020
D	137m S	Ground Workings	1851	681863
C	150m SE	Cuttings	1967	785986
C	155m SE	Cuttings	1983	785986
E	156m SE	Railway Building	1956	670236
D	160m SW	Unspecified Ground Workings	1983	648203
F	186m SE	Cuttings	1851	695872
G	187m SE	Cuttings	1967	756799
F	194m SE	Cuttings	1908	754329
G	194m SE	Cuttings	1983	761441



ID	Location	Land Use	Date	Group ID
G	207m SE	Cuttings	1956	788646
F	210m SE	Cuttings	1938	775587
F	210m SE	Cuttings	1928	744617
3	214m SE	Cuttings	1891	751273
J	233m NE	Unspecified Tank	1983	674832
D	249m SW	Unspecified Pit	1938	691008
D	251m SW	Unspecified Heap	1956	650928
K	260m SE	Pump	1851	675595
L	261m NE	Dye Works	1956	735685
L	261m NE	Dye Mills	1956	675938
L	261m NE	Unspecified Works	1967	731842
L	268m NE	Dye Works	1908	755782
L	270m NE	Unspecified Mills	1891	742103
N	280m SW	Sewage Works	1938	727765
N	280m SW	Sewage Works	1928	727765
N	280m SW	Sewage Works	1908	727765
O	283m SW	Sewage Works	1956	737708
L	294m NE	Unspecified Works	1983	731842
G	295m SE	Cuttings	1938	756799
G	295m SE	Cuttings	1928	756799
G	295m SE	Cuttings	1908	756799
G	298m SE	Cuttings	1851	769158
L	304m NE	Unspecified Mill	1908	743774
L	305m NE	Dye Works	1938	722578
L	305m NE	Dye Works	1928	722578
L	307m NE	Woollen Mills	1851	644828
M	307m N	Unspecified Pit	1983	690997
G	309m SE	Railway Sidings	1908	641644



ID	Location	Land Use	Date	Group ID
4	312m W	Unspecified Hole	1908	658372
N	313m SW	Disused Sewage Works	1955	654861
L	350m NE	Unspecified Mills	1938	744699
L	350m NE	Unspecified Mills	1928	744699
L	357m NE	Paper Mill	1908	730748
L	358m NE	Paper Mill	1956	743281
L	359m NE	Paper Mill	1938	698881
L	359m NE	Unspecified Commercial/Industrial	1891	643324
L	359m NE	Paper Mill	1928	698881
L	364m NE	Paper Mill	1851	785229
R	364m NE	Railway Sidings	1908	721227
L	364m NE	Unspecified Mill	1967	656771
S	395m W	Unspecified Ground Workings	1956	734076
S	395m W	Unspecified Ground Workings	1938	742381
S	395m W	Unspecified Ground Workings	1908	710662
S	396m W	Unspecified Ground Workings	1983	766134
S	404m W	Unspecified Ground Workings	1967	776505
L	421m NE	Unspecified Tank	1908	742227
L	422m NE	Unspecified Tank	1891	742227
U	431m E	Railway Sidings	1938	736364
U	431m E	Railway Sidings	1928	760587
V	450m NE	Unspecified Mill	1891	743774
V	455m NE	Unspecified Tanks	1938	694154
V	455m NE	Unspecified Tanks	1928	694154
W	455m SW	Unspecified Heap	1938	730990
W	455m SW	Unspecified Heap	1928	730990
W	460m SW	Unspecified Heap	1955	752943
X	462m NE	Paper Mill	1956	700336

ID	Location	Land Use	Date	Group ID
7	473m S	Cuttings	1981	642596
R	480m E	Railway Sidings	1956	756681
R	480m E	Railway Sidings	1967	756681
X	482m NE	Paper Mill	1938	702289
X	482m NE	Paper Mill	1928	702289
X	483m NE	Unspecified Mill	1983	717654
X	487m NE	Unspecified Mill	1967	717654
Y	490m S	Sand Pit	1851	643772
Y	490m S	Unspecified Pit	1955	690999
Y	497m S	Unspecified Ground Workings	1908	648211

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m	100
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Tank features digitised from historical Ordnance Survey mapping at high-detail 1:1,250 and 1:2,500 scale. Any records shown are available intelligently grouped in section 1. Grouped and the original un-grouped features can be cross-referenced across sections 1 and 2 using the 'Group ID'.

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

ID	Location	Land Use	Date	Group ID
A	5m W	Tanks	1910	94533
A	5m W	Tanks	1910	94533
A	27m W	Unspecified Tank	1957	89384
A	27m W	Unspecified Tank	1970	89384
A	27m W	Unspecified Tank	1957	89384
B	79m SW	Unspecified Tank	1980	84742
C	128m SE	Unspecified Tank	1957	97326
C	128m SE	Unspecified Tank	1970	97326
C	128m SE	Unspecified Tank	1957	97326
C	129m SE	Unspecified Tank	1992	97326



ID	Location	Land Use	Date	Group ID
C	130m SE	Unspecified Tank	1980	97326
E	180m SE	Tanks	1957	92475
E	181m SE	Tanks	1992	91521
E	181m SE	Tanks	1980	91521
E	181m SE	Tanks	1970	90649
E	181m SE	Tanks	1957	90649
H	205m S	Unspecified Tank	1891	99220
H	205m S	Unspecified Tank	1891	99220
I	226m N	Unspecified Tank	1937	90775
I	227m N	Unspecified Tank	1930	101656
J	235m NE	Unspecified Tank	1996	91194
J	235m NE	Unspecified Tank	1997	91194
J	235m NE	Unspecified Tank	1996	91194
J	236m NE	Unspecified Tank	1957	91194
J	236m NE	Unspecified Tank	1970	92507
J	237m NE	Unspecified Tank	1957	92507
J	237m NE	Unspecified Tank	1964	92507
J	238m NE	Unspecified Tank	1980	91750
J	238m NE	Unspecified Tank	1990	91750
J	240m NE	Unspecified Tank	1970	89029
J	240m NE	Unspecified Tank	1957	89029
J	241m NE	Unspecified Tank	1996	96344
J	241m NE	Unspecified Tank	1997	101326
J	241m NE	Unspecified Tank	1996	89883
K	241m SE	Unspecified Tank	1970	93383
K	241m SE	Unspecified Tank	1957	93383
K	241m SE	Unspecified Tank	1957	93383
J	242m NE	Unspecified Tank	1957	103217



ID	Location	Land Use	Date	Group ID
J	242m NE	Unspecified Tank	1964	89972
J	243m NE	Unspecified Tank	1980	92383
J	243m NE	Unspecified Tank	1990	90305
J	250m NE	Unspecified Tank	1937	82579
M	279m N	Unspecified Tank	1891	82575
L	308m NE	Tanks	1930	87169
5	317m NW	Unspecified Tank	1891	82576
L	341m NE	Tanks	1937	87707
L	342m NE	Tanks	1930	87168
L	344m NE	Tanks	1910	87708
O	346m SW	Settling Tanks	1930	95247
O	346m SW	Settling Tanks	1937	95247
L	347m NE	Tanks	1910	99047
L	358m NE	Tanks	1910	98174
L	361m NE	Tanks	1930	94696
L	362m NE	Tanks	1930	99047
L	367m NE	Tanks	1910	87713
L	369m NE	Unspecified Tank	1890	84744
L	374m NE	Tanks	1910	87715
L	376m NE	Unspecified Tank	1930	84745
N	376m SW	Settling Tanks	1930	104044
N	376m SW	Settling Tanks	1937	104044
N	376m SW	Settling Tanks	1930	104044
L	379m NE	Unspecified Tank	1937	84746
L	383m NE	Unspecified Tank	1957	90595
L	383m NE	Unspecified Tank	1957	90595
L	385m NE	Unspecified Tank	1930	82577
L	390m NE	Unspecified Tank	1937	82578



ID	Location	Land Use	Date	Group ID
L	393m NE	Tanks	1930	103453
L	393m NE	Tanks	1937	103453
L	396m NE	Tanks	1990	87709
L	399m NE	Tanks	1937	87702
L	402m NE	Unspecified Tank	1930	98202
L	405m NE	Unspecified Tank	1957	98202
L	406m NE	Tanks	1930	93790
L	406m NE	Tanks	1937	93790
L	408m NE	Unspecified Tank	1910	82580
L	414m E	Tanks	1910	87716
L	416m NE	Filter Tanks	1930	88223
L	416m NE	Tanks	1990	87711
L	418m E	Tanks	1910	87712
L	420m NE	Tanks	1990	87710
L	421m NE	Gasometer	1890	78091
L	434m E	Tanks	1930	98862
L	434m E	Tanks	1937	98862
L	436m E	Tanks	1970	98862
L	436m E	Tanks	1957	98862
L	436m E	Tanks	1957	98862
L	437m E	Tanks	1930	98180
L	437m E	Tanks	1937	98180
V	453m NE	Filter Tanks	1930	95817
V	453m NE	Filter Tanks	1937	95817
V	458m NE	Filter Tanks	1930	96527
V	458m NE	Filter Tanks	1937	96527
V	460m NE	Tanks	1970	102235
V	460m NE	Tanks	1957	102235



ID	Location	Land Use	Date	Group ID
V	460m NE	Tanks	1968	102235
V	460m NE	Tanks	1957	102235
V	469m NE	Tanks	1968	101099
V	469m NE	Tanks	1957	101099
V	469m NE	Tanks	1970	101099
V	469m NE	Tanks	1957	101099

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

4

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

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

ID	Location	Land Use	Date	Group ID
T	395m NE	Electricity Substation	1997	51211
T	395m NE	Electricity Substation	1996	51211
6	408m NW	Electricity Substation	1984	45518
L	421m NE	Gasometer	1890	46143

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.



2.5 Historical garages

Records within 500m

12

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

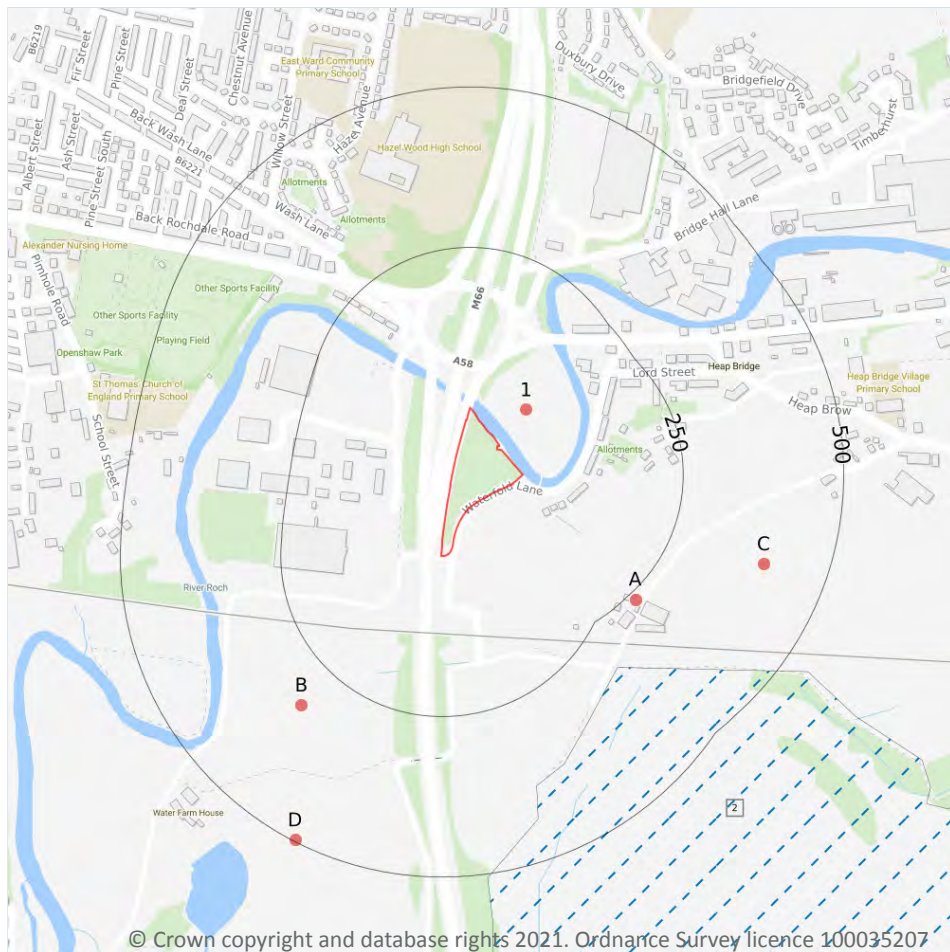
Features are displayed on the Past land use - un-grouped map on **page 21**

ID	Location	Land Use	Date	Group ID
P	304m NW	Garage	1984	17614
P	312m NW	Garage	1982	17614
Q	319m NW	Garage	1982	17745
Q	331m NW	Garage	1984	17745
L	376m NE	Garage	1970	17875
L	376m NE	Garage	1957	17875
L	377m NE	Garage	1980	18547
L	377m NE	Garage	1990	18547
L	385m NE	Garage	1957	19559
L	385m NE	Garage	1964	19559
L	396m NE	Garage	1968	19559
L	396m NE	Garage	1957	19559

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Active or recent landfill
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

1

Active or recently closed landfill sites under Environment Agency/Natural Resources Wales regulation. Features are displayed on the Waste and landfill map on **page 31**

ID	Location	Details	
2	316m SE	Operator: Viridor Waste Management Limited Site Address: Pilsworth North Landfill Site, Pilsworth Road, Lancashire, BL9 8QZ	WML Number: 0 EPR Reference: - Landfill type: WASTE LANDFILLING; >10 T/D WITH CAPACITY >25,000T EXCLUDING INERT WASTE Status: Effective IPPC Reference: - EPR Number: -



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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

0

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

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

3.5 Historical waste sites

Records within 500m

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

24

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 31**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	65m NE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/QE5456F G/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
A	262m SE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/AF0934TX /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Deposit of waste from dredging of inland waters
A	262m SE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/AF0934TX /A001	Disposing of waste exemption	Both agricultural and non-agricultural waste	Burning waste in the open
A	262m SE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/AF0934TX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste in construction
A	262m SE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/AF0934TX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Spreading waste on agricultural land to confer benefit
A	262m SE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/AF0934TX /A001	Using waste exemption	Both agricultural and non-agricultural waste	Use of waste for a specified purpose
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX213569	Disposing of waste exemption	On a Farm	Burning waste in the open
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX213569	Disposing of waste exemption	On a Farm	Deposit of waste from dredging of inland waters
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX213569	Using waste exemption	On a Farm	Spreading waste on agricultural land to confer benefit
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX213569	Using waste exemption	On a Farm	Use of waste for a specified purpose
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX213569	Using waste exemption	On a Farm	Use of waste in construction

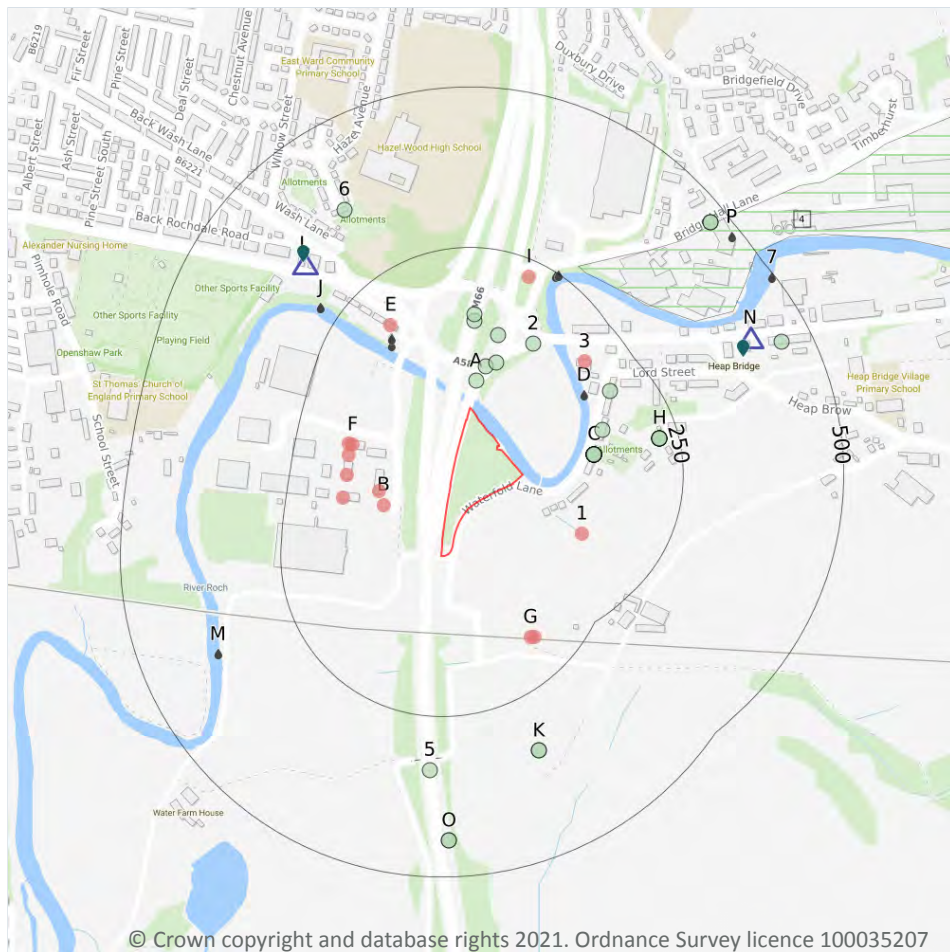


ID	Location	Site	Reference	Category	Sub-Category	Description
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX065760	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX065760	Disposing of waste exemption	On a farm	Burning waste in the open
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX065760	Using waste exemption	On a farm	Use of waste in construction
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX065760	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
A	263m SE	SPOUT BANK FARM, HEAP BROW, BURY, BL9 7JT	WEX065760	Using waste exemption	On a farm	Use of waste for a specified purpose
A	263m SE	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/QE5756FZ /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
B	319m SW	-	WEX224686	Storing waste exemption	On a farm	Storage of sludge
B	319m SW	RIVERS LANE, URMSTON, MANCHESTER, M41 7JB	WEX098912	Storing waste exemption	On a farm	Storage of sludge
B	319m SW	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/QE5156F B/A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
C	400m E	RIVERS LANE, URMSTON, MANCHESTER, M41 7JB	WEX098908	Storing waste exemption	On a farm	Storage of sludge
C	400m E	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/QE5856FE /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge
D	498m SW	Fish, Spout Bank Farm - SB09	WEX261843	Storing waste exemption	On a farm	Storage of sludge
D	498m SW	Spout Bank Farm Heap Brow BURY Lancashire BL9 7JT	EPR/CE5389YR /A001	Storing waste exemption	Non-Agricultural Waste Only	Storage of sludge

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses
- ▲ Current or recent petrol stations
- Control of Major Accident Hazards
- Licensed pollutant release (Part A(2)/B)
- Licensed Discharges to controlled waters
- Pollution Incidents (EA/NRW)

4.1 Recent industrial land uses

Records within 250m

13

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	Activity	Category
B	98m W	Electricity Sub Station	Greater Manchester, BL9	Electrical Features	Infrastructure and Facilities
B	108m W	Surefreight International Ltd	Derwent House, Waterfold Park, Bury, Greater Manchester, BL9 7BR	Distribution and Haulage	Transport, Storage and Delivery



ID	Location	Company	Address	Activity	Category
1	130m SE	Tank	Greater Manchester, BL9	Tanks (Generic)	Industrial Features
F	162m W	I P M	Unit E2 Centric House, Waterfold Park, Bury, Greater Manchester, BL9 7BR	Industrial Engineers	Engineering Services
F	162m W	The Mailing Room	Unit D1, Waterfold Park, Bury, Greater Manchester, BL9 7BR	Office and Shop Equipment	Industrial Products
F	162m W	Roxtec Ltd	Unit C1 Waterfold Park, Bury, Greater Manchester, BL9 7BQ	Distribution and Haulage	Transport, Storage and Delivery
F	164m W	Business Park	Greater Manchester, BL9	Business Parks and Industrial Estates	Industrial Features
F	168m W	Sympatec	Waterfold House, Waterfold Park, Bury, Greater Manchester, BL9 7BR	Measurement and Inspection Equipment	Industrial Products
E	179m NW	K C M Brain Injury Case Management 4 U Ltd	216, Rochdale Road, Bury, Greater Manchester, BL9 7HP	Medical Equipment, Supplies and Pharmaceuticals	Industrial Products
G	182m SE	Tank	Greater Manchester, BL9	Tanks (Generic)	Industrial Features
3	184m NE	T M Car Sales	Waterfold Lane, Bury, Greater Manchester, BL9 7JY	Secondhand Vehicles	Motoring
G	186m SE	Tank	Greater Manchester, BL9	Tanks (Generic)	Industrial Features
I	224m NE	Mast (Telecommunication)	Greater Manchester, BL9	Telecommunications Features	Infrastructure and Facilities

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

2

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	LPG	Status
L	342m NW	ESSO	Rochdale Road, Wash Lane, Bury, Greater Manchester, BL9 7BD	No	Open



ID	Location	Company	Address	LPG	Status
N	413m NE	BP	Bury New Road, Heap Brow, Heap Bridge, Bury, Greater Manchester, BL9 7HY	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m	0
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High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m	0
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High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m	0
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Contaminated Land Register of sites designated under Part 2a of the Environmental Protection Act 1990.

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	1
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Company	Address	Operational status	Tier
4	277m NE	Tetrosyl Limited	Tetrosyl Limited, Bury - Heap Bridge, Bridge Hall Lane, Bury, Lancashire, BL9 7NY	Current COMAH Site	COMAH Lower Tier Operator

This data is sourced from the Health and Safety Executive.



4.7 Regulated explosive sites

Records within 500m

0

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m

0

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m

0

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m

0

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

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

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

Records within 500m

2

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

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Address	Details	
L	354m NW	Motorway Filling Service Station, Rochdale Road, Bury, BL9 7BD	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified
N	394m NE	Eurogarages Ltd, Heap Bridge Service Station, Bury New Road, Heywood, Lancashire, BL9 7HY	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcements Notified Date of enforcement: No Enforcements Notified Comment: No Enforcements Notified

This data is sourced from Local Authority records.

4.12 Radioactive Substance Authorisations

Records within 500m

0

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m

12

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

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Address	Details	
D	152m NE	WATERFOLD LANE CSO, 5 WATERFOLD LANE, HEYWOOD, BURY, GREATER MANCHESTER, BL9 7HS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0032 Permit Version: 3 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 29/01/2020 Effective Date: 29/01/2020 Revocation Date: -
E	156m NW	ROCHDALE RD PARK BURY, BURY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0018 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 20/08/1992 Revocation Date: 01/01/1995



ID	Location	Address	Details	
E	162m NW	220 LOWER ROCHDALE ROAD EO, HEAP BRIDGE, BURY	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - WATER COMPANY Permit Number: 016950488 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 20/08/1992 Revocation Date: 20/08/1992
I	243m NE	BRIDGE HALL LANE CSO, BRIDGE HALL LANE, BURY, LANCASHIRE, BL9 7PJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0065 Permit Version: 3 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 12/03/2018 Effective Date: 01/04/2018 Revocation Date: -
I	247m NE	BRIDGE HALL LANE CSO, BRIDGE HALL LANE, BURY, LANCASHIRE, BL9 7PJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0065 Permit Version: 1 Receiving Water: -	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/04/1991 Revocation Date: 31/12/1994
I	247m NE	BRIDGE HALL LANE CSO, BRIDGE HALL LANE, BURY, LANCASHIRE, BL9 7PJ	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01BRY0065 Permit Version: 2 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 31/03/2018
J	280m NW	ROCHDALE ROAD/WASH LANE SSO, ROCHDALE ROAD/WASH LANE, BURY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016951425 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/07/1991 Revocation Date: 31/12/1994
J	280m NW	ROCHDALE ROAD/WASH LANE SSO, ROCHDALE ROAD/WASH LANE, BURY	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 016951425 Permit Version: 2 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: -
M	380m SW	WATERFOLD LANE CSO, 5 WATERFOLD LANE, HEYWOOD, BURY, GREATER MANCHESTER, BL9 7HS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0032 Permit Version: 1 Receiving Water: RIVER ROCH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: - Effective Date: 01/01/1995 Revocation Date: 13/04/2009



ID	Location	Address	Details	
M	380m SW	WATERFOLD LANE CSO, 5 WATERFOLD LANE, HEYWOOD, BURY, GREATER MANCHESTER, BL9 7HS	Effluent Type: SEWAGE DISCHARGES - SEWER STORM OVERFLOW - WATER COMPANY Permit Number: 01ROC0032 Permit Version: 2 Receiving Water: RIVER ROCH	Status: VARIED UNDER EPR 2010 Issue date: 14/04/2009 Effective Date: 14/04/2009 Revocation Date: 28/01/2020
P	483m NE	HEAP BRIDGE PAPER MILL, WATER FILTER PLANT, BURY	Effluent Type: TRADE DISCHARGES - PROCESS EFFLUENT - NOT WATER COMPANY Permit Number: 016990261 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/06/1981 Revocation Date: 05/04/1991
7	495m NE	HEAP BRIDGE PAPER MILL, WATER FILTER PLANT, BURY	Effluent Type: TRADE DISCHARGES - BOILER BLOWDOWN EFFLUENT Permit Number: 016990260 Permit Version: 1 Receiving Water: RIVER ROCH	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/06/1981 Revocation Date: 05/04/1991

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m

0

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

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

4.15 Pollutant release to public sewer

Records within 500m

0

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m

0

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

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



4.17 List 2 Dangerous Substances

Records within 500m

0

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m

51

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

Features are displayed on the Current industrial land use map on **page 35**

ID	Location	Details	
A	43m N	Incident Date: 17/12/2001 Incident Identification: 48424 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
A	68m N	Incident Date: 15/03/2001 Incident Identification: 419 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
A	81m NE	Incident Date: 20/05/2002 Incident Identification: 80046 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 26/03/2001 Incident Identification: 972 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 18/07/2001 Incident Identification: 17144 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 18/11/2001 Incident Identification: 43531 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)

ID	Location	Details	
C	115m E	Incident Date: 12/10/2001 Incident Identification: 36171 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 06/10/2001 Incident Identification: 34978 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 09/04/2002 Incident Identification: 70281 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 31/08/2001 Incident Identification: 28060 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 27/04/2001 Incident Identification: 3699 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 20/08/2001 Incident Identification: 25592 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 12/10/2001 Incident Identification: 36278 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 14/10/2001 Incident Identification: 36572 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 26/05/2002 Incident Identification: 81219 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 14/08/2001 Incident Identification: 24180 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
C	115m E	Incident Date: 08/08/2001 Incident Identification: 22918 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 27/04/2001 Incident Identification: 3699 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 03/02/2002 Incident Identification: 56012 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 18/10/2001 Incident Identification: 37627 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 06/07/2001 Incident Identification: 14456 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 13/05/2001 Incident Identification: 5388 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 05/06/2001 Incident Identification: 7777 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 29/09/2001 Incident Identification: 33694 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 15/05/2001 Incident Identification: 5656 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 03/05/2001 Incident Identification: 4344 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
C	115m E	Incident Date: 15/05/2002 Incident Identification: 78994 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 29/11/2001 Incident Identification: 45724 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	115m E	Incident Date: 01/06/2002 Incident Identification: 82528 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Chemical Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
A	121m N	Incident Date: 17/11/2001 Incident Identification: 43425 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
A	136m N	Incident Date: 28/03/2001 Incident Identification: 1136 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
2	140m NE	Incident Date: 16/11/2001 Incident Identification: 43364 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
C	142m NE	Incident Date: 03/07/2001 Incident Identification: 13170 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
A	146m N	Incident Date: 14/03/2002 Incident Identification: 64110 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
D	188m NE	Incident Date: 20/04/2001 Incident Identification: 2911 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	220m E	Incident Date: 21/05/2001 Incident Identification: 6210 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
H	220m E	Incident Date: 25/05/2001 Incident Identification: 6676 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Other Atmospheric Pollutant or Effect	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	220m E	Incident Date: 13/04/2001 Incident Identification: 2362 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	220m E	Incident Date: 01/04/2002 Incident Identification: 68021 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	220m E	Incident Date: 20/07/2001 Incident Identification: 17931 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	220m E	Incident Date: 21/05/2001 Incident Identification: 6210 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
H	220m E	Incident Date: 20/07/2001 Incident Identification: 17931 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
5	333m S	Incident Date: 06/04/2002 Incident Identification: 69445 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	336m SE	Incident Date: 23/04/2001 Incident Identification: 3175 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
K	336m SE	Incident Date: 09/05/2001 Incident Identification: 5040 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
6	365m NW	Incident Date: 22/08/2001 Incident Identification: 26085 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Landfill Odour	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)



ID	Location	Details	
O	443m S	Incident Date: 15/06/2001 Incident Identification: 9591 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
O	443m S	Incident Date: 15/06/2001 Incident Identification: 9591 Pollutant: Other Pollutant Pollutant Description: Other	Water Impact: Category 4 (No Impact) Land Impact: Category 4 (No Impact) Air Impact: Category 3 (Minor)
N	453m NE	Incident Date: 30/09/2012 Incident Identification: 1043097 Pollutant: Oils and Fuel Pollutant Description: Insulating and Cable Oils	Water Impact: Category 2 (Significant) Land Impact: Category 3 (Minor) Air Impact: Category 4 (No Impact)
P	472m NE	Incident Date: 14/11/2009 Incident Identification: 732604 Pollutant: Organic Chemicals/Products Pollutant Description: Other Organic Chemical or Product	Water Impact: Category 4 (No Impact) Land Impact: Category 1 (Major) Air Impact: Category 1 (Major)
P	472m NE	Incident Date: 14/11/2009 Incident Identification: 732604 Pollutant: Atmospheric Pollutants and Effects Pollutant Description: Effects on Humans	Water Impact: Category 4 (No Impact) Land Impact: Category 1 (Major) Air Impact: Category 1 (Major)

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

4.19 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.

4.20 Pollution inventory waste transfers

Records within 500m	0
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The pollution inventory (waste transfers) includes reporting on annual transfers and recovery/disposal of controlled wastes from a site. A reporting threshold for each waste type is also included. Where releases fall below the reporting threshold, no value will be given. The data is given for the most recent complete year available.

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



4.21 Pollution inventory radioactive waste

Records within 500m

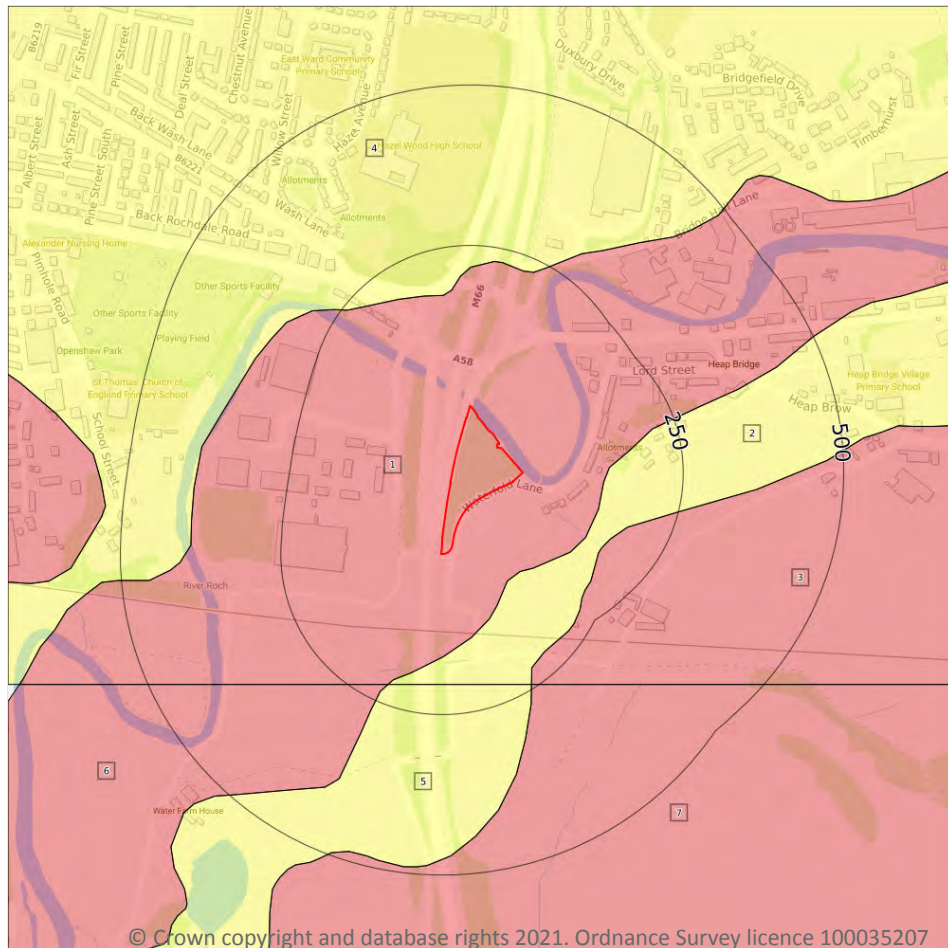
0

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

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



5 Hydrogeology - Superficial aquifer



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

5.1 Superficial aquifer

Records within 500m

7

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 49**

ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	101m SE	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type

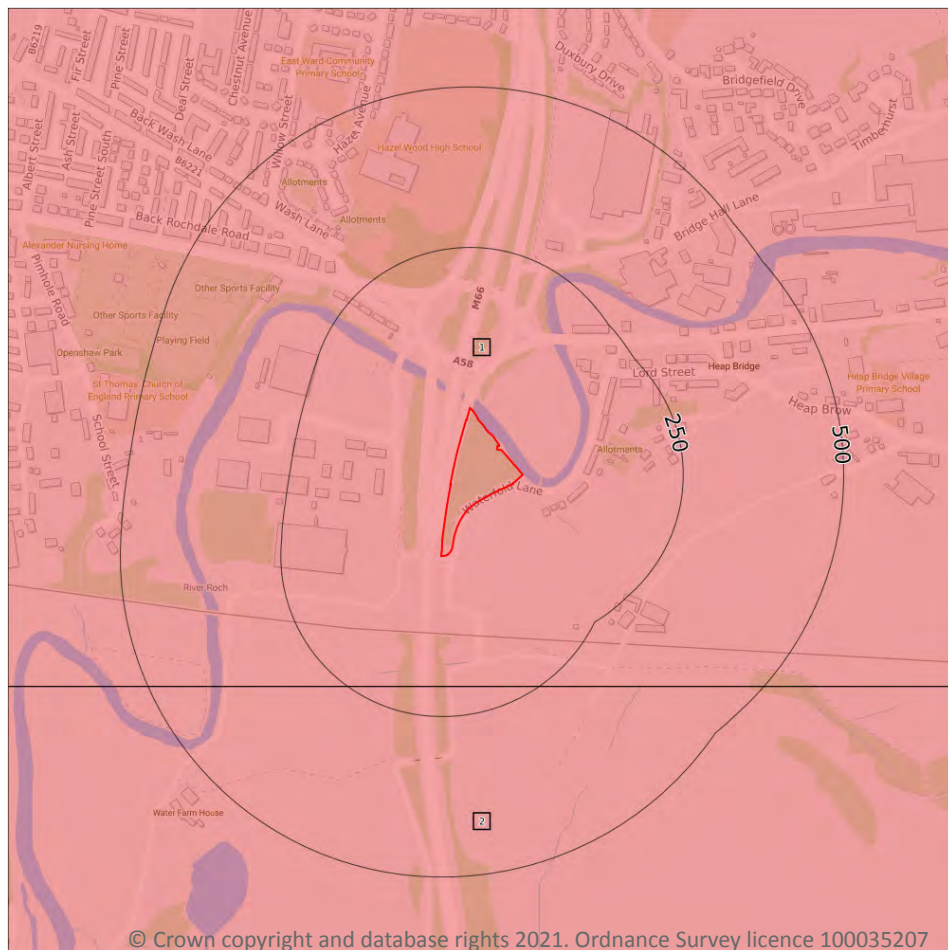


ID	Location	Designation	Description
3	170m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
4	177m N	Secondary 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
5	203m S	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
6	219m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
7	243m SE	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

2

Aquifer status of groundwater held within bedrock geology.

Features are displayed on the Bedrock aquifer map on **page 51**

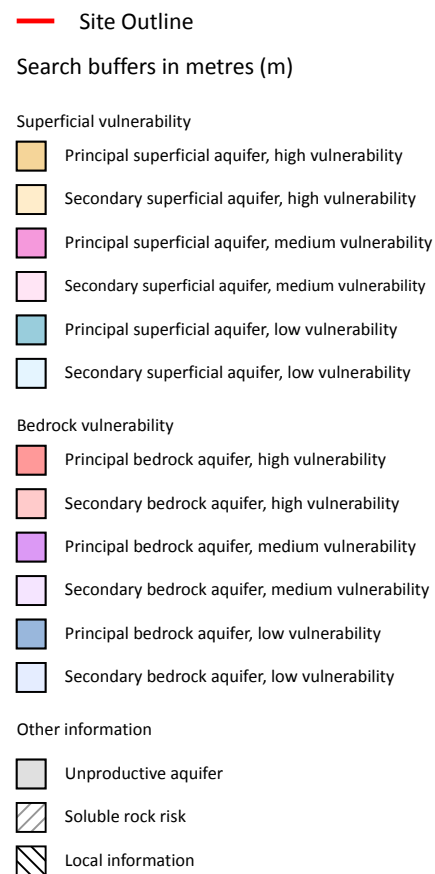
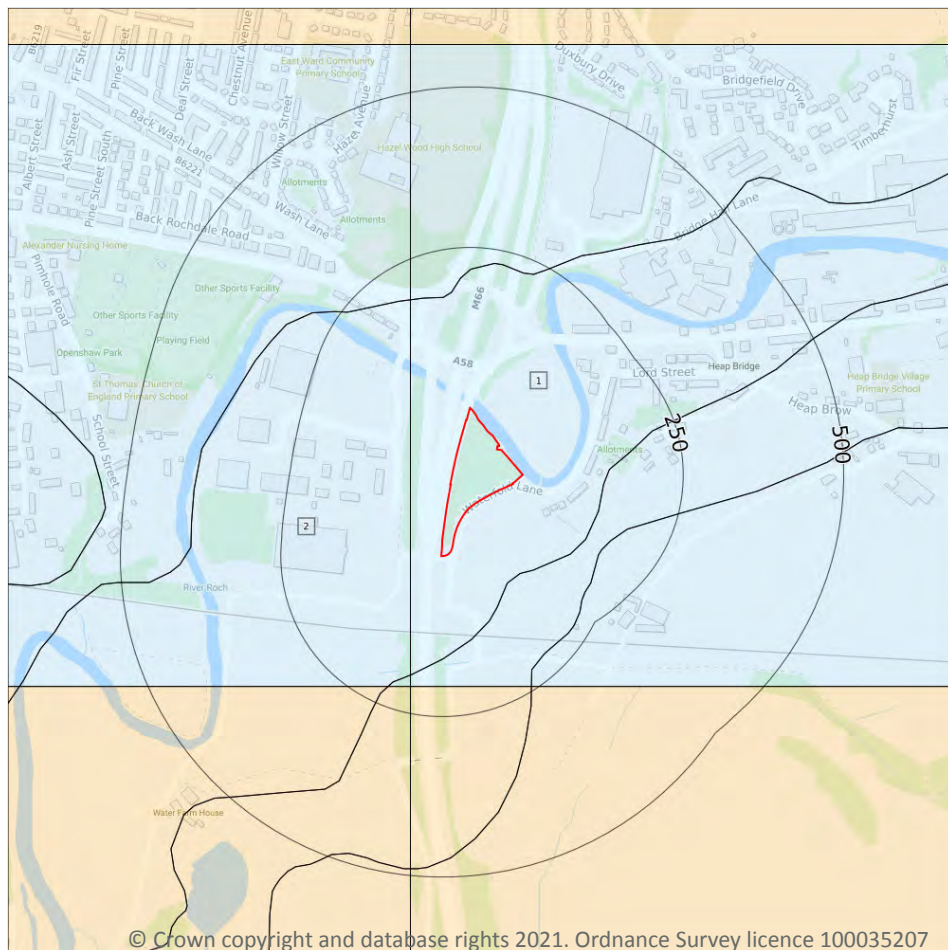
ID	Location	Designation	Description
1	On site	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers
2	203m S	Secondary A	Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers



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

2

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

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

Features are displayed on the Groundwater vulnerability map on **page 53**



ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary superficial aquifer - Low Vulnerability Combined classification: Productive Bedrock Aquifer, Productive Superficial Aquifer	Leaching class: Low Infiltration value: <40% Dilution value: >550mm/year	Vulnerability: Low Aquifer type: Secondary Thickness: 3-10m Patchiness value: >90% Recharge potential: Low	Vulnerability: Low Aquifer type: Secondary Flow mechanism: Well connected fractures
2	48m W	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

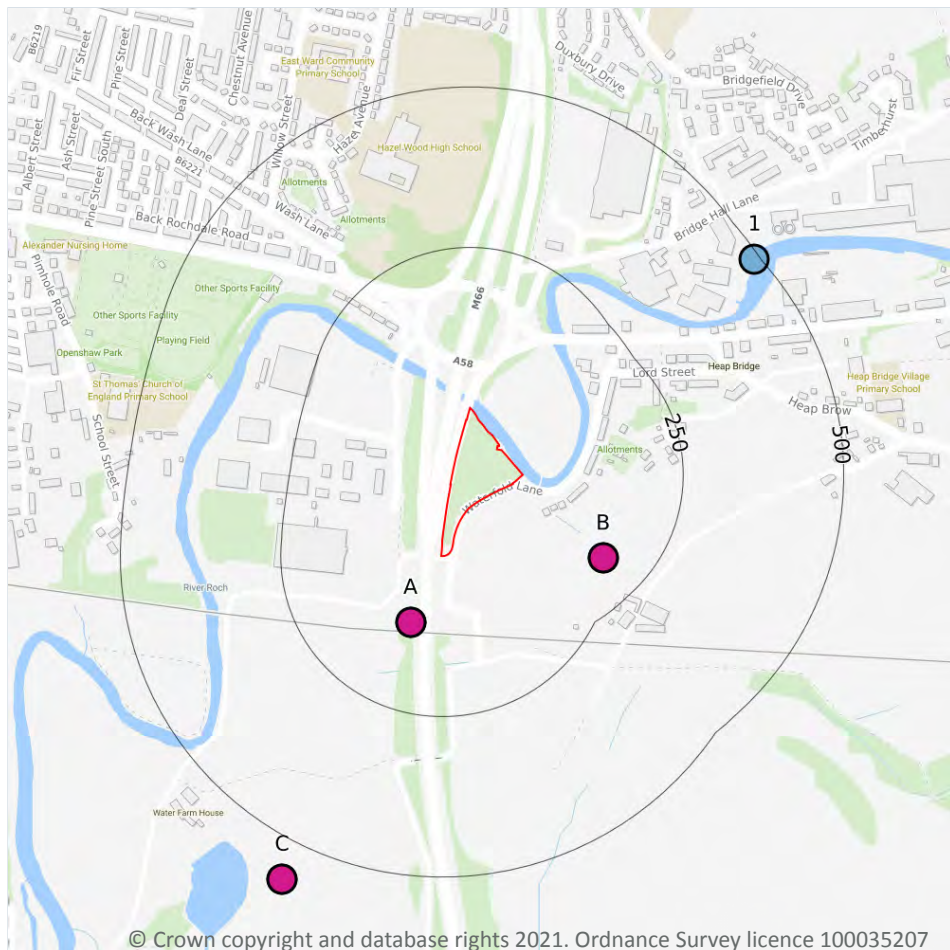
0

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

11

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 55**

ID	Location	Details	
A	113m SW	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATERFOLD FARM, HEAP BRIDGE, NEAR BURY" Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
A	113m SW	Status: Historical Licence No: 2569002085 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATERFOLD FARM, HEAP BRIDGE, NEAR BURY Data Type: Point Name: WILKINSON Easting: 382000 Northing: 410100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
B	180m SE	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE" Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -
B	180m SE	Status: Historical Licence No: 2569002059 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT SPOUT BANK FARM, HEAP BRIDGEBURY, LANCASHIRE Data Type: Point Name: FISH Easting: 382300 Northing: 410200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 15/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 15/02/1966 Version End Date: -



ID	Location	Details	
C	561m SW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: "WELL AT WATER FARM, HEAP BRIDGE, BURY" Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
C	561m SW	Status: Historical Licence No: 2569002063 Details: General use relating to Secondary Category (Medium Loss) Direct Source: Ground Water - North West Region Point: WELL AT WATER FARM, HEAP BRIDGE, BURY Data Type: Point Name: FISH Easting: 381800 Northing: 409700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/02/1966 Expiry Date: - Issue No: 100 Version Start Date: 14/02/1966 Version End Date: -
-	967m NE	Status: Active Licence No: NW/069/0002/010 Details: Process Water Direct Source: Ground Water - North West Region Point: BOREHOLE - NORTHERN MANCHESTER CARBONIFEROUS AQUIFERS Data Type: Point Name: Access Utilities Limited Easting: 382983 Northing: 410861	Annual Volume (m ³): 62,400 Max Daily Volume (m ³): 200 Original Application No: - Original Start Date: 19/09/2018 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 19/09/2018 Version End Date: -
-	1231m SE	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'B' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Poly4 Name: Viridor Waste Management Ltd Easting: 383250 Northing: 409380	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -

ID	Location	Details	
-	1344m S	Status: Active Licence No: NW/069/0002/013 Details: Dewatering Direct Source: Ground Water - North West Region Point: SUMP 'A' AT PILSWORTH LANDFILL SITE, PILSWORTH ROAD, BURY Data Type: Point Name: Viridor Waste Management Ltd Easting: 382340 Northing: 408890	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 31/03/2021 Expiry Date: 31/03/2027 Issue No: 1 Version Start Date: 31/03/2021 Version End Date: -
-	1547m S	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1547m S	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

5.7 Surface water abstractions

Records within 2000m

7

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 55**



ID	Location	Details	
1	492m NE	Status: Active Licence No: NW/069/0002/002 Details: Hydroelectric Power Generation Direct Source: Surface, Non-Tidal - North West Region Point: RIVER ROCH AT HEAP BRIDGE WEIR Data Type: Point Name: Brother Investments Ltd Easting: 382536 Northing: 410666	Annual Volume (m ³): 76,032,000 Max Daily Volume (m ³): 345,600 Original Application No: - Original Start Date: 17/09/2010 Expiry Date: 31/03/2026 Issue No: 2 Version Start Date: 18/09/2015 Version End Date: -
-	1955m S	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1955m S	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -
-	1955m S	Status: Historical Licence No: 2569002088 Details: Process water Direct Source: "Surface, Non-Tidal - North West Region" Point: "BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY" Data Type: Point Name: BORDEN CHEMICAL U K LTD Easting: 382500 Northing: 408300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 100 Version Start Date: 16/05/1996 Version End Date: -

ID	Location	Details	
-	1955m S	Status: Historical Licence No: 2569002088 Details: General Cooling (Existing Licences Only) (Low Loss) Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1955m S	Status: Historical Licence No: 2569002088 Details: General Washing/Process Washing Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -
-	1955m S	Status: Historical Licence No: 2569002088 Details: Process Water Direct Source: Surface, Non-Tidal - North West Region Point: BRIGHTLEY& WHITTLE BRKS @ THEIR CONFLUENCE, ABOVE WEIR, BURY Data Type: Point Name: HEXION SPECIALITY CHEMICALS UK TD Easting: 382500 Northing: 408300	Annual Volume (m ³): 118198 Max Daily Volume (m ³): 681.9 Original Application No: - Original Start Date: 16/03/1966 Expiry Date: - Issue No: 101 Version Start Date: 01/07/2005 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m

2

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 55**



ID	Location	Details	
-	1547m S	Status: Historical Licence No: 2569002272 Details: "Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services" Direct Source: Ground Water - North West Region Point: "BOREHOLE AT PREMISES, PILSWORTH, BURY" Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -
-	1547m S	Status: Historical Licence No: 2569002272 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Commercial/Industrial/Public Services Direct Source: Ground Water - North West Region Point: BOREHOLE AT PREMISES, PILSWORTH, BURY Data Type: Point Name: CASTLEBROOK WATER CO. LTD Easting: 381680 Northing: 408700	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 10/04/2000 Expiry Date: - Issue No: 3 Version Start Date: 10/09/2002 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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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.

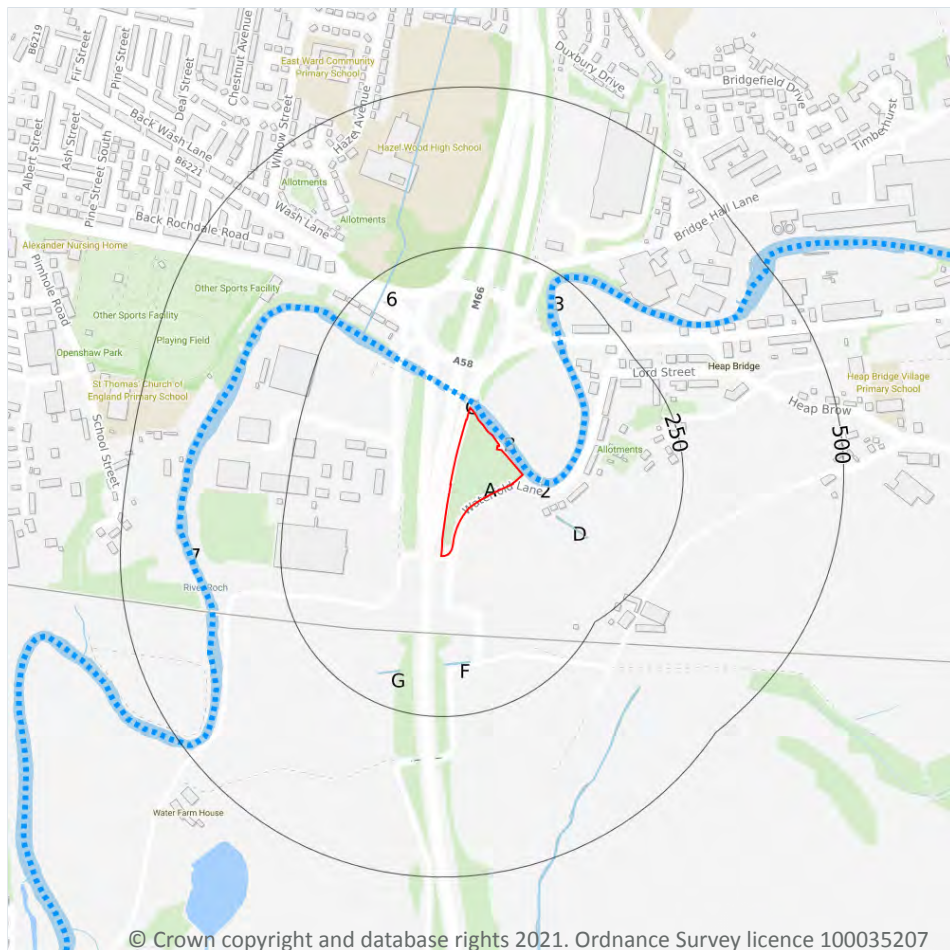
5.10 Source Protection Zones (confined aquifer)

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

11

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 62**

ID	Location	Type of water feature	Ground level	Permanence	Name
B	8m NE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch



ID	Location	Type of water feature	Ground level	Permanence	Name
C	15m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
C	20m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
2	22m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
3	22m E	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch
D	82m SE	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
D	135m SE	Lake, loch or reservoir.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
F	168m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
G	189m S	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
6	201m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	-
7	201m NW	Inland river not influenced by normal tidal action.	On ground surface	Watercourse contains water year round (in normal circumstances)	River Roch

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

10

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 62**



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 62**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River WB catchment	Roch (Spodden to Irwell)	GB112069064600	Roch Irk Medlock	Irwell

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on **page 62**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
1	9m NE	River	Roch (Spodden to Irwell)	GB112069064600	Moderate	Good	Moderate	2016

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



6.5 WFD Groundwater bodies

Records on site

1

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

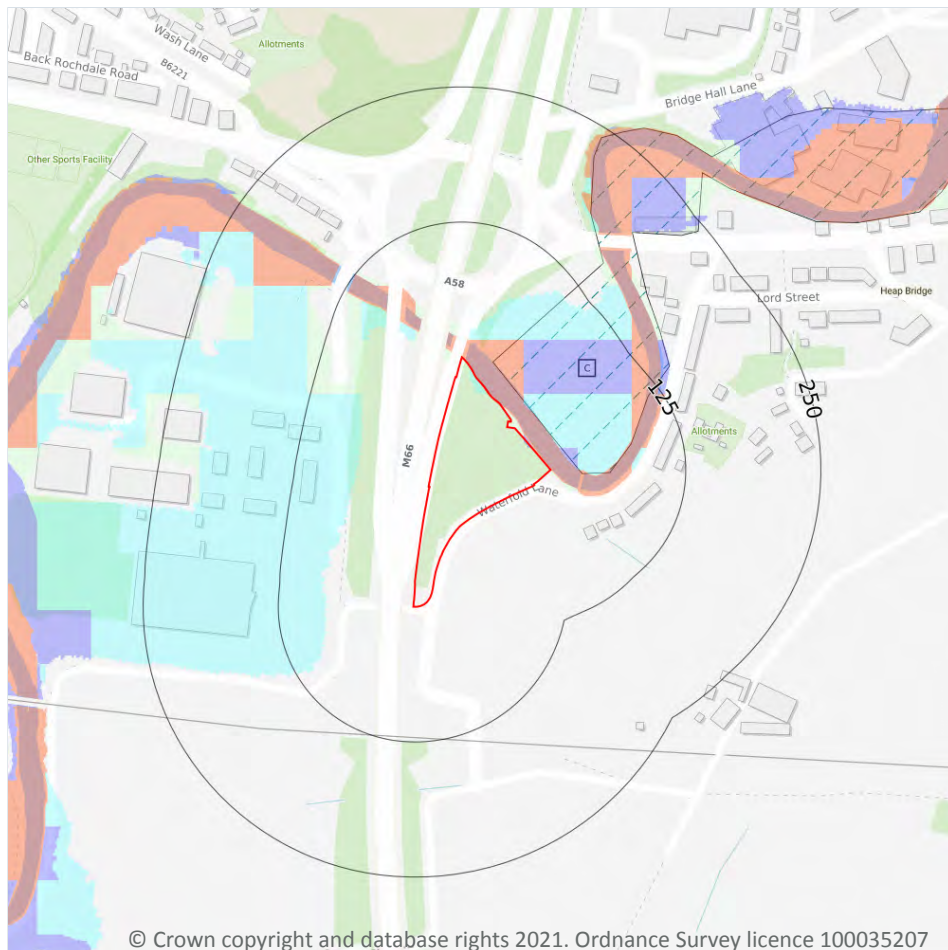
Features are displayed on the Hydrology map on **page 62**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Northern Manchester Carboniferous Aquifers	<u>GB41202G101800</u>	Poor	Poor	Good	2015

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

23

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

Features are displayed on the River and coastal flooding map on **page 66**

Distance	Flood risk category
On site	High
0 - 50m	High

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

7.2 Historical Flood Events

Records within 250m	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 66**

ID	Location	Event name	Date of flood	Flood source	Flood cause	Type of flood
C	19m NE	Heap Bridge	2015-12-26 2015-12-26	Main river	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



- Site Outline
- Search buffers in metres (m)
- Flood zone 2
- Flood zone 3

7.6 Flood Zone 2

Records within 50m

1

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

Features are displayed on the River and coastal flooding map on **page 66**

Location	Type
On site	Zone 2 - (Fluvial /Tidal Models)

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



7.7 Flood Zone 3

Records within 50m

1

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

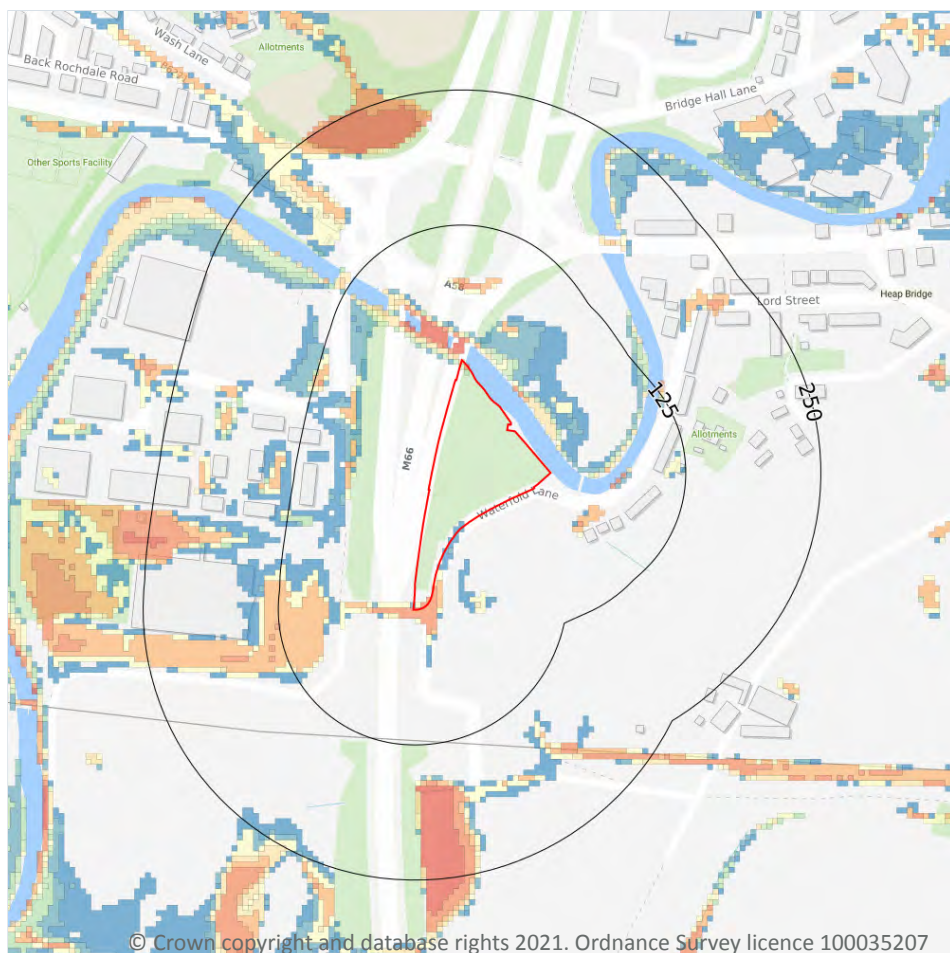
Features are displayed on the River and coastal flooding map on **page 66**

Location	Type
On site	Zone 3 - (Fluvial Models)

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 250 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 100 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

1 in 30 return period

- Depth between 0.1m - 0.3m
- Depth between 0.3m - 1.0m
- Depth greater than 1.0m

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.3m - 1.0m

Highest risk within 50m

1 in 30 year, Greater than 1.0m

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

Features are displayed on the Surface water flooding map on **page 71**

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

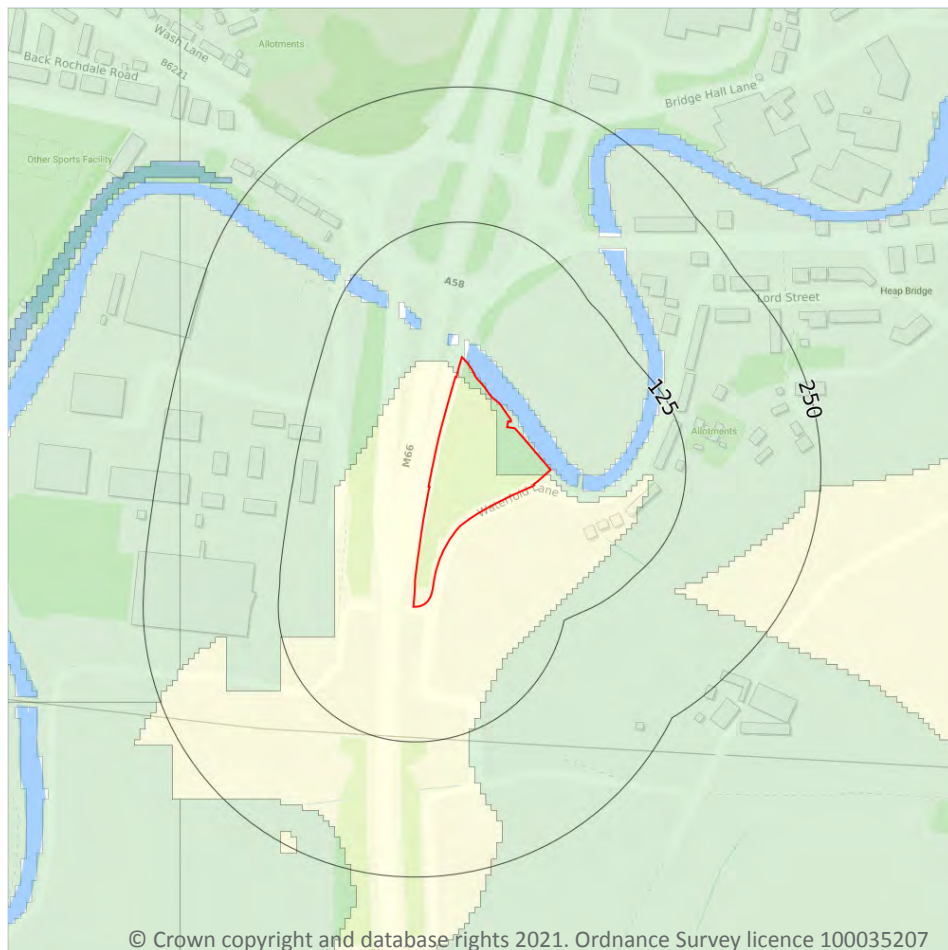
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Greater than 1.0m
1 in 250 year	Greater than 1.0m
1 in 100 year	Greater than 1.0m
1 in 30 year	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

Moderate

Highest risk within 50m

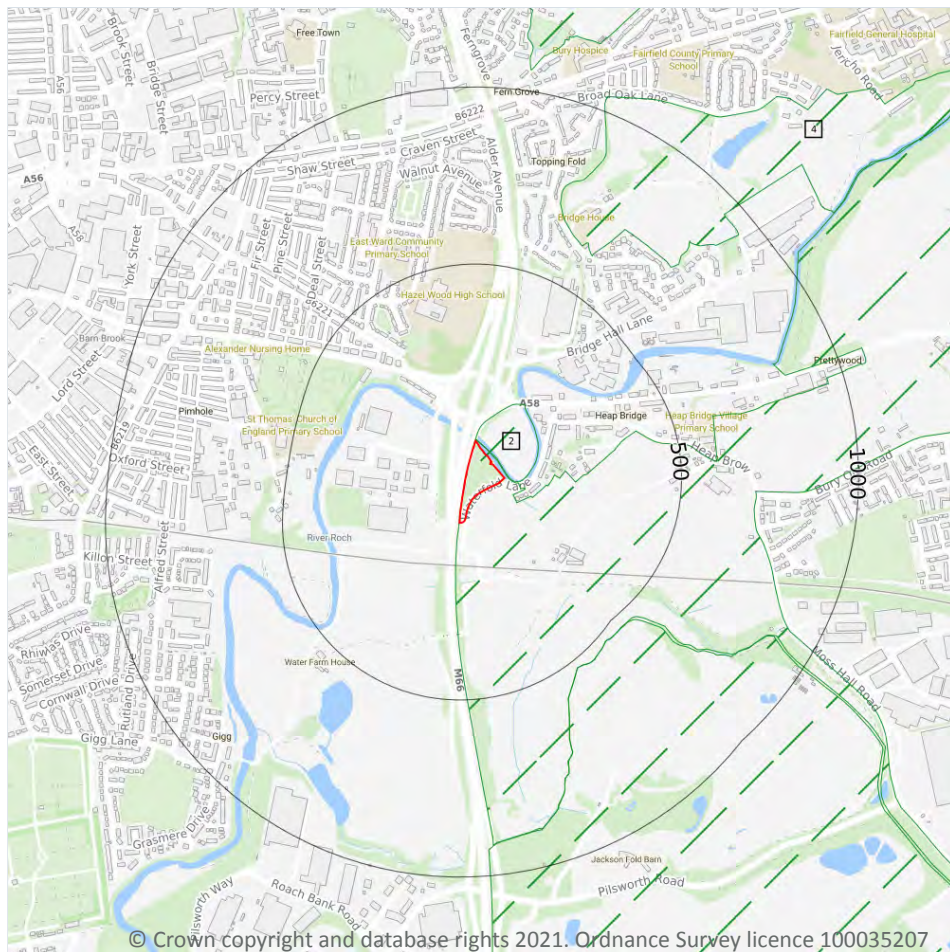
Moderate

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

Features are displayed on the Groundwater flooding map on **page 73**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



- Site Outline
- Search buffers in metres (m)
- + Local Nature Reserves (LNR)
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**2**

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

Features are displayed on the Environmental designations map on **page 74**

ID	Location	Name	Data source
-	1373m N	Chesham Woods	Natural England
-	1586m S	Hollins Vale	Natural England

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

10.7 Designated Ancient Woodland

Records within 2000m**0**

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

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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

10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.



10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

5

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

Features are displayed on the Environmental designations map on **page 74**

ID	Location	Name	Local Authority name
1	On site	Merseyside and Greater Manchester	Rochdale
2	4m NE	Merseyside and Greater Manchester	Bury
3	523m SE	Merseyside and Greater Manchester	Bury
4	619m NE	Merseyside and Greater Manchester	Bury
5	1060m N	Merseyside and Greater Manchester	Bury

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

10.12 Proposed Ramsar sites

Records within 2000m

0

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m

0

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



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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m

0

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m

0

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

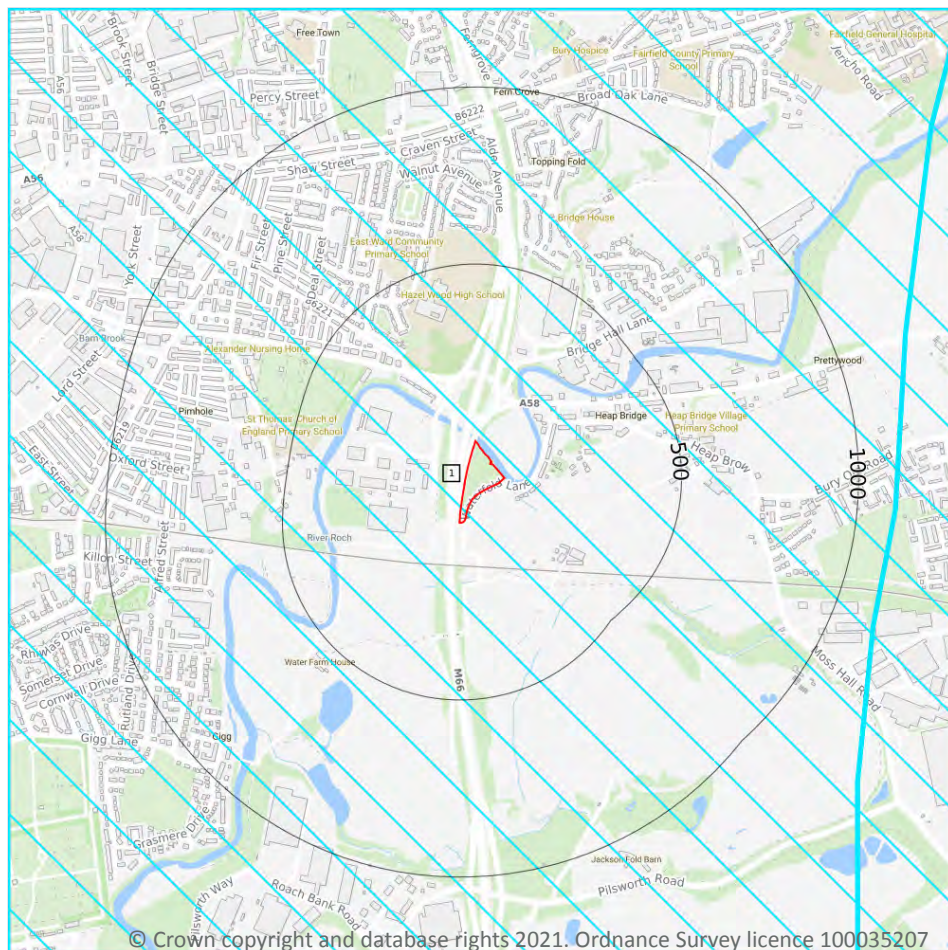
Records within 2000m

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

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 79**

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



This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

0

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

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



This data is sourced from 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

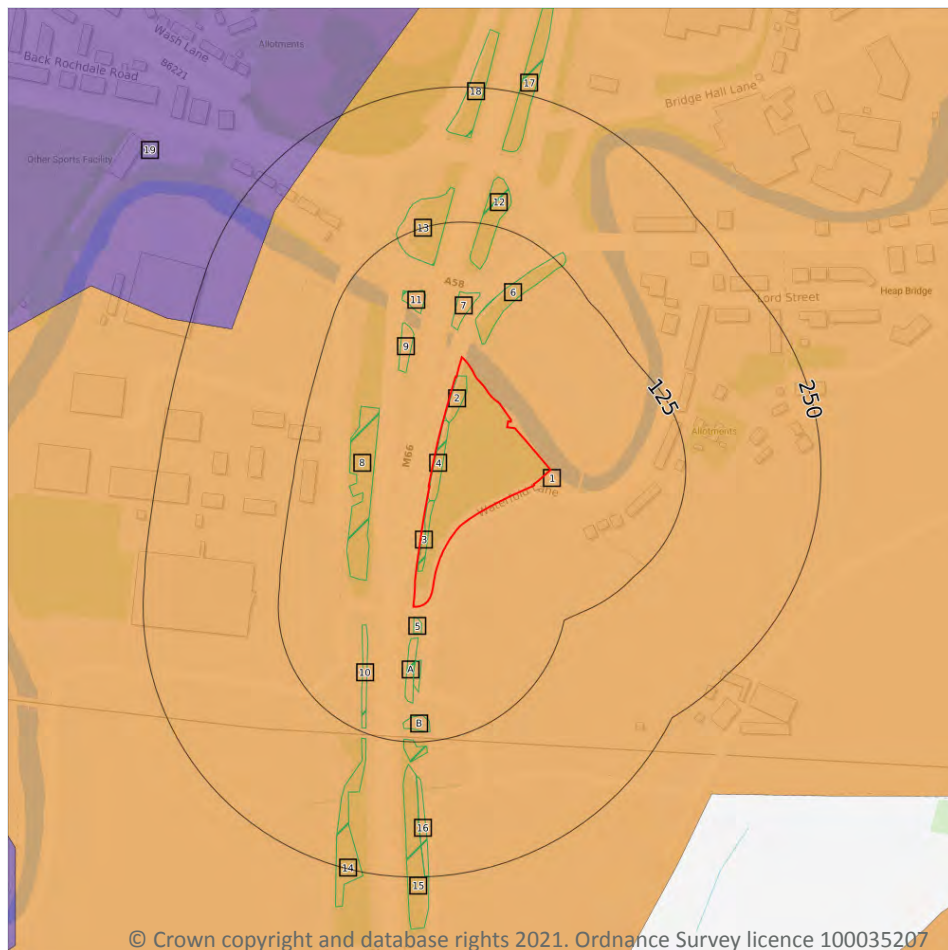
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Parks and gardens assessed to be of particular interest and of special historic interest. The emphasis being on 'designed' landscapes, rather than on planting or botanical importance. Registration is a 'material consideration' in the planning process, 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 83**

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

19 209m W Urban -



This data is sourced from Natural England.

12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

21

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

Features are displayed on the Agricultural designations map on **page 83**

ID	Location	Description	Reference	Application date
2	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
3	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
4	On site	Selective Fell/Thin (Unconditional)	018/366/15-16	-
5	10m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
6	22m NE	Selective Fell/Thin (Unconditional)	018/366/15-16	-
7	25m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
A	29m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
8	45m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
9	45m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
10	47m W	Selective Fell/Thin (Unconditional)	018/366/15-16	-
A	50m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
11	56m NW	Selective Fell/Thin (Unconditional)	018/366/15-16	-
12	83m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
13	89m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-



ID	Location	Description	Reference	Application date
B	100m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
B	123m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
14	130m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
15	146m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
16	156m S	Selective Fell/Thin (Unconditional)	018/366/15-16	-
17	195m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-
18	203m N	Selective Fell/Thin (Unconditional)	018/366/15-16	-

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

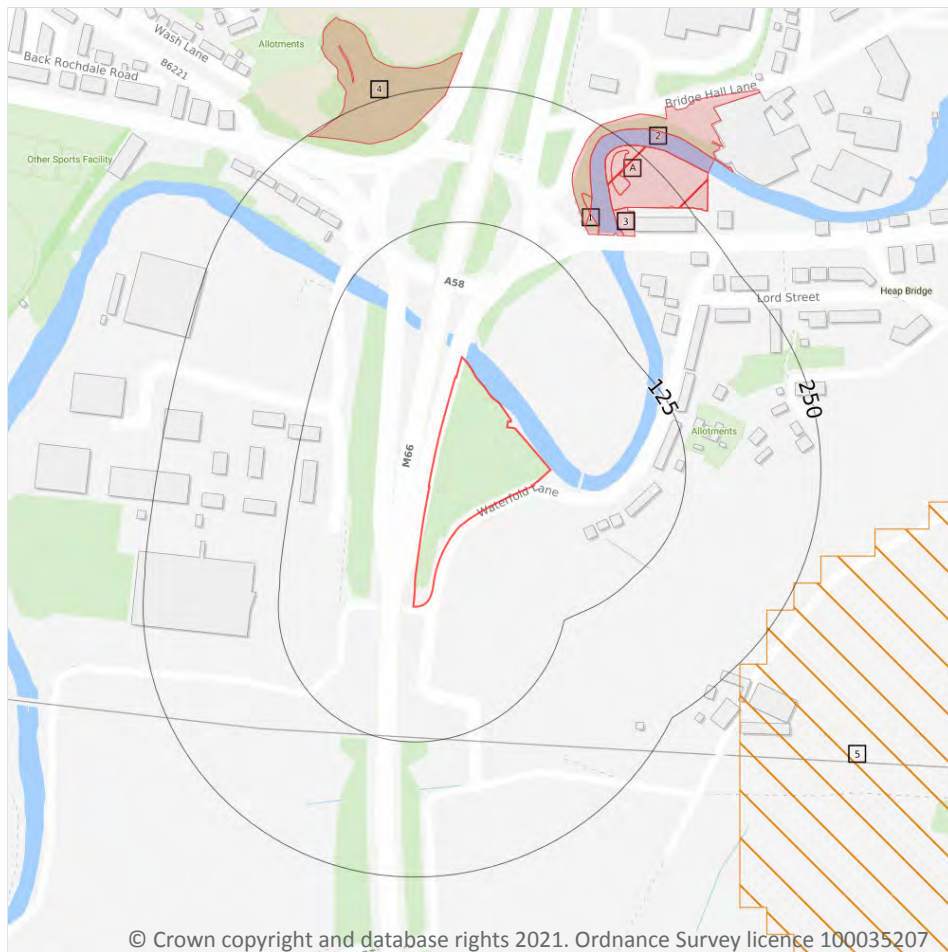
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Countryside Stewardship covers a range of schemes that provide financial incentives to farmers, foresters and land managers to look after and improve the environment. Main objectives are to improve the farmed environment for wildlife and to reduce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

7

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 86**

ID	Location	Main Habitat	Other habitats
1	163m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	166m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	170m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	187m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
A	195m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	209m NE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
4	212m N	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

1

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

Features are displayed on the Habitat designations map on **page 86**

ID	Location	Type	Habitat
5	238m SE	Network Enhancement Zone 1	Not specified

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

1

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

Features are displayed on the Habitat designations map on **page 86**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
A	195m NE	NLUD Ref: 422500155	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.



13.4 Limestone Pavement Orders

Records within 250m

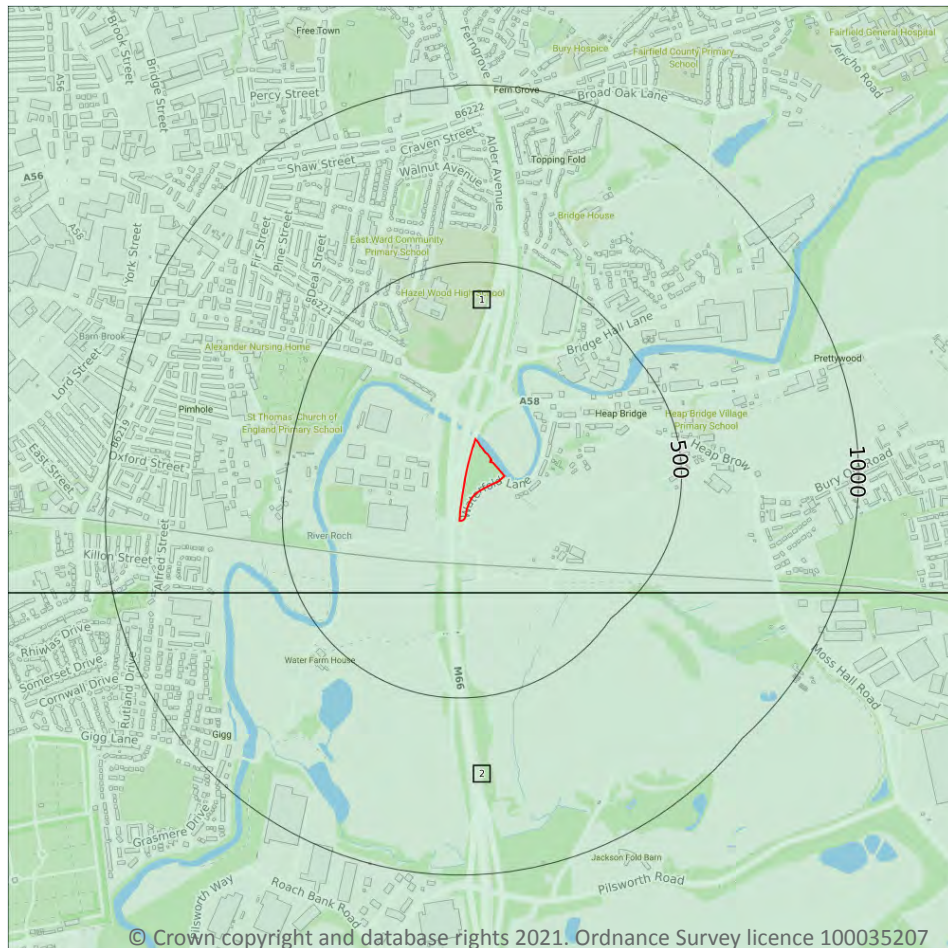
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Limestone pavements are outcrops of limestone where the surface has been worn away by natural means over millennia. These rocks have the appearance of paving blocks, hence their name. Not only do they have geological interest, they also provide valuable habitats for wildlife. These habitats are threatened due to their removal for use in gardens and water features. Many limestone pavements have been designated as SSSIs which affords them some protection. In addition, Section 34 of the Wildlife and Countryside Act 1981 gave them additional protection via the creation of Limestone Pavement Orders, which made it a criminal offence to remove any part of the outcrop. The associated Limestone Pavement Priority Habitat is part of the UK Biodiversity Action Plan priority habitat in England.

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

2

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

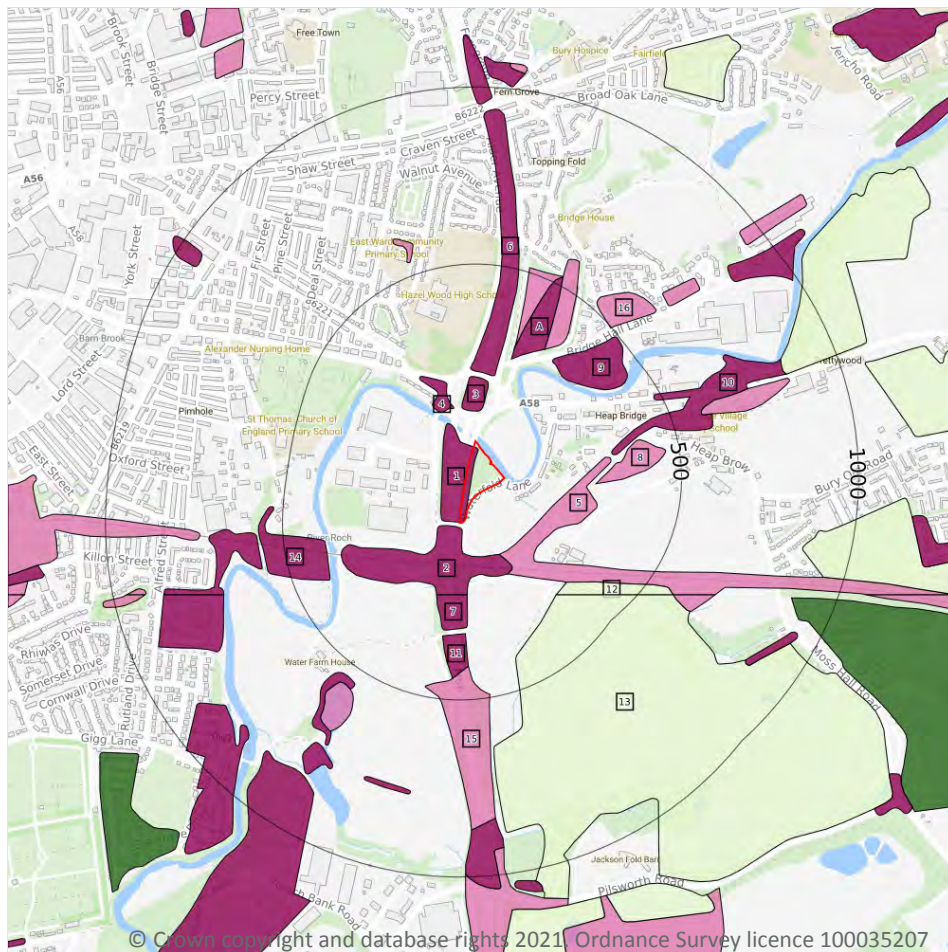
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 89**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SD81SW
2	203m S	Full	Full	Full	Full	SD80NW

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

14.2 Artificial and made ground (10k)

Records within 500m

19

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 90**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	13m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
3	85m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	111m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

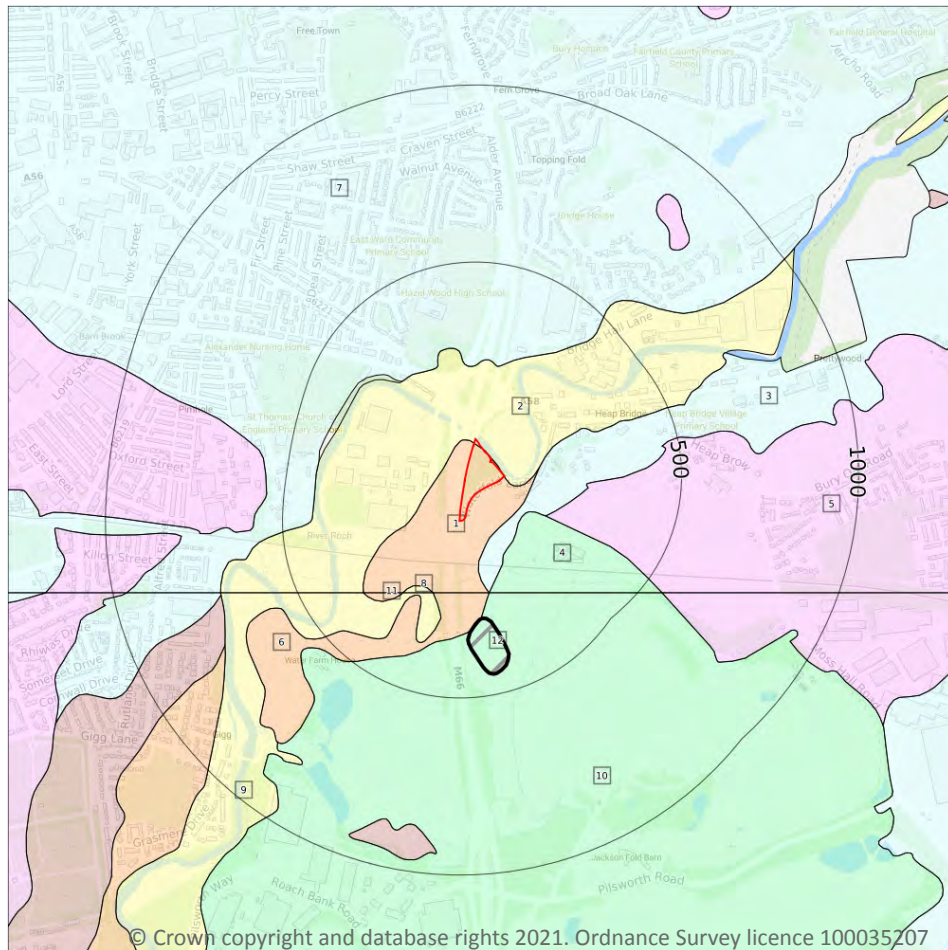


ID	Location	LEX Code	Description	Rock description
5	137m SE	WGR-VOID	Worked Ground (Undivided)	Void
6	191m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	203m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	253m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	259m E	WGR-VOID	Worked Ground (Undivided)	Void
A	285m NE	WGR-VOID	Worked Ground (Undivided)	Void
9	305m NE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
10	311m E	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
11	313m S	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
A	325m NE	WGR-VOID	Worked Ground (Undivided)	Void
12	333m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
13	333m SE	WMGR-ARTDP	Infilled Ground	Artificial Deposit
14	383m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
15	405m S	WGR-VOID	Worked Ground (Undivided)	Void
16	498m NE	WGR-VOID	Worked Ground (Undivided)	Void

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

11

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 92**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
2	On site	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
3	81m SE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton



ID	Location	LEX Code	Description	Rock description
4	118m SE	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
5	160m SE	GFDUD-XSV	Glaciofluvial Deposits, Devensian - Sand And Gravel	Sand And Gravel
6	203m S	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel
7	206m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
8	210m SW	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
9	216m S	ALV-XCZSV	Alluvium - Clay, Silt, Sand And Gravel	Clay, Silt, Sand And Gravel
10	218m S	HMGDD-DMTN	Hummocky (moundy) Glacial Deposits, Devensian - Diamicton	Diamicton
11	259m SW	RTD1-XSV	River Terrace Deposits, 1 - Sand And Gravel	Sand And Gravel

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

1

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

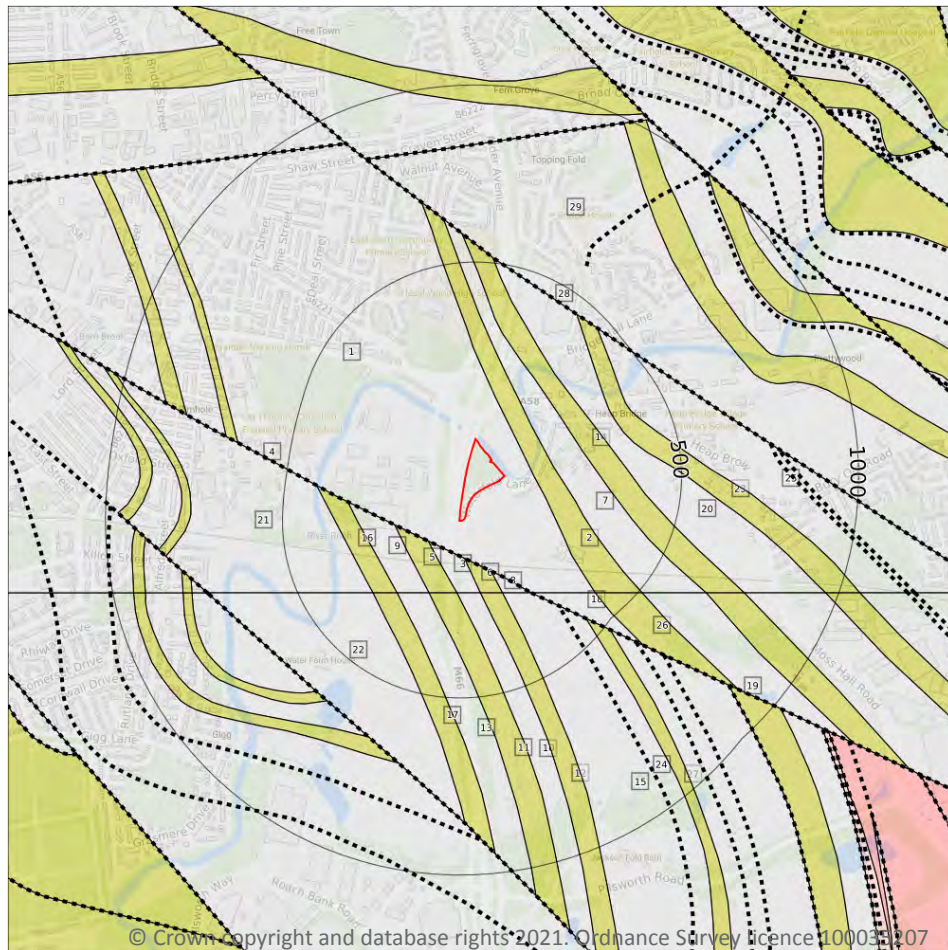
Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 92**

ID	Location	LEX Code	Description	Rock description
12	282m S	SLIP-UNKNOWN	Landslide Deposits	Unknown/unclassified Entry

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



Site Outline

Search buffers in metres (m)

..... Bedrock faults and other linear features (10k)

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

14.5 Bedrock geology (10k)

Records within 500m

25

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 94**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	75m NE	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
3	90m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



ID	Location	LEX Code	Description	Rock age
5	105m SW	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
6	107m S	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
7	134m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
8	165m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	170m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
10	203m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
11	203m S	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
12	210m S	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
13	221m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
14	223m NE	DF-SDST	Darwen Flags - Sandstone	Langsettian Sub-age
15	234m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
16	252m SW	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
17	269m SW	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
18	281m SE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
20	288m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
21	312m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
22	318m SW	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
23	349m NE	HER-SDST	Helpet Edge Rock - Sandstone	Langsettian Sub-age
25	399m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
26	416m SE	MLRS-SDST	Milnrow Sandstone - Sandstone	Langsettian Sub-age
27	444m SE	GAS-SDST	Great Arc Sandstone - Sandstone	Langsettian Sub-age
29	452m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age



This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

4

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 94**

ID	Location	Category	Description
4	90m SW	FAULT	Normal fault, inferred; crossmarks on downthrow side
19	281m SE	FAULT	Normal fault, inferred; crossmarks on downthrow side
24	361m SE	FOSSIL_HORIZON	Fossil horizon, marine band
28	452m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

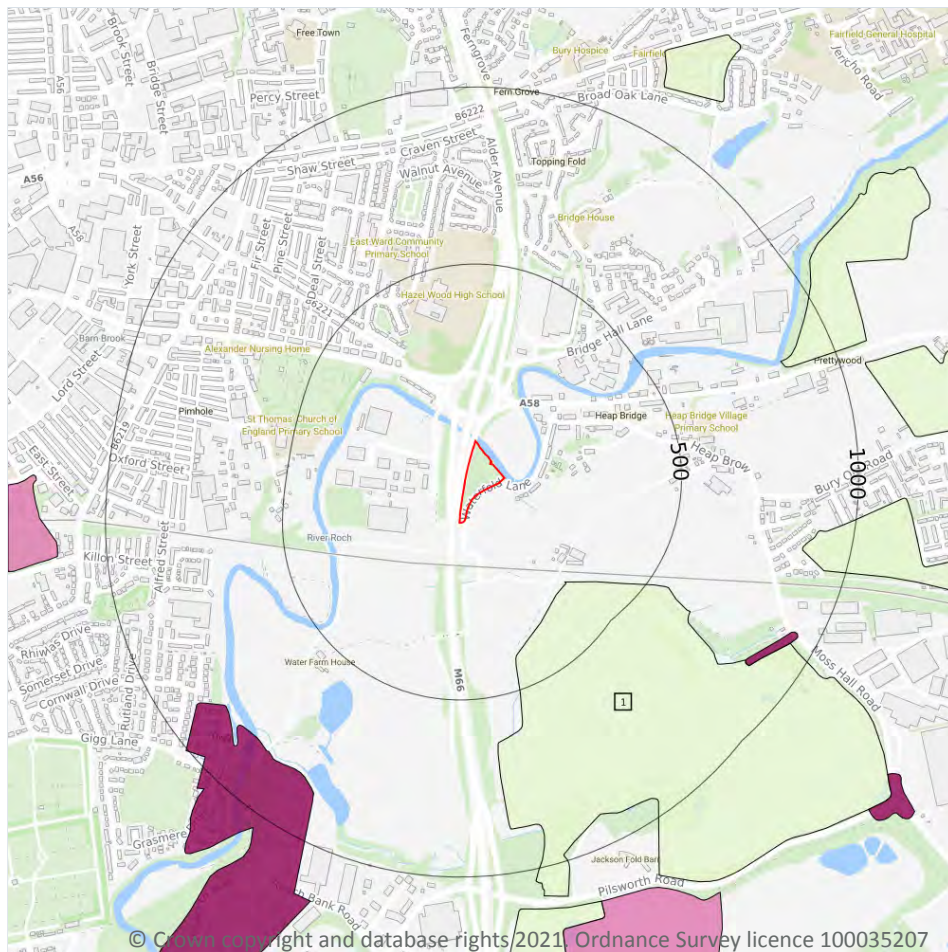
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 97**

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 98**

ID	Location	LEX Code	Description	Rock description
1	333m SE	WMGR-ARTDP	INFILLED GROUND	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

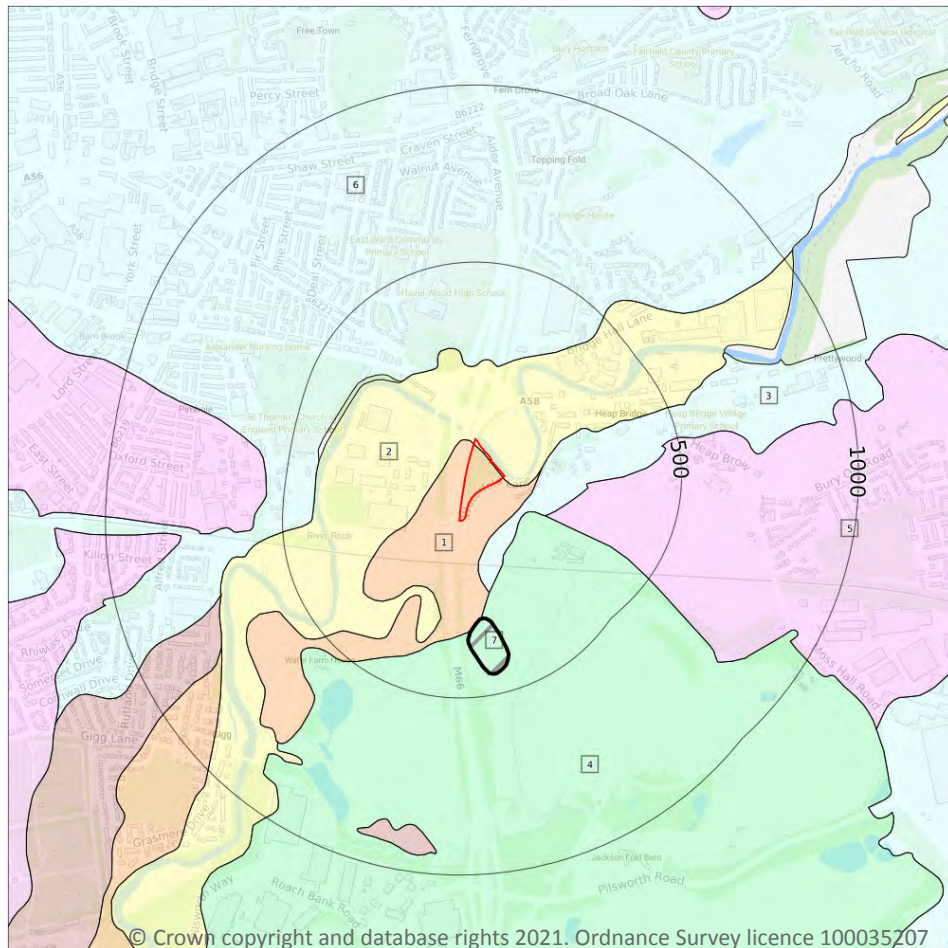
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

6

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 100**

ID	Location	LEX Code	Description	Rock description
1	On site	RTD1-XSV	RIVER TERRACE DEPOSITS, 1	SAND AND GRAVEL
2	On site	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL
3	89m SE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON



ID	Location	LEX Code	Description	Rock description
4	117m SE	HMGDD-DMTN	HUMMOCKY (MOUNDY) GLACIAL DEPOSITS, DEVENSIAN	DIAMICTON
5	160m SE	GFDUD-XSV	GLACIOFLUVIAL DEPOSITS, DEVENSIAN	SAND AND GRAVEL
6	205m N	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

2

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 100**

ID	Location	LEX Code	Description	Rock description
7	282m S	SLIP-UNKNOWN	LANDSLIDE DEPOSITS	UNKNOWN/UNCLASSIFIED ENTRY

This data is sourced from the British Geological Survey.



15.7 Landslip permeability (50k)

Records within 50m

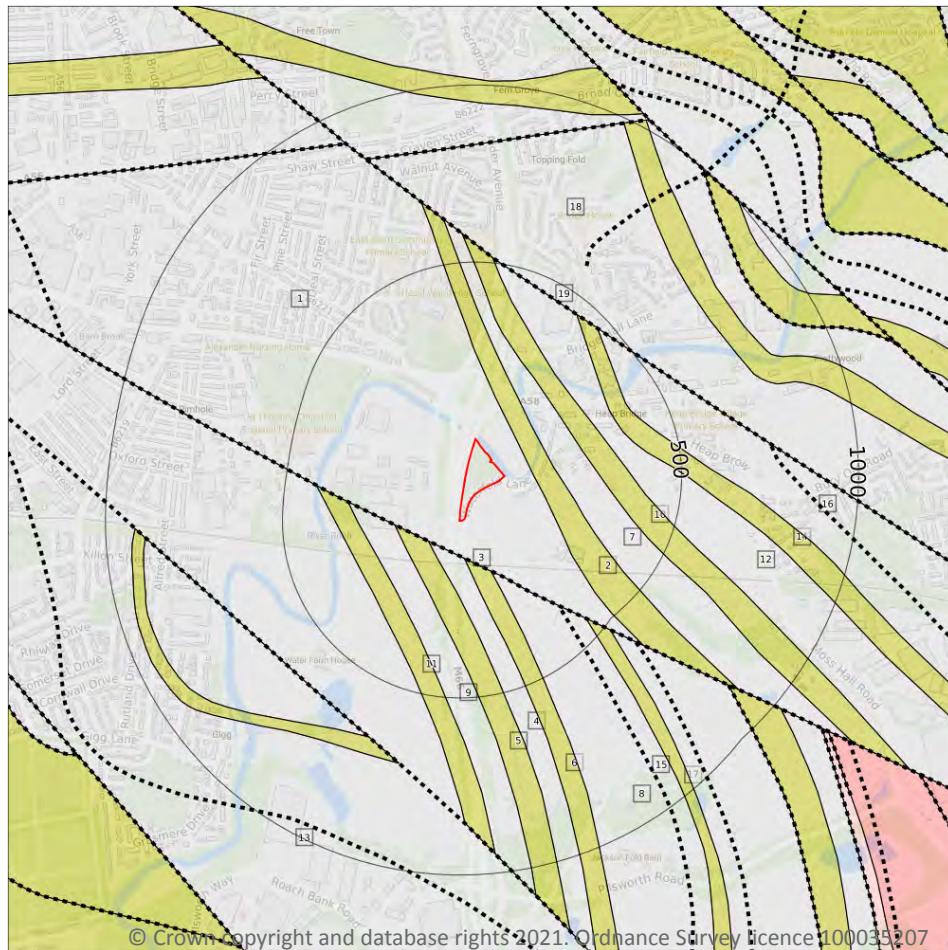
0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

16

Bedrock geology at 1:50,000 scale. The main mass of rocks forming the Earth and present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 103**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
2	75m NE	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
4	90m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN



ID	Location	LEX Code	Description	Rock age
5	105m SW	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
6	107m S	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
7	134m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
8	165m SE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	170m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
10	223m NE	DF-SDST	DARWEN FLAGS - SANDSTONE	WESTPHALIAN
11	252m SW	MLRS-SDST	MILNROW SANDSTONE - SANDSTONE	WESTPHALIAN
12	287m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
13	312m SW	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
14	349m NE	HER-SDST	HELPET EDGE ROCK - SANDSTONE	WESTPHALIAN
16	399m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
17	444m SE	GAS-SDST	GREAT ARC SANDSTONE - SANDSTONE	WESTPHALIAN
18	452m 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

1

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

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

This data is sourced from the British Geological Survey.



15.10 Bedrock faults and other linear features (50k)

Records within 500m

3

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.

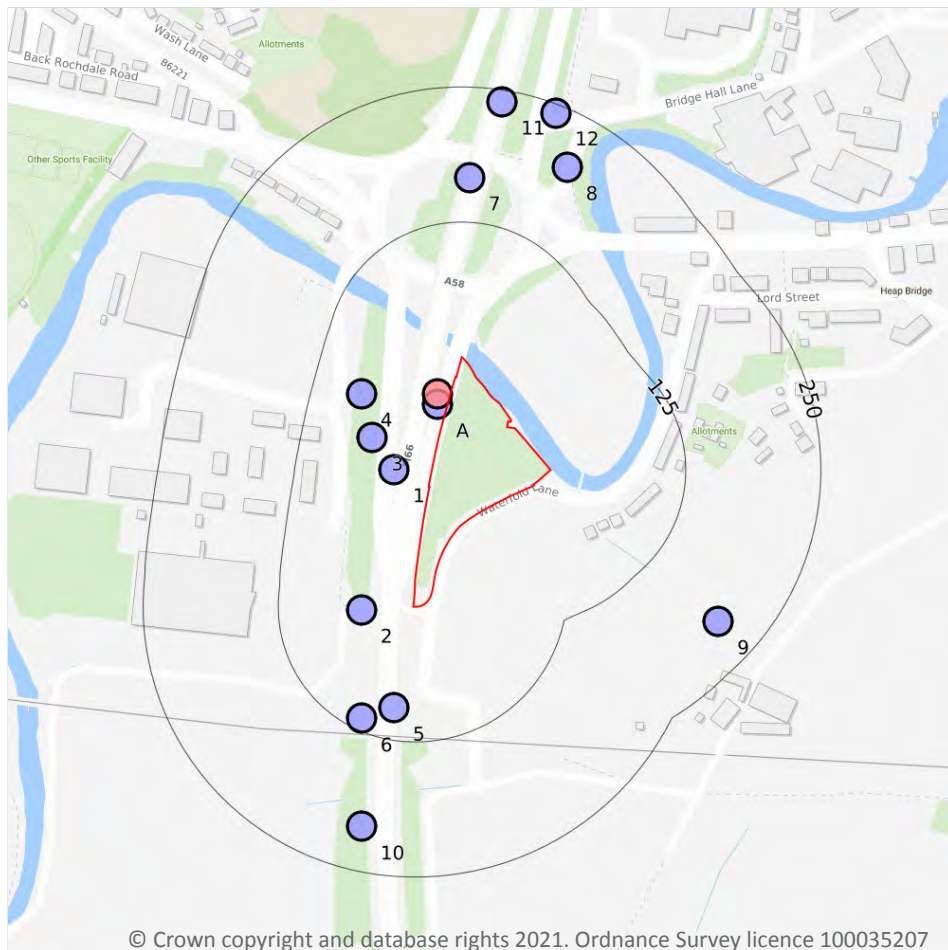
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 103**

ID	Location	Category	Description
3	89m SW	FAULT	Fault, inferred
15	362m SE	FOSSIL_HORIZON	Marine band
19	452m NE	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

14

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

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

ID	Location	Grid reference	Name	Length	Confidential	Web link
A	9m W	382070 410390	M66 BURY-EASTERLY BY-PASS. 50B	-2.0	N	30430
A	12m W	382070 410400	VEMONS WATERFOLD MILL, BURY	186.84	N	30334
1	35m W	382030 410330	M66 BURY-EASTERLY BY-PASS. 50	-2.0	N	30428

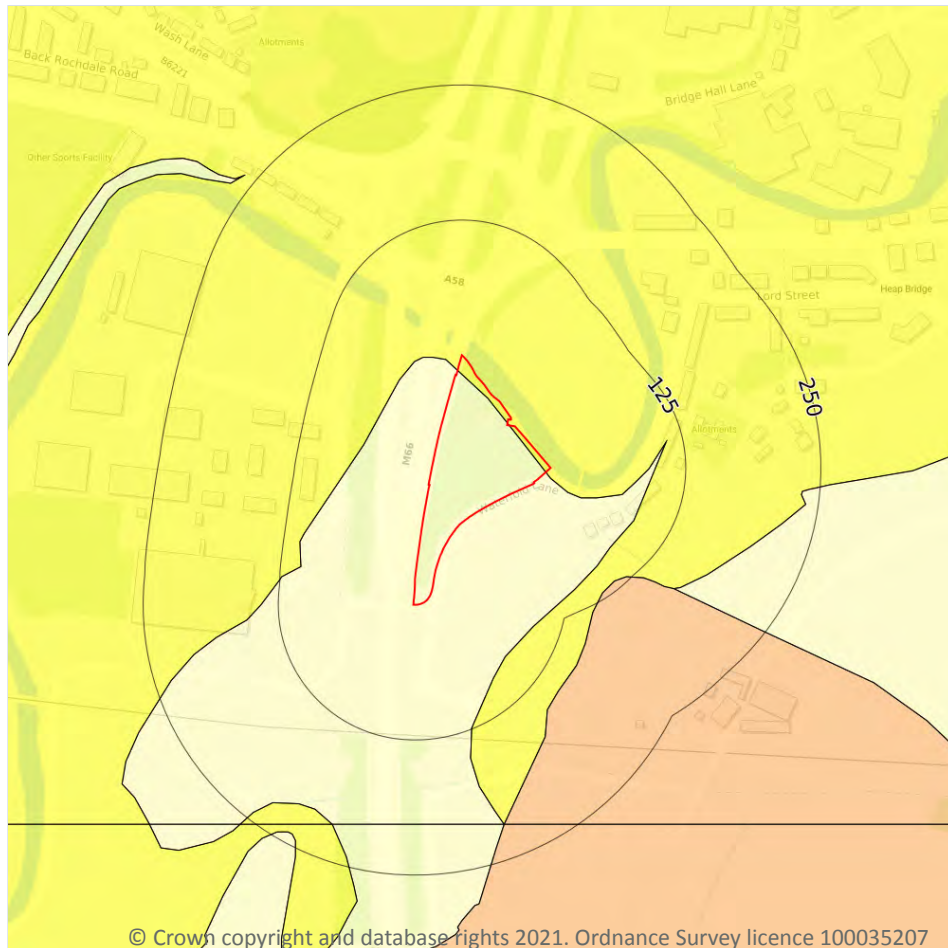


ID	Location	Grid reference	Name	Length	Confidential	Web link
2	48m W	382000 410200	M66 BURY-EASTERLY BY-PASS. 5860/1-4	-2.0	N	30427
3	60m W	382010 410360	M66 BURY-EASTERLY BY-PASS. 50A	-2.0	N	30429
4	79m W	382000 410400	M66 BURY-EASTERLY BY-PASS. 5862/1-10	-2.0	N	30431
5	95m S	382030 410110	M66 BURY-EASTERLY BY-PASS. 5859/3	-2.0	N	30426
6	114m SW	382000 410100	R. WILKINSON	-2.0	N	30588
7	166m N	382100 410600	M66 BURY-EASTERLY BY-PASS. 5856/6-8	-2.0	N	30432
8	201m NE	382190 410610	BRIDGEHALL LN BURY 1	10.0	N	30504
9	209m SE	382330 410190	T.S. FISH	-2.0	N	30589
10	209m S	382000 410000	M66 BURY-EASTERLY BY-PASS. BR1-4	-2.0	N	30425
11	239m N	382130 410670	M66 BURY-EASTERLY BY-PASS. 51	-2.0	N	30433
12	242m N	382180 410660	BRIDGEHALL LN BURY 2	10.0	N	30505

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.1 Shrink swell clays

Records within 50m

2

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

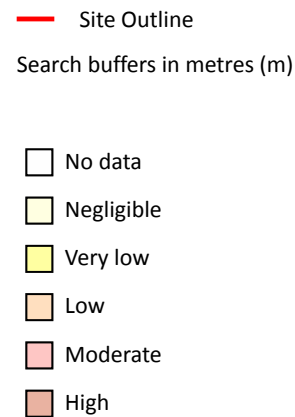
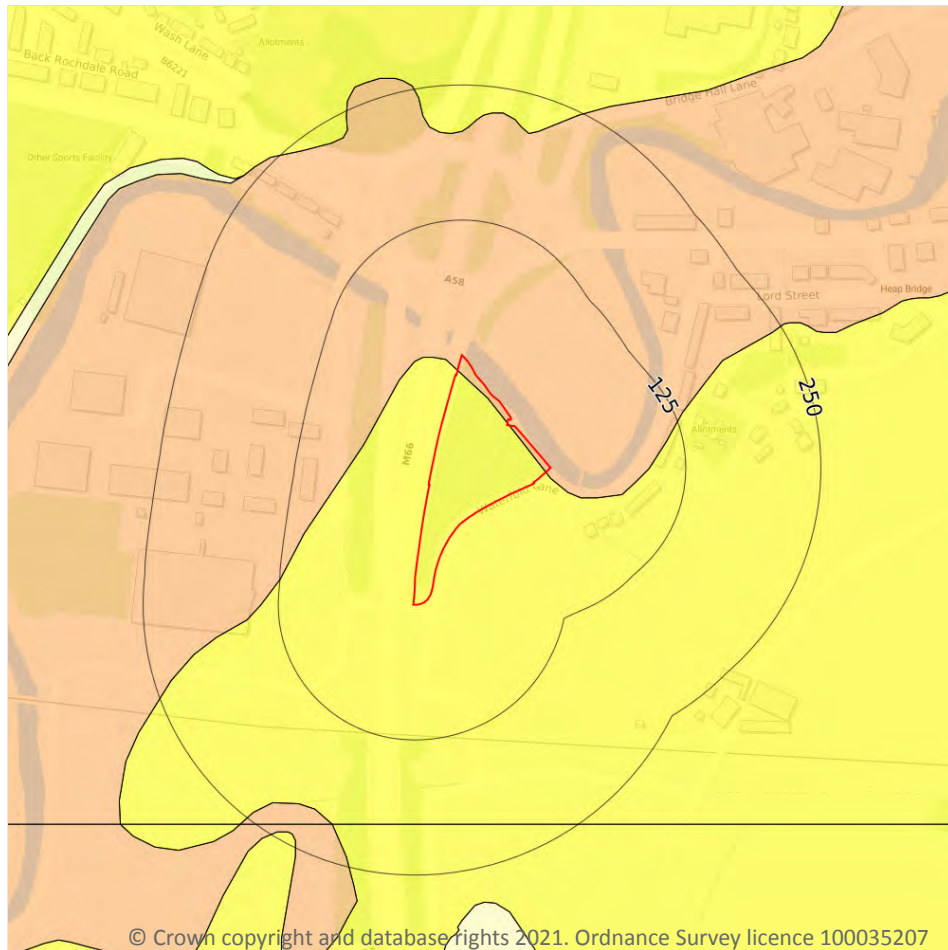
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 108**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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17.2 Running sands

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Running sands map on **page 109**

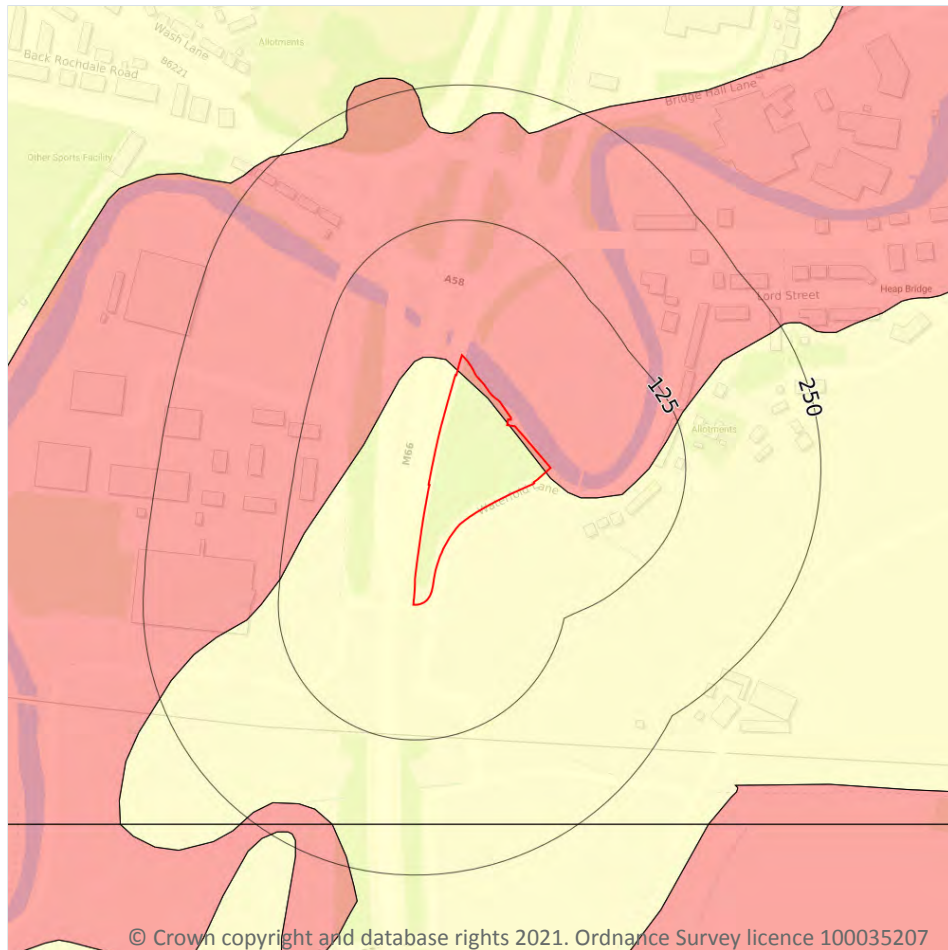
Location	Hazard rating	Details
On site	Very low	Running sand conditions are unlikely. No identified constraints on land use due to running conditions unless water table rises rapidly.

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



— Site Outline
Search buffers in metres (m)

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

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17.3 Compressible deposits

Records within 50m

2

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

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 111**

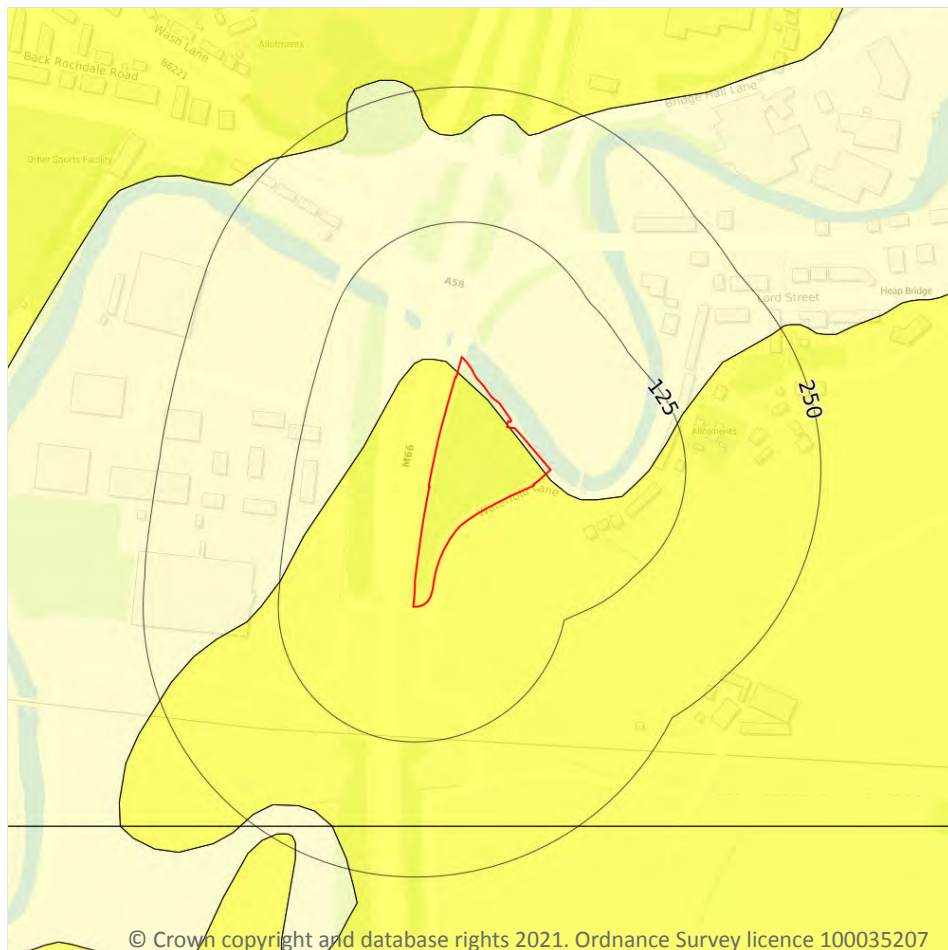
Location	Hazard rating	Details
On site	Negligible	Compressible strata are not thought to occur.
On site	Moderate	Compressibility and uneven settlement hazards are probably present. Land use should consider specifically the compressibility and variability of the site.



This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



- Site Outline
- Search buffers in metres (m)
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.4 Collapsible deposits

Records within 50m

2

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

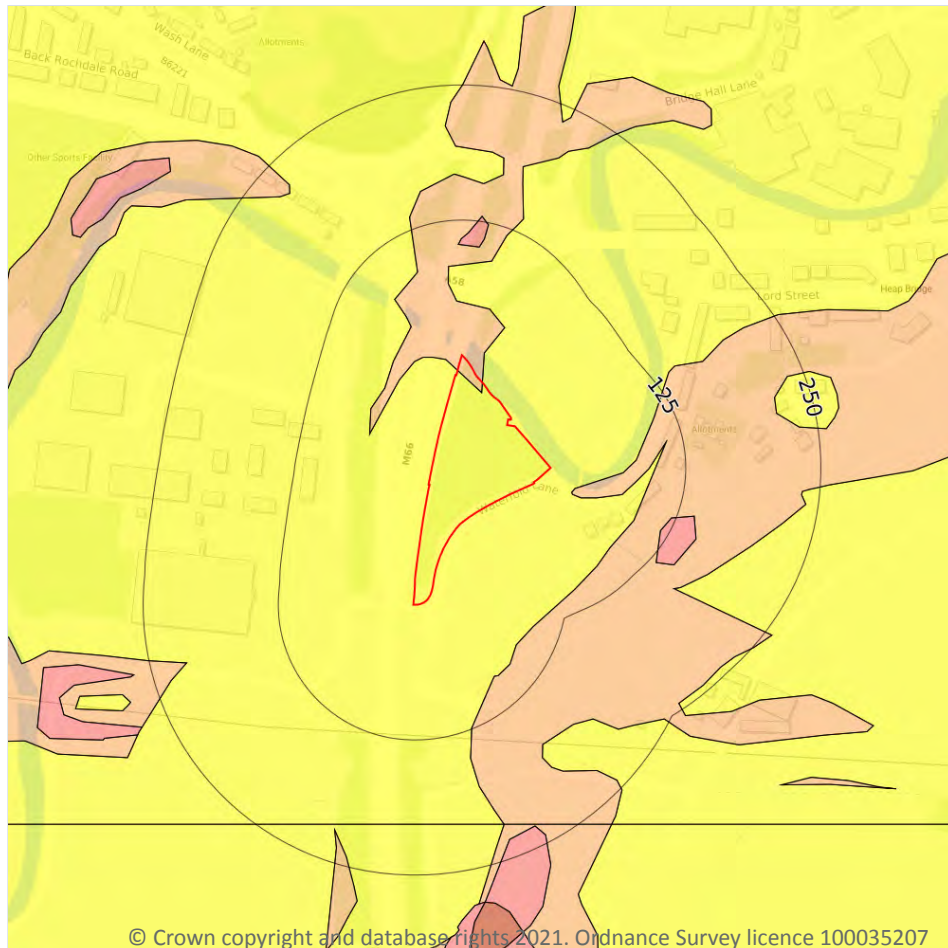
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 113**

Location	Hazard rating	Details
On site	Negligible	Deposits with potential to collapse when loaded and saturated are believed not to be present.
On site	Very low	Deposits with potential to collapse when loaded and saturated are unlikely to be present.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



— Site Outline
Search buffers in metres (m)

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

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17.5 Landslides

Records within 50m

3

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 114**

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



Location	Hazard rating	Details
On site	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.
30m SE	Low	Slope instability problems may be present or anticipated. Site investigation should consider specifically the slope stability of the site.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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- Site Outline**
- Search buffers in metres (m)**
- ☐ No data
 - ☐ Negligible
 - ☐ Very low
 - ☐ Low
 - ☐ Moderate
 - ☐ High

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 116**

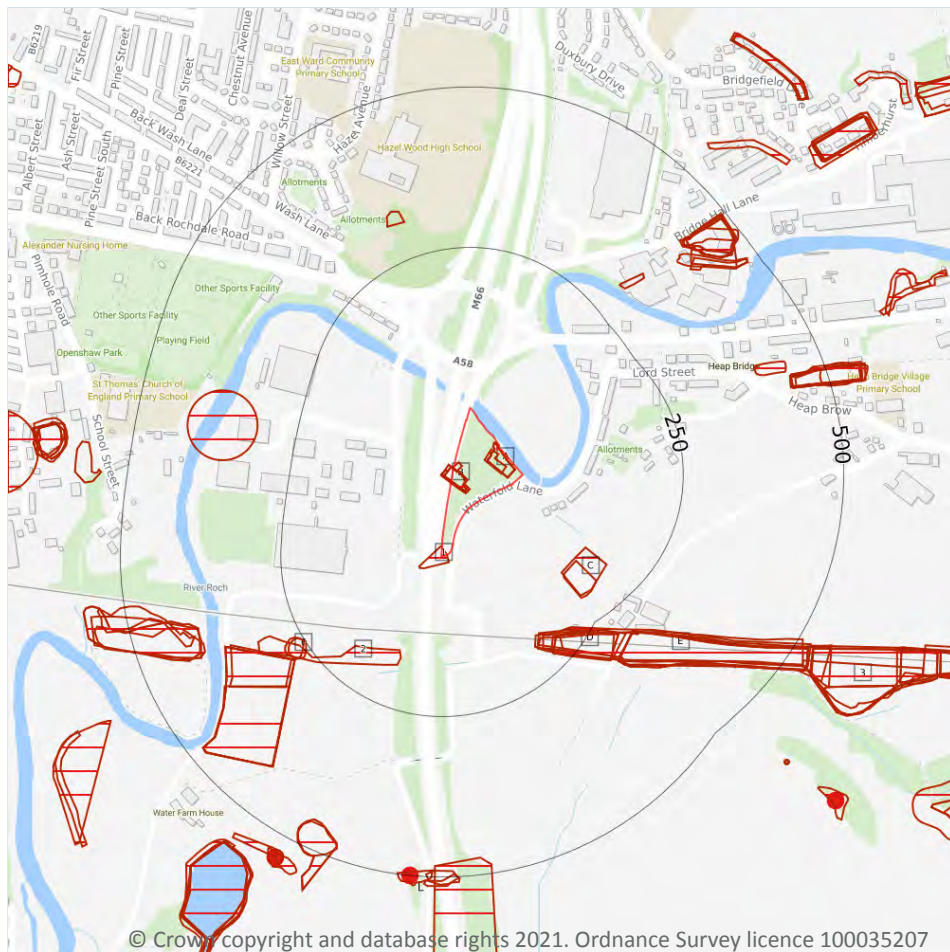
Location	Hazard rating	Details
On site	Negligible	Soluble rocks are either not thought to be present within the ground, or not prone to dissolution. Dissolution features are unlikely to be present.



This data is sourced from the British Geological Survey.



18 Mining, ground workings and natural cavities



- Site Outline
- Search buffers in metres (m)
- Natural cavities (Area)
- Natural cavities (Point)
- BritPits
- Surface ground workings
- Underground workings
- Historical Mineral Planning Areas
- Mining Cavities
- Non Coal Mining
 - Sporadic underground mining of restricted extent possible
 - Localised small scale underground mining possible
 - Small scale mining possible
 - Underground mining known or likely within or in close proximity
 - Underground mining known within or in very close proximity

18.1 Natural cavities

Records within 500m

0

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

This data is sourced from Stantec UK Ltd.

18.2 BritPits

Records within 500m

1

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 118**

ID	Location	Details	Description
L	499m S	Name: Peacock Hall Sand Pit Address: Gigg, BURY, Lancashire Commodity: Sand Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

21

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 118**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Unspecified Pit	1928	1:10560
A	On site	Filter Beds	1928	1:10560
A	On site	Filter Beds	1908	1:10560
A	On site	Filter Beds	1956	1:10560
A	On site	Filter Beds	1938	1:10560
B	On site	Ponds	1956	1:10560
B	On site	Reservoirs	1938	1:10560
B	On site	Reservoirs	1928	1:10560
B	On site	Ponds	1908	1:10560
C	150m SE	Cuttings	1967	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	155m SE	Cuttings	1983	1:10000
2	160m SW	Unspecified Ground Workings	1983	1:10000
D	186m SE	Cuttings	1851	1:10560
E	187m SE	Cuttings	1967	1:10560
D	194m SE	Cuttings	1908	1:10560
E	194m SE	Cuttings	1983	1:10000
E	207m SE	Cuttings	1956	1:10560
D	210m SE	Cuttings	1938	1:10560
D	210m SE	Cuttings	1928	1:10560
3	214m SE	Cuttings	1891	1:10560
F	249m SW	Unspecified Pit	1938	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.



18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site

0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site

1

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

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

This data is sourced from the Coal Authority.



18.10 Brine areas

Records on site	0
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The Cheshire Brine Compensation District indicates areas that may be affected by salt and brine extraction in Cheshire and where compensation would be available where damage from this mining has occurred. Damage from salt and brine mining can still occur outside this district, but no compensation will be available.

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

18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 Tin mining

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

This data is sourced from Groundsure.

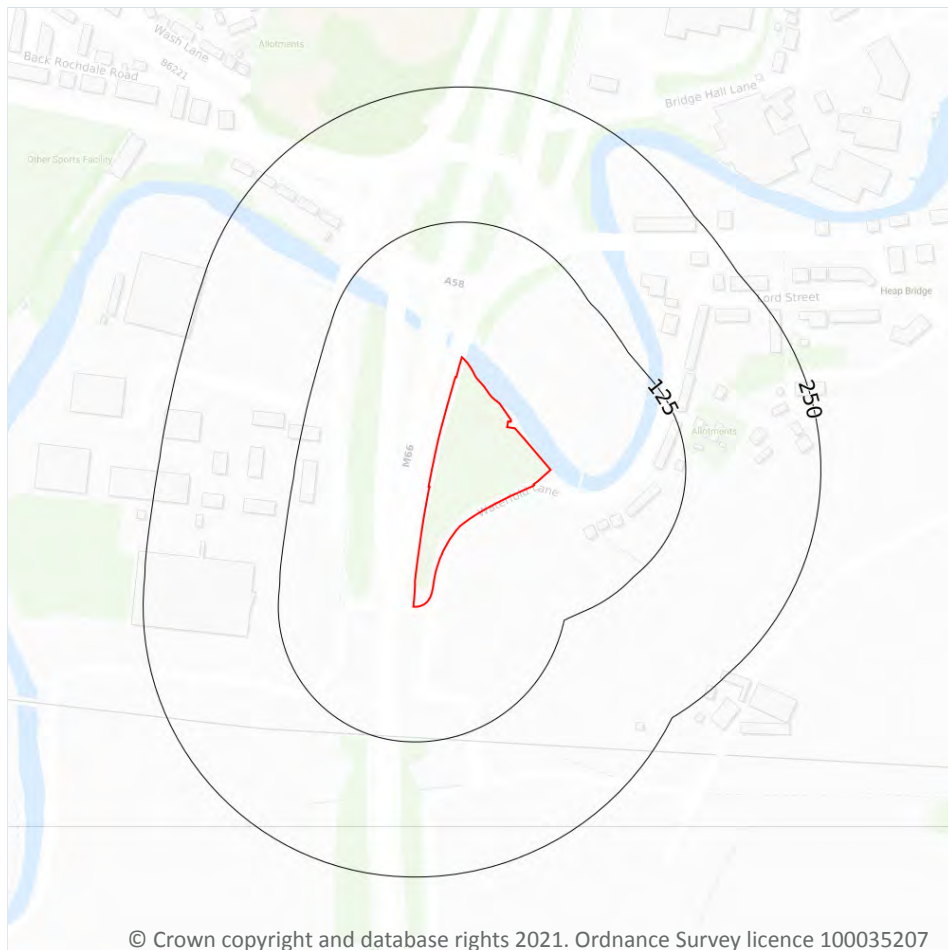
18.13 Clay mining

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

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

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

19 Radon



- Site Outline**
- Search buffers in metres (m)**
- Greater than 30%
 - Between 10% and 30%
 - Between 5% and 10%
 - Between 3% and 5%
 - Between 1% and 3%
 - Less than 1%

19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 123**

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
On site	25 - 35 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
48m SW	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg
49m NE	15 - 25 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



20.3 BGS Measured Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)**
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- 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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

21

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 126**

Location	Land Use	Year of mapping	Mapping scale
85m S	Railway Sidings	1938	10560
85m S	Railway Sidings	1928	10560
85m S	Railway Sidings	1908	10560
87m S	Railway	1893	-
96m S	Railway Sidings	1891	10560
97m S	Railway Sidings	1956	10560
97m S	Railway Sidings	1967	10560
107m S	Railway Sidings	1891	2500
107m S	Railway Sidings	1910	2500
107m S	Railway Sidings	1930	2500
107m S	Railway Sidings	1937	2500
110m S	Railway	1889	-
114m SW	Railway Sidings	1957	1250
130m SE	Railway Sidings	1890	2500
140m SE	Railway Sidings	1910	2500
155m SE	Railway Sidings	1957	2500
159m SE	Railway Sidings	1970	2500



Location	Land Use	Year of mapping	Mapping scale
160m SE	Railway Sidings	1930	2500
164m SE	Railway Sidings	1937	2500
165m SE	Railway Sidings	1890	2500
200m W	Railway	1910	-

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m **0**

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

This data is sourced from Groundsure/the Postal Museum.

21.6 Historical railways

Records within 250m **1**

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

Features are displayed on the Railway infrastructure and projects map on **page 126**

Location	Description
135m S	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m **9**

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

Features are displayed on the Railway infrastructure and projects map on **page 126**

Location	Name	Type
119m S	Not given	Preserved



Location	Name	Type
120m S	Not given	Preserved
121m S	Not given	Single Track
122m S	East Lancashire Railway	rail
124m S	East Lancashire Railway	rail
133m SW	Not given	Preserved
136m SW	East Lancashire Railway	rail
186m SE	Not given	Single Track
250m SE	East Lancashire Railway	rail

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1890-1891

Scale: 1:2,500

Printed at: 1:2,500



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Surveyed 1890
Revised 1890
Edition N/A
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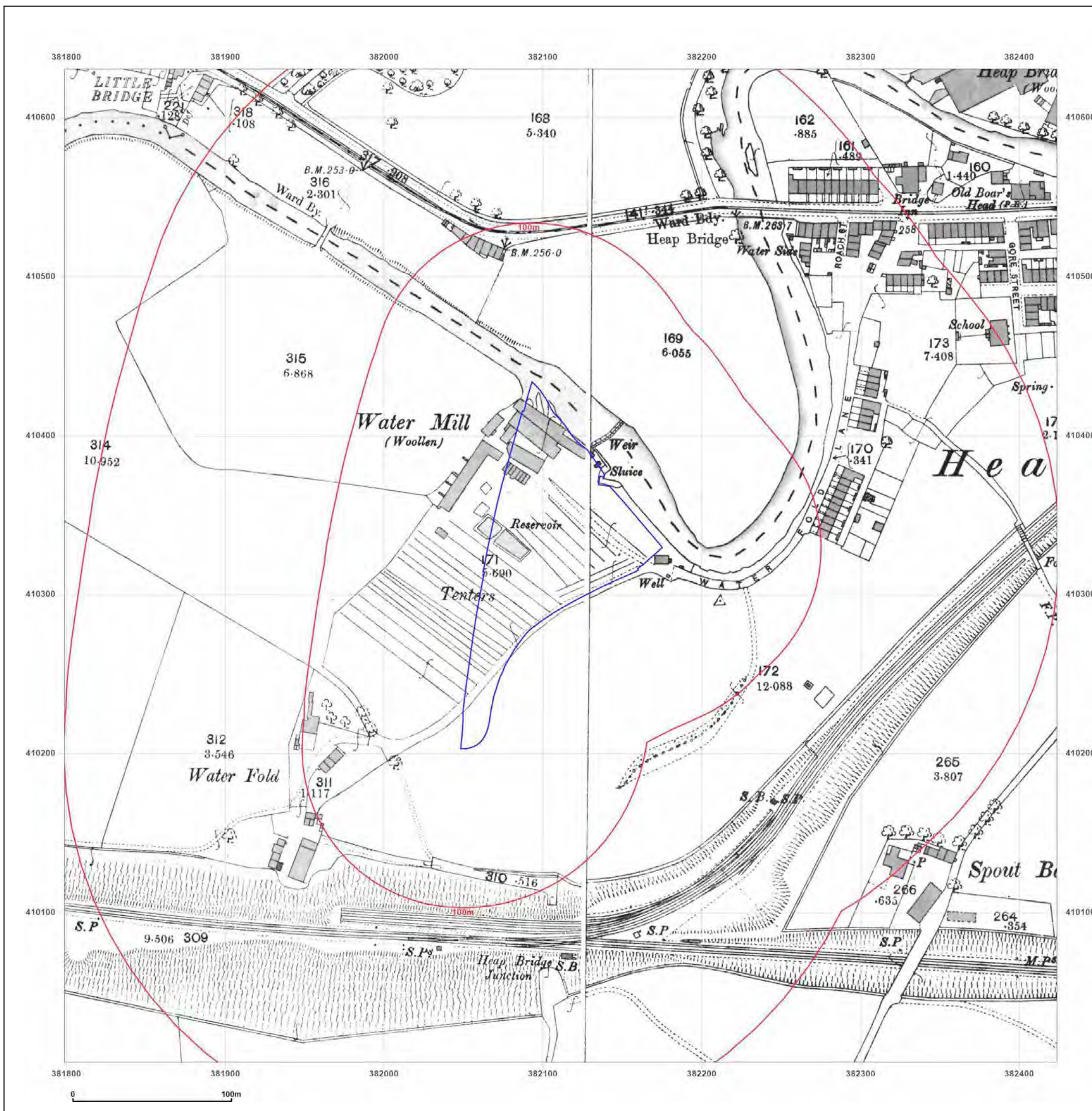


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Site Details:

WATERFOLD LANE,
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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series Town Plan

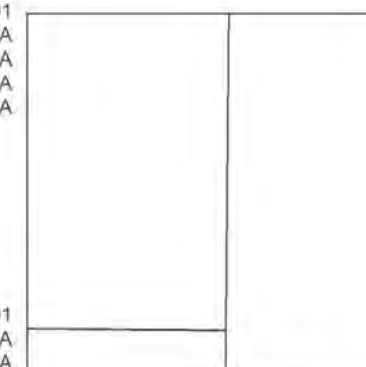
Map date: 1891

Scale: 1:500

Printed at: 1:1,000



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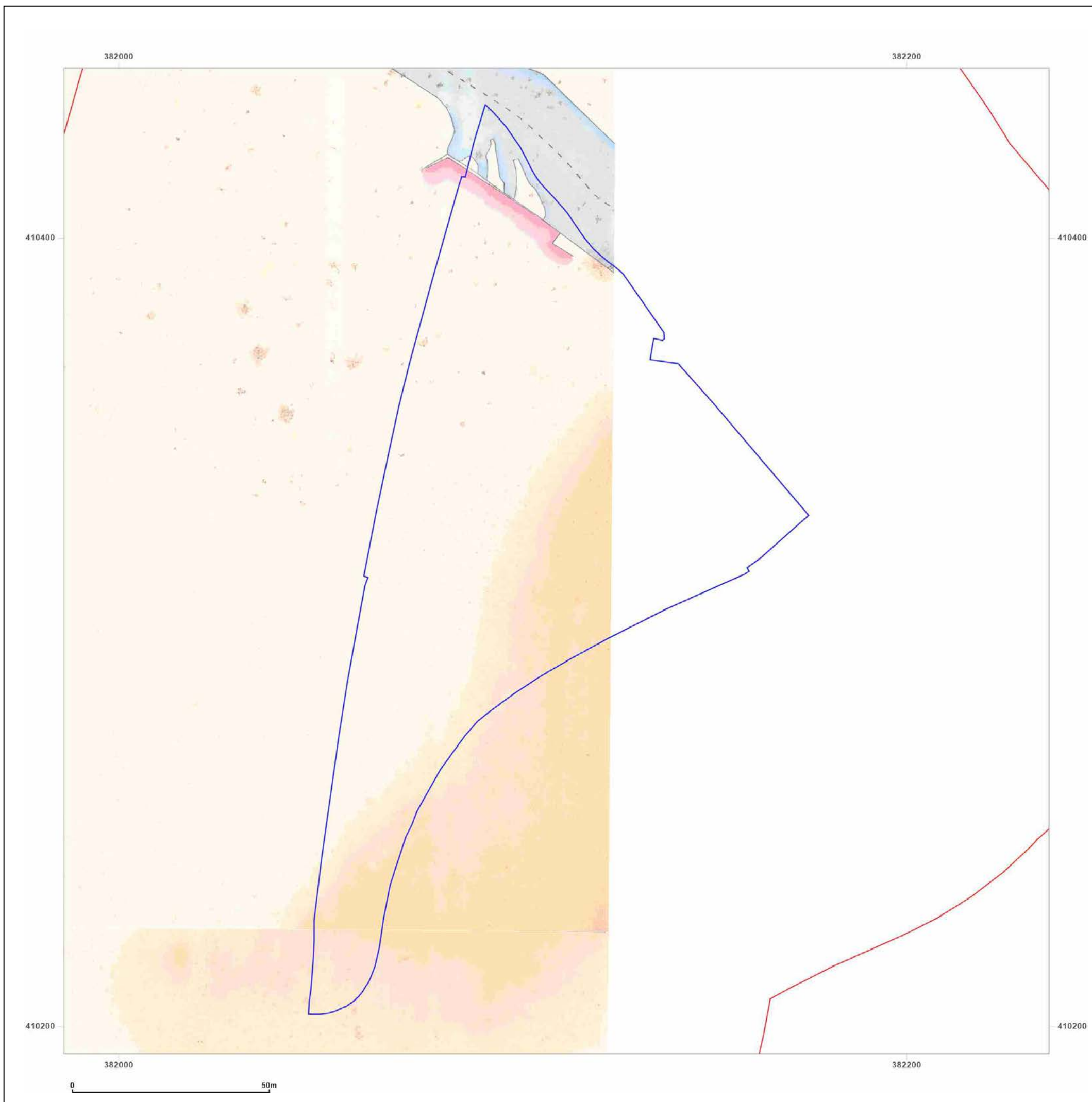


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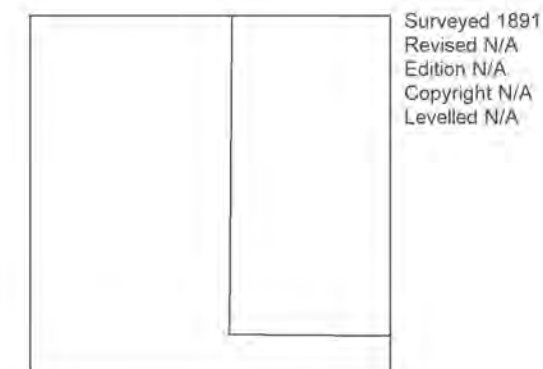
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Grid Ref: 382111, 410318

Map Name: County Series Town Plan

Map date: 1891

Scale: 1:500

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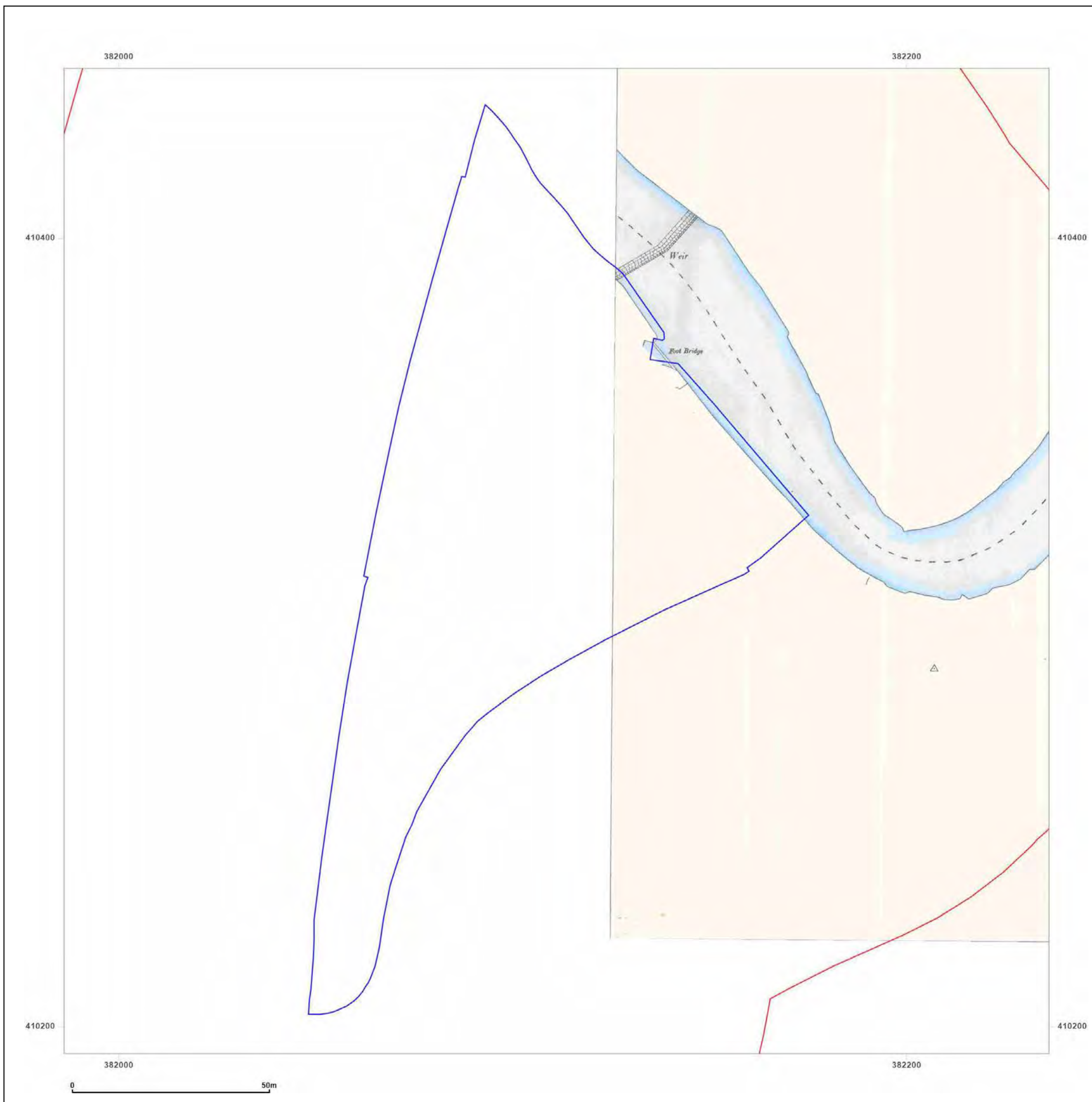


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1910

Scale: 1:2,500

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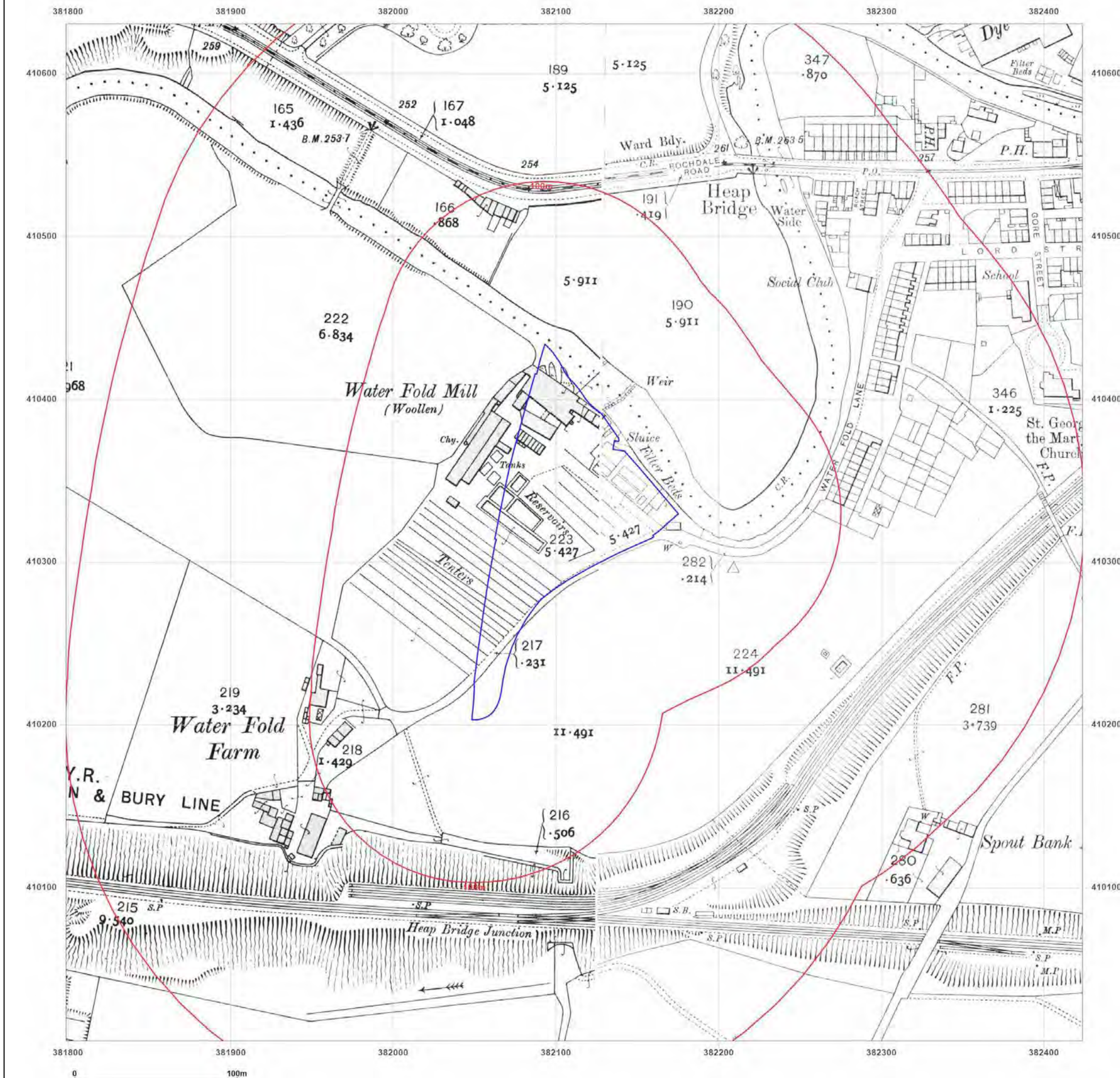


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Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1930

Scale: 1:2,500

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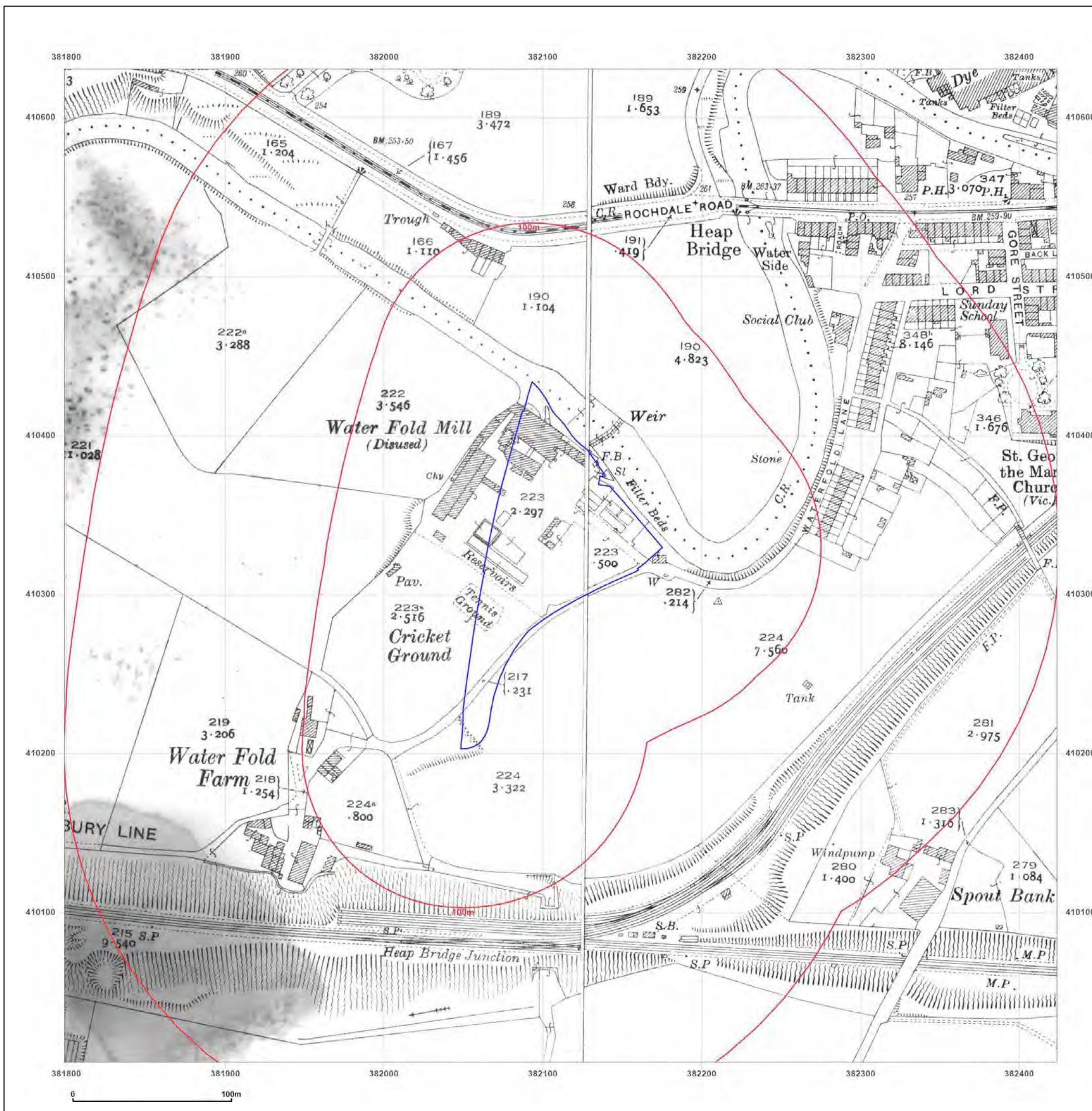


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1937

Scale: 1:2,500

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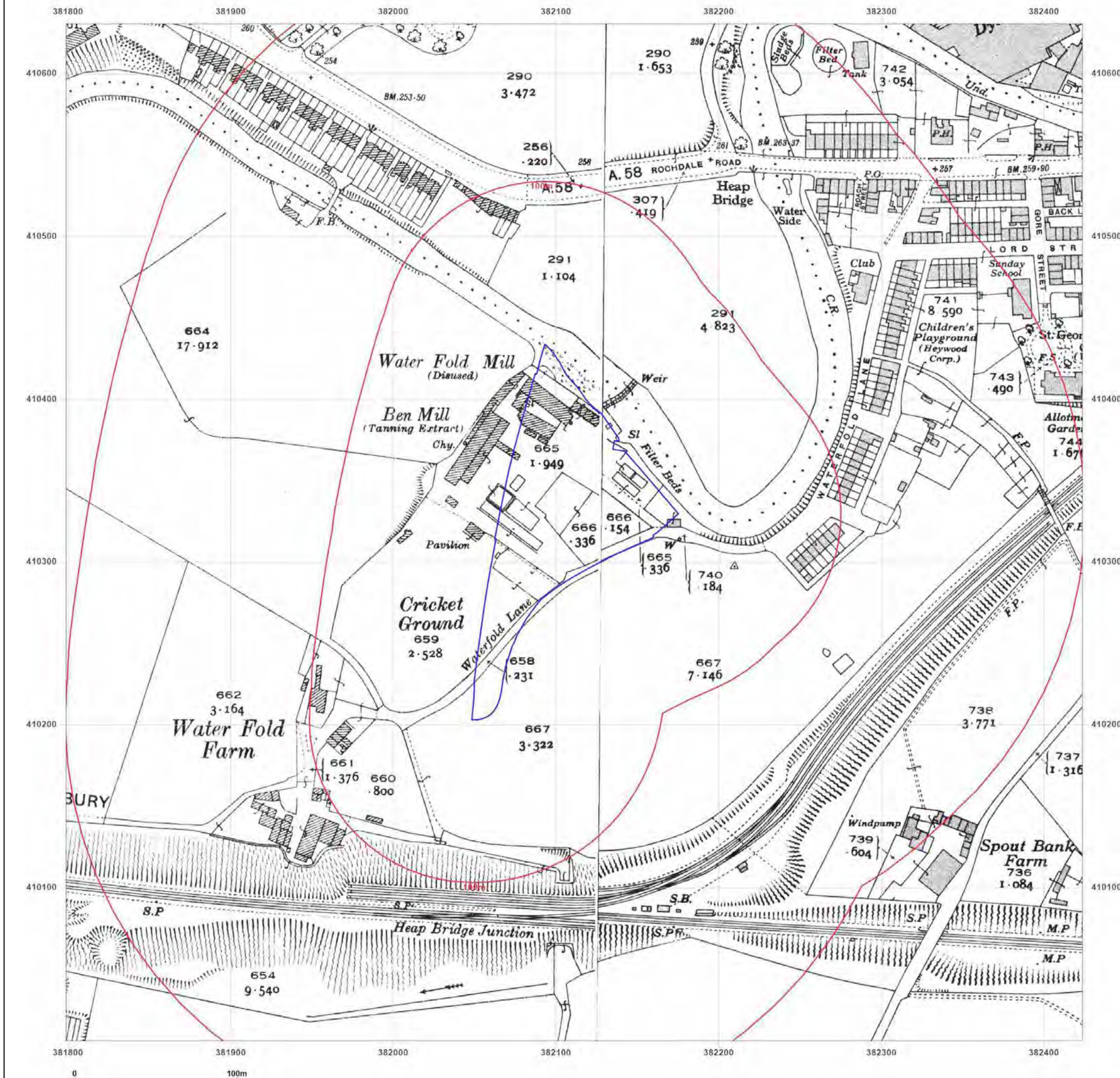


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1957

Scale: 1:1,250

Printed at: 1:2,000



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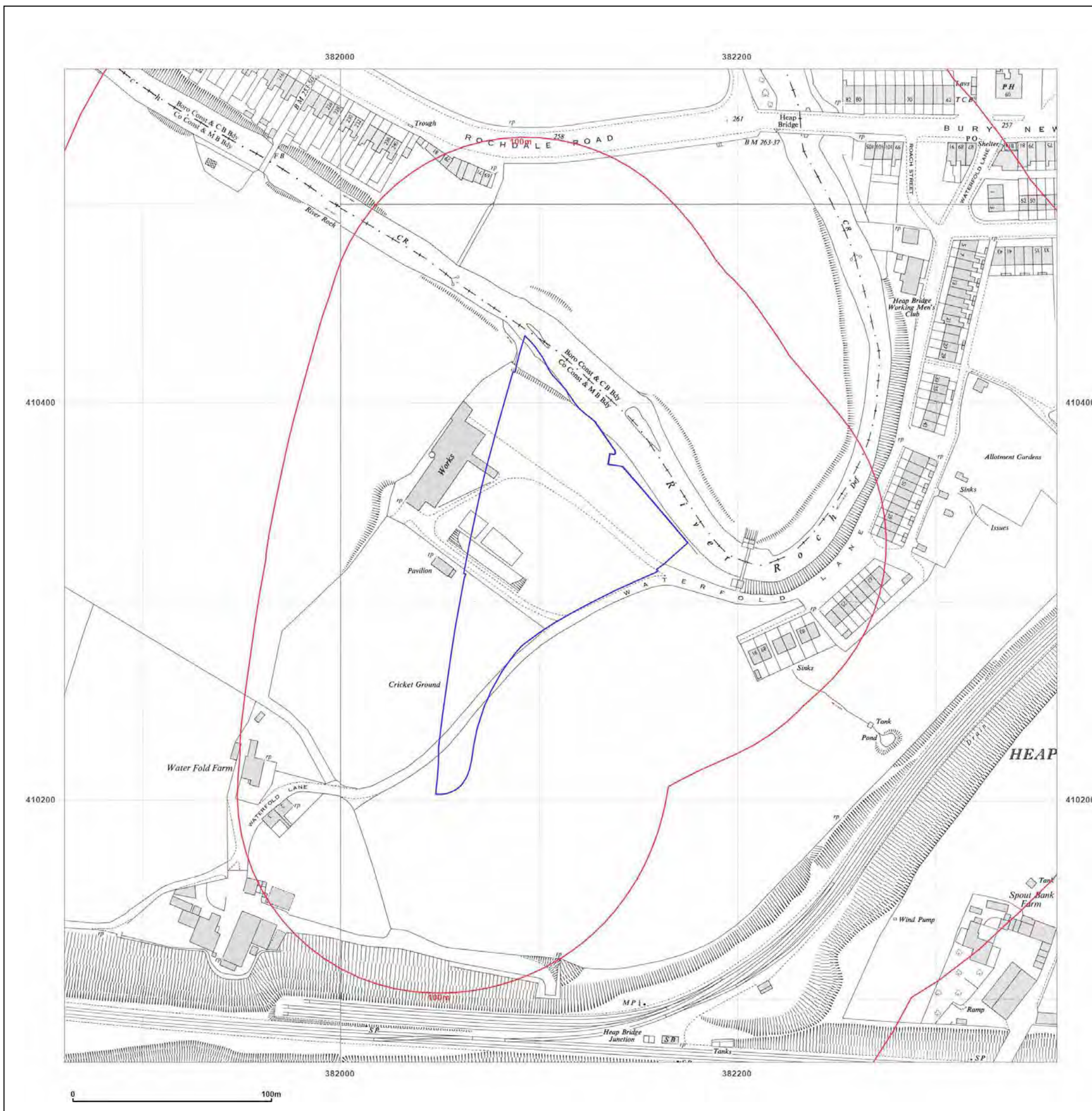


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1957

Scale: 1:2,500

Printed at: 1:2,500



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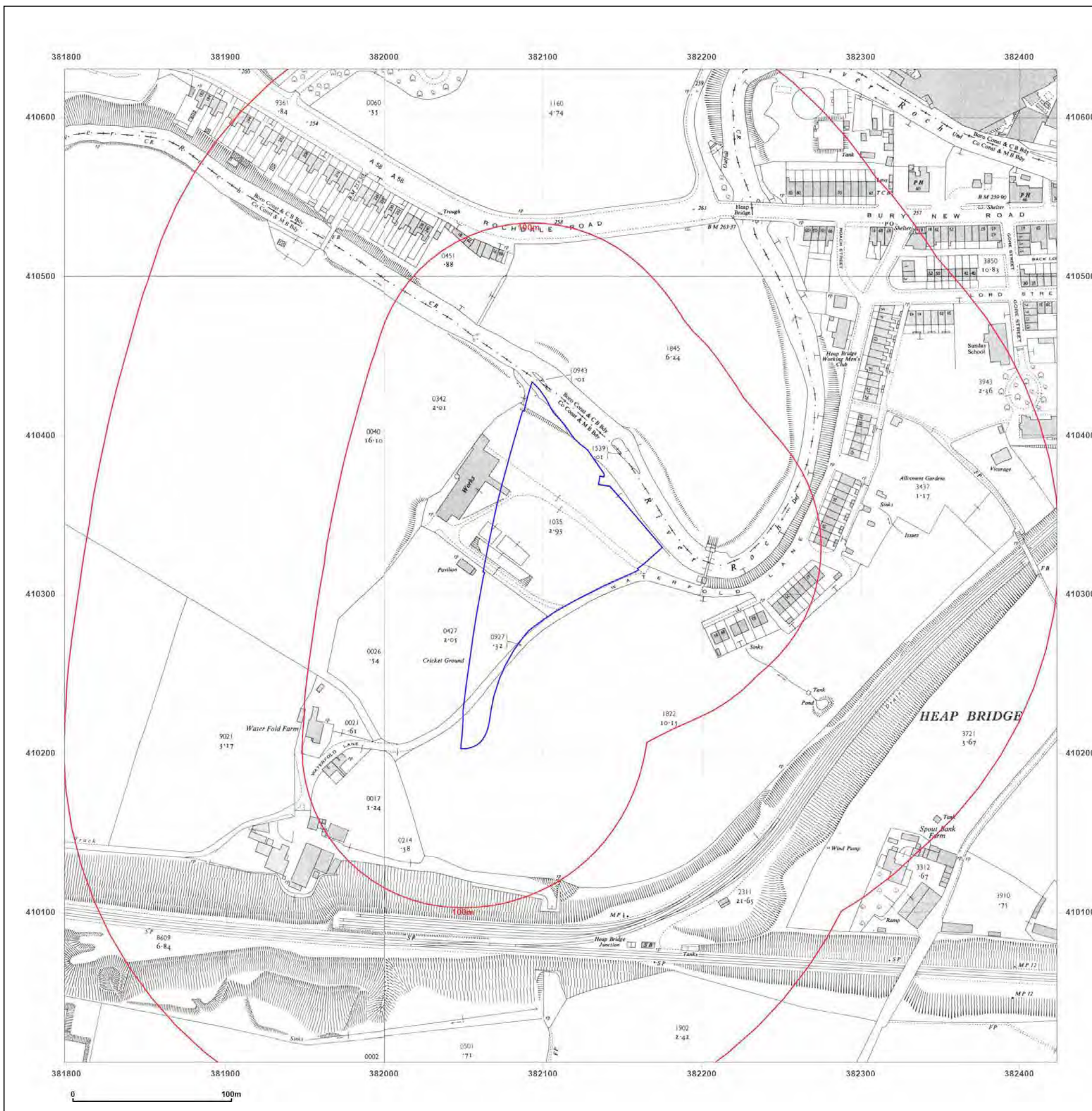


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1958

Scale: 1:1,250

Printed at: 1:2,000



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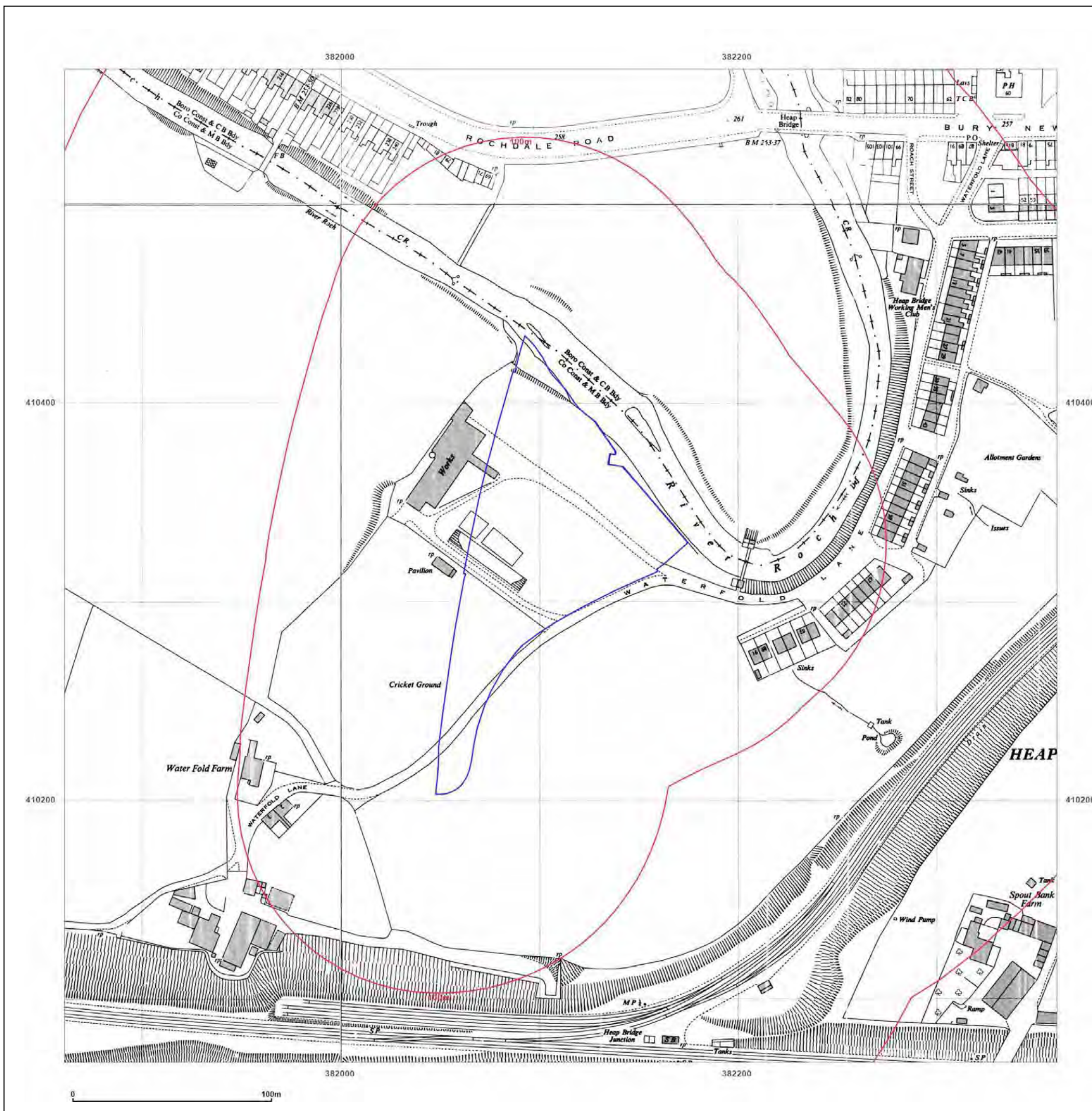


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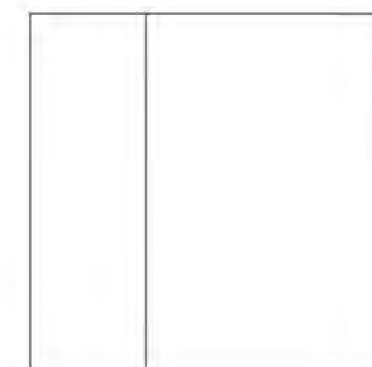
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Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



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Edition N/A
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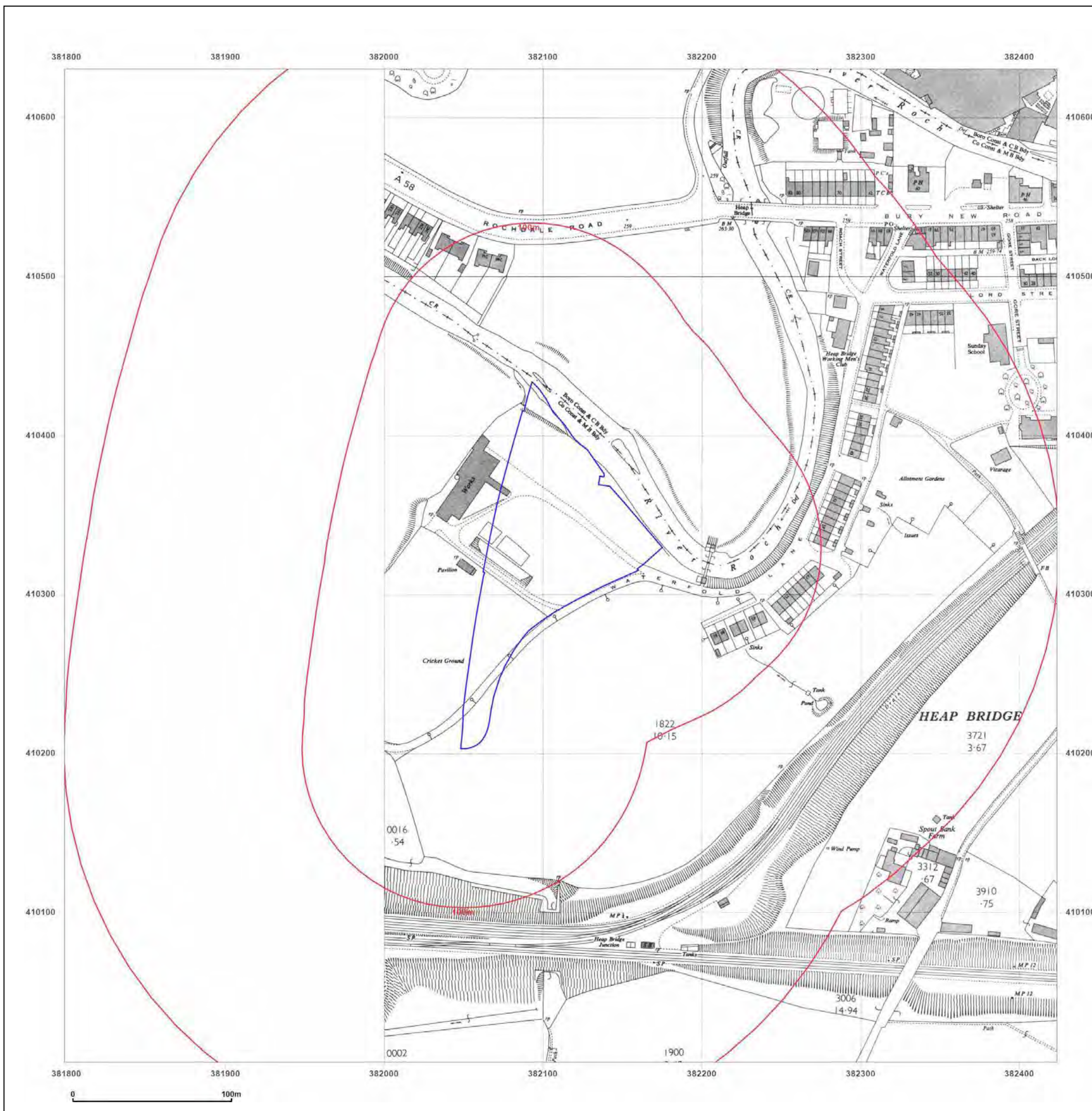


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Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1980-1982

Scale: 1:1,250

Printed at: 1:2,000



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Revised N/A
Edition N/A
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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1990-1992

Scale: 1:1,250

Printed at: 1:2,000



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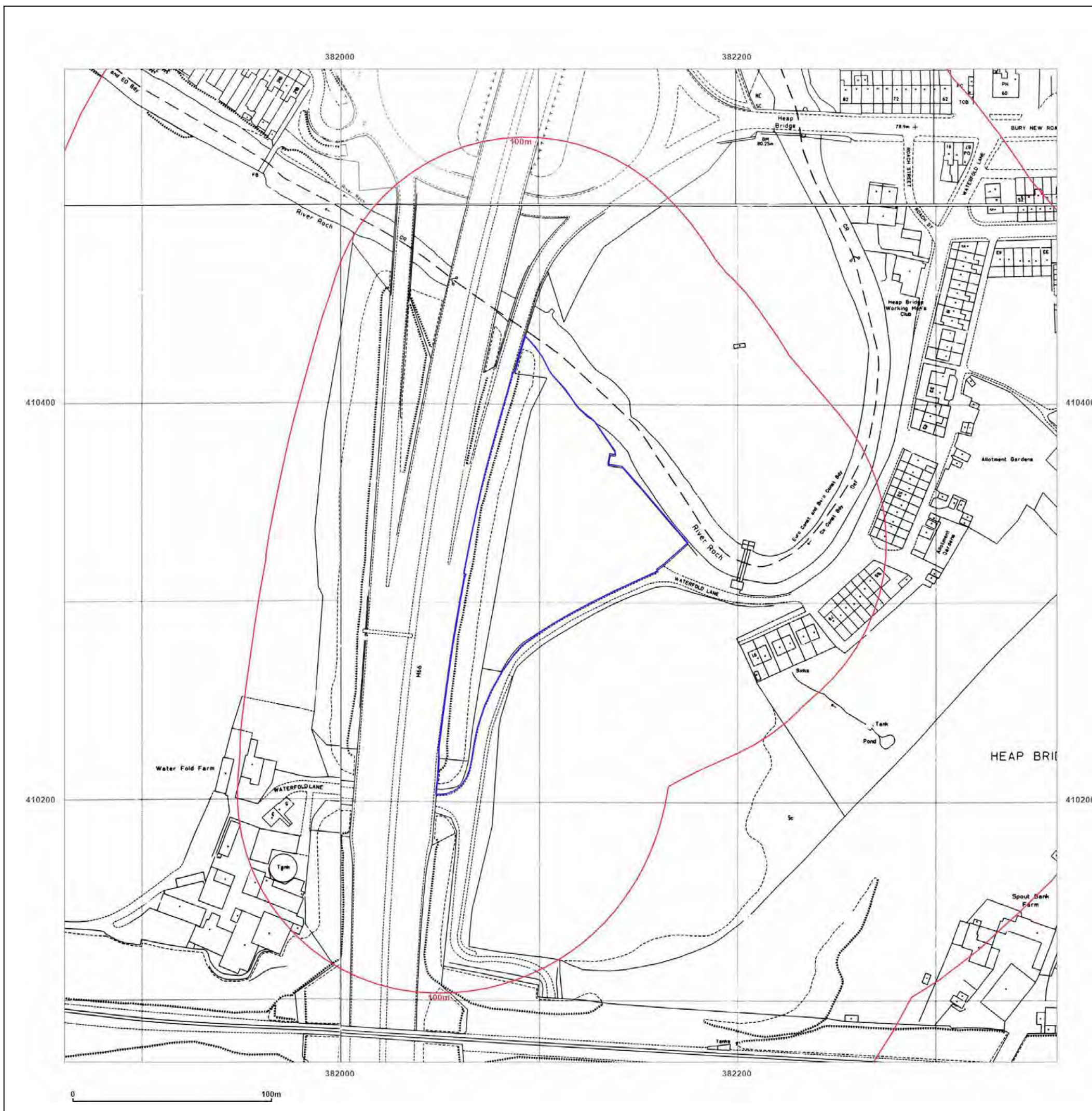


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250

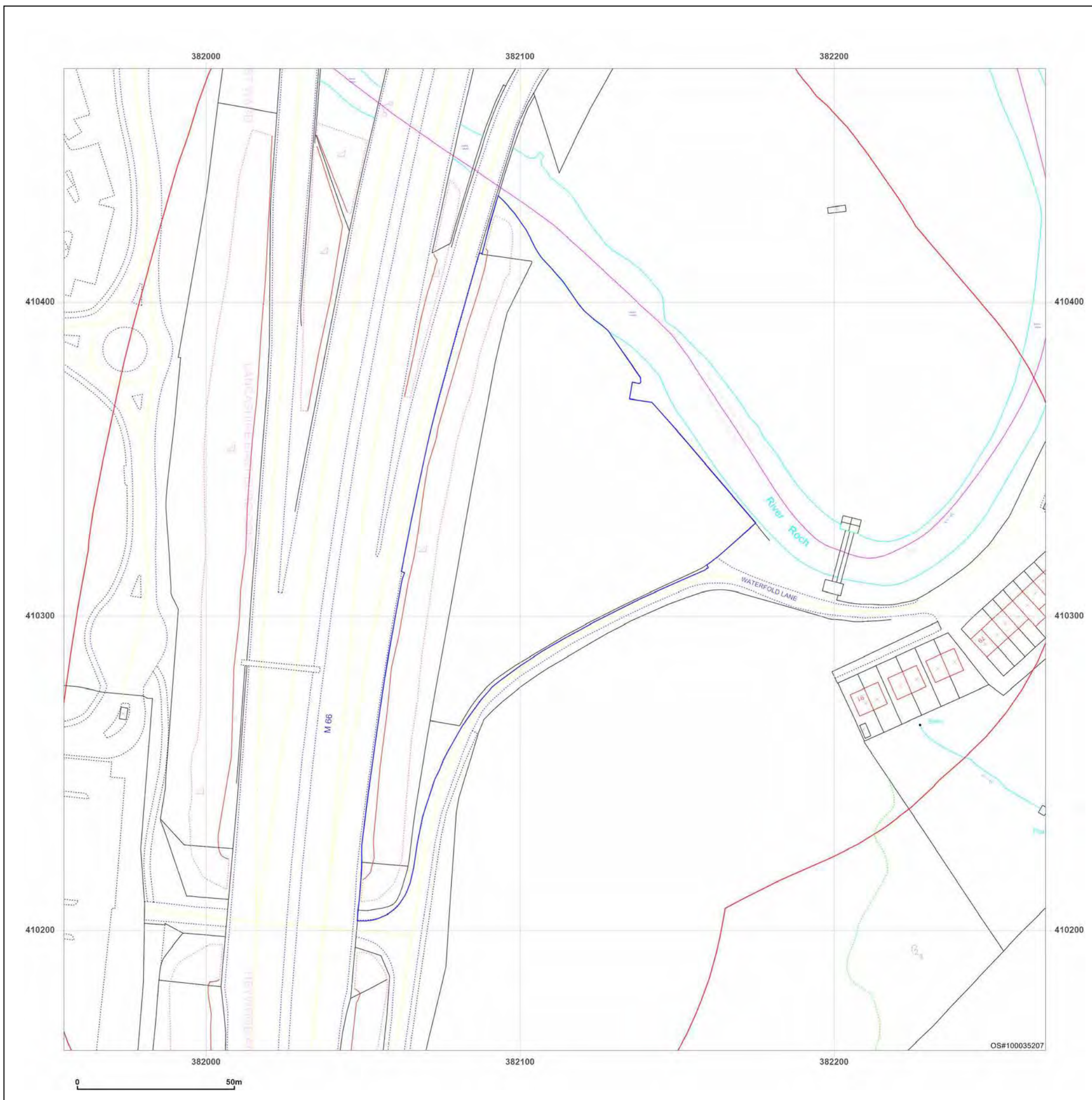


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1851

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1847
Revised N/A
Edition 1851
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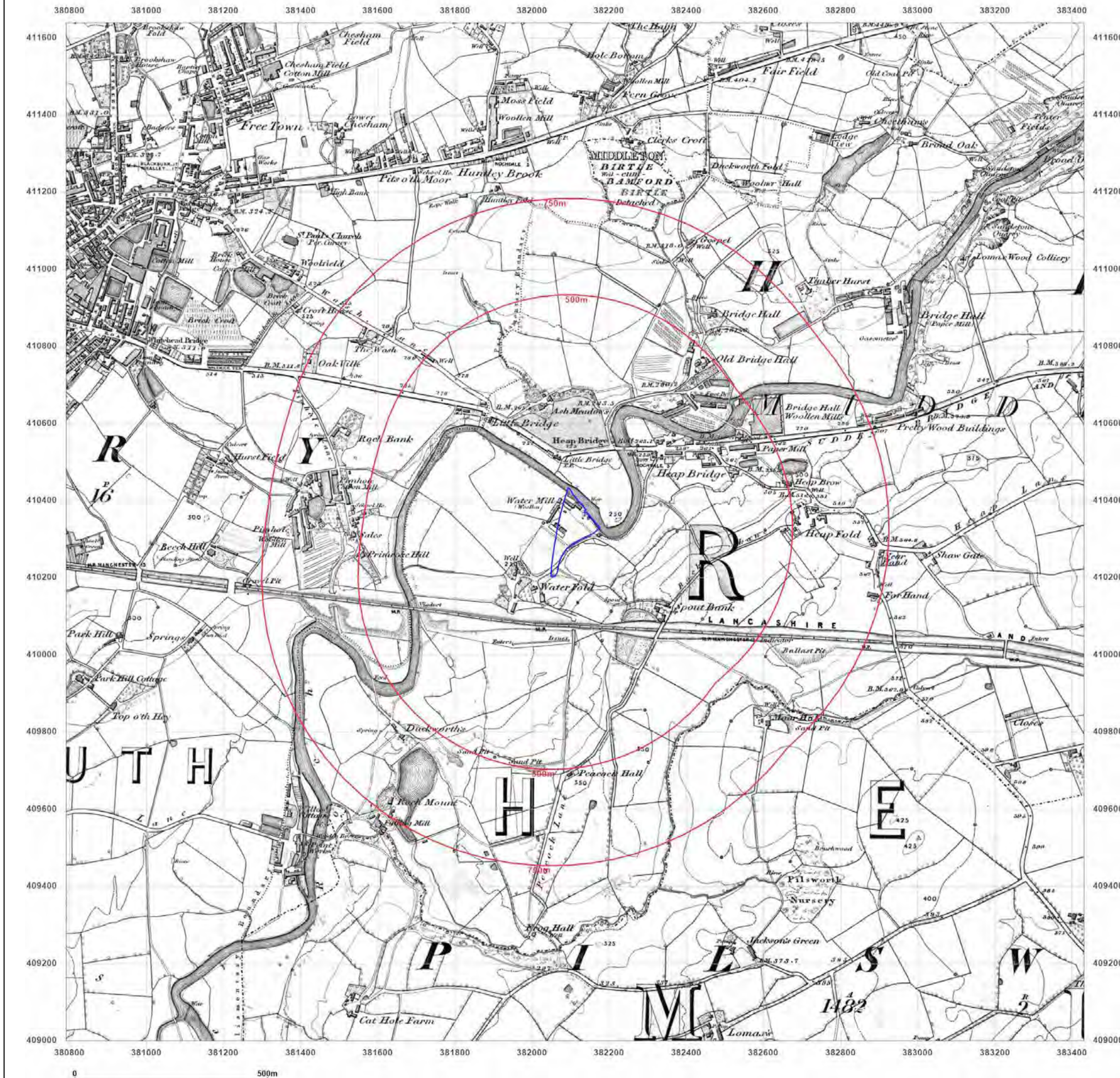


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1891

Scale: 1:10,560

Printed at: 1:10,560



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Edition N/A
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Surveyed 1891
Revised 1891
Edition N/A
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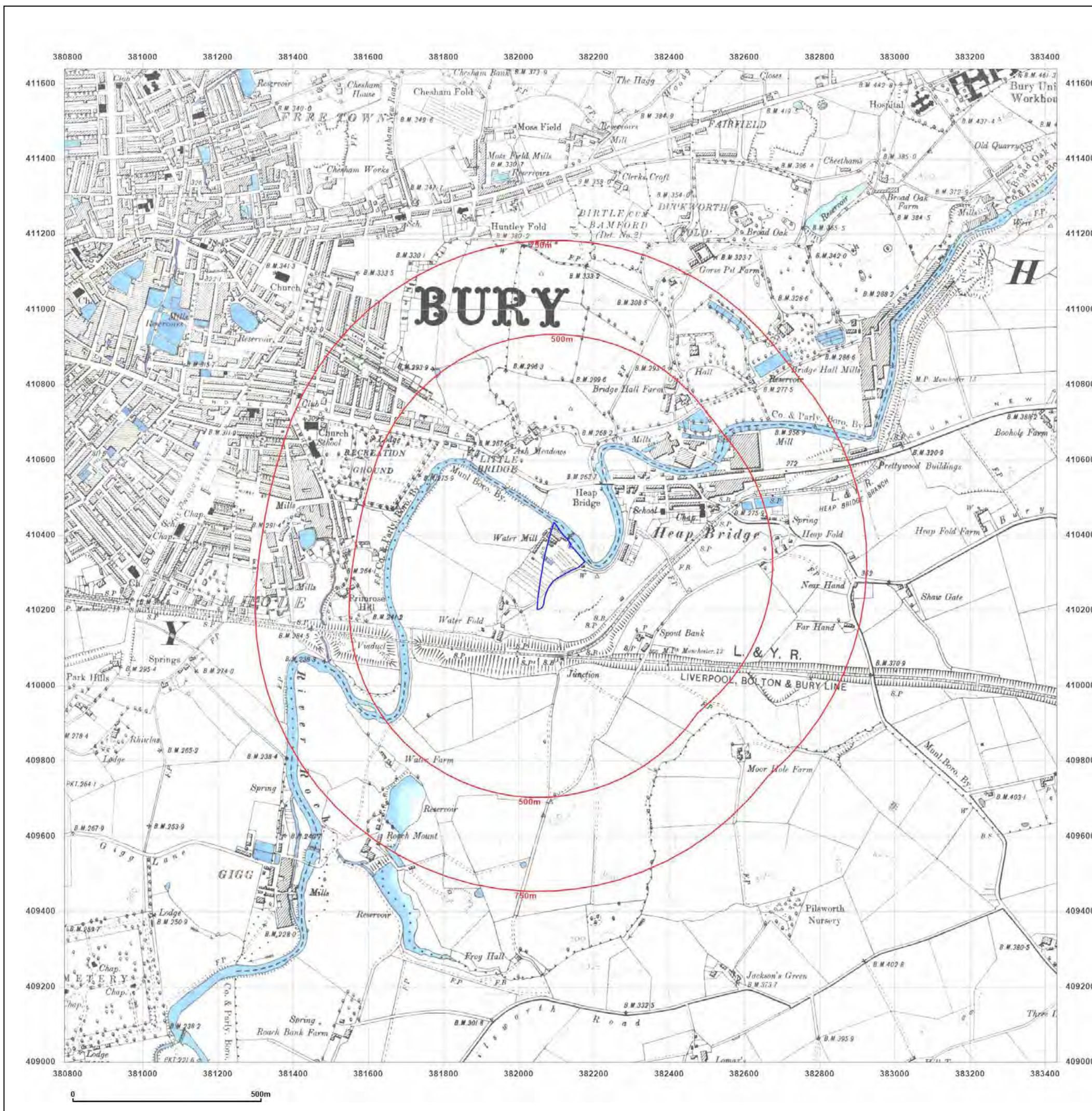


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1908

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1908
Edition N/A
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Levelled N/A

Surveyed 1844
Revised 1908
Edition N/A
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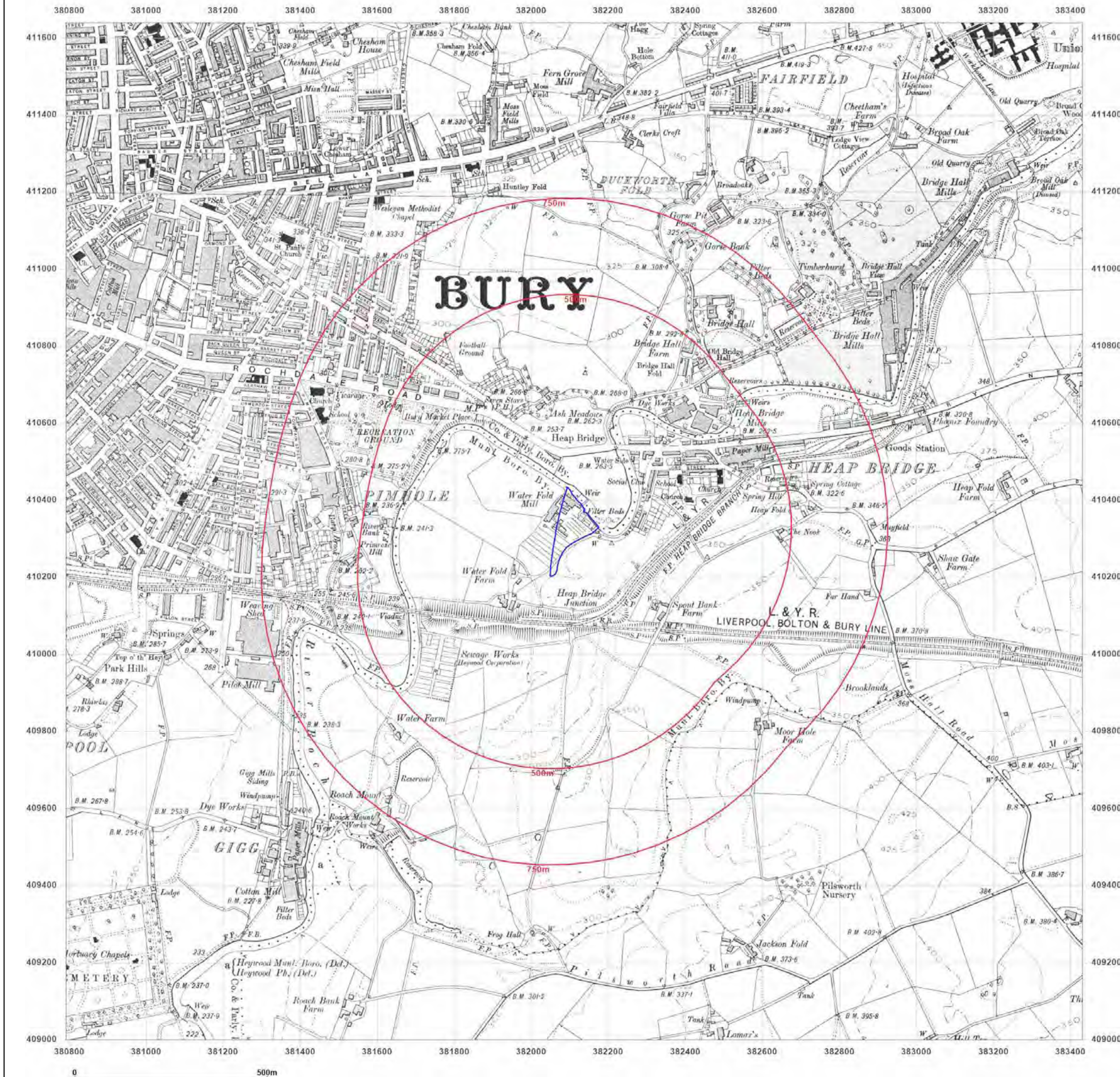


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1928

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1848
Revised 1928
Edition N/A
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Surveyed 1844
Revised 1928
Edition N/A
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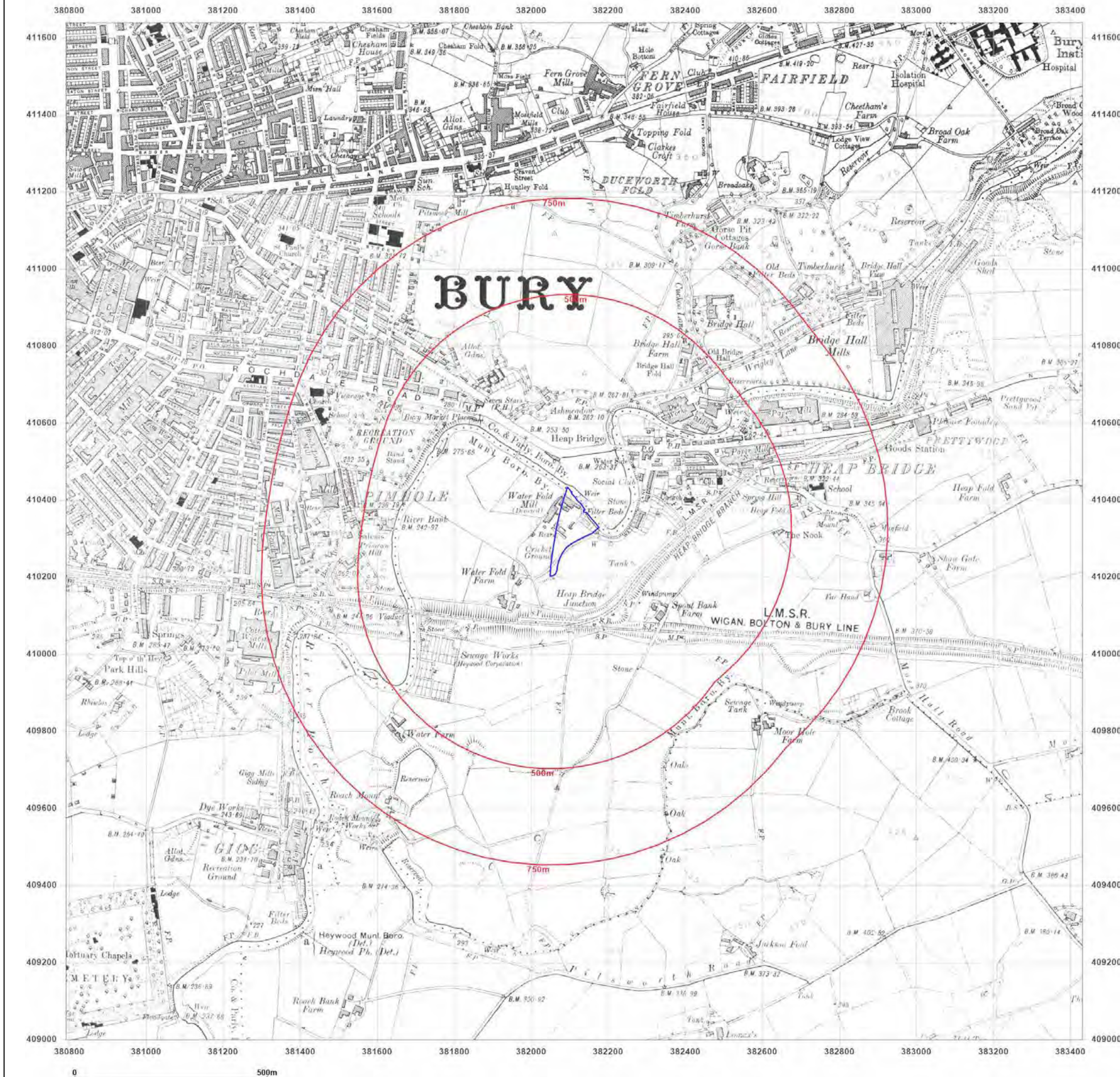


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



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Surveyed 1844
Revised 1938
Edition N/A
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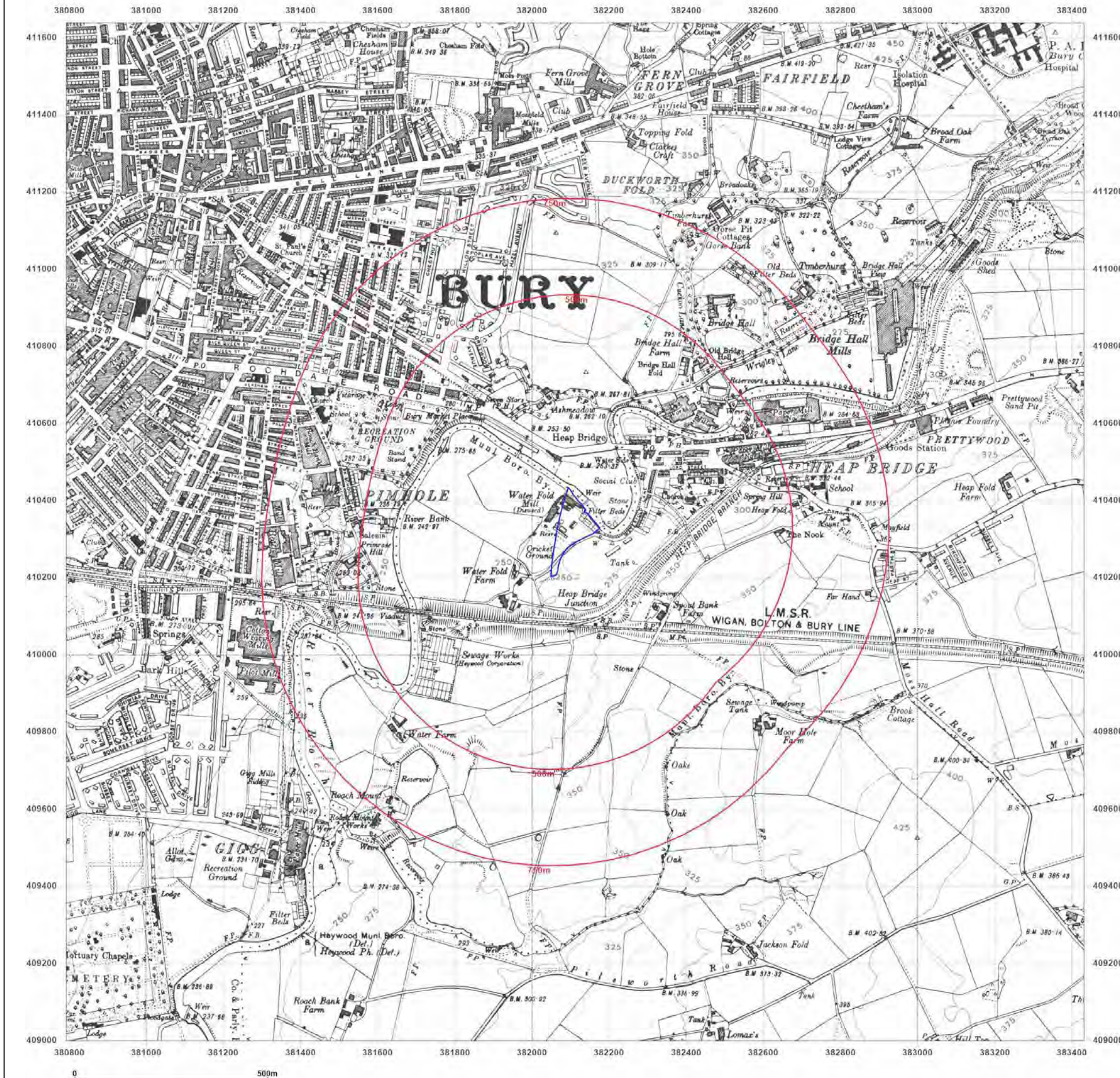


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Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: Provisional

Map date: 1955-1956

Scale: 1:10,560

Printed at: 1:10,560



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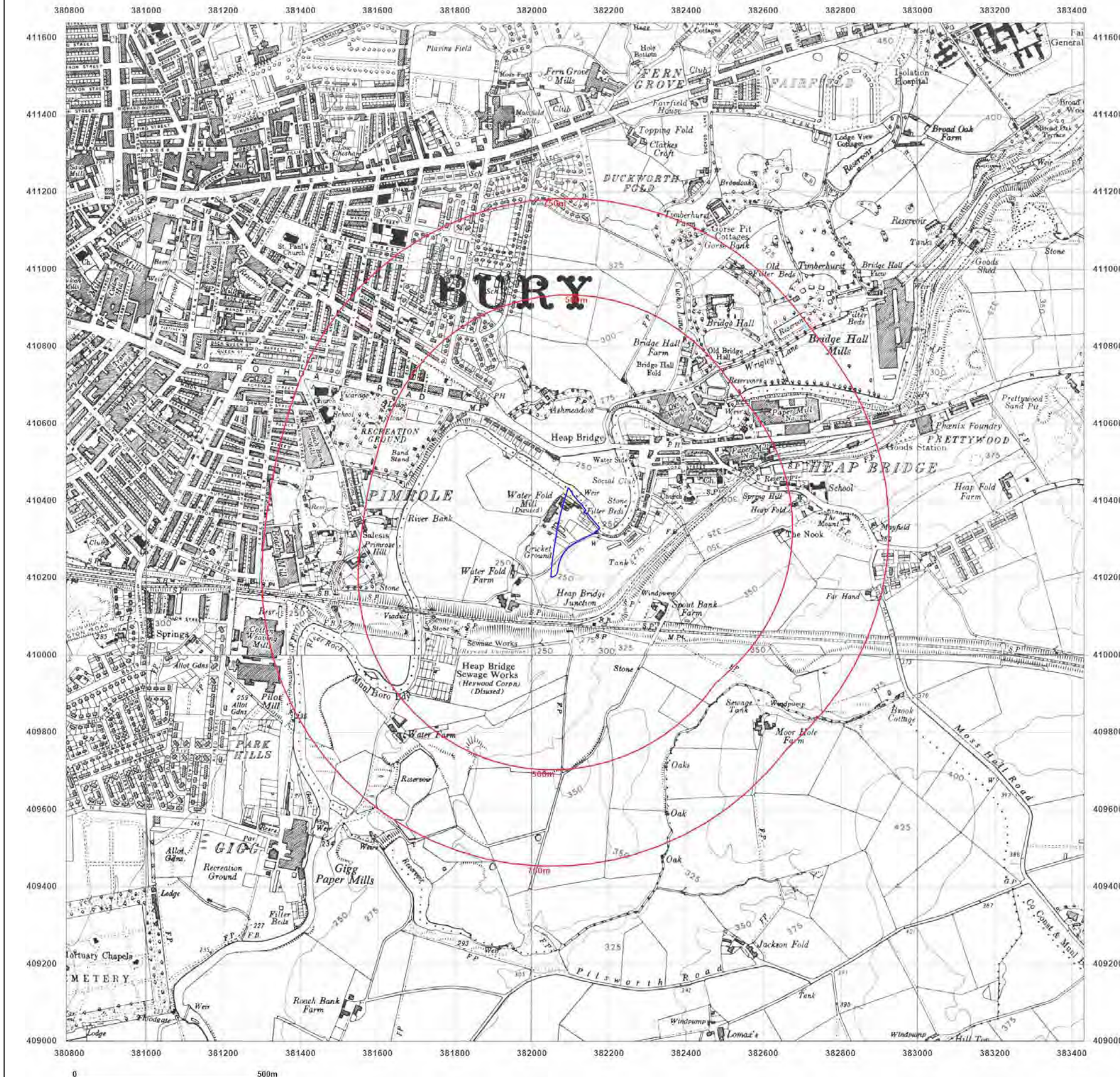


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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: Provisional

Map date: 1965-1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967
Revised 1967
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1965
Revised 1965
Edition N/A
Copyright N/A
Levelled N/A

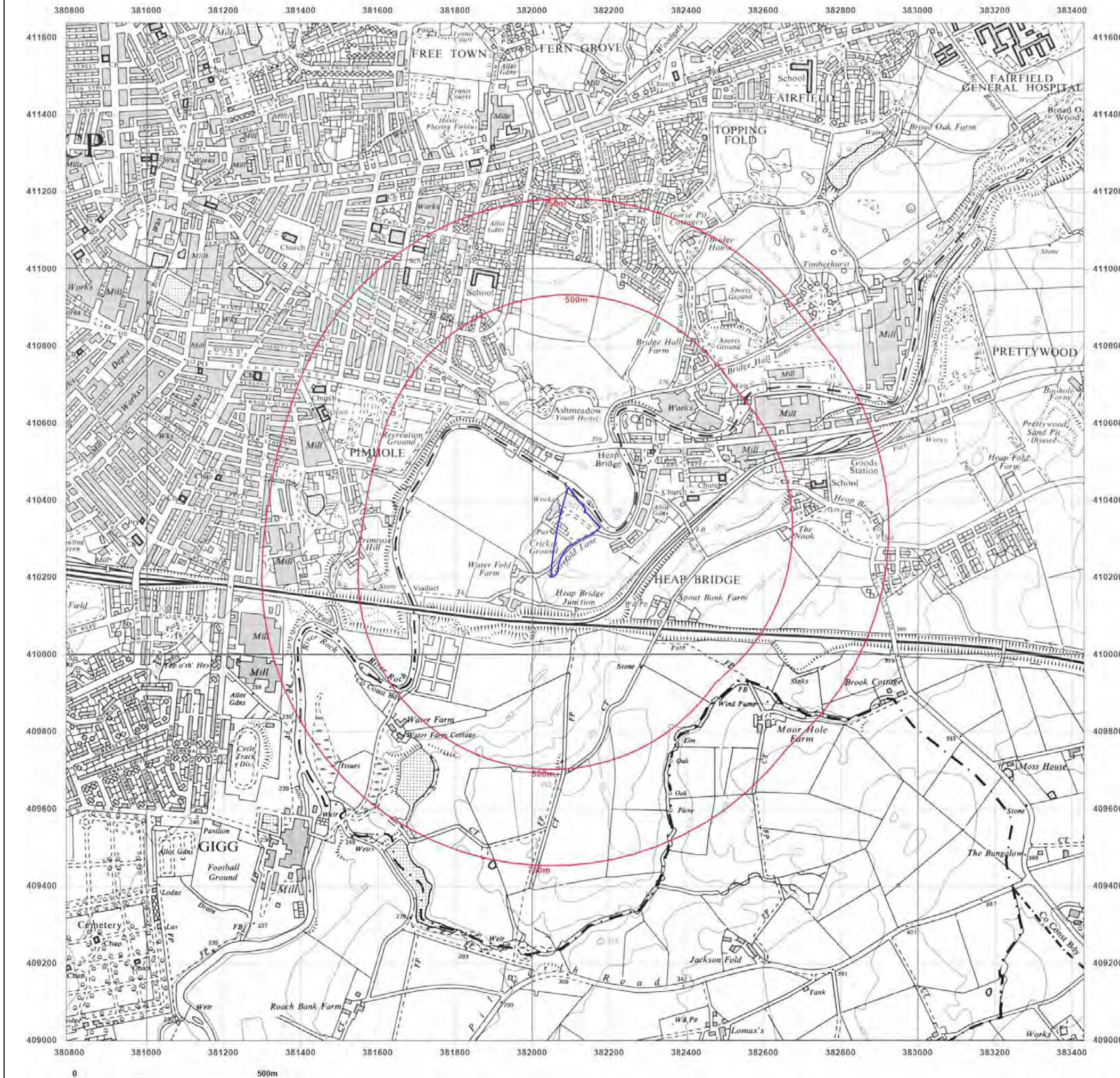


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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1974

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1974
Revised 1974
Edition N/A
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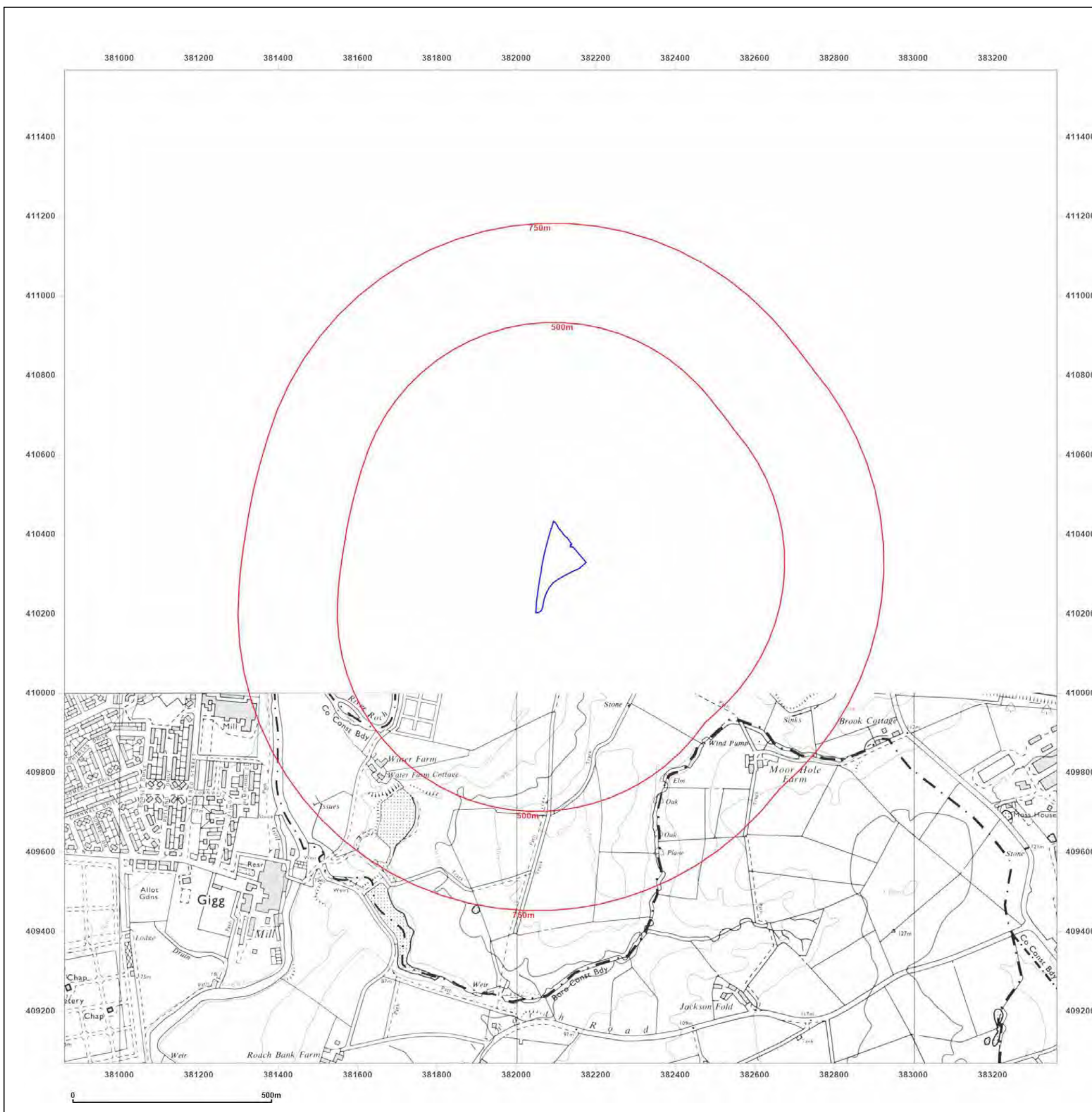


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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 1981-1983

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1983
Edition N/A
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Surveyed 1980
Revised 1981
Edition N/A
Copyright N/A
Levelled N/A

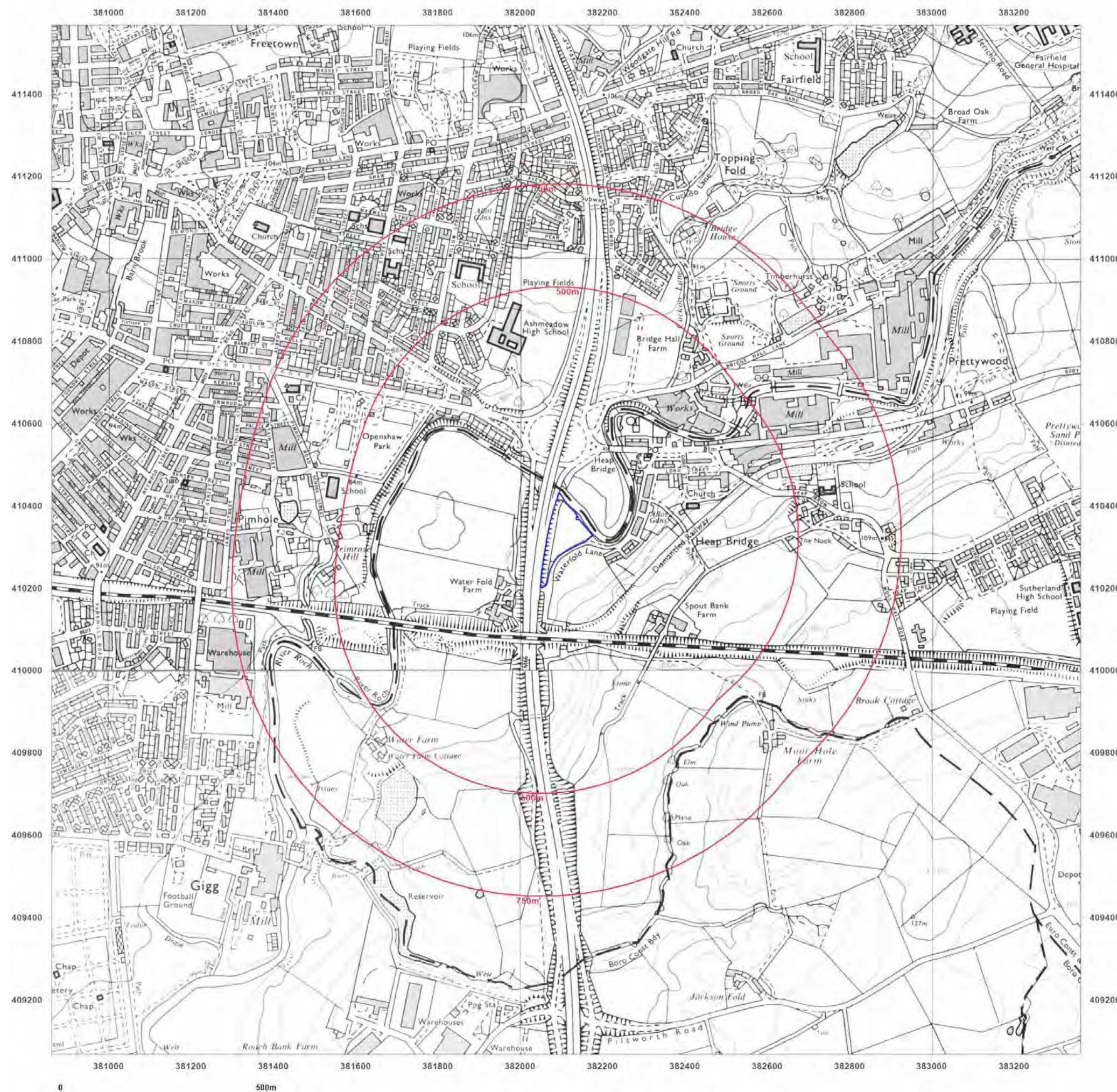


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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

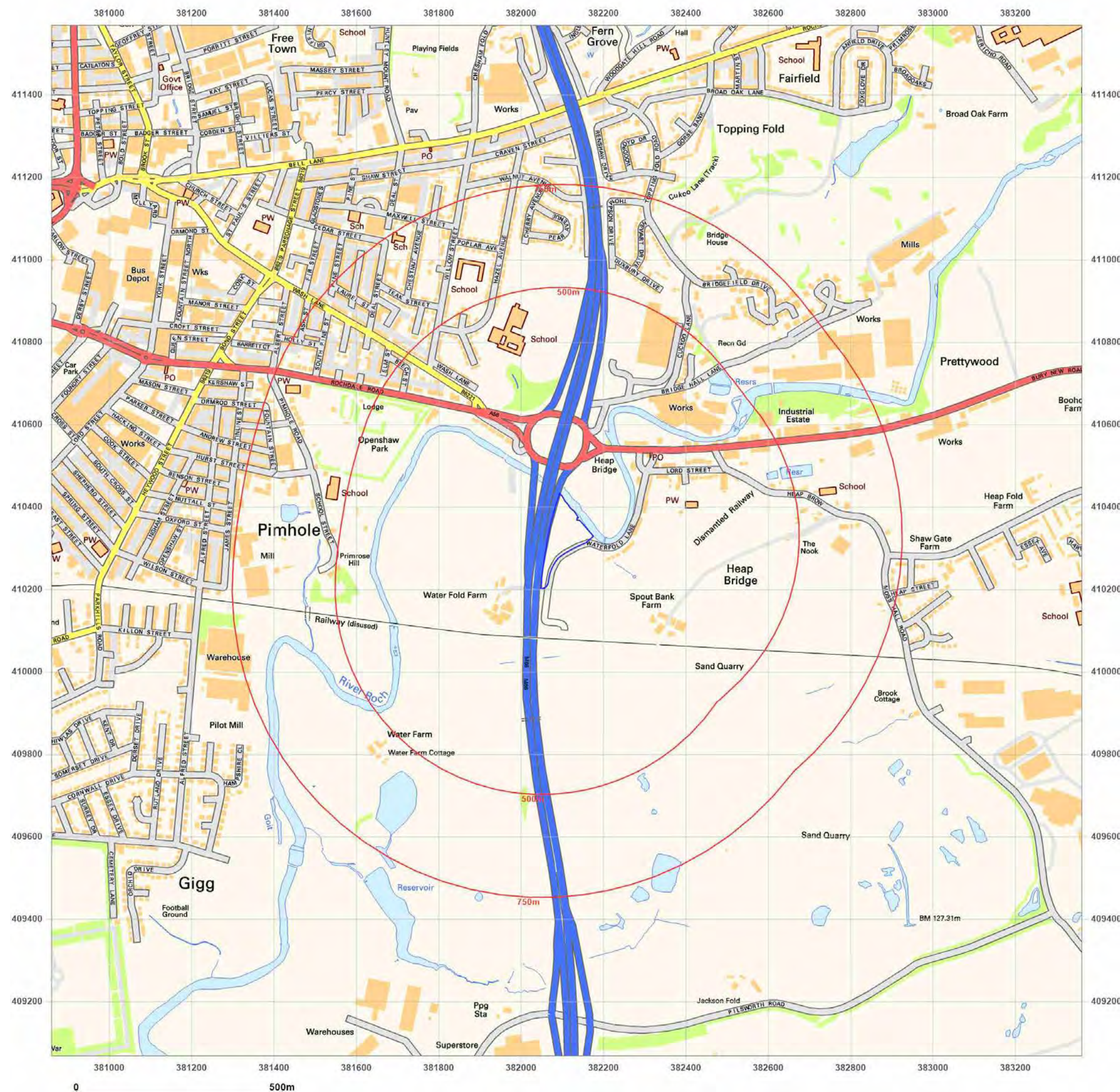


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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

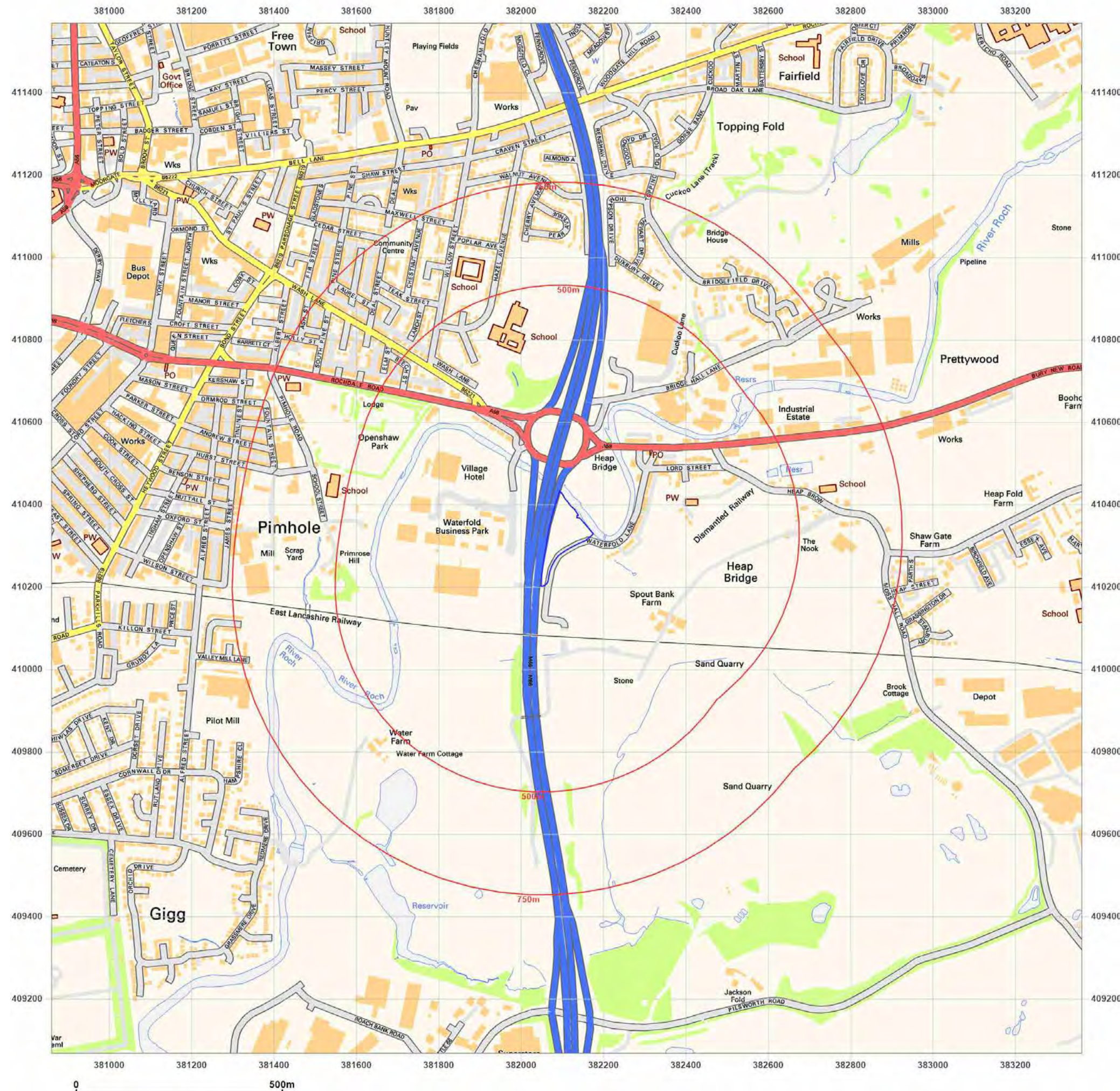


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Site Details:

WATERFOLD LANE,
HEYWOOD, BL9 7JY

Client Ref: A4301
Report Ref: GS-8283115
Grid Ref: 382111, 410318

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



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