

Appendix A Figures



Site Location Plan

Site Location:
MAG building 401

Site Redline Boundary

Project No. 60663052

Image taken from Google Earth Pro





Site Red Line Boundary

Site Location:
MAG building 401

Site Redline Boundary

Project No. 60663052

Image taken from Google Earth Pro





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P01	First Issue	LL	MJH	02/08/21
Rev	Description	By	Ckd	Date



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Project MAG, Building 401, Manchester
Airport

Title Masterplan Option 16B

RPS Project Number	Scale @ A1	Date Created
NK020598	1:500	02/08/21
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Appendix B GroundSure Report and Historic Mapping (including Google Earth Pro aerial photography)

AVRO WAY, MANCHESTER, M90 5PY

Order Details

Date: 26/08/2021
Your ref: MAG_Building_401
Our Ref: GS-8153066
Client: Aecom Infrastructure and Environment UK Ltd

Site Details

Location: 380906 384825
Area: 2.11 ha
Authority: [Manchester City Council](#)



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Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.13

groundsure.com/insightuserguide

Contact us with any questions at:

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08444 159 000

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
14	1.1	<u>Historical industrial land uses</u>	3	3	6	7	-
15	1.2	<u>Historical tanks</u>	0	0	13	24	-
17	1.3	<u>Historical energy features</u>	1	0	6	4	-
18	1.4	Historical petrol stations	0	0	0	0	-
18	1.5	Historical garages	0	0	0	0	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	<u>Historical industrial land uses</u>	3	5	6	9	-
20	2.2	<u>Historical tanks</u>	0	0	41	45	-
24	2.3	<u>Historical energy features</u>	1	0	12	4	-
25	2.4	Historical petrol stations	0	0	0	0	-
25	2.5	Historical garages	0	0	0	0	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
26	3.1	Active or recent landfill	0	0	0	0	-
26	3.2	Historical landfill (BGS records)	0	0	0	0	-
27	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
27	3.4	Historical landfill (EA/NRW records)	0	0	0	0	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27	3.7	<u>Waste exemptions</u>	0	1	4	4	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
29	4.1	<u>Recent industrial land uses</u>	1	0	61	-	-
33	4.2	<u>Current or recent petrol stations</u>	0	0	0	1	-
34	4.3	Electricity cables	0	0	0	0	-
34	4.4	Gas pipelines	0	0	0	0	-
34	4.5	Sites determined as Contaminated Land	0	0	0	0	-



34	4.6	<u>Control of Major Accident Hazards (COMAH)</u>	0	0	1	0	-
35	4.7	Regulated explosive sites	0	0	0	0	-
35	4.8	<u>Hazardous substance storage/usage</u>	0	0	2	1	-
36	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
36	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
36	4.11	<u>Licensed pollutant release (Part A(2)/B)</u>	0	0	2	2	-
37	4.12	Radioactive Substance Authorisations	0	0	0	0	-
37	4.13	<u>Licensed Discharges to controlled waters</u>	0	0	0	11	-
39	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
39	4.15	Pollutant release to public sewer	0	0	0	0	-
39	4.16	List 1 Dangerous Substances	0	0	0	0	-
39	4.17	List 2 Dangerous Substances	0	0	0	0	-
40	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
40	4.19	Pollution inventory substances	0	0	0	0	-
40	4.20	Pollution inventory waste transfers	0	0	0	0	-
40	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
41	5.1	<u>Superficial aquifer</u>	Identified (within 500m)				
43	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
45	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
46	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
46	5.5	Groundwater vulnerability- local information	None (within 0m)				
47	5.6	Groundwater abstractions	0	0	0	0	0
48	5.7	<u>Surface water abstractions</u>	0	0	0	0	5
49	5.8	Potable abstractions	0	0	0	0	0
49	5.9	Source Protection Zones	0	0	0	0	-
50	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
51	6.1	Water Network (OS MasterMap)	0	0	0	-	-



51	6.2	Surface water features	0	0	0	-	-
52	6.3	<u>WFD Surface water body catchments</u>	2	-	-	-	-
52	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
53	6.5	<u>WFD Groundwater bodies</u>	2	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
54	7.1	Risk of Flooding from Rivers and Sea (RoFRaS)	None (within 50m)				
54	7.2	Historical Flood Events	0	0	0	-	-
54	7.3	Flood Defences	0	0	0	-	-
54	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
55	7.5	Flood Storage Areas	0	0	0	-	-
56	7.6	Flood Zone 2	None (within 50m)				
56	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
57	8.1	<u>Surface water flooding</u>	1 in 30 year, 0.1m - 0.3m (within 50m)				
Page	Section	Groundwater flooding					
59	9.1	<u>Groundwater flooding</u>	Low (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
60	10.1	<u>Sites of Special Scientific Interest (SSSI)</u>	0	0	0	1	1
61	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
61	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
61	10.4	Special Protection Areas (SPA)	0	0	0	0	0
61	10.5	National Nature Reserves (NNR)	0	0	0	0	0
62	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
62	10.7	<u>Designated Ancient Woodland</u>	0	0	1	0	9
63	10.8	Biosphere Reserves	0	0	0	0	0
63	10.9	Forest Parks	0	0	0	0	0
63	10.10	Marine Conservation Zones	0	0	0	0	0
63	10.11	<u>Green Belt</u>	0	0	0	1	2
64	10.12	Proposed Ramsar sites	0	0	0	0	0



64	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
64	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
64	10.15	Nitrate Sensitive Areas	0	0	0	0	0
65	10.16	Nitrate Vulnerable Zones	0	0	0	0	0
66	<u>10.17</u>	<u>SSSI Impact Risk Zones</u>	3	-	-	-	-
68	<u>10.18</u>	<u>SSSI Units</u>	0	0	0	1	1
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
70	11.1	World Heritage Sites	0	0	0	-	-
70	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
70	11.3	National Parks	0	0	0	-	-
70	11.4	Listed Buildings	0	0	0	-	-
71	11.5	Conservation Areas	0	0	0	-	-
71	11.6	Scheduled Ancient Monuments	0	0	0	-	-
71	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
72	<u>12.1</u>	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
73	12.2	Open Access Land	0	0	0	-	-
73	12.3	Tree Felling Licences	0	0	0	-	-
73	12.4	Environmental Stewardship Schemes	0	0	0	-	-
73	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
74	<u>13.1</u>	<u>Priority Habitat Inventory</u>	3	3	3	-	-
75	13.2	Habitat Networks	0	0	0	-	-
75	13.3	Open Mosaic Habitat	0	0	0	-	-
75	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
76	<u>14.1</u>	<u>10k Availability</u>	Identified (within 500m)				
77	14.2	Artificial and made ground (10k)	0	0	0	0	-
78	<u>14.3</u>	<u>Superficial geology (10k)</u>	1	0	1	0	-

79	14.4	Landslip (10k)	0	0	0	0	-
80	14.5	<u>Bedrock geology (10k)</u>	1	0	3	0	-
81	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	2	0	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
82	15.1	<u>50k Availability</u>	Identified (within 500m)				
83	15.2	Artificial and made ground (50k)	0	0	0	0	-
83	15.3	Artificial ground permeability (50k)	0	0	-	-	-
84	15.4	<u>Superficial geology (50k)</u>	1	0	0	0	-
85	15.5	<u>Superficial permeability (50k)</u>	Identified (within 50m)				
85	15.6	Landslip (50k)	0	0	0	0	-
85	15.7	Landslip permeability (50k)	None (within 50m)				
86	15.8	<u>Bedrock geology (50k)</u>	1	0	1	0	-
87	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
87	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	0	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
88	16.1	<u>BGS Boreholes</u>	9	4	27	-	-
Page	Section	Natural ground subsidence					
91	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
92	17.2	<u>Running sands</u>	Very low (within 50m)				
93	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
94	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
95	17.5	<u>Landslides</u>	Very low (within 50m)				
96	17.6	<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
97	18.1	Natural cavities	0	0	0	0	-
98	18.2	BritPits	0	0	0	0	-
98	18.3	<u>Surface ground workings</u>	0	0	1	-	-
98	18.4	Underground workings	0	0	0	0	0
98	18.5	Historical Mineral Planning Areas	0	0	0	0	-



99	18.6	Non-coal mining	0	0	0	0	0
99	18.7	Mining cavities	0	0	0	0	0
99	18.8	JPB mining areas	None (within 0m)				
99	18.9	Coal mining	None (within 0m)				
99	18.10	<u>Brine areas</u>	Identified (within 0m)				
100	18.11	Gypsum areas	None (within 0m)				
100	18.12	Tin mining	None (within 0m)				
100	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
101	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
102	20.1	<u>BGS Estimated Background Soil Chemistry</u>	3	0	-	-	-
102	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
102	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
103	21.1	Underground railways (London)	0	0	0	-	-
103	21.2	Underground railways (Non-London)	0	0	0	-	-
103	21.3	Railway tunnels	0	0	0	-	-
103	21.4	Historical railway and tunnel features	0	0	0	-	-
103	21.5	Royal Mail tunnels	0	0	0	-	-
104	21.6	Historical railways	0	0	0	-	-
104	21.7	Railways	0	0	0	-	-
104	21.8	Crossrail 1	0	0	0	0	-
104	21.9	Crossrail 2	0	0	0	0	-
104	21.10	HS2	0	0	0	0	-

Recent aerial photograph



Capture Date: 22/04/2019

Site Area: 2.11ha



Contact us with any questions at:

info@groundsure.com

08444 159 000

Date: 26 August 2021

Recent site history - 2016 aerial photograph



Capture Date: 21/04/2016

Site Area: 2.11ha



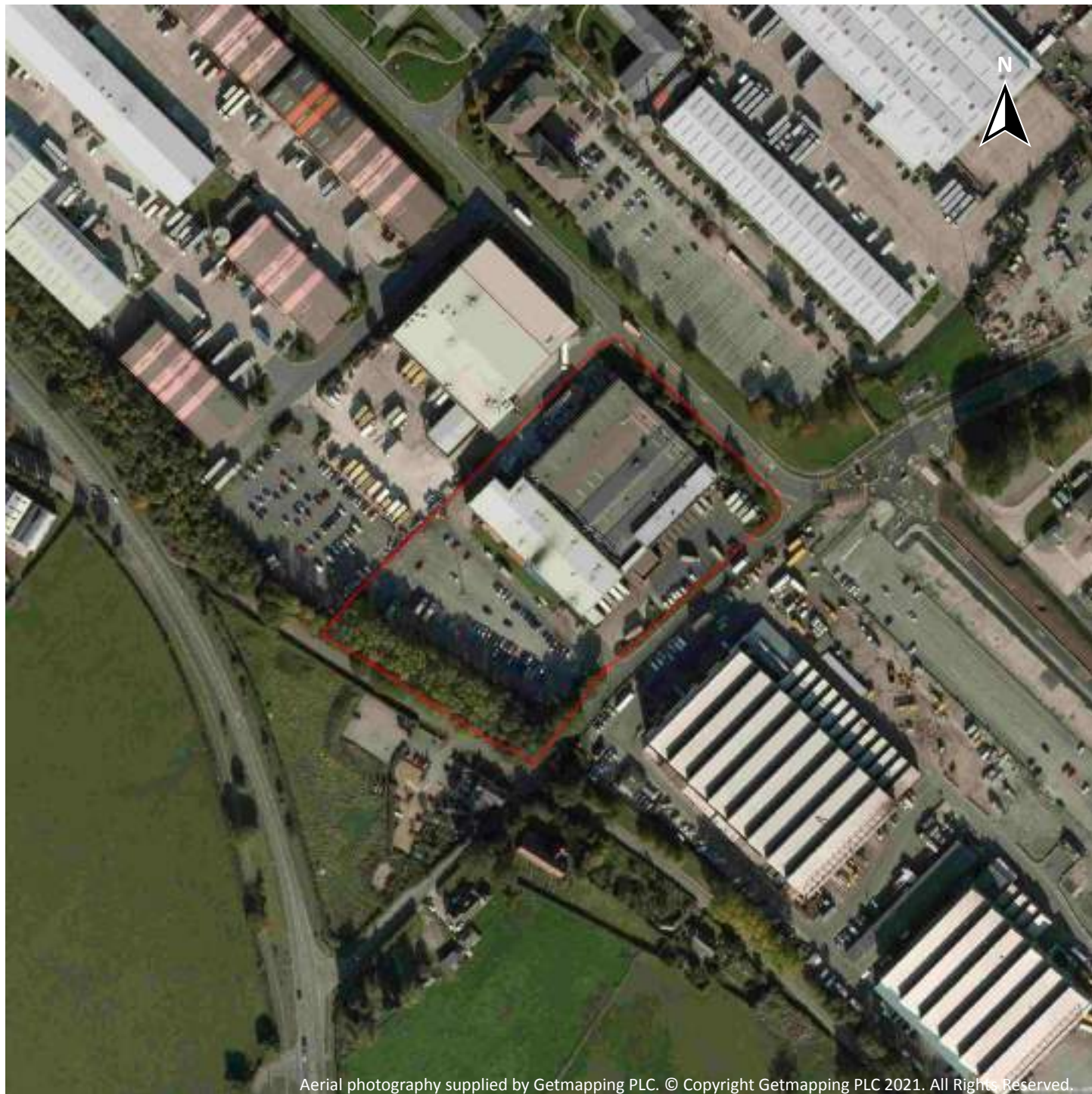
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Date: 26 August 2021

Recent site history - 2010 aerial photograph



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Capture Date: 17/10/2010

Site Area: 2.11ha



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Date: 26 August 2021

Recent site history - 2005 aerial photograph



Capture Date: 02/09/2005

Site Area: 2.11ha

Recent site history - 2000 aerial photograph



Capture Date: 27/06/2000

Site Area: 2.11ha



OS MasterMap site plan



Site Area: 2.11ha



1 Past land use



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

1.1 Historical industrial land uses

Records within 500m

19

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 14**

ID	Location	Land use	Dates present	Group ID
1	On site	Airport	1995	845359



ID	Location	Land use	Dates present	Group ID
A	On site	Airport	1989	878654
B	On site	Airport	1953	989364
C	6m SE	Unspecified Commercial/Industrial	1974	796960
D	11m SW	Smithy	1938	943361
D	17m SW	Smithy	1899 - 1910	885346
A	164m E	Unspecified Tanks	1989	815435
4	175m NE	Airport	1974 - 1975	897813
5	175m NE	Airport	1967	844689
6	177m NW	Wireless Station	1989	802256
G	205m W	Unspecified Tank	1989	825000
7	231m SE	Unspecified Works	1974	830660
M	299m SE	Sewage Works	1974	811850
M	320m SE	Unspecified Tank	1974	824998
8	334m NE	Unspecified Tank	1975	824999
9	392m NW	Unspecified Depot	1989 - 1995	914596
B	422m SE	Unspecified Pit	1989	853250
B	422m SE	Unspecified Pit	1974	950609
11	490m W	Cuttings	1995	963338

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

37

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 14**



ID	Location	Land use	Dates present	Group ID
3	59m SE	Unspecified Tank	1968 - 1987	126292
E	101m N	Unspecified Tank	1987 - 1995	146099
C	146m SE	Tanks	1995 - 1996	126339
C	158m SE	Tanks	1995 - 1996	142707
A	159m E	Tanks	1987 - 1996	137116
A	187m E	Unspecified Tank	1995 - 1996	131170
C	206m SE	Unspecified Tank	1987 - 1996	128311
G	207m W	Unspecified Tank	1987	114872
A	209m E	Unspecified Tank	1987 - 1996	143016
A	214m E	Unspecified Tank	1995 - 1996	143549
A	222m E	Unspecified Tank	1987 - 1996	125562
A	238m E	Unspecified Tank	1987 - 1996	147552
A	246m E	Unspecified Tank	1987 - 1996	148025
I	252m NE	Unspecified Tank	1987 - 1992	125764
J	255m E	Unspecified Tank	1995 - 1996	131304
J	257m E	Unspecified Tank	1987 - 1990	149283
K	273m SE	Tanks	1968	125152
K	273m SE	Tanks	1968	136089
K	276m SE	Unspecified Tank	1987	114873
K	285m SE	Unspecified Tank	1987 - 1996	129923
L	286m N	Tanks	1995	136308
L	287m N	Tanks	1990 - 1991	135148
M	289m SE	Unspecified Tank	1995 - 1996	139784
M	296m SE	Unspecified Tank	1995 - 1996	145845
M	321m SE	Unspecified Tank	1987 - 1996	149270
M	334m SE	Unspecified Tank	1987 - 1990	127696
M	336m SE	Unspecified Tank	1995	128767
B	419m SE	Unspecified Tank	1987 - 1990	133887



ID	Location	Land use	Dates present	Group ID
B	420m SE	Unspecified Tank	1995	143162
B	421m SE	Unspecified Tank	1987 - 1995	130265
B	436m SE	Unspecified Tank	1995 - 1996	123647
B	438m SE	Unspecified Tank	1987	136269
B	444m SE	Unspecified Tank	1995 - 1997	127078
B	455m SE	Unspecified Tank	1968	141112
B	456m SE	Unspecified Tank	1968	139281
B	464m SE	Unspecified Tank	1995 - 1997	129845
B	490m SE	Unspecified Tank	1995 - 1997	147089

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

11

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 14**

ID	Location	Land use	Dates present	Group ID
2	On site	Electricity Substation	1987	61802
E	106m N	Electricity Substation	1995	66850
E	106m N	Electricity Substation	1987 - 1991	78382
F	156m E	Electricity Substation	1987 - 1996	67847
F	156m E	Electricity Substation	1987 - 1990	73083
H	228m NE	Electricity Substation	1992	68947
H	229m NE	Electricity Substation	1987	64893
I	259m NE	Electricity Substation	1992	64065
I	259m NE	Electricity Substation	1987	79361



ID	Location	Land use	Dates present	Group ID
A	286m E	Electricity Substation	1987	61807
10	476m N	Electricity Substation	1990	61816

This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

0

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

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

0

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

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



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

2.1 Historical industrial land uses

Records within 500m

23

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

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

ID	Location	Land Use	Date	Group ID
1	On site	Airport	1995	845359
3	On site	Airport	1989	878654
A	On site	Airport	1953	989364



ID	Location	Land Use	Date	Group ID
B	6m SE	Unspecified Commercial/Industrial	1974	796960
C	11m SW	Smithy	1938	943361
C	17m SW	Smithy	1910	885346
C	20m SW	Smithy	1899	885346
4	48m N	Airport	1989	878654
G	164m E	Unspecified Tanks	1989	815435
H	175m NE	Airport	1967	844689
H	175m NE	Airport	1975	897813
5	177m NW	Wireless Station	1989	802256
I	205m W	Unspecified Tank	1989	825000
6	231m SE	Unspecified Works	1974	830660
O	299m SE	Sewage Works	1974	811850
O	320m SE	Unspecified Tank	1974	824998
7	334m NE	Unspecified Tank	1975	824999
P	392m NW	Unspecified Depot	1995	914596
P	392m NW	Unspecified Depot	1989	914596
8	400m E	Airport	1974	897813
A	422m SE	Unspecified Pit	1989	853250
A	422m SE	Unspecified Pit	1974	950609
10	490m W	Cuttings	1995	963338

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

86

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

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



ID	Location	Land Use	Date	Group ID
D	59m SE	Unspecified Tank	1987	126292
D	60m SE	Unspecified Tank	1968	126292
D	60m SE	Unspecified Tank	1973	126292
D	60m SE	Unspecified Tank	1968	126292
E	101m N	Unspecified Tank	1995	146099
E	101m N	Unspecified Tank	1987	146099
E	101m N	Unspecified Tank	1990	146099
E	101m N	Unspecified Tank	1991	146099
B	146m SE	Tanks	1995	126339
B	146m SE	Tanks	1996	126339
B	158m SE	Tanks	1995	142707
B	158m SE	Tanks	1996	142707
G	159m E	Tanks	1987	137116
G	159m E	Tanks	1990	137116
G	161m E	Tanks	1995	137116
G	161m E	Tanks	1996	137116
G	187m E	Unspecified Tank	1995	131170
G	187m E	Unspecified Tank	1996	131170
B	206m SE	Unspecified Tank	1987	128311
B	206m SE	Unspecified Tank	1990	128311
I	207m W	Unspecified Tank	1987	114872
G	209m E	Unspecified Tank	1987	143016
G	209m E	Unspecified Tank	1990	143016
B	209m SE	Unspecified Tank	1995	128311
B	209m SE	Unspecified Tank	1996	128311
G	209m E	Unspecified Tank	1995	143016
G	209m E	Unspecified Tank	1996	143016
G	214m E	Unspecified Tank	1995	143549

ID	Location	Land Use	Date	Group ID
G	214m E	Unspecified Tank	1996	143549
G	222m E	Unspecified Tank	1987	125562
G	222m E	Unspecified Tank	1990	125562
G	226m E	Unspecified Tank	1995	125562
G	226m E	Unspecified Tank	1996	125562
G	238m E	Unspecified Tank	1987	147552
G	238m E	Unspecified Tank	1990	147552
G	239m E	Unspecified Tank	1995	147552
G	239m E	Unspecified Tank	1996	147552
G	246m E	Unspecified Tank	1987	148025
G	246m E	Unspecified Tank	1990	148025
G	247m E	Unspecified Tank	1995	148025
G	247m E	Unspecified Tank	1996	148025
K	252m NE	Unspecified Tank	1992	125764
K	253m NE	Unspecified Tank	1987	125764
L	255m E	Unspecified Tank	1995	131304
L	255m E	Unspecified Tank	1996	131304
L	257m E	Unspecified Tank	1987	149283
L	257m E	Unspecified Tank	1990	149283
M	273m SE	Tanks	1968	136089
M	273m SE	Tanks	1968	125152
M	273m SE	Tanks	1968	136089
M	276m SE	Unspecified Tank	1987	114873
M	277m SE	Tanks	1968	125152
M	285m SE	Unspecified Tank	1987	129923
M	285m SE	Unspecified Tank	1990	129923
N	286m N	Tanks	1995	136308
M	287m SE	Unspecified Tank	1995	129923



ID	Location	Land Use	Date	Group ID
M	287m SE	Unspecified Tank	1996	129923
N	287m N	Tanks	1990	135148
N	287m N	Tanks	1991	135148
O	289m SE	Unspecified Tank	1995	139784
O	289m SE	Unspecified Tank	1996	139784
O	296m SE	Unspecified Tank	1995	145845
O	296m SE	Unspecified Tank	1996	145845
O	321m SE	Unspecified Tank	1987	149270
O	321m SE	Unspecified Tank	1990	149270
O	323m SE	Unspecified Tank	1995	149270
O	323m SE	Unspecified Tank	1996	149270
O	334m SE	Unspecified Tank	1987	127696
O	334m SE	Unspecified Tank	1990	127696
O	336m SE	Unspecified Tank	1995	128767
A	419m SE	Unspecified Tank	1987	133887
A	419m SE	Unspecified Tank	1990	133887
A	420m SE	Unspecified Tank	1995	143162
A	421m SE	Unspecified Tank	1987	130265
A	422m SE	Unspecified Tank	1995	130265
A	436m SE	Unspecified Tank	1995	123647
A	436m SE	Unspecified Tank	1996	123647
A	438m SE	Unspecified Tank	1987	136269
A	444m SE	Unspecified Tank	1995	127078
A	444m SE	Unspecified Tank	1997	127078
A	455m SE	Unspecified Tank	1968	141112
A	456m SE	Unspecified Tank	1968	139281
A	464m SE	Unspecified Tank	1995	129845
A	464m SE	Unspecified Tank	1997	129845



ID	Location	Land Use	Date	Group ID
A	490m SE	Unspecified Tank	1995	147089
A	490m SE	Unspecified Tank	1997	147089

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

17

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

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

ID	Location	Land Use	Date	Group ID
2	On site	Electricity Substation	1987	61802
E	106m N	Electricity Substation	1995	66850
E	106m N	Electricity Substation	1987	78382
E	106m N	Electricity Substation	1990	78382
E	106m N	Electricity Substation	1991	78382
F	156m E	Electricity Substation	1987	67847
F	156m E	Electricity Substation	1990	67847
F	156m E	Electricity Substation	1987	73083
F	156m E	Electricity Substation	1990	73083
F	156m E	Electricity Substation	1995	67847
F	156m E	Electricity Substation	1996	67847
J	228m NE	Electricity Substation	1992	68947
J	229m NE	Electricity Substation	1987	64893
K	259m NE	Electricity Substation	1992	64065
K	259m NE	Electricity Substation	1987	79361
G	286m E	Electricity Substation	1987	61807
9	476m N	Electricity Substation	1990	61816

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

0

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'.

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m**0**

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m**0**

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

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

3.5 Historical waste sites

Records within 500m**0**

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

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

3.6 Licensed waste sites

Records within 500m**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**9**

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 26**

ID	Location	Site	Reference	Category	Sub-Category	Description
1	43m NW	BAM Construction, Pinfold Lane, Avro Way, World Freight Terminal, Manchester Airport, Manchester, M90 5AF	WEX089429	Using waste exemption	Not on a farm	Use of waste in construction
A	126m SE	Hanger 3 Fuelling Farm Olympic House MANCHESTER M90 1QX	EPR/UE5840MZ/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
A	126m SE	Materials Innovation Factory University of Liverpool Grove Street Liverpool L69 7ZJ	EPR/HE5744GP/A001	Treating waste exemption	Non-Agricultural Waste Only	Treatment of waste wood and waste plant matter by chipping, shredding, cutting or pulverising
A	126m SE	Materials Innovation Factory University of Liverpool Grove Street Liverpool L69 7ZJ	EPR/HE5744GP/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
2	213m SW	MAG DHL Warehouse Sunbank Lane	EPR/JE5382DE/A001	Using waste exemption	Non-Agricultural Waste Only	Use of waste in construction
3	282m E	Manchester Airport, Pinfold Lane, off Avro Way, Manchester, M90 5XA	WEX162999	Using waste exemption	Not on a Farm	Use of waste in construction
B	473m NW	Hale Depot, M56 Hunction 6, Wilmslow Road Roundabout, Hale, Altrincham, WA15 8XL	WEX164848	Treating waste exemption	Not on a Farm	Treatment of waste aerosol cans
B	473m NW	Hale Motorway Maintenance Compound, Wilmslow Road Roundabout, Hale, Altrincham, WA15 8XL	WEX168955	Storing waste exemption	Not on a farm	Storage of waste in secure containers
B	473m NW	Hale Motorway Maintenance Compound, Wilmslow Road Roundabout, Hale, Altrincham, WA15 8XL	WEX168955	Storing waste exemption	Not on a farm	Storage of waste in a secure place

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
- ▲ Hazardous substance storage/usage
- ◆ Licensed pollutant release (Part A(2)/B)
- ◆ Licensed Discharges to controlled waters

4.1 Recent industrial land uses

Records within 250m

62

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Company	Address	Activity	Category
1	On site	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
2	58m NW	Alpha LSG	402 Avro Way, Manchester Airport, Manchester, Greater Manchester, M90 5AF	Aeroplanes	Industrial Products
A	65m SE	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
B	103m N	Air Canada	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UY	Distribution and Haulage	Transport, Storage and Delivery
B	108m N	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
C	108m NW	Supply 2 Order	Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Container and Storage	Transport, Storage and Delivery
B	111m N	N N R Global Logistics	Unit 2 Building 301, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UX	Distribution and Haulage	Transport, Storage and Delivery
B	111m N	Warme Heating Ltd	Unit 6 Building 301, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UX	Industrial Repairs and Servicing	Repair and Servicing
B	111m N	Davies Turner Plc	Unit 10 Building 301, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UX	Distribution and Haulage	Transport, Storage and Delivery
B	111m N	T Q Express	Unit 7 Building 301, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UX	Airlines and Airline Services	Transport, Storage and Delivery
B	112m N	Select Euro Transport	Unit 11 Building 301, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UX	Distribution and Haulage	Transport, Storage and Delivery
C	114m N	R & M Developments Ltd	Room 212, Building 308 World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Civil Engineers	Engineering Services
C	114m N	A Z Freight Services Ltd	Building 308 Room 5 Manchester Airport, Ringway Road, Manchester, Greater Manchester, M90 5PZ	Airlines and Airline Services	Transport, Storage and Delivery
C	114m N	Noatum Logistics Ltd	Room 219 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
C	114m N	E M S Cargo Ltd	Room 11-14 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
C	114m N	Atlantic Pacific Global Logistics	Room 201-202 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
C	114m N	Evolution Logistics	Room 108-110 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery



ID	Location	Company	Address	Activity	Category
C	114m N	Air Sea Worldwide	Room 101-102 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Airlines and Airline Services	Transport, Storage and Delivery
C	118m N	Future Forwarding	Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
C	118m N	Puma Cargo Ltd	Room 11-14 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
C	118m N	C B I Global Freight Management	Room 213-214 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
C	118m N	A I T Worldwide Logistics Ltd	Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Airlines and Airline Services	Transport, Storage and Delivery
C	118m N	Maurice Ward Group	Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
B	119m N	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
E	125m NW	Mapcargo	1st Floor Building 314, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5EX	Distribution and Haulage	Transport, Storage and Delivery
E	125m NW	Air Menzies International	Building 314, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5EX	Distribution and Haulage	Transport, Storage and Delivery
F	133m NW	D B Schenker	Building 315 World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5BG	Distribution and Haulage	Transport, Storage and Delivery
F	133m NW	Tranzfast Logistica UK Ltd	Building 315, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5BG	Airlines and Airline Services	Transport, Storage and Delivery
F	133m NW	Red Head International	Building 315, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5BG	Distribution and Haulage	Transport, Storage and Delivery
B	136m N	Vantec World Transport Manchester	Room 117-119 Building 308, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5PZ	Distribution and Haulage	Transport, Storage and Delivery
F	164m NW	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
D	164m E	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
G	166m SE	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
D	168m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
H	169m W	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
3	176m NW	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
G	180m SE	Airline Services Ltd	Hangar 4, Pinfold Lane, Manchester Airport, Manchester, Greater Manchester, M90 5YF	Aeroplanes	Industrial Products
D	186m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
I	187m N	A F I	Unit 1/A Building 303, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UJ	Airlines and Airline Services	Transport, Storage and Delivery
H	190m W	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
J	194m NE	Airline Cargo Management Ltd	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5BA	Airlines and Airline Services	Transport, Storage and Delivery
J	194m NE	Dunwoody Airline	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UY	Distribution and Haulage	Transport, Storage and Delivery
J	194m NE	Air Liaison	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UY	Airlines and Airline Services	Transport, Storage and Delivery
J	194m NE	Singapore Airlines Cargo	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UY	Distribution and Haulage	Transport, Storage and Delivery
J	194m NE	Omni Airline Services	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5BA	Distribution and Haulage	Transport, Storage and Delivery
J	194m NE	Globe Air Cargo	Building 300, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UY	Airlines and Airline Services	Transport, Storage and Delivery
D	200m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features



ID	Location	Company	Address	Activity	Category
I	202m N	Trilogy Freight	Unit 1a Building 303, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UJ	Distribution and Haulage	Transport, Storage and Delivery
I	202m N	S O S Air Cargo Ltd	Unit 1a Building 303, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UJ	Distribution and Haulage	Transport, Storage and Delivery
I	202m N	Blacksmith Freight Services	Unit 5 Building 303, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UJ	Distribution and Haulage	Transport, Storage and Delivery
I	202m N	Fedex Trade Networks	Unit 2 Building 303, World Freight Terminal, Manchester Airport, Manchester, Greater Manchester, M90 5UJ	Airlines and Airline Services	Transport, Storage and Delivery
D	207m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
D	209m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
H	214m W	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
4	215m SE	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
D	219m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
D	223m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
H	225m W	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
J	231m NE	Electricity Sub Station	Greater Manchester, M90	Electrical Features	Infrastructure and Facilities
K	233m SE	Aeroco Group	Hangar 4 Western Maintenance Area, Manchester Airport, Manchester, Greater Manchester, M90 5YP	Aviation Engineers	Engineering Services
D	238m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features
D	244m E	Tank	Greater Manchester, M90	Tanks (Generic)	Industrial Features

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m

1

Open, closed, under development and obsolete petrol stations.

Features are displayed on the Current industrial land use map on **page 29**



ID	Location	Company	Address	LPG	Status
L	284m SW	BP	Wilmslow Road, Icon Manchester Airport, Altrincham, Greater Manchester, WA15 0PT	No	Open

This data is sourced from Experian.

4.3 Electricity cables

Records within 500m

0

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

Records within 500m

0

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

Records within 500m

0

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m

1

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 29**

ID	Location	Company	Address	Operational status	Tier
D	115m E	Air BP Limited	Air BP Limited, Manchester Airport, Pinfold Lane, Manchester, Greater Manchester, M90 5AX	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

3

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.

Features are displayed on the Current industrial land use map on **page 29**

ID	Location	Details	
D	187m E	Application reference number: 065383/HSC/SOUTH2/02 Application status: Approved Application date: 03/10/2002 Address: Air BP Ltd, c/o Manchester Airport Storage and Hydrant Company Ltd, Pinfold Lane, Manchester Airport, Manchester, Greater Manchester, England, M90 5XA	Details: Storage Of Jet A1 Fuel Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
D	187m E	Application reference number: 065383/HSC/SOUTH2/02 Application status: Historical Consent Application date: 03/10/2002 Address: Pinfold Lane, Manchester Airport, Manchester, M90 5XA	Details: Storage Of Jet A1 Fuel Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
5	273m NE	Application reference number: 059375/HSC/SOUTH2/00 Application status: Unknown Application date: 31/01/2001 Address: Shell UK Ltd, Pinfold Lane, Manchester Airport, Ringway, M90 5XR	Details: Hazardous Substances Consent For Storage Of Aviation AVGAS Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

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

4

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 29**

ID	Location	Address	Details	
A	98m SE	Fls Aerospace Ltd, Runger Lane, M90 5FL	Process: Respraying of Road Vehicles Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
K	229m SE	Airline Services Limited, Hanger 4, Western Maintenance Area, Manchester Airport M90 5YP	Process: Dry Cleaning Status: Historical Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified
L	270m SW	BP Airport City, BP Airport City SF Connect, Airport City South, Wilmslow Road, Manchester, WA15 OPT	Process: Unloading of Petrol into Storage at Service Stations Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement Notified

ID	Location	Address	Details	
8	496m SE	Air Livery Plc, Off Pinfold Lane, Hanger 2, Manchester Airport, Manchester, M90 5BA	Process: Respraying of Road Vehicles Status: Current Permit Permit Type: Part B	Enforcement: No Enforcement Notified Date of enforcement: No Enforcement Notified Comment: No Enforcement 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

11

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 29**

ID	Location	Address	Details	
M	310m SE	MANCHESTER AIRPORT DOUBLEWOOD BROOK, DOUBLE WOOD BROOK OUTFALL, MANCHESTER AIRPORT, MANCHESTER, GREATER MANCHESTER, M90 1QX	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016992832 Permit Version: 1 Receiving Water: COTTERIL CLOUGH BROOK	Status: SURRENDERED UNDER EPR 2010 Issue date: - Effective Date: 30/09/1994 Revocation Date: 16/11/2015
M	314m SE	MANCHESTER AIRPORT: SITE DRAINAGE, AND CONTAINMENT SYSTEM, OLYMPIC HOUSE, OFF THE DOMESTIC APPROACH ROAD, MANCHESTER, M90 1QX	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRCB3299EN Permit Version: 1 Receiving Water: RIVER BOLLIN & NEARBY TRIBS	Status: NEW ISSUED UNDER EPR 2010 Issue date: 30/10/2015 Effective Date: 16/11/2015 Revocation Date: 14/02/2019
M	314m SE	MANCHESTER AIRPORT: SITE DRAINAGE, AND CONTAINMENT SYSTEM, OLYMPIC HOUSE, OFF THE DOMESTIC APPROACH ROAD, MANCHESTER, M90 1QX	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRCB3299EN Permit Version: 1 Receiving Water: RIVER BOLLIN & NEARBY TRIBS	Status: NEW ISSUED UNDER EPR 2010 Issue date: 30/10/2015 Effective Date: 16/11/2015 Revocation Date: 14/02/2019



ID	Location	Address	Details	
M	314m SE	MANCHESTER AIRPORT: SITE DRAINAGE, AND CONTAINMENT SYSTEM, OLYMPIC HOUSE, OFF THE DOMESTIC APPROACH ROAD, MANCHESTER, M90 1QX	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRCB3299EN Permit Version: 2 Receiving Water: RIVER BOLLIN & NEARBY TRIBS	Status: VARIED UNDER EPR 2010 Issue date: 15/02/2019 Effective Date: 15/02/2019 Revocation Date: -
M	314m SE	MANCHESTER AIRPORT: SITE DRAINAGE, AND CONTAINMENT SYSTEM, OLYMPIC HOUSE, OFF THE DOMESTIC APPROACH ROAD, MANCHESTER, M90 1QX	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRCB3299EN Permit Version: 2 Receiving Water: RIVER BOLLIN & NEARBY TRIBS	Status: VARIED UNDER EPR 2010 Issue date: 15/02/2019 Effective Date: 15/02/2019 Revocation Date: -
N	328m NE	MANCHESTER AIRPORT: SITE DRAINAGE, AND CONTAINMENT SYSTEM, OLYMPIC HOUSE, OFF THE DOMESTIC APPROACH ROAD, MANCHESTER, M90 1QX	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRCB3299EN Permit Version: 1 Receiving Water: RIVER BOLLIN & NEARBY TRIBS	Status: NEW ISSUED UNDER EPR 2010 Issue date: 30/10/2015 Effective Date: 16/11/2015 Revocation Date: 14/02/2019
N	328m NE	MANCHESTER AIRPORT: SITE DRAINAGE, AND CONTAINMENT SYSTEM, OLYMPIC HOUSE, OFF THE DOMESTIC APPROACH ROAD, MANCHESTER, M90 1QX	Effluent Type: TRADE DISCHARGES - SITE DRAINAGE Permit Number: EPRCB3299EN Permit Version: 2 Receiving Water: RIVER BOLLIN & NEARBY TRIBS	Status: VARIED UNDER EPR 2010 Issue date: 15/02/2019 Effective Date: 15/02/2019 Revocation Date: -
6	342m S	THE ROMPER PS, THE ROMPER PUBLIC HOUSE, WILMSLOW ROAD, ALTRINCHAM, GREATER MANCHESTER, WA15 8XJ	Effluent Type: SEWAGE & TRADE COMBINED - UNSPECIFIED Permit Number: 016993171 Permit Version: 1 Receiving Water: COTERILL CLOUGH	Status: POST NRA LEGISLATION WHERE ISSUE DATE > 31-AUG-89 (HISTORIC ONLY) Issue date: 20/03/1997 Effective Date: 20/03/1997 Revocation Date: -
O	355m NE	AIRCRAFT STANDS SWO, MANCHESTER AIRPORT PLC, RINGWAY	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991392 Permit Version: 1 Receiving Water: RIVER BOLLIN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/10/1994 Revocation Date: 31/10/1994
O	355m NE	AIRCRAFT STANDS SWO, MANCHESTER AIRPORT PLC, RINGWAY	Effluent Type: MISCELLANEOUS DISCHARGES - SURFACE WATER Permit Number: 016991392 Permit Version: 2 Receiving Water: RIVER BOLLIN	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/11/1994 Revocation Date: 02/12/1994



ID	Location	Address	Details	
7	377m SE	MANCHESTER AIRPORT DOUBLEWOOD BROOK, DOUBLE WOOD BROOK OUTFALL, MANCHESTER AIRPORT, MANCHESTER, GREATER MANCHESTER, M90 1QX	Effluent Type: SEWAGE DISCHARGES - FINAL/TREATED EFFLUENT - NOT WATER COMPANY Permit Number: 016990207 Permit Version: 1 Receiving Water: COTTERILL CLOUGH BROOK	Status: REVOKED - UNSPECIFIED Issue date: - Effective Date: 01/06/1980 Revocation Date: 26/04/1991

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**0**

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

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

4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

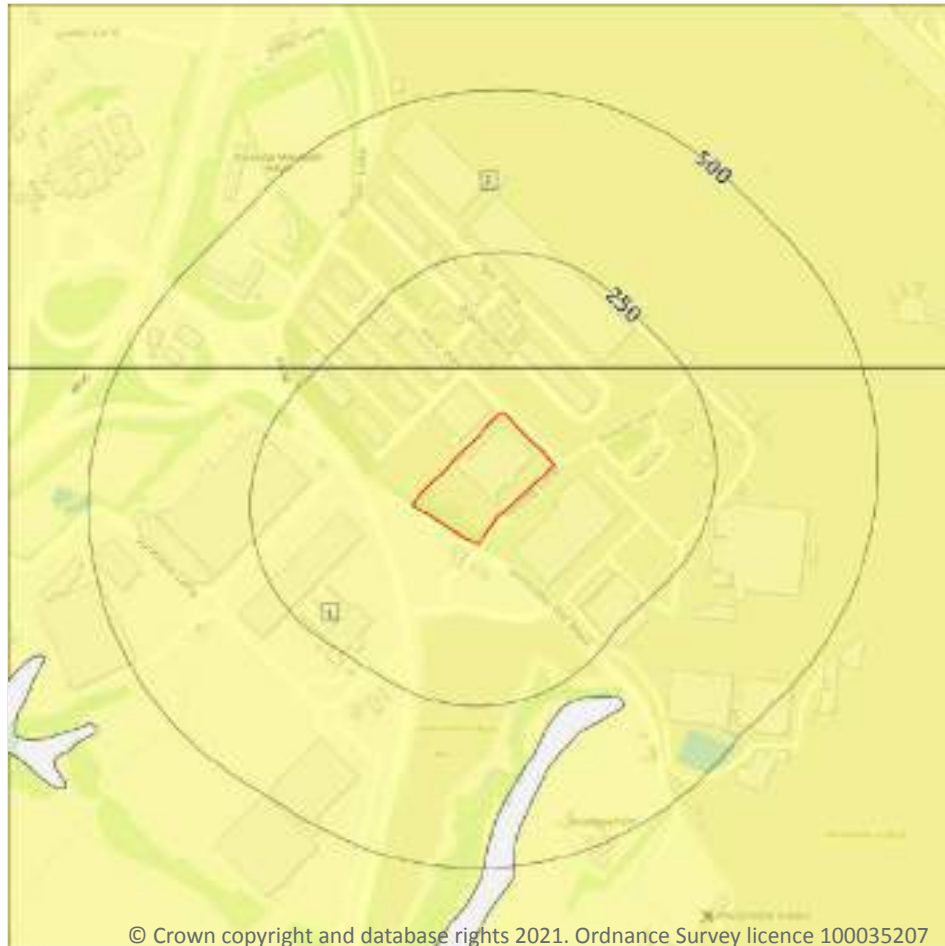
4.21 Pollution inventory radioactive waste

Records within 500m**0**

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

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

5 Hydrogeology - Superficial aquifer



— Site Outline

Search buffers in metres (m)

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

5.1 Superficial aquifer

Records within 500m

2

Aquifer status of groundwater held within superficial geology.

Features are displayed on the Hydrogeology map on **page 41**

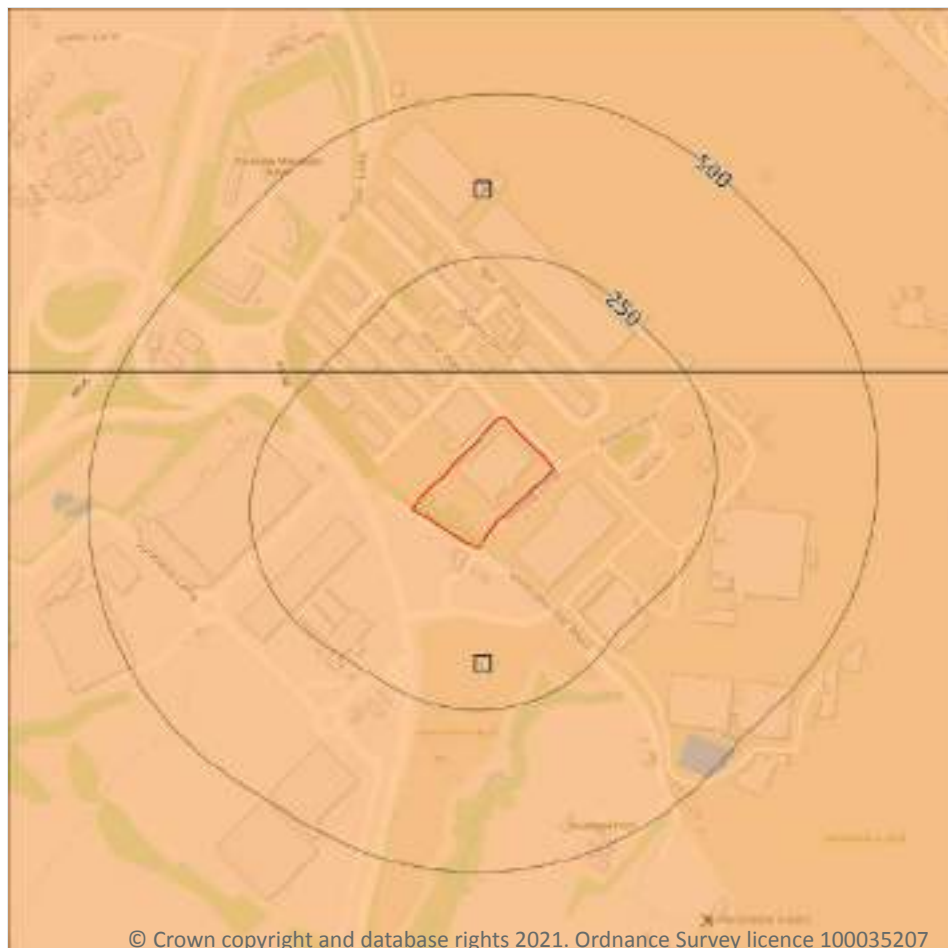
ID	Location	Designation	Description
1	On site	Secondary Undifferentiated	Assigned where it is not possible to attribute either category A or B to a rock type. In general these layers have previously been designated as both minor and non-aquifer in different locations due to the variable characteristics of the rock type
2	71m 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



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

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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 43**

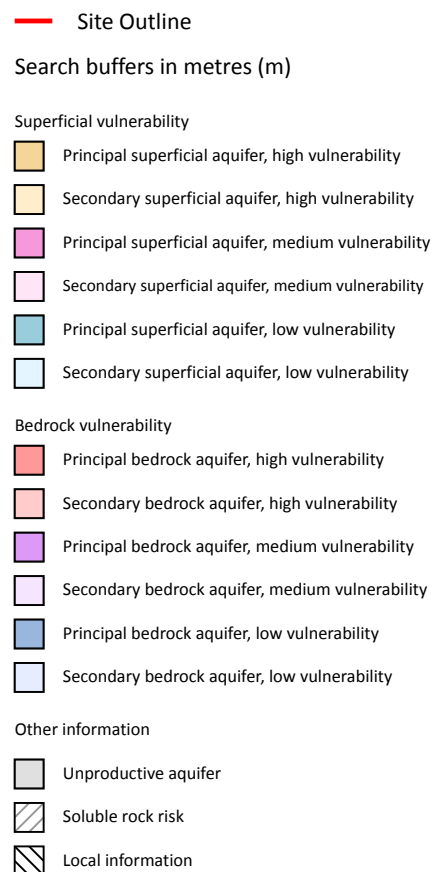
ID	Location	Designation	Description
1	On site	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-aquifers
2	71m N	Secondary B	Predominantly lower permeability layers which may store/yield limited amounts of groundwater due to localised features such as fissures, thin permeable horizons and weathering. These are generally the water-bearing parts of the former non-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 45**

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: 300- 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	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: 300- 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

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
Point features
- 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

0

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.

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

5.7 Surface water abstractions

Records within 2000m

5

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 47**

ID	Location	Details	
-	1827m NW	Status: Historical Licence No: 2569017036/R1 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNDERGROUND STORAGE TANK FED BY LOCAL SURFACE DRAINAGE Data Type: Point Name: RINGWAY GOLF CLUB LIMITED Easting: 379536 Northing: 386114	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 71.5 Original Application No: - Original Start Date: 28/04/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 28/04/2004 Version End Date: -
-	1827m NW	Status: Active Licence No: 2569017036/R02 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNDERGROUND STORAGE TANK FED BY LOCAL SURFACE DRAINAGE Data Type: Point Name: RINGWAY GOLF CLUB LIMITED Easting: 379536 Northing: 386114	Annual Volume (m ³): 5,000 Max Daily Volume (m ³): 60 Original Application No: - Original Start Date: 01/04/2018 Expiry Date: 31/03/2030 Issue No: 1 Version Start Date: 01/04/2018 Version End Date: -
-	1842m NW	Status: Historical Licence No: 2569017036 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNDERGROUND STORAGE TANK FED BY LOCAL SURFACE DRAINAGE Data Type: Point Name: THE SECRETARY Easting: 379500 Northing: 386100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 13/07/1999 Expiry Date: 12/07/2004 Issue No: 1 Version Start Date: 13/07/1999 Version End Date: -



ID	Location	Details	
-	1842m NW	Status: Historical Licence No: 2569017036/R1 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNDERGROUND STORAGE TANK FED BY LOCAL SURFACE DRAINAGE Data Type: Point Name: RINGWAY GOLF CLUB LIMITED Easting: 379500 Northing: 386100	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 28/04/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 28/04/2004 Version End Date: -
-	1842m NW	Status: Historical Licence No: 2569017036/R1 Details: Spray Irrigation - Direct Direct Source: Surface, Non-Tidal - North West Region Point: UNDERGROUND STORAGE TANK FED BY LOCAL SURFACE DRAINAGE Data Type: Point Name: RINGWAY GOLF CLUB LIMITED Easting: 379500 Northing: 386100	Annual Volume (m ³): 5000 Max Daily Volume (m ³): 71.5 Original Application No: - Original Start Date: 28/04/2004 Expiry Date: 31/03/2018 Issue No: 1 Version Start Date: 28/04/2004 Version End Date: -

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

5.8 Potable abstractions

Records within 2000m	0
-----------------------------	----------

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

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

5.9 Source Protection Zones

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

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

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



5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site	2
------------------------	----------

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

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

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
1	On site	River WB catchment	Timperley Brook	GB112069061260	Bollin, Dean, Upper Mersey	Upper Mersey
2	On site	River WB catchment	Bollin (River Dean to Ashley Mill)	GB112069061381	Bollin, Dean, Upper Mersey	Upper Mersey

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

6.4 WFD Surface water bodies

Records identified	2
---------------------------	----------

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

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

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
3	259m S	River	Bollin (River Dean to Ashley Mill)	GB112069061381	Moderate	Good	Moderate	2016
-	2314m NW	River	Timperley Brook	GB112069061260	Moderate	Good	Moderate	2016

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



6.5 WFD Groundwater bodies

Records on site

2

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

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

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Weaver and Dane Quaternary Sand and Gravel Aquifers	<u>GB41202G991700</u>	Poor	Poor	Good	2015
A	On site	Weaver and Dane Quaternary Sand and Gravel Aquifers	<u>GB41202G991700</u>	Poor	Poor	Good	2016

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



7 River and coastal flooding

7.1 Risk of Flooding from Rivers and Sea (RoFRaS)

Records within 50m

0

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

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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



7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

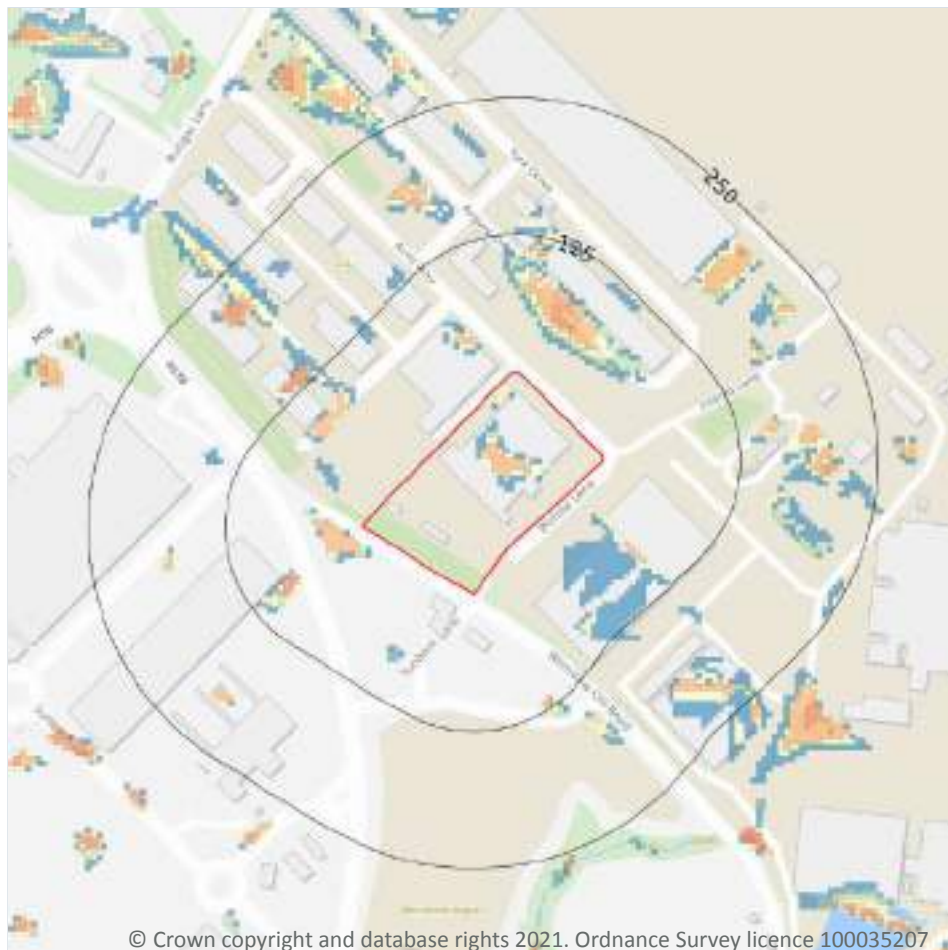
0

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

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



8 Surface water flooding



— Site Outline

Search buffers in metres (m)

1 in 1000 return period

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

1 in 250 return period

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

1 in 100 return period

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

1 in 30 return period

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

8.1 Surface water flooding

Highest risk on site

1 in 30 year, 0.1m - 0.3m

Highest risk within 50m

1 in 30 year, 0.1m - 0.3m

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

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

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

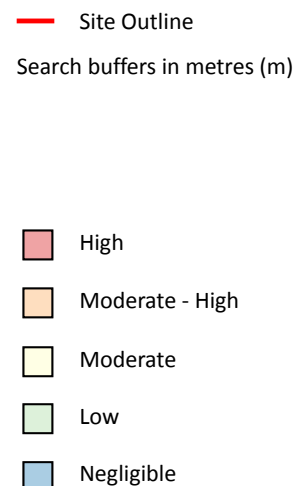
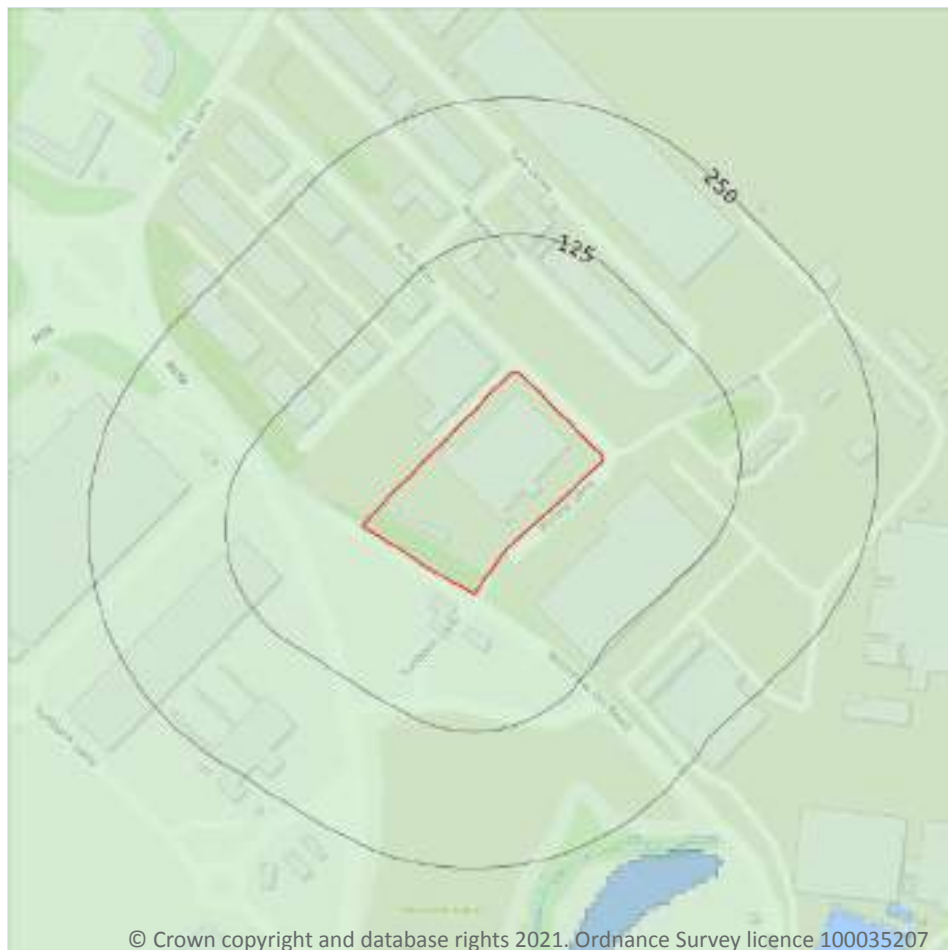
The table below shows the maximum flood depths for a range of return periods for the site.

Return period	Maximum modelled depth
1 in 1000 year	Between 0.3m and 1.0m
1 in 250 year	Between 0.3m and 1.0m
1 in 100 year	Between 0.3m and 1.0m
1 in 30 year	Between 0.1m and 0.3m

This data is sourced from Ambiantal Risk Analytics.



9 Groundwater flooding



9.1 Groundwater flooding

Highest risk on site

Low

Highest risk within 50m

Low

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

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

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

2

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

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

ID	Location	Name	Data source
A	345m S	Cotteril Clough	Natural England



ID	Location	Name	Data source
B	720m S	Cotteril Clough	Natural England

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m

0

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

0

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.

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

10.7 Designated Ancient Woodland

Records within 2000m

10

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

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

ID	Location	Name	Woodland Type
A	210m SE	Cotterill Clough	Ancient & Semi-Natural Woodland
2	519m SW	Sunbank Wood	Ancient & Semi-Natural Woodland
B	720m S	Cotterill Clough	Ancient & Semi-Natural Woodland
4	1093m SW	Bollin Bank	Ancient & Semi-Natural Woodland
5	1112m N	Davenport Green Wood	Ancient & Semi-Natural Woodland
-	1259m W	Hennersley Bank	Ancient & Semi-Natural Woodland
8	1512m SE	Oversley Farm Wood	Ancient & Semi-Natural Woodland
-	1513m W	Warburton Wood	Ancient & Semi-Natural Woodland
-	1877m SW	Unknown	Ancient Replanted Woodland
-	1889m S	Unknown	Ancient & Semi-Natural Woodland

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

10.8 Biosphere Reserves

Records within 2000m

0

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

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

10.9 Forest Parks

Records within 2000m

0

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m

0

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

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

10.11 Green Belt

Records within 2000m

3

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

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

ID	Location	Name	Local Authority name
1	344m S	Merseyside and Greater Manchester	Manchester
3	542m NW	Merseyside and Greater Manchester	Trafford
6	1224m SW	Merseyside and Greater Manchester	Cheshire East

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



10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.



10.16 Nitrate Vulnerable Zones

Records within 2000m

0

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

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

3

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

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

ID	Location	Type of developments requiring consultation
1	On site	Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste of more than 2m³/day to ground (ie to seep away) or to surface water, such as a beck or stream (NB This does not include discharges to mains sewer which are unlikely to pose a risk at this location). Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply
2	On site	Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any industrial/agricultural development that could cause AIR POLLUTION (incl: industrial processes, livestock & poultry units with floorspace > 500m², slurry lagoons > 200m² & manure stores > 250t). Combustion - General combustion processes >20MW energy input. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion Waste - Landfill. Incl: inert landfill, non-hazardous landfill, hazardous landfill. Composting - Any composting proposal with more than 500 tonnes maximum annual operational throughput. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply



ID	Location	Type of developments requiring consultation
3	On site	Infrastructure - Pipelines, pylons and overhead cables. Any transport proposal including road, rail and by water (excluding routine maintenance). Airports, helipads and other aviation proposals Minerals, Oil and Gas - Planning applications for quarries, including: new proposals, Review of Minerals Permissions (ROMP), extensions, variations to conditions etc. Oil & gas exploration/extraction. Rural non-residential - Large non residential developments outside existing settlements/urban areas where net additional gross internal floorspace is > 1,000m² or footprint exceeds 0.2ha Residential - Residential development of 100 units or more. Rural residential - Any residential development of 50 or more houses outside existing settlements/urban areas. Air pollution - Any development that could cause AIR POLLUTION (incl: industrial/commercial processes, livestock & poultry units, slurry lagoons/manure stores). Combustion - All general combustion processes. Incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion. Waste - Mechanical and biological waste treatment, inert landfill, non-hazardous landfill, hazardous landfill, household civic amenity recycling facilities construction, demolition and excavation waste, other waste management Composting - Any composting proposal. Incl: open windrow composting, in-vessel composting, anaerobic digestion, other waste management. Discharges - Any discharge of water or liquid waste that is discharged to ground (ie to seep away) or to surface water, such as a beck or stream (NB this does not include discharges to mains sewer which are unlikely to pose a risk at this location). Water supply - Large infrastructure such as warehousing / industry where net additional gross internal floorspace is > 1,000m² or any development needing its own water supply

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

2

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

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

ID:	B
Location:	345m S
SSSI name:	Cotteril Clough
Unit name:	Eastern Woodland
Broad habitat:	Broadleaved, Mixed And Yew Woodland - Lowland
Condition:	Favourable
Reportable features:	



Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	13/06/2013
Wet woodland	Favourable	13/06/2013

ID: C
Location: 720m S
SSSI name: Cotteril Clough
Unit name: Western Woodland
Broad habitat: Broadleaved, Mixed And Yew Woodland - Lowland
Condition: Favourable
Reportable features:

Feature name	Feature condition	Date of assessment
Lowland mixed deciduous woodland	Favourable	30/05/2014
Wet woodland	Favourable	30/05/2014

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



11 Visual and cultural designations

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

0

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



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

11.5 Conservation Areas

Records within 250m

0

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

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

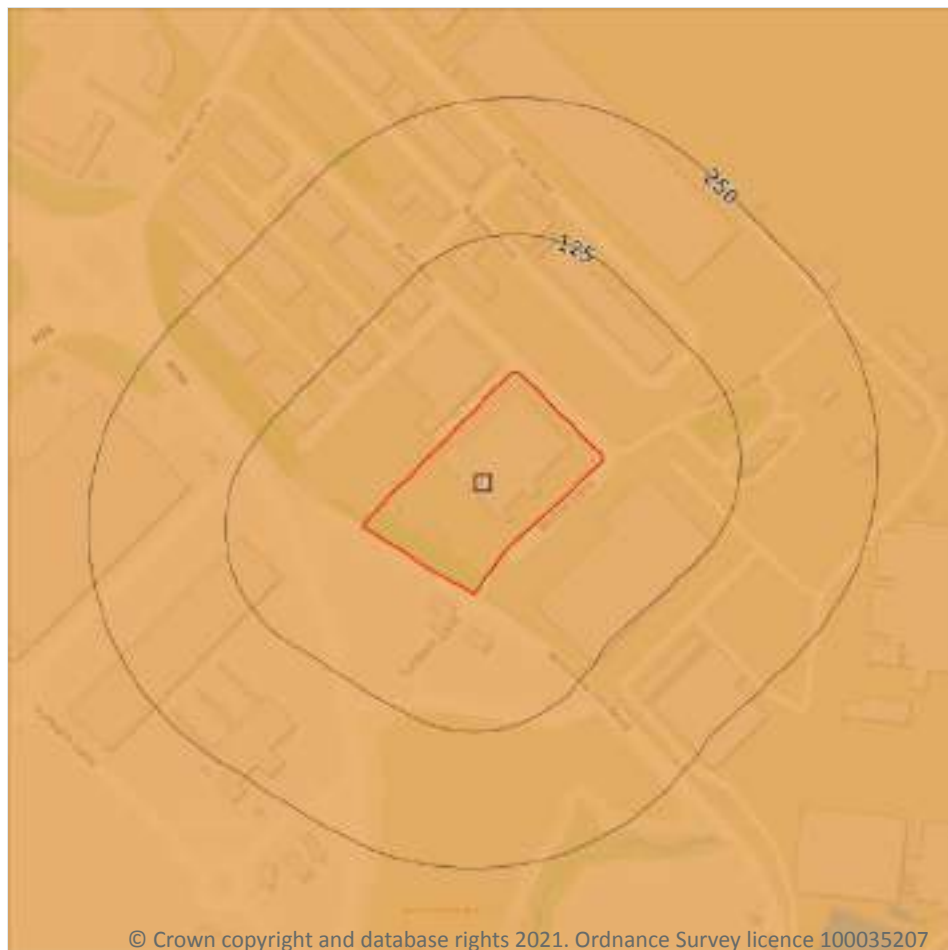
Records within 250m

0

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

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

12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

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

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.

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations



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- 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

9

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 74**

ID	Location	Main Habitat	Other habitats
1	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
A	On site	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
2	37m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)



ID	Location	Main Habitat	Other habitats
B	40m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
B	41m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	77m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
C	80m NW	Deciduous woodland	Main habitat: DWOOD (INV > 50%)
3	210m SE	Deciduous woodland	Main habitat: DWOOD (INV > 50%)

This data is sourced from Natural England.

13.2 Habitat Networks

Records within 250m

0

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

This data is sourced from Natural England.

13.3 Open Mosaic Habitat

Records within 250m

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

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 76**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	No coverage	SJ88SW
2	71m N	No coverage	Full	Full	No coverage	SJ88NW

This data is sourced from the British Geological Survey.



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

14.2 Artificial and made ground (10k)

Records within 500m

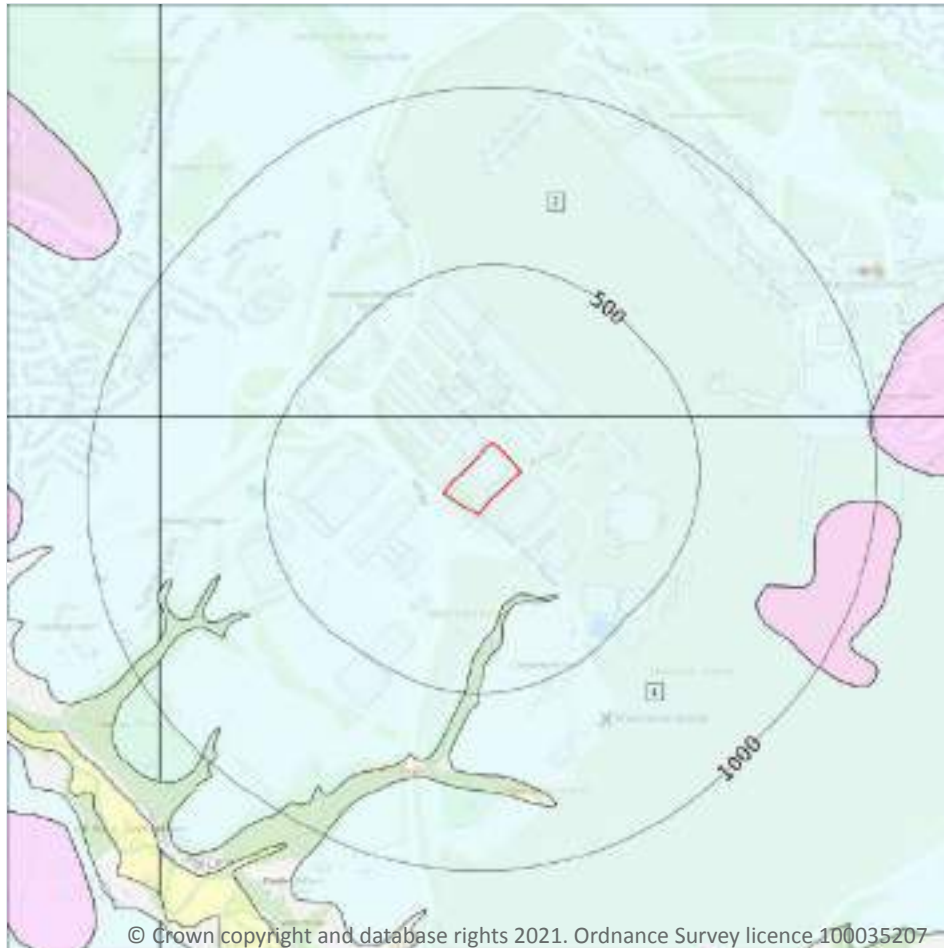
0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

2

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

Features are displayed on the Geology 1:10,000 scale - Superficial map on **page 78**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	71m N	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

14.5 Bedrock geology (10k)

Records within 500m

4

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 80**

ID	Location	LEX Code	Description	Rock age
1	On site	BOM-MDST	Bollin Mudstone Member - Mudstone	Anisian Age
2	71m N	BOM-MDST	Bollin Mudstone Member - Mudstone	Anisian Age
3	206m NE	BOM-MDST	Bollin Mudstone Member - Mudstone	Anisian Age
5	210m NE	BOM-MDST	Bollin Mudstone Member - Mudstone	Anisian Age



This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

2

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 80**

ID	Location	Category	Description
4	206m NE	FAULT	Normal fault, inferred; crossmarks on downthrow side
6	210m 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 82**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	No coverage	Full	Full	Full	EW098_stockport_v4

This data is sourced from the British Geological Survey.



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

15.2 Artificial and made ground (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Superficial map on **page 84**

ID	Location	LEX Code	Description	Rock description
1	On site	TILLD-DMTN	TILL, DEVANSIAN	DIAMICTON

This data is sourced from the British Geological Survey.



15.5 Superficial permeability (50k)

Records within 50m**1**

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

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m**0**

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

Records within 50m**0**

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Bedrock



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— 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

2

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 86**

ID	Location	LEX Code	Description	Rock age
1	On site	BOM-MDST	BOLLIN MUDSTONE MEMBER - MUDSTONE	ANISIAN
2	229m NE	BOM-MDST	BOLLIN MUDSTONE MEMBER - MUDSTONE	ANISIAN

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	Low	Low

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

1

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.

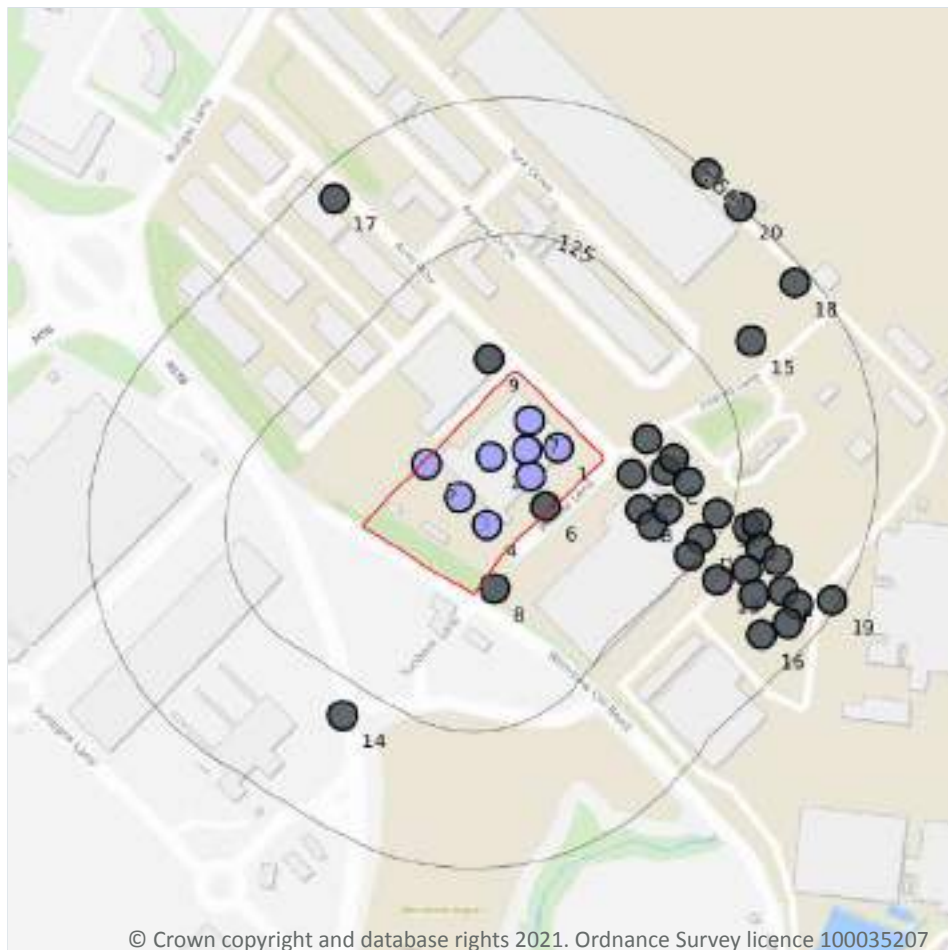
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 86**

ID	Location	Category	Description
3	229m 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

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16.1 BGS Boreholes

Records within 250m

40

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 88**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	380975 384860	MARRIOTT IN-FLITE SERVICES LTD, MANCHESTER AIRPORT 4	4.0	N	17877423
2	On site	380914 384852	MARRIOTT IN-FLITE SERVICES LTD, MANCHESTER AIRPORT 1	4.0	N	17877420



ID	Location	Grid reference	Name	Length	Confidential	Web link
3	On site	380885 384815	CATERAIR INTERNATIONAL, MANCHESTER AIRPORT BH7.	4.0	N	18525494
4	On site	380910 384790	CATERAIR INTERNATIONAL, MANCHESTER AIRPORT BH8.	4.0	N	18525495
5	On site	380855 384845	CATERAIR INTERNATIONAL, MANCHESTER AIRPORT BH6.	4.0	N	18525493
6	On site	380964 384806	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
7	On site	380949 384885	MARRIOTT IN-FLITE SERVICES LTD, MANCHESTER AIRPORT 2	4.0	N	17877421
A	On site	380950 384834	MARRIOTT IN-FLITE SERVICES LTD, MANCHESTER AIRPORT 3	4.0	N	17877422
A	On site	380946 384858	MARRIOTT IN-FLITE SERVICES LTD, MANCHESTER AIRPORT 5	4.5	N	17877424
8	12m SE	380917 384732	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
9	23m NW	380912 384941	CARGO PHASE 4 DEVELOPMENT 1	-	Y	N/A
10	29m SE	381042 384836	MTMF RINGWAY 1	-	Y	N/A
11	44m E	381056 384868	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
B	56m SE	381050 384804	MTMF RINGWAY TP 2	-	Y	N/A
C	58m E	381073 384839	MTMF RINGWAY TP 1	-	Y	N/A
C	64m E	381080 384850	HANGAR 5 MANCHESTER AIRPORT H5WS1	-	Y	N/A
B	73m SE	381060 384790	HANGAR 5 MANCHESTER AIRPORT H5WS2	-	Y	N/A
B	74m SE	381075 384804	MTMF RINGWAY TP 3	-	Y	N/A
C	80m E	381094 384829	MTMF RINGWAY 2	-	Y	N/A
D	113m SE	381104 384777	MTMF RINGWAY TP 4	-	Y	N/A
12	115m SE	381120 384800	HANGAR 5 MANCHESTER AIRPORT H5WS3	-	Y	N/A
D	117m SE	381095 384762	MTMF RINGWAY 3	-	Y	N/A
E	145m SE	381147 384787	MTMF RINGWAY TP 5	-	Y	N/A
13	150m SE	381120 384740	HANGAR 5 MANCHESTER AIRPORT H5WS4	-	Y	N/A
E	151m E	381156 384791	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
14	155m SW	380779 384617	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
E	164m SE	381159 384769	MTMF RINGWAY 4	-	Y	N/A

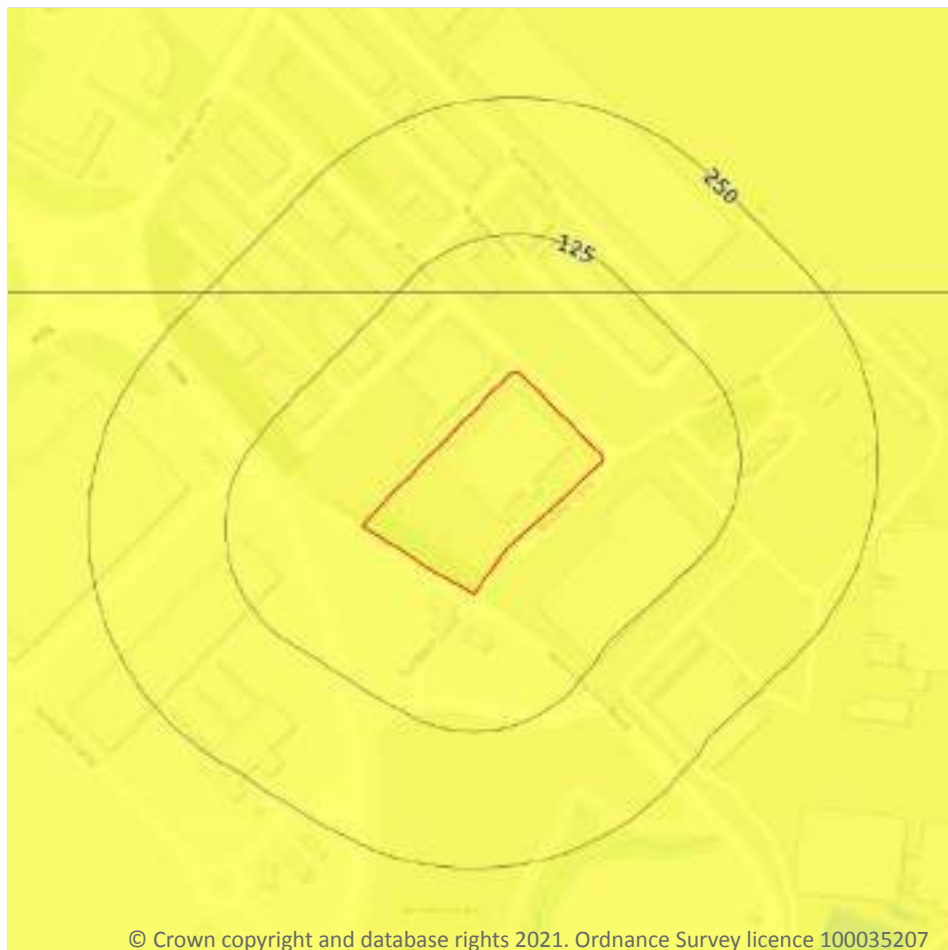


ID	Location	Grid reference	Name	Length	Confidential	Web link
E	164m SE	381146 384749	MTMF RINGWAY TP 7	-	Y	N/A
15	172m NE	381151 384957	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
E	182m SE	381174 384758	MTMF RINGWAY TP 6	-	Y	N/A
E	184m SE	381153 384726	MTMF RINGWAY TP 8	-	Y	N/A
F	202m SE	381180 384730	HANGAR 5 MANCHESTER AIRPORT H5WS5	-	Y	N/A
16	214m SE	381160 384690	HANGAR 5 MANCHESTER AIRPORT H5WS6	-	Y	N/A
F	220m SE	381193 384718	MTMF RINGWAY TP 9	-	Y	N/A
F	224m SE	381184 384700	MTMF RINGWAY 5	-	Y	N/A
17	226m NW	380771 385087	CARGO PHASE 4 DEVELOPMENT 2	-	Y	N/A
18	235m NE	381190 385010	AIRCRAFT WASTE DISPOSAL 1	-	Y	N/A
19	244m SE	381224 384721	SURFACE WTR OUTFALL R BOLLIN	-	Y	N/A
20	249m NE	381140 385080	INTERNATIONAL APRON EXTENSION PHASE II TP3	-	Y	N/A
21	249m NE	381110 385110	INTERNATIONAL APRON EXTENSION PHASE II TP2	-	Y	N/A

This data is sourced from the British Geological Survey.



17 Natural ground subsidence - Shrink swell clays



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

17.1 Shrink swell clays

Records within 50m

1

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

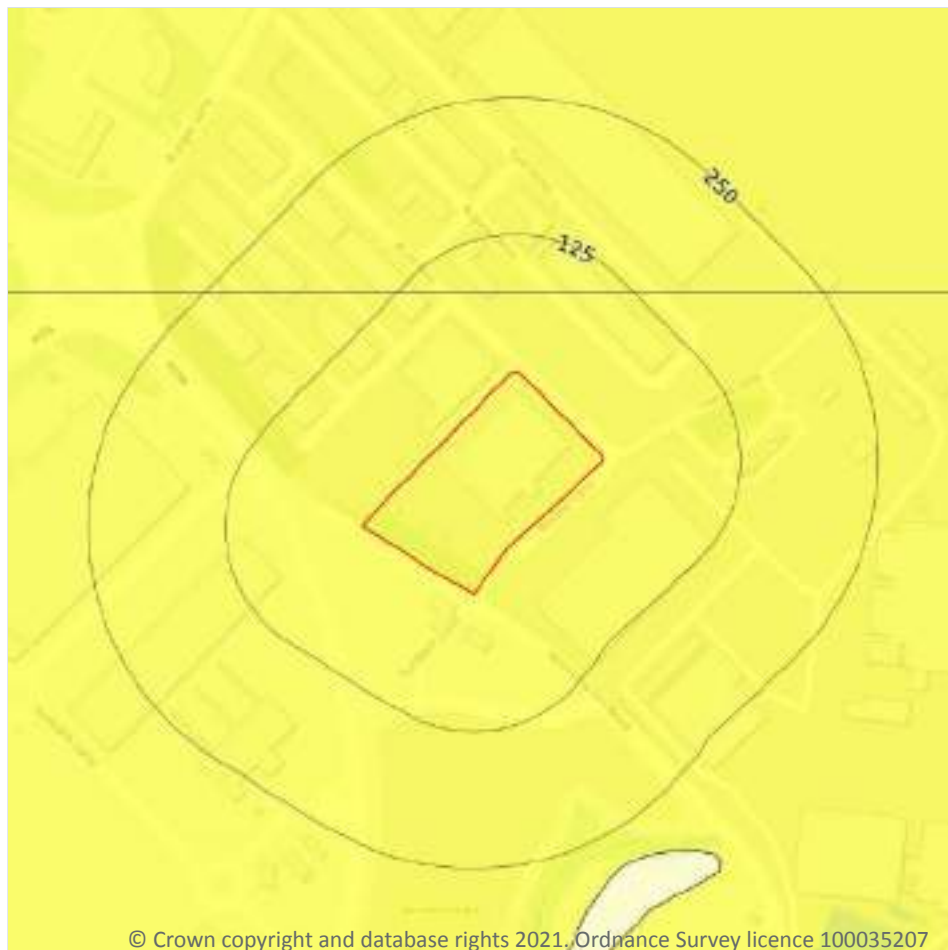
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 91**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

1

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

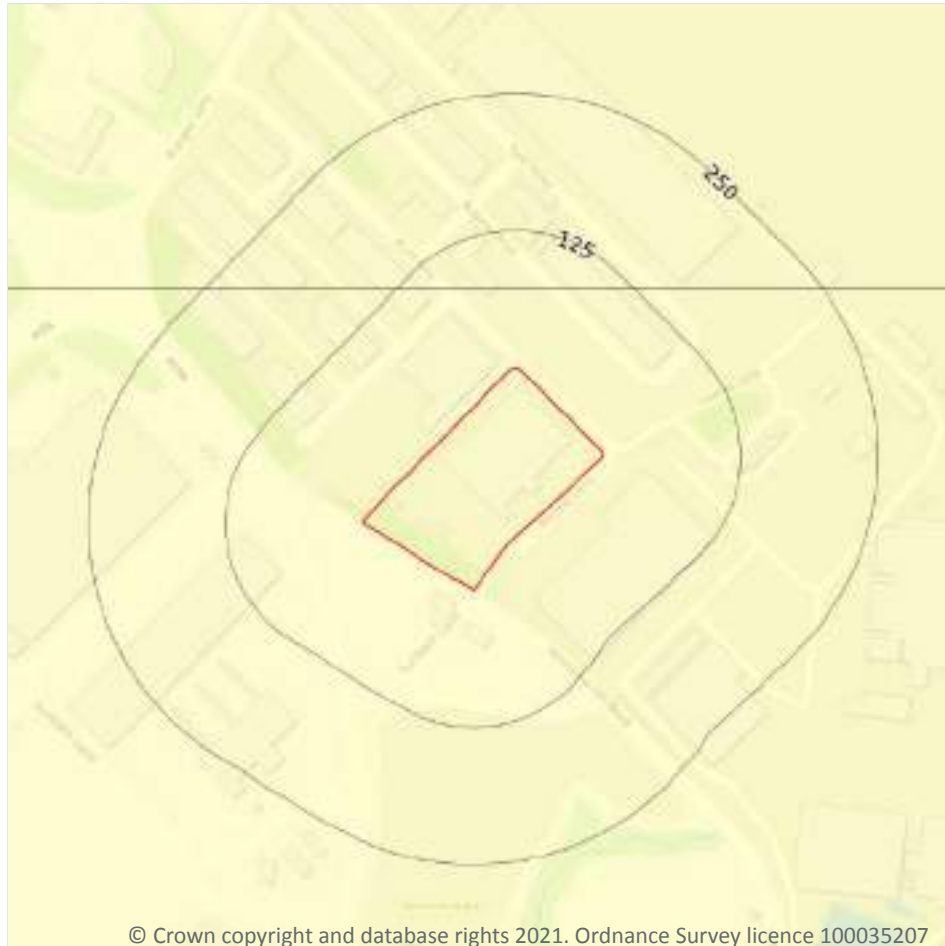
Features are displayed on the Natural ground subsidence - Running sands map on **page 92**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

17.3 Compressible deposits

Records within 50m

1

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

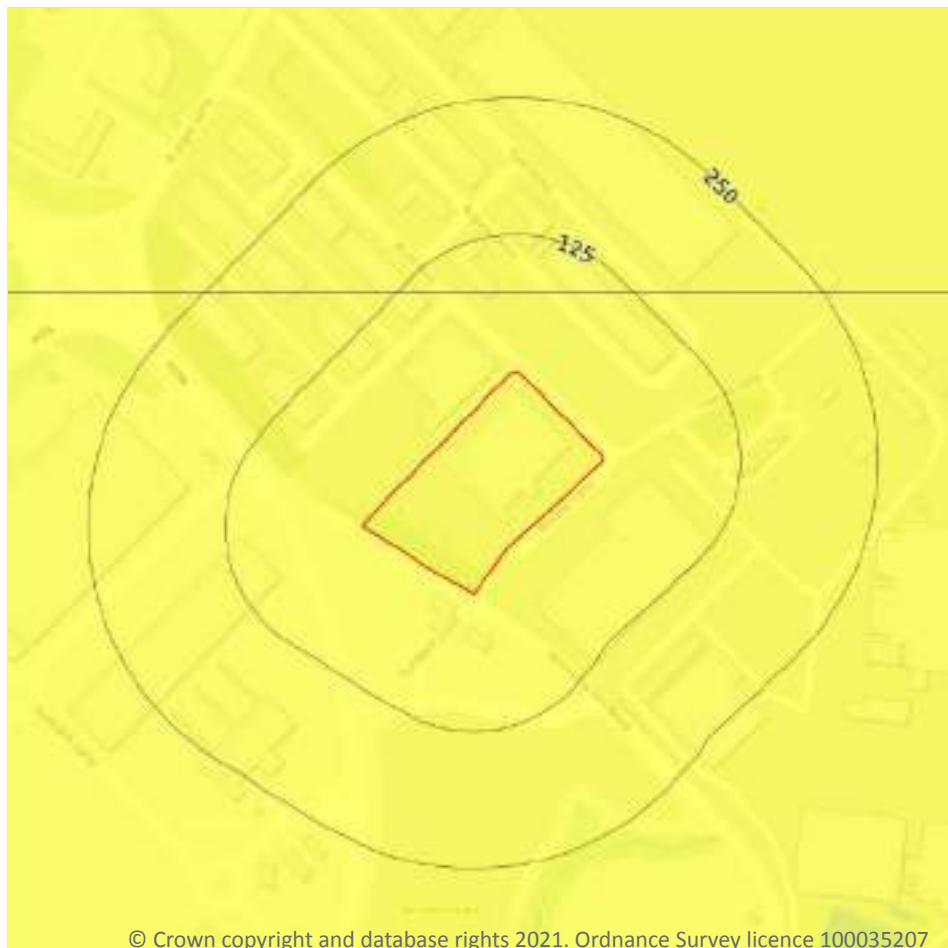
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 93**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Collapsible deposits



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

17.4 Collapsible deposits

Records within 50m

1

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

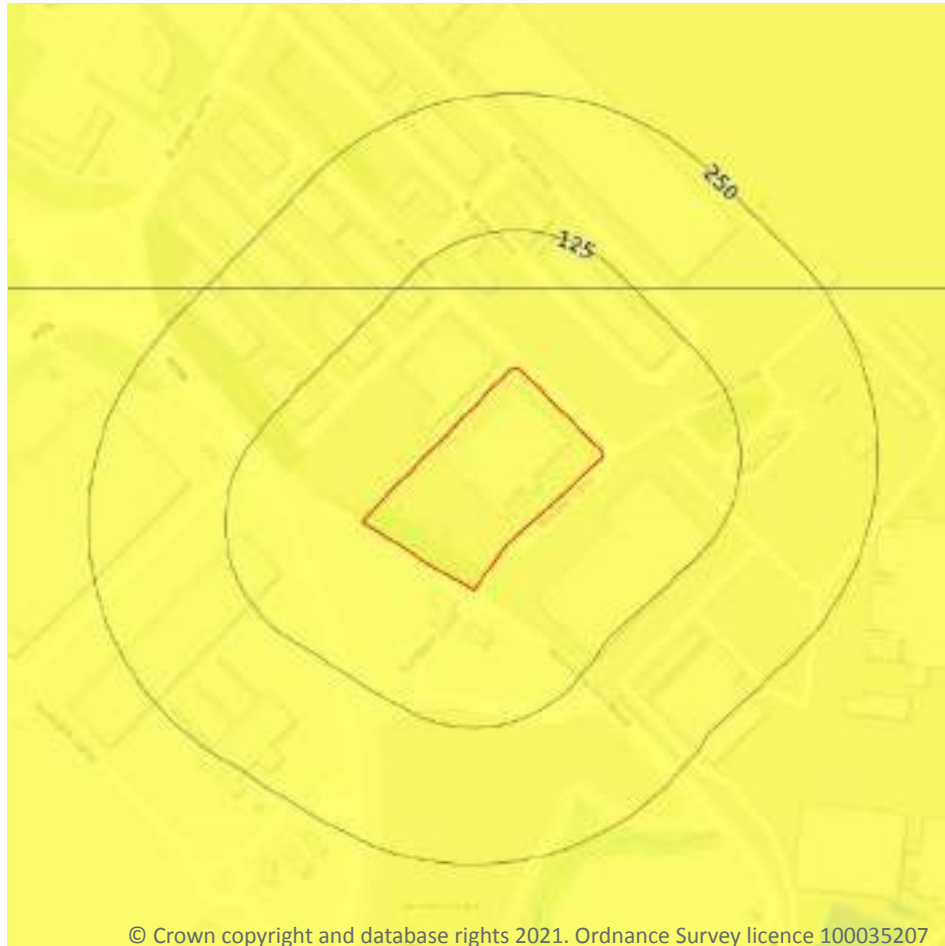
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 94**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Landslides



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

17.5 Landslides

Records within 50m

1

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

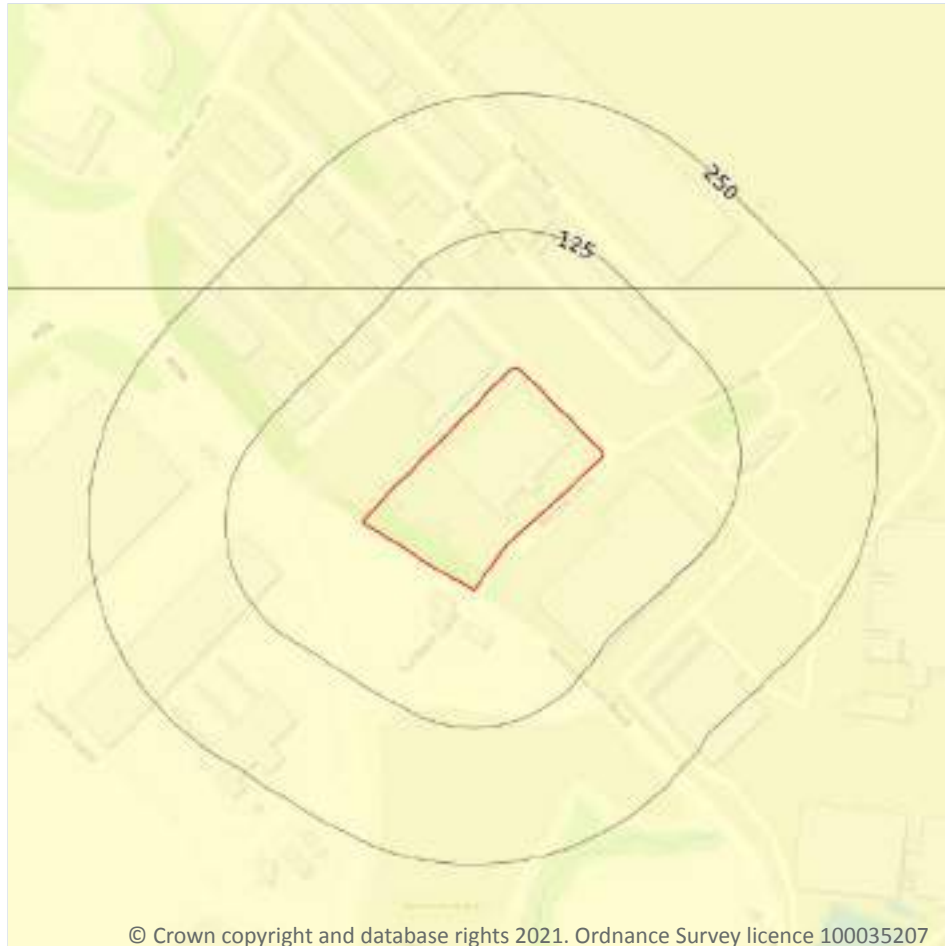
Features are displayed on the Natural ground subsidence - Landslides map on **page 95**

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

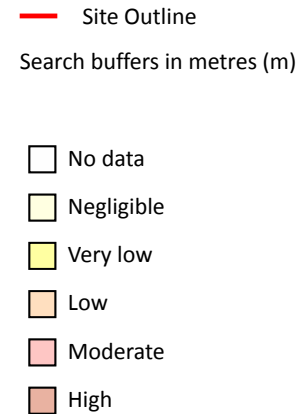
This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



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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 96**

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

0

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

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

1

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 97**

ID	Location	Land Use	Year of mapping	Mapping scale
1	133m NE	Pond	1974	1:10000

This 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 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

0

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site

1

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.



Location	Details
On site	The site is located within the Cheshire Brine Compensation District. The extraction of brine over many years has caused some properties within the Cheshire area to be at risk of subsidence. This subsidence can occur a considerable distance from the location of the extraction and further assessment is recommended. A Cheshire Salt search can be obtained direct from Groundsure or your preferred search provider.

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
-----------------	---

Generalised areas that may be affected by historical tin mining.

This data is sourced from Mining Searches UK.

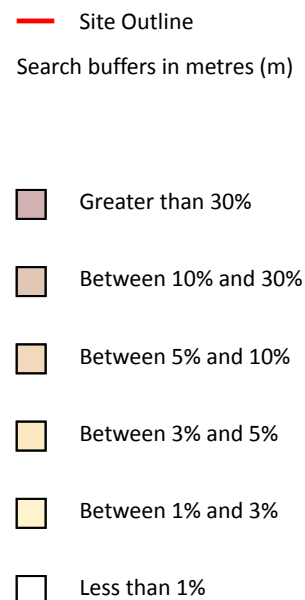
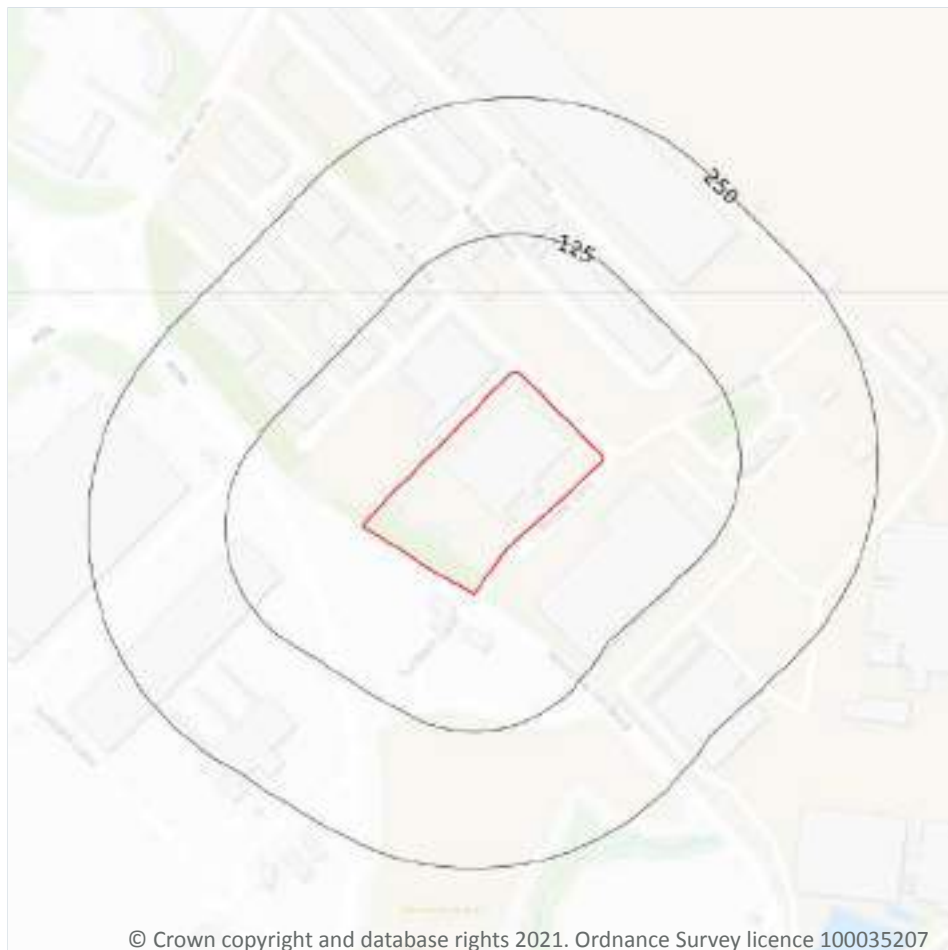
18.13 Clay mining

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

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

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

19 Radon



19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 101**

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

3

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 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	15 mg/kg	No data	100 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 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

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**0**

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

This data is sourced from Ordnance Survey/Groundsure.

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

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.



Data providers

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

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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

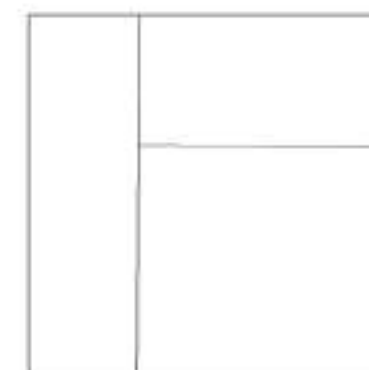
Map date: 1872-1877

Scale: 1:2,500

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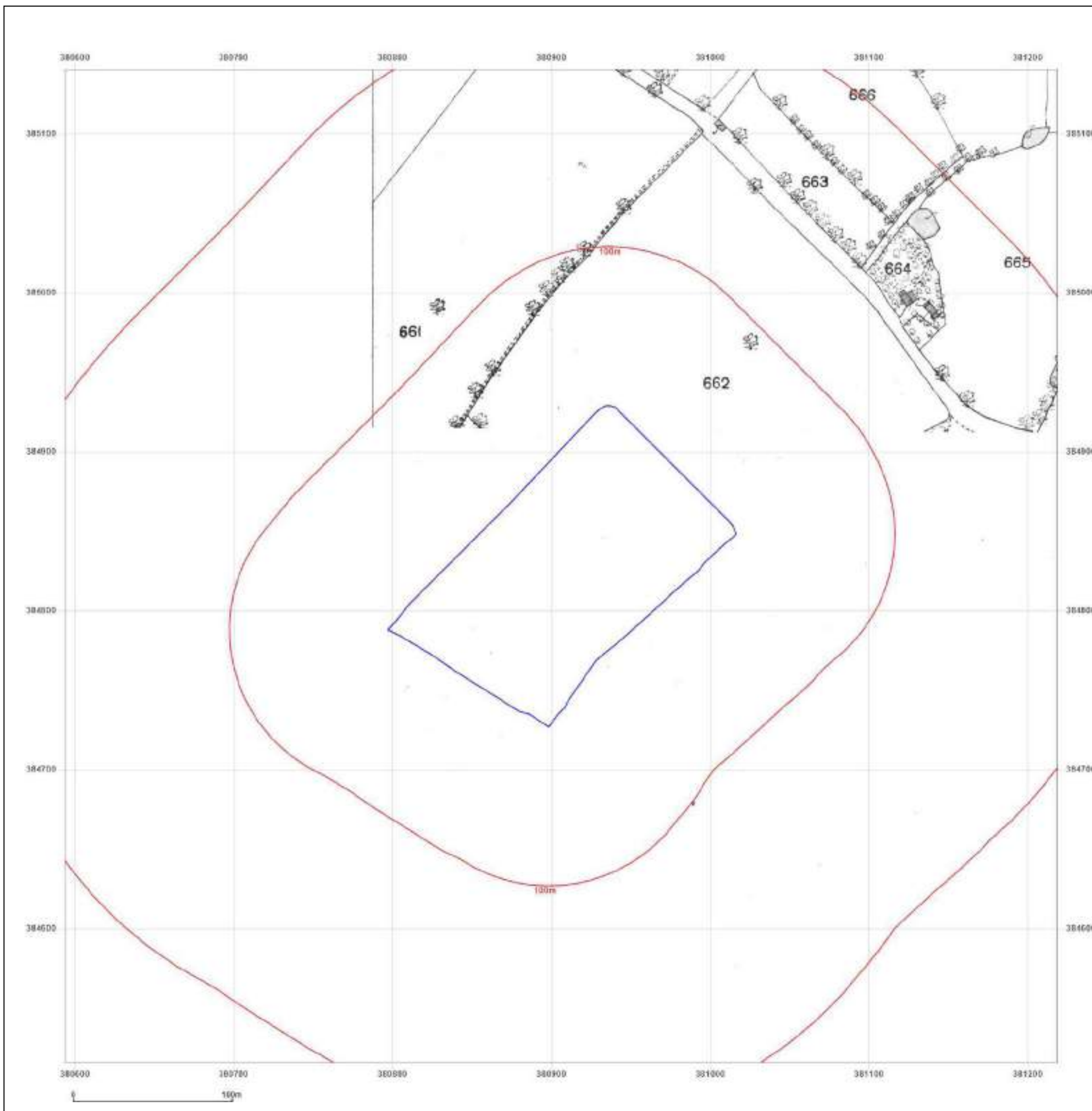


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Client Ref: MAG_Building_401
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Grid Ref: 380906, 384828

Map Name: County Series

Map date: 1872-1881

Scale: 1:2,500

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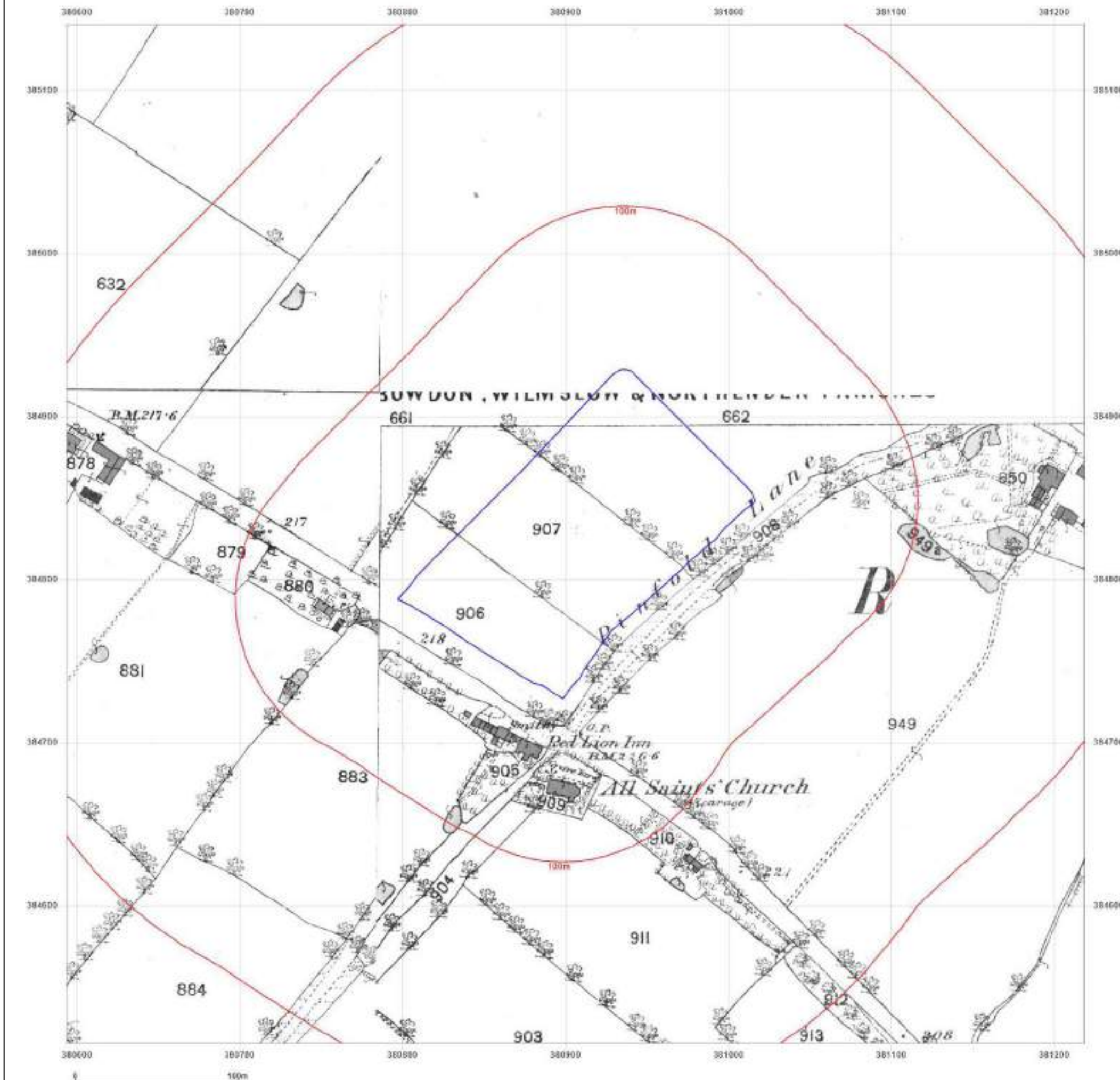


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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

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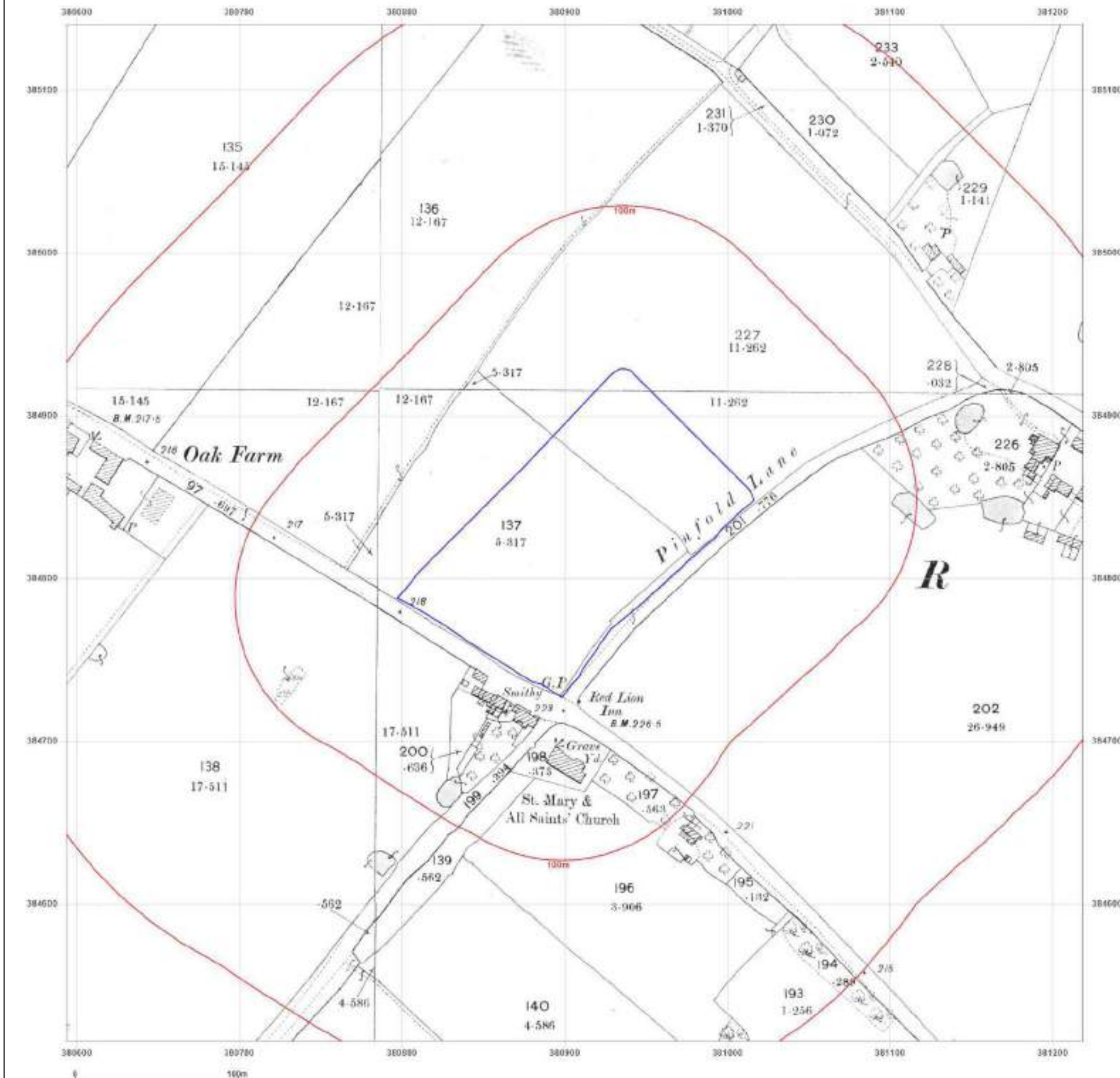


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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

Map date: 1909

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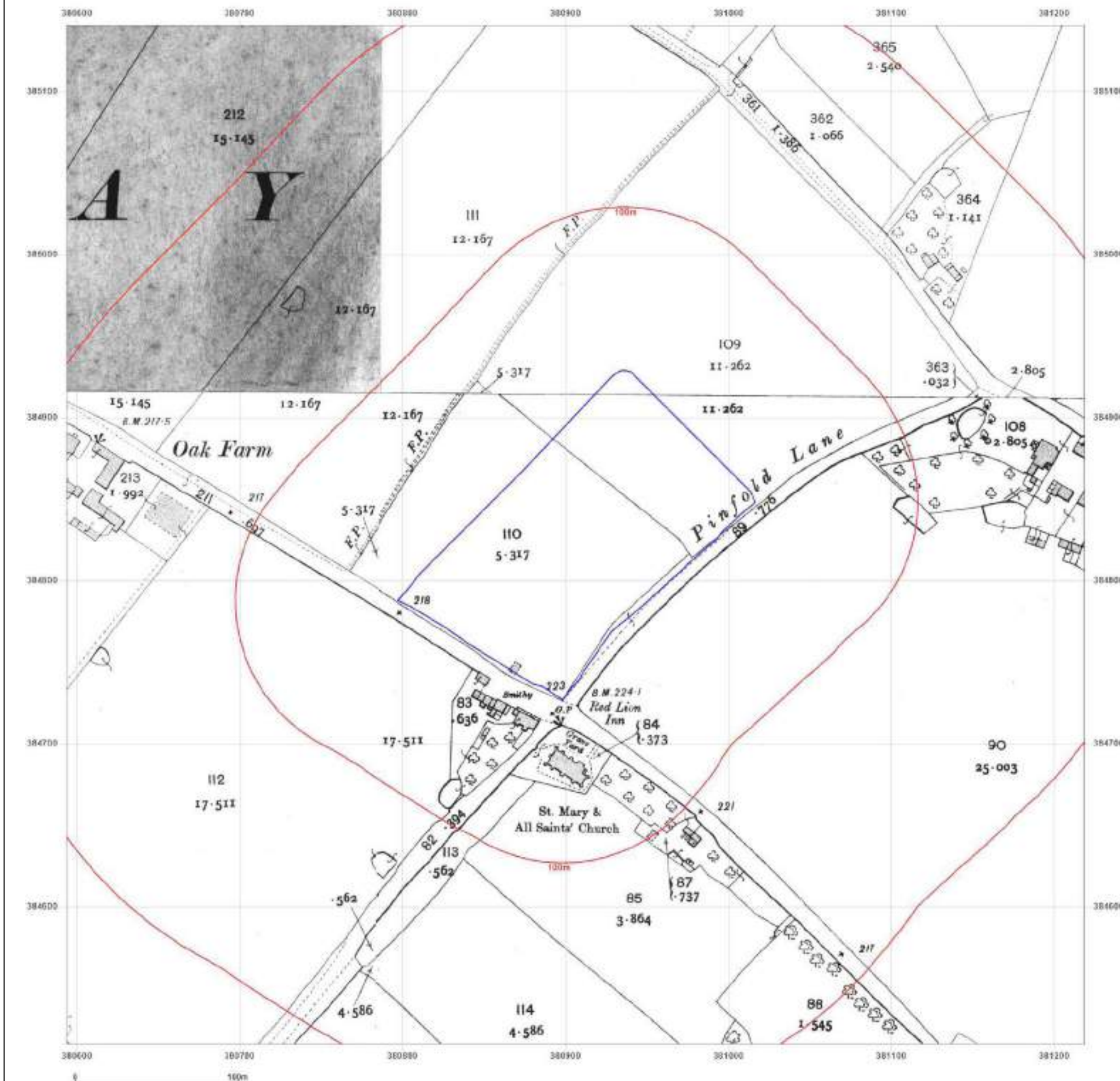


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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

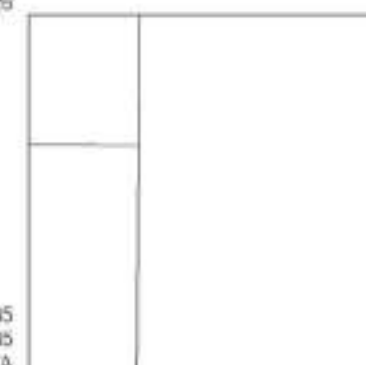
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Scale: 1:2,500

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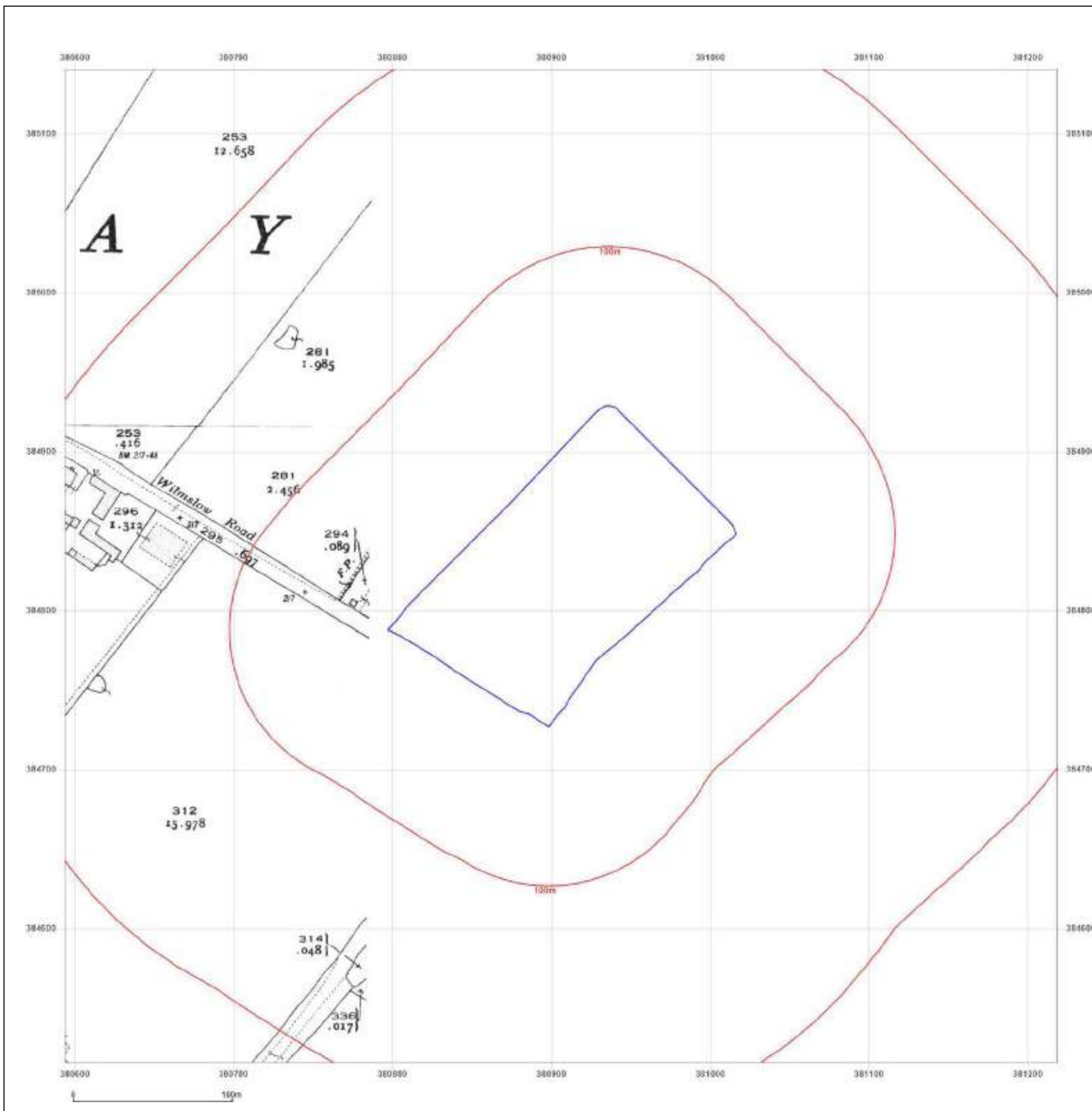


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Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1963-1968

Scale: 1:1,250

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Revised 1968
Edition N/A
Copyright 1968
Levelled 1959

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1968
Levelled 1959

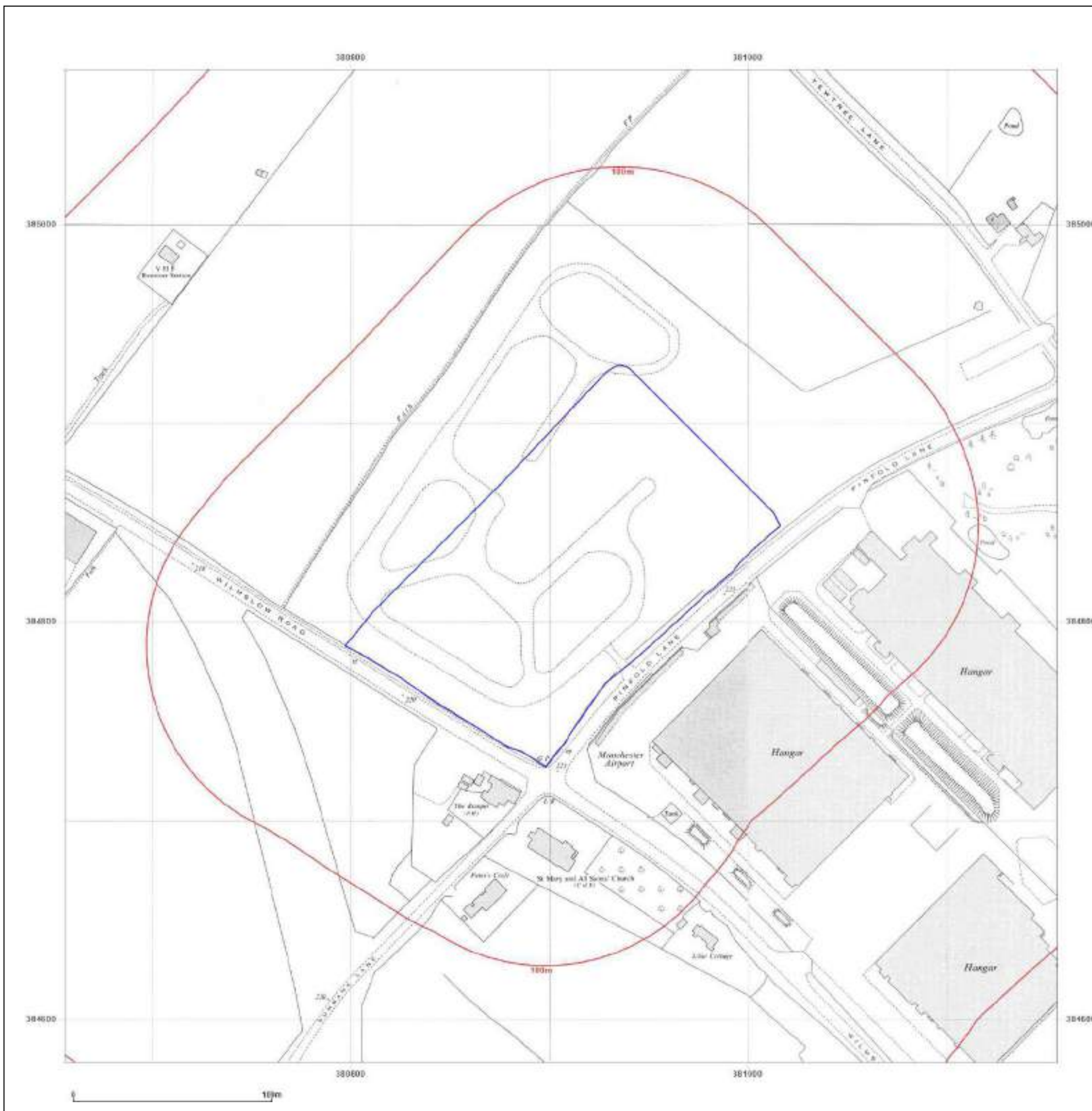


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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1964-1969

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1963
Revised 1963
Edition 1964
Copyright 1964
Levelled 1959

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1959

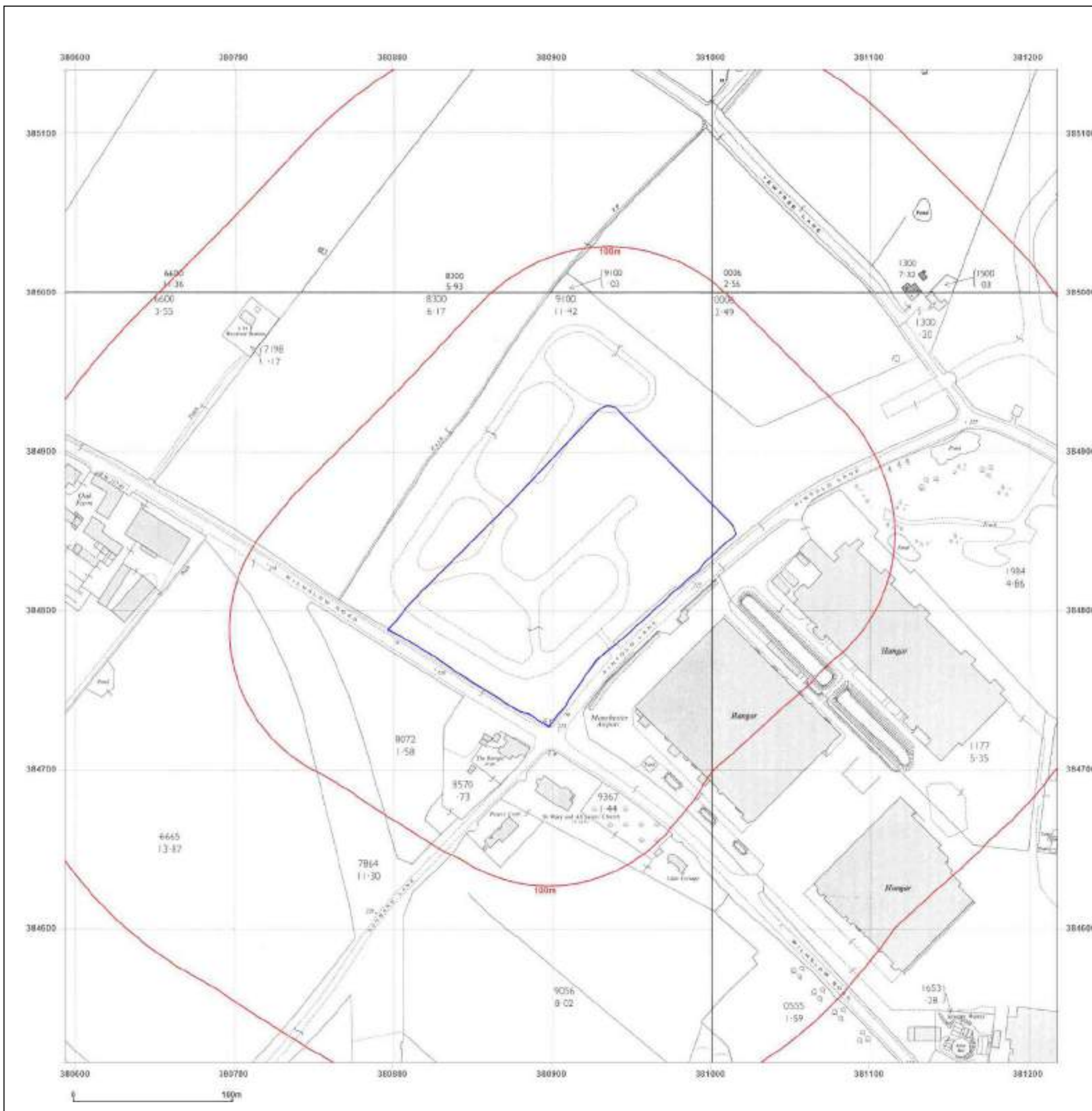


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Production date: 26 August 2021

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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

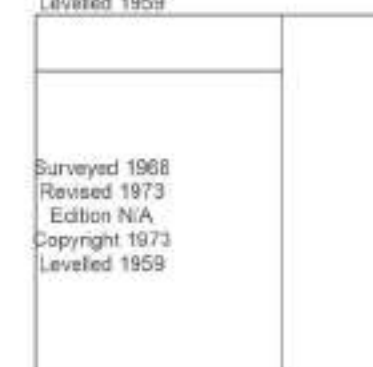
Map date: 1973-1974

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1962
Revised 1973
Edition N/A
Copyright 1974
Levelled 1959



Surveyed 1968
Revised 1973
Edition N/A
Copyright 1973
Levelled 1959

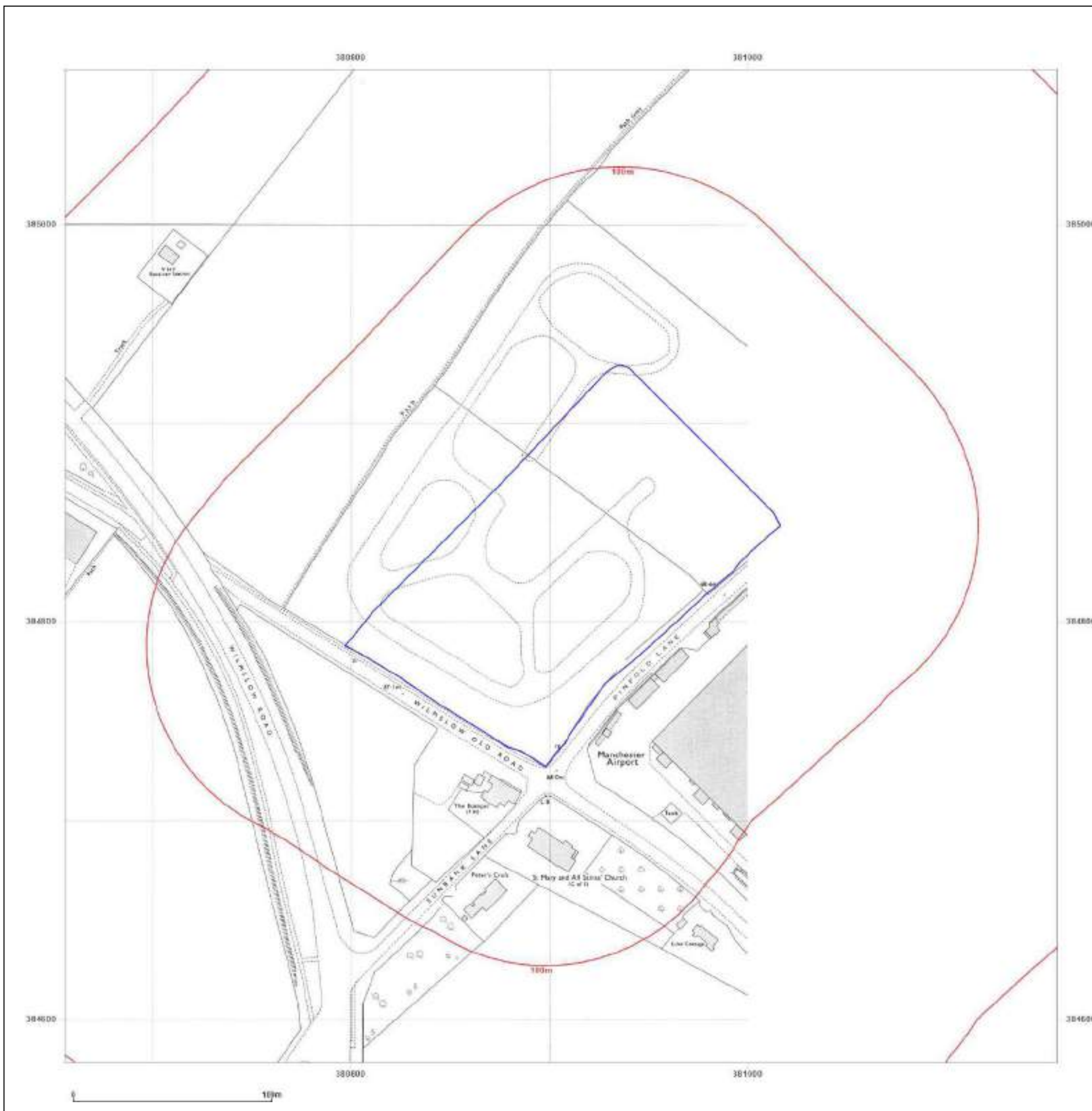


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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1987

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1987
Edition N/A
Copyright 1987
Levelled 1959

Surveyed 1959
Revised 1987
Edition N/A
Copyright 1987
Levelled 1959

Surveyed 1959
Revised 1987
Edition N/A
Copyright 1987
Levelled 1959

Surveyed 1959
Revised 1987
Edition N/A
Copyright 1987
Levelled 1959

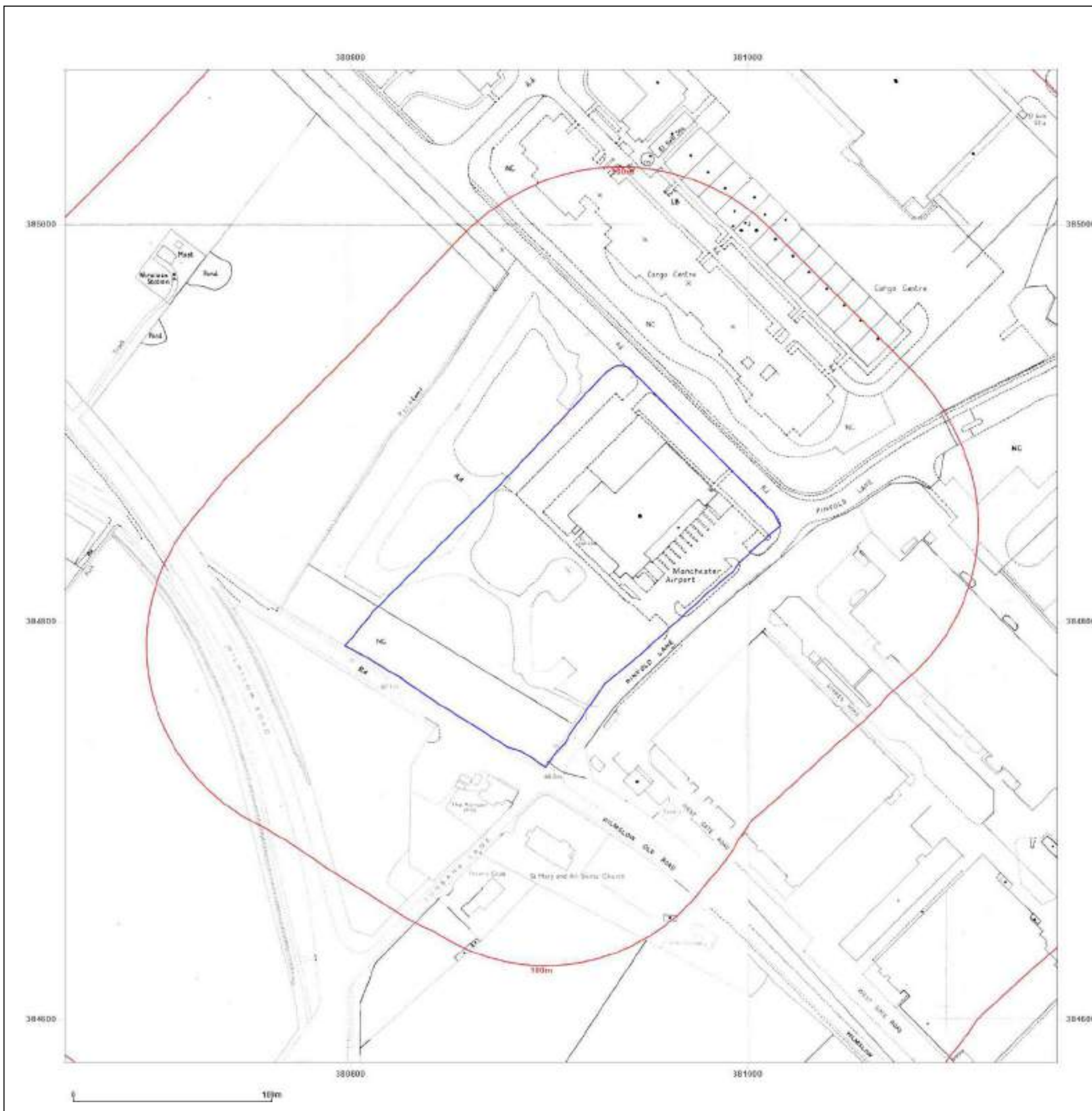


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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1990-1992

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1990
Edition N/A
Copyright 1990
Levelled 1959

Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1990
Revised 1990
Edition N/A
Copyright 1990
Levelled N/A

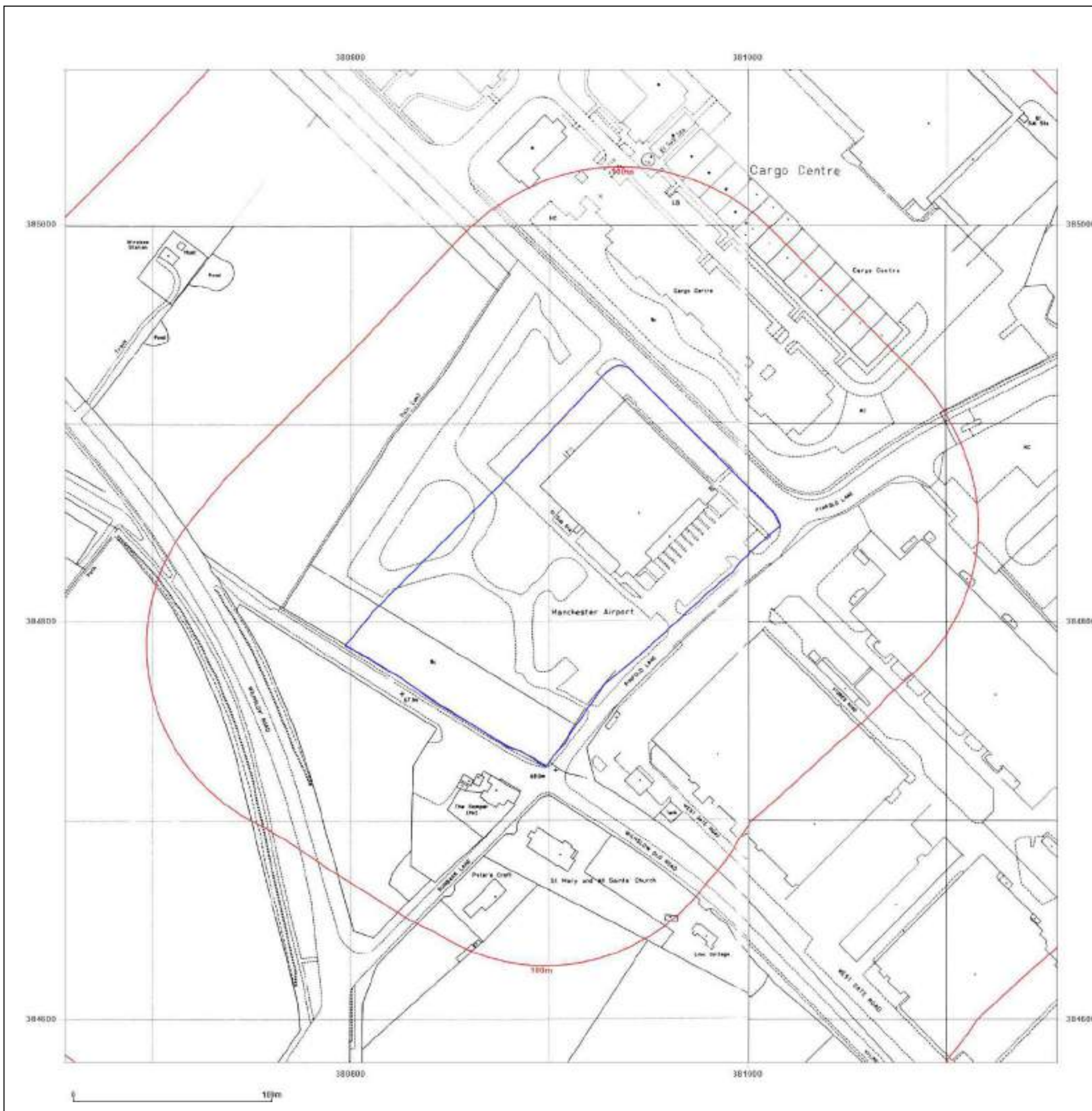


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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1991-1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1959
Revised 1991
Edition N/A
Copyright 1991
Levelled 1959

Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1995
Revised 1995
Edition N/A
Copyright 1995
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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

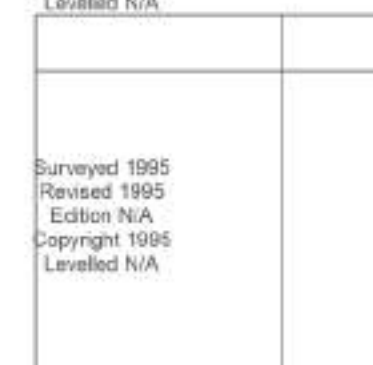
Map date: 1992-1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
Levelled N/A



Surveyed 1995
Revised 1995
Edition N/A
Copyright 1995
Levelled N/A

Surveyed 1995
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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1995
Revised 1995
Edition N/A
Copyright 1995
Levelled N/A



Surveyed 1995
Revised 1995
Edition N/A
Copyright 1995
Levelled N/A

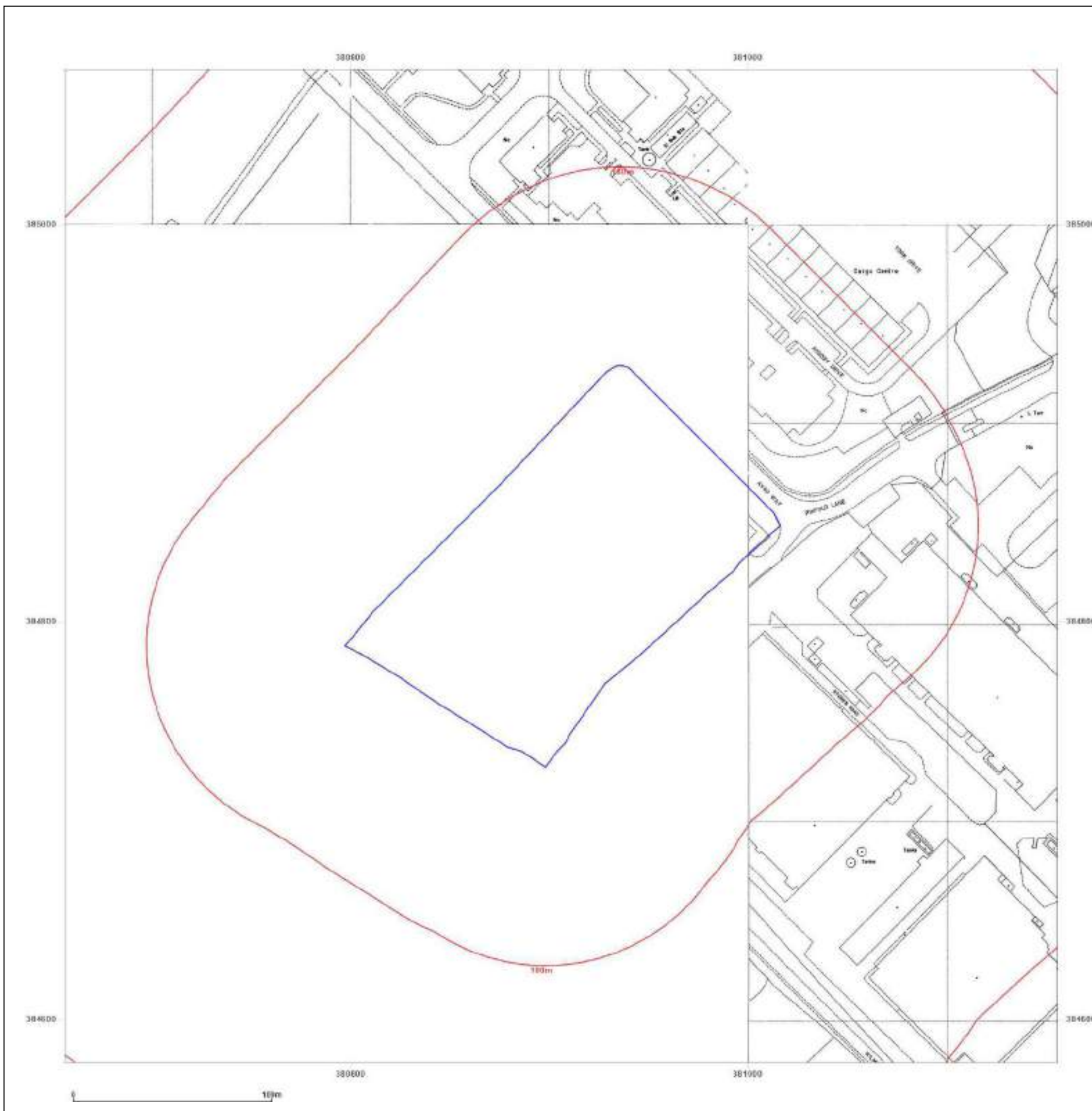


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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

Map date: 1899

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
Revised 1897
Edition 1899
Copyright N/A
Levelled N/A

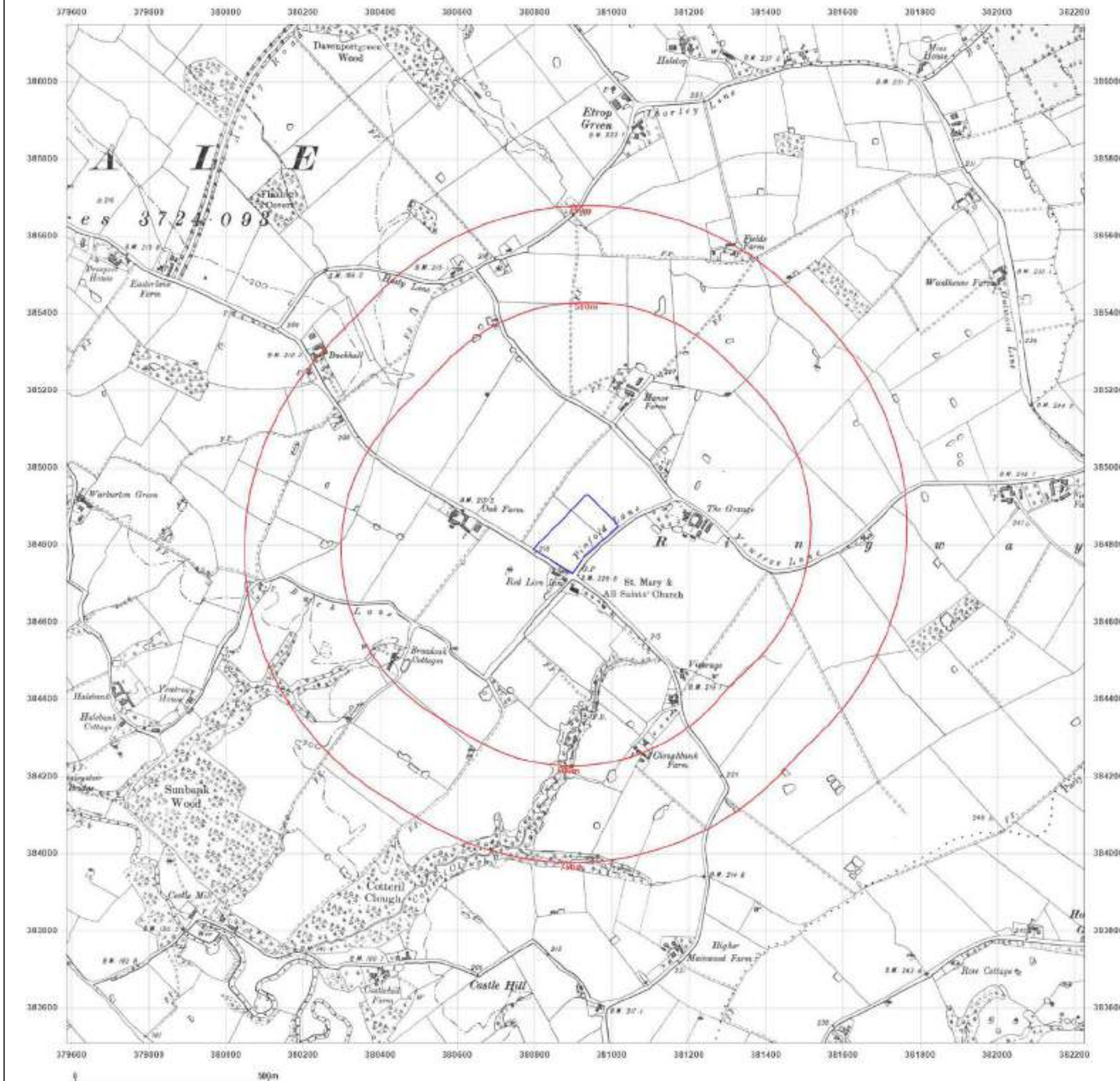


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Production date: 26 August 2021

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Site Details:

AVRO WAY, MANCHESTER,
M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

Map date: 1910

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
Revised 1910
Edition 1910
Copyright N/A
Levelled N/A

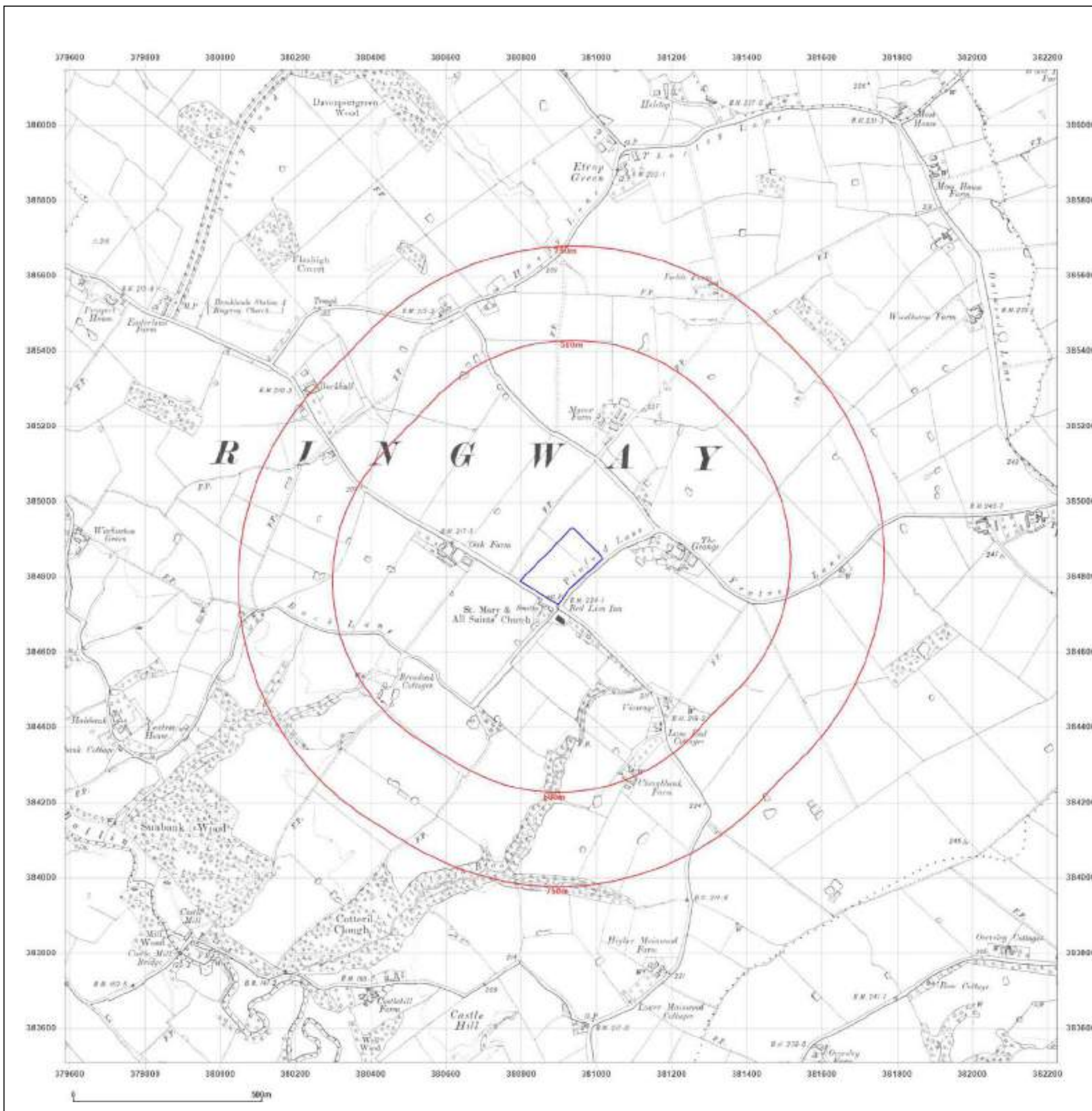


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Site Details:

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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1874
Revised 1938
Edition 1938
Copyright N/A
Levelled N/A

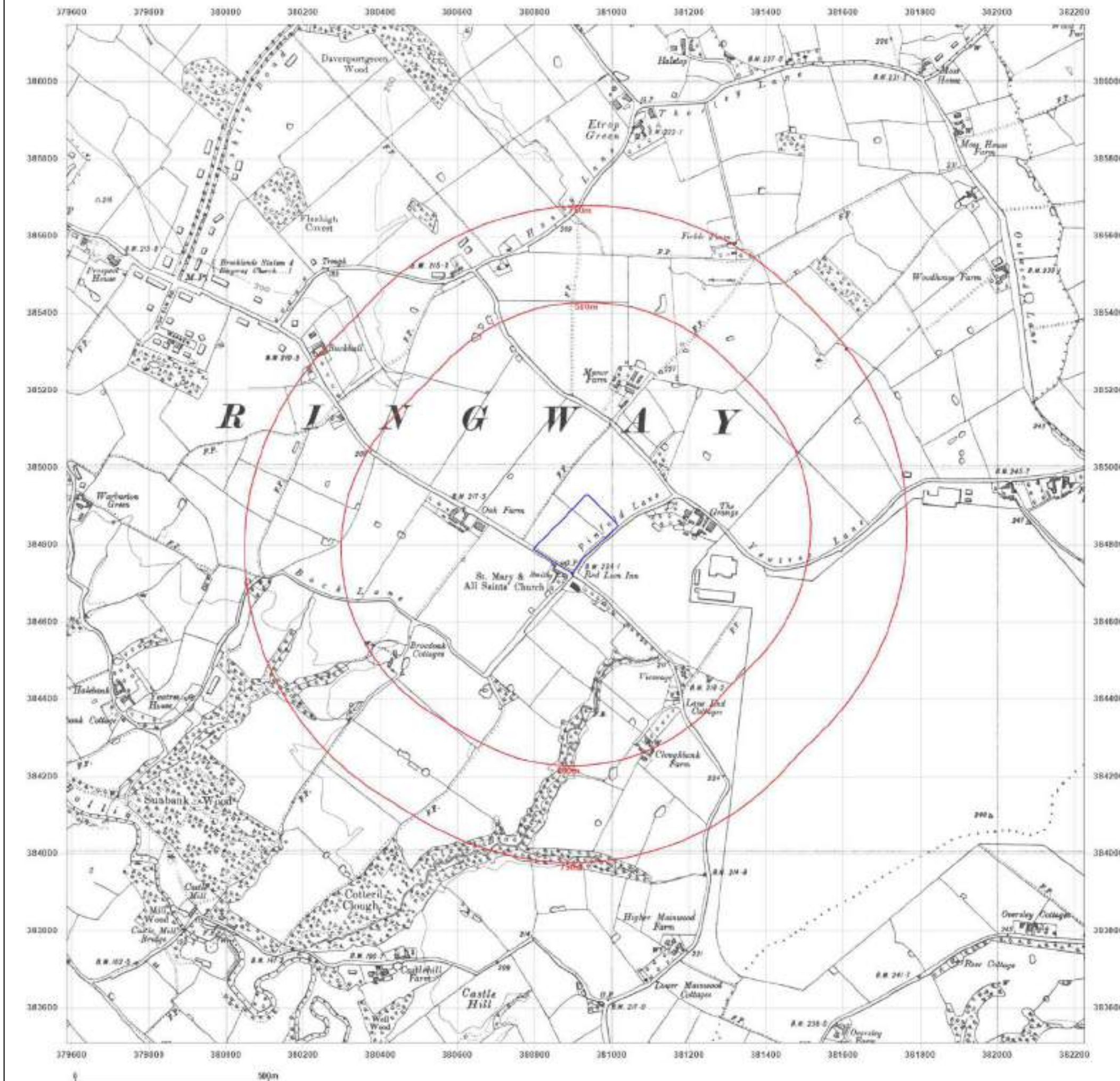


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Site Details:

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M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: Provisional

Map date: 1954

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1954
Edition N/A
Copyright 1954
Levelled N/A

Surveyed 1949
Revised 1954
Edition N/A
Copyright N/A
Levelled N/A

Surveyed N/A
Revised 1954
Edition N/A
Copyright 1954
Levelled N/A

Surveyed N/A
Revised 1953
Edition N/A
Copyright 1954
Levelled N/A

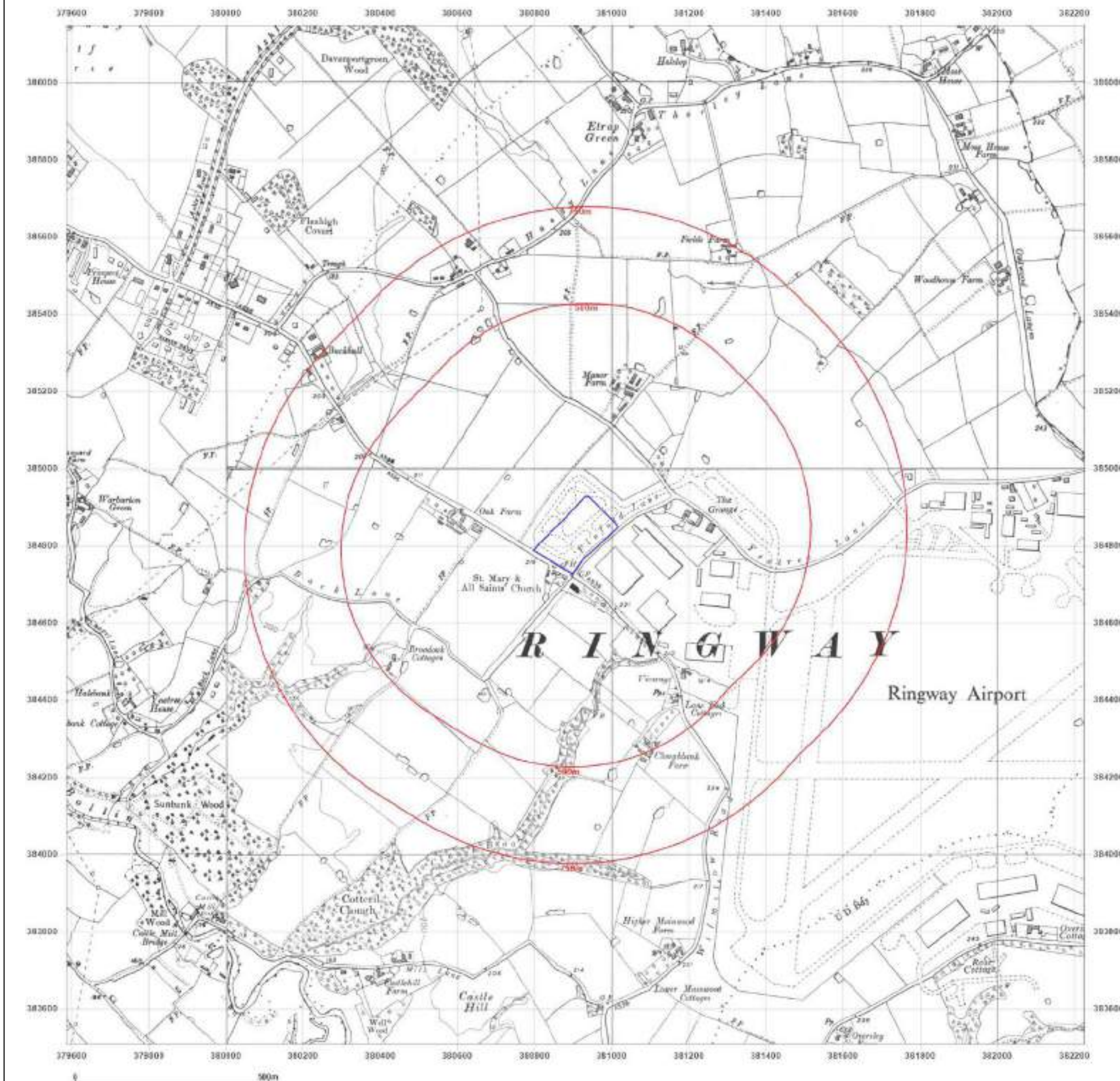


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Site Details:

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M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: Provisional

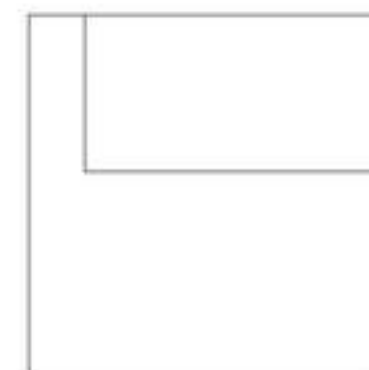
Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1967
Revised 1967
Edition N/A
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Site Details:

AVRO WAY, MANCHESTER,
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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1976-1981

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1976
Revised 1979
Edition N/A
Copyright 1980
Levelled 1976

Surveyed 1975
Revised 1977
Edition N/A
Copyright 1977
Levelled 1964

Surveyed 1973
Revised 1981
Edition N/A
Copyright 1981
Levelled 1981

Surveyed 1973
Revised 1976
Edition N/A
Copyright 1976
Levelled 1977

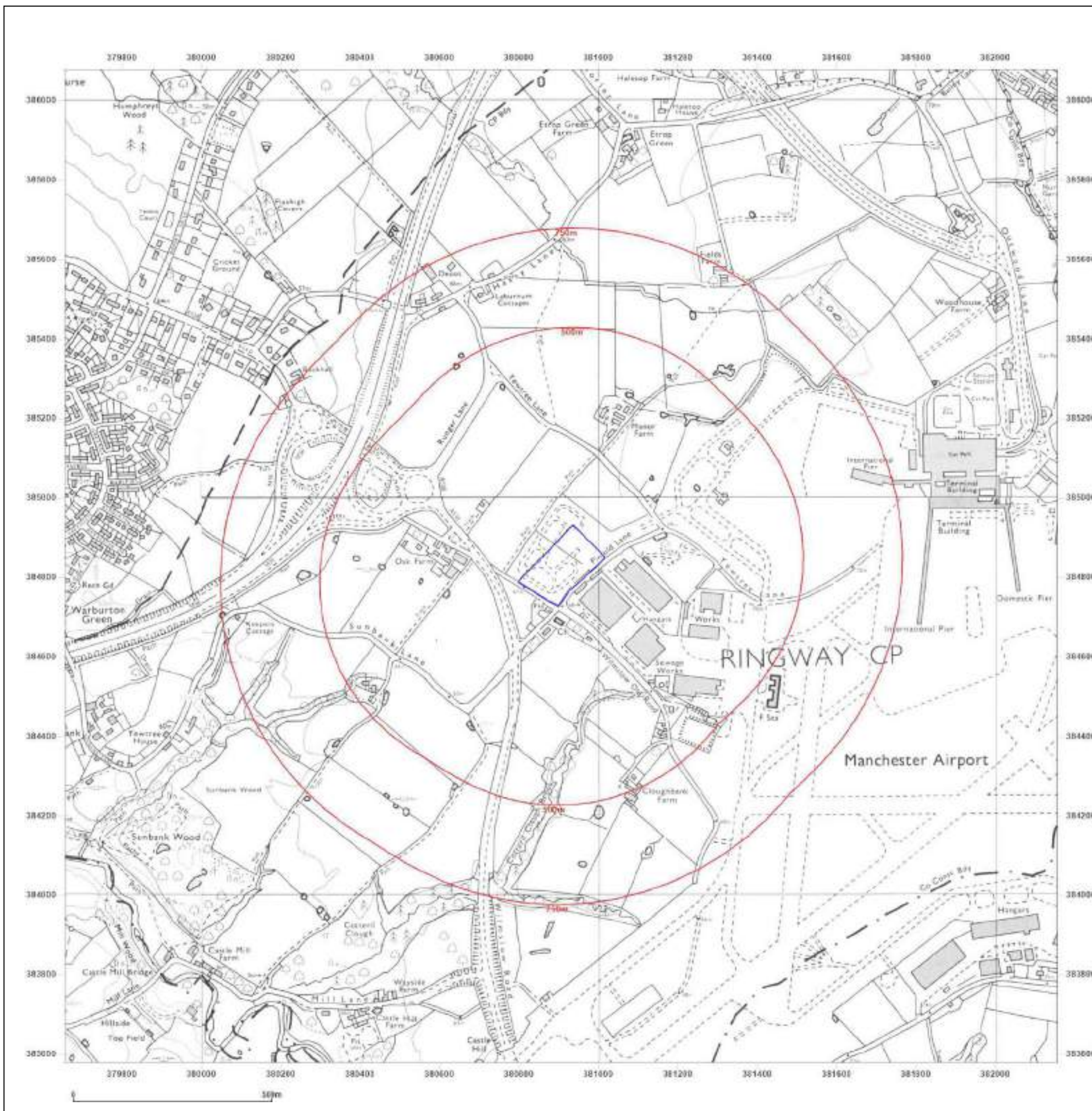


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Site Details:

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M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 1989-1990

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1988
Revised 1990
Edition N/A
Copyright 1990
Levelled 1981

Surveyed 1984
Revised 1989
Edition N/A
Copyright 1989
Levelled 1981



Surveyed 1974
Revised 1989
Edition N/A
Copyright 1989
Levelled 1981

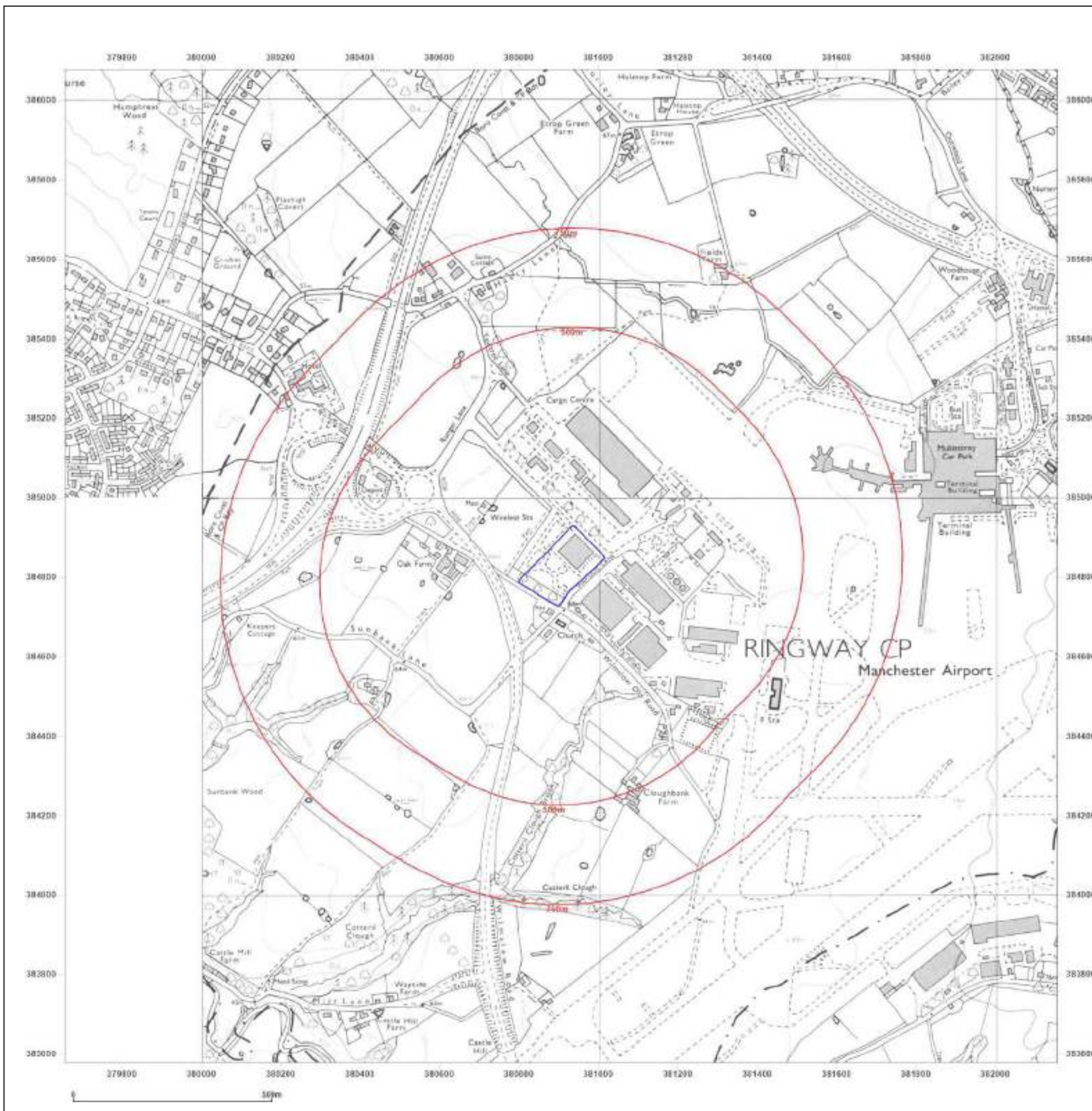


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Site Details:

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M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

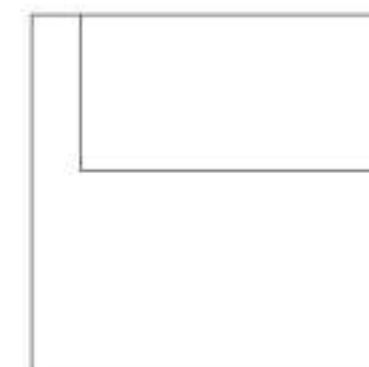
Map date: 1995

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1994
Revised 1995
Edition N/A
Copyright 1995
Levelled 1981

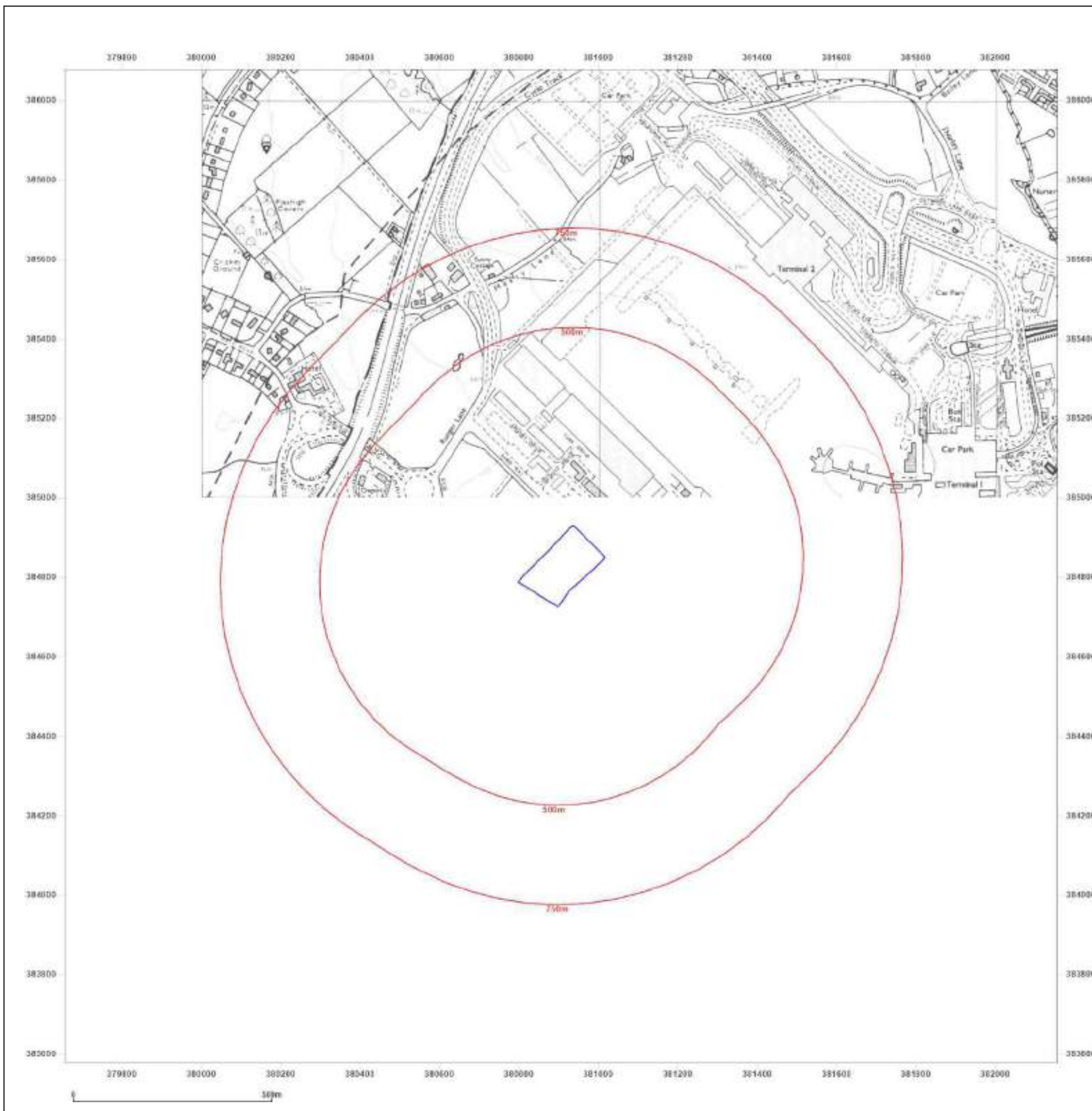


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Site Details:

AVRO WAY, MANCHESTER,
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Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

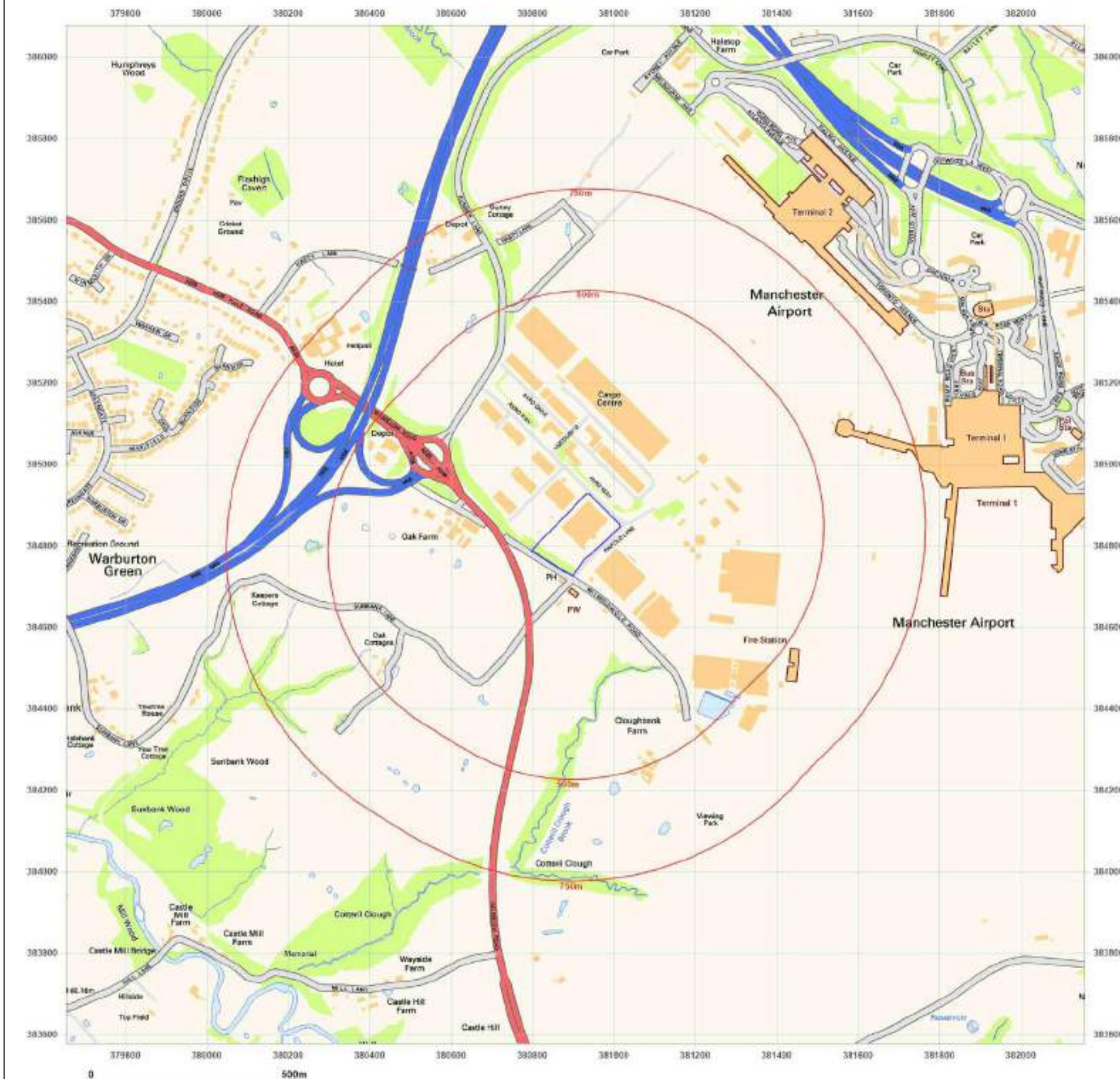


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Site Details:

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M90 5PY

Client Ref: MAG_Building_401
Report Ref: GS-8153065
Grid Ref: 380906, 384828

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

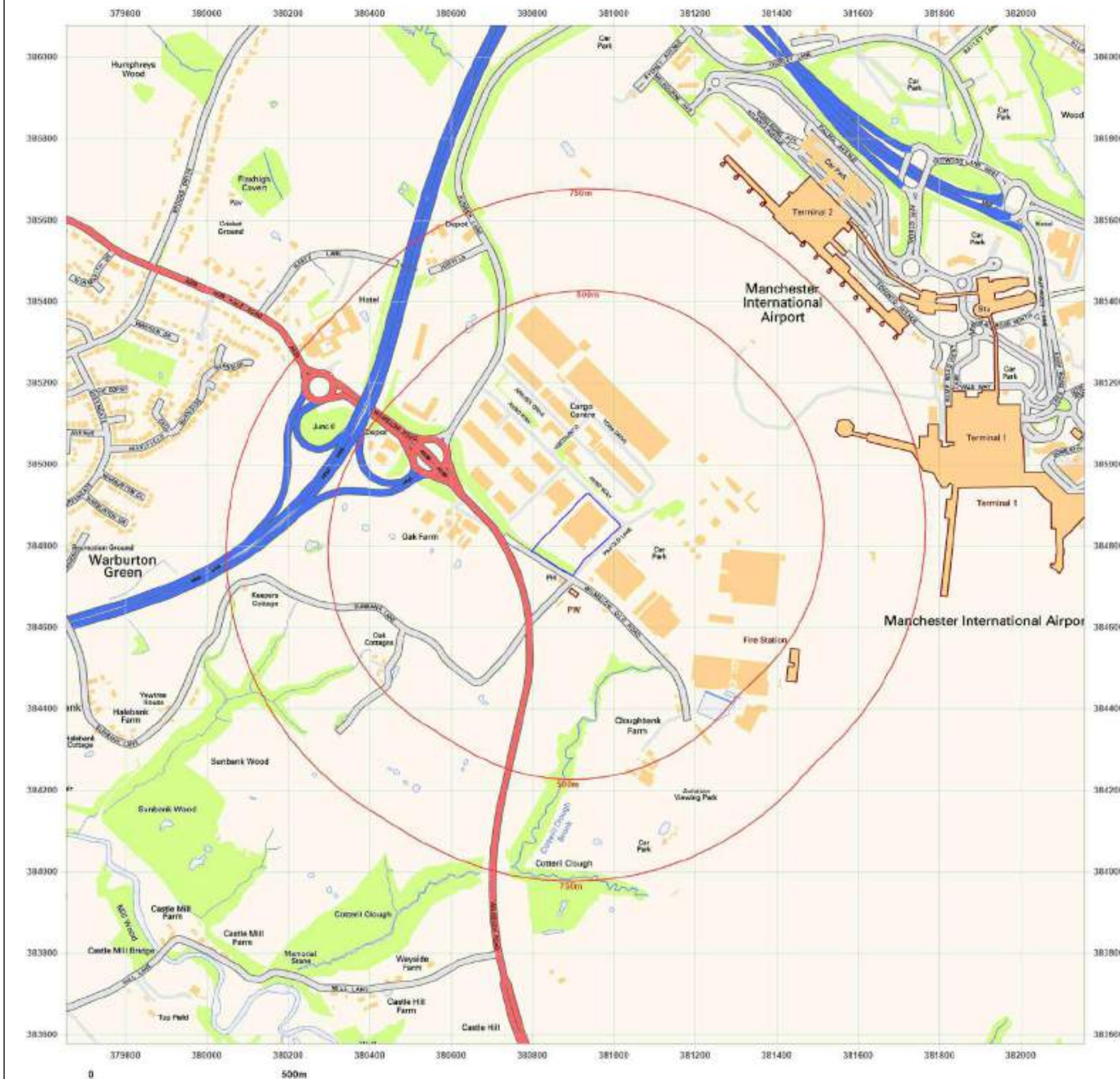


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2000

Legend

 MAG Building 401

Google Earth

Image © 2021 The GeoInformation Group



300 m

2003

Legend

 MAG Building 401



Google Earth

Image © 2021 Maxar Technologies

300 m



2005

Legend

 MAG Building 401



Google Earth

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300 m

2009

Legend

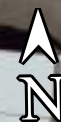
 MAG Building 401



Google Earth

© 2021 Infoterra Ltd & Bluesky

300 m



2010

Legend

 MAG Building 401



Google Earth

Image © 2021 Bluesky

300 m



2013

Legend

 MAG Building 401



Google Earth

Image © 2021 Maxar Technologies

300 m



2016

Legend

 MAG Building 401

Google Earth

Image © 2021 Maxar Technologies

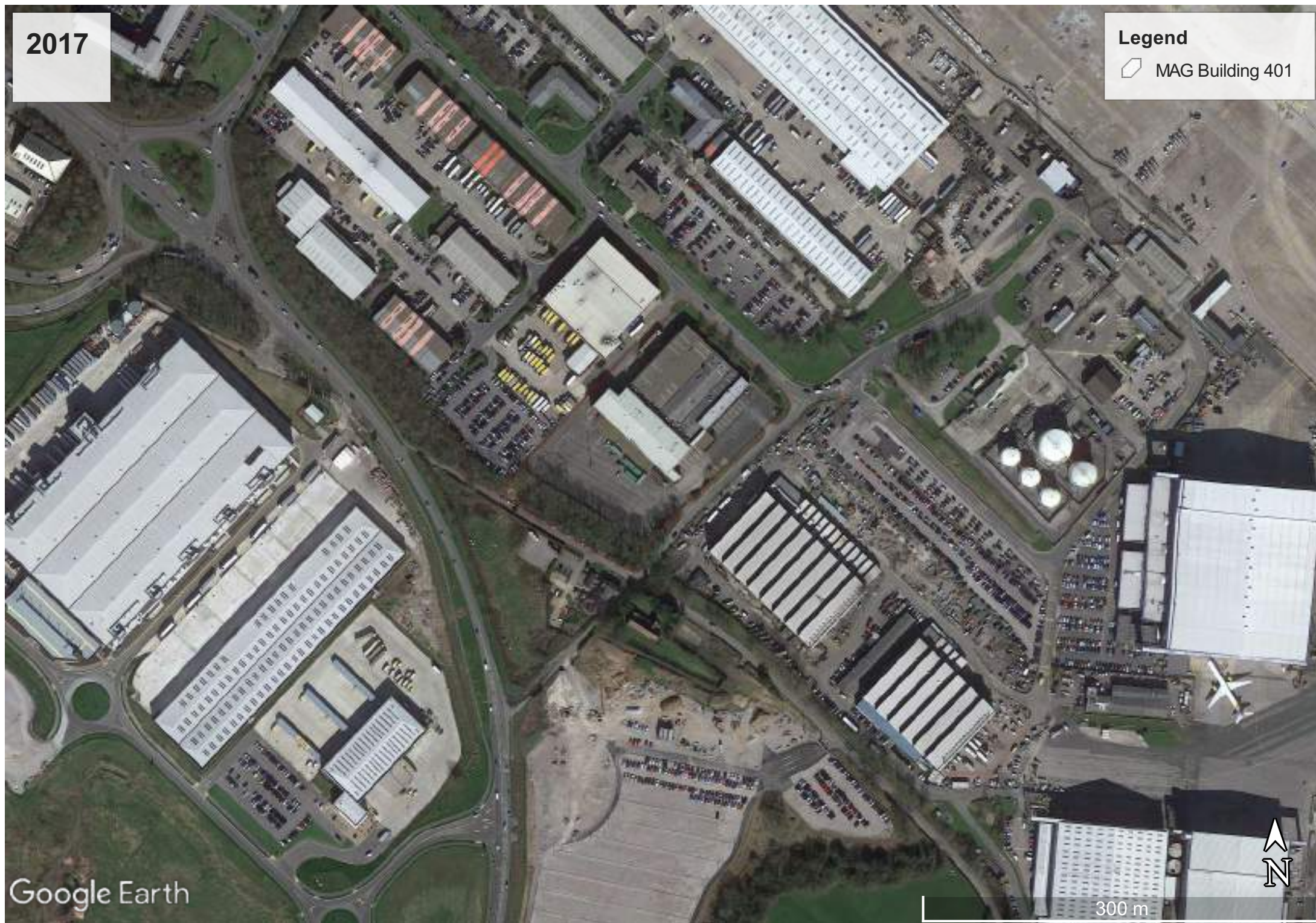
300 m



2017

Legend

 MAG Building 401



Google Earth

300 m

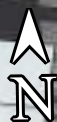
2018

Legend

 MAG Building 401

Google Earth

300 m



2019

Legend

 MAG Building 401



Google Earth



300 m

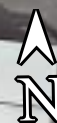
2020

Legend

 MAG Building 401

Google Earth

300 m



2021

Legend

 MAG Building 401

Google Earth

300 m

