

ID	Location	Name	Grade	Reference Number	Listed date
E	238m SE	Boundary Stone On Knott Mill Bridge, Deansgate, Manchester, M15	II	1282975	06/06/1994
E	239m SE	Floodgate On East Side Of Knott Mill Bridge, Deansgate, Manchester, M15	II	1210156	06/06/1994
D	242m E	Rochdale Canal Lock Number 91 At East End Of Gaythorn Tunnel, Deansgate, Manchester, M3	II	1247483	29/01/1986
22	244m SW	Churchyard Walls, Gate Piers And Gates At Church Of St George, Hulme, Manchester, M15	II	1197789	03/10/1974
23	248m NW	Railway Viaduct Linking Bridge Over Irwell To Liverpool Road Station, Deansgate, Manchester, M3	II	1254726	20/06/1988

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

11.5 Conservation Areas

Records within 250m

1

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.

Features are displayed on the Visual and cultural designations map on **page 135**

ID	Location	Name	District	Date of designation
A	On site	Castlefield	Manchester	13/10/1979

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

11.6 Scheduled Ancient Monuments

Records within 250m

1

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.

Features are displayed on the Visual and cultural designations map on **page 135**



ID	Location	Ancient monument name	Reference number
3	56m SE	Remains of eastern wall of the Roman fort	1001953

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

11.7 Registered Parks and Gardens

Records within 250m

0

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

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



12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

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 140**

ID	Location	Classification	Description
1	On site	Urban	-

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations



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

13.1 Priority Habitat Inventory

Records within 250m

0

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

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

1

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

Features are displayed on the Habitat designations map on **page 142**

ID	Location	Site reference	Identification confidence	Primary source	Secondary source	Tertiary source
1	183m NW	NLUD Ref: 421501367	Low	National Land Use Database - Previously Developed Land	UK Perspectives Aerial Photography	-

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.



14 Geology 1:10,000 scale - Availability



— Site Outline
Search buffers in metres (m)

- Full coverage
- Partial coverage
- No coverage

14.1 10k Availability

Records within 500m

1

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

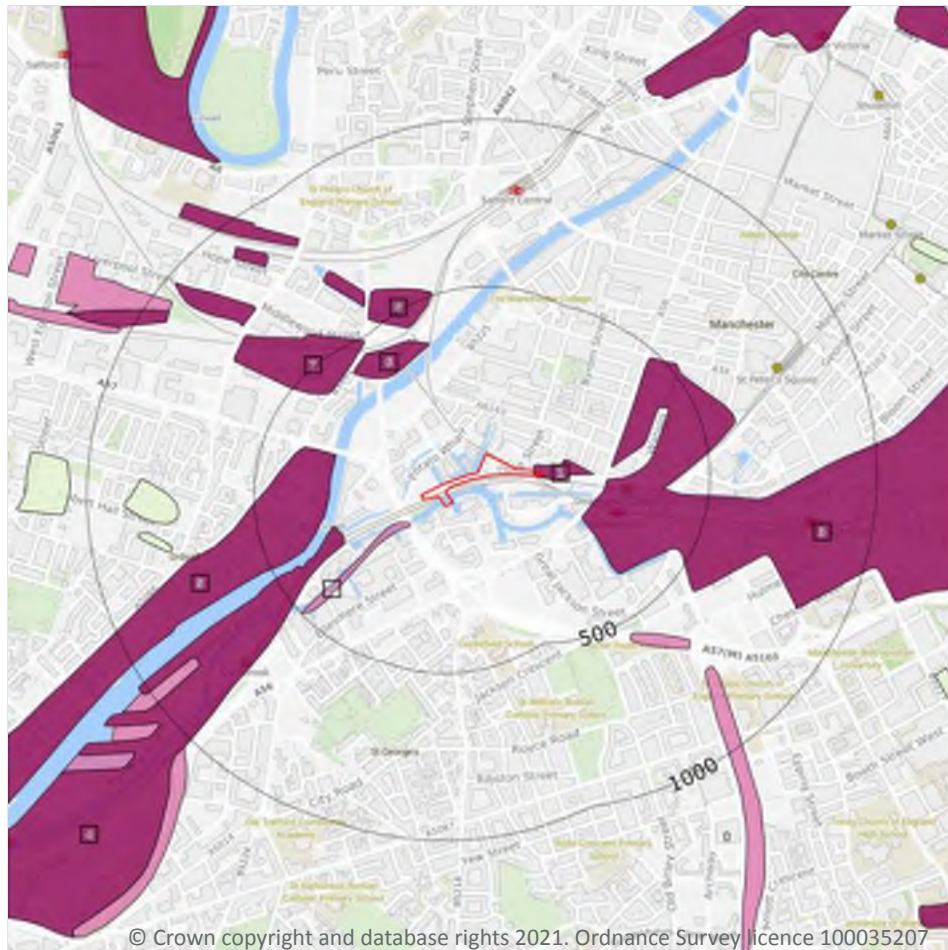
Features are displayed on the Geology 1:10,000 scale - Availability map on **page 144**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	No coverage	SJ89NW

This data is sourced from the British Geological Survey.



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



— Site Outline
Search buffers in metres (m)

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

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14.2 Artificial and made ground (10k)

Records within 500m

8

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

Features are displayed on the Geology 1:10,000 scale - Artificial and made ground map on **page 145**

ID	Location	LEX Code	Description	Rock description
1	On site	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
2	83m SW	WGR-VOID	Worked Ground (Undivided)	Void
3	168m SE	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
4	264m SW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

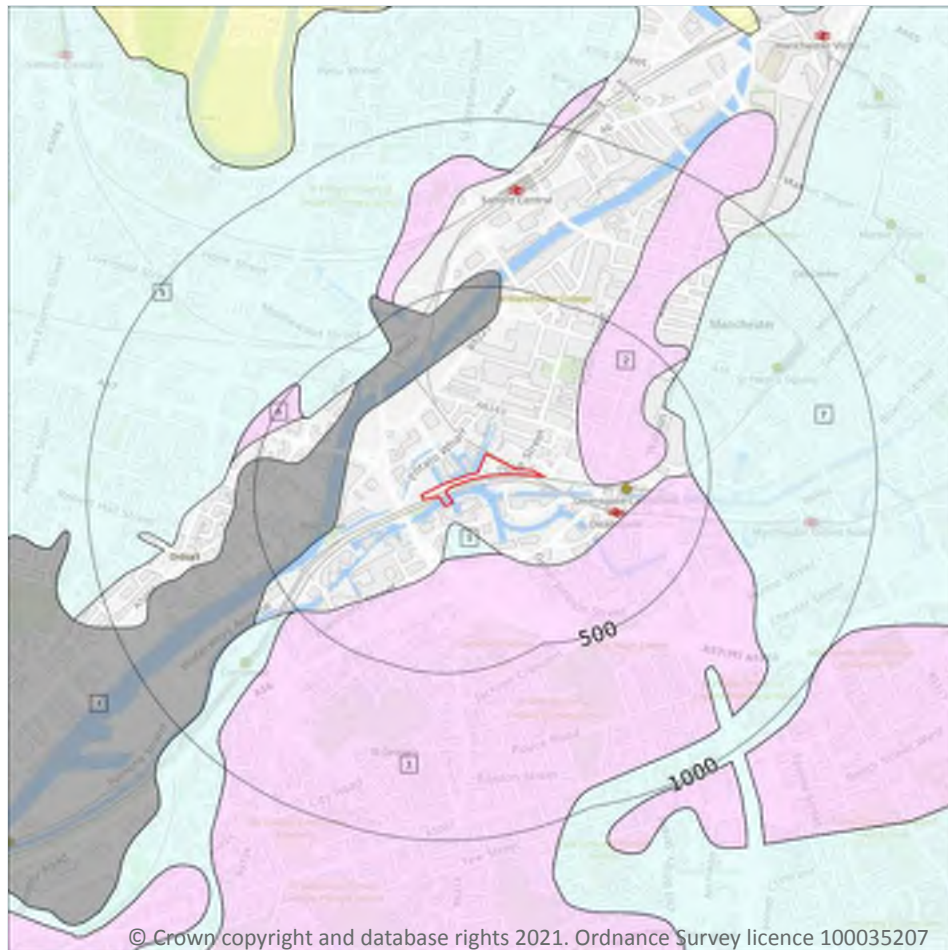


ID	Location	LEX Code	Description	Rock description
5	274m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
6	356m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
7	411m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit
8	443m NW	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial



— Site Outline

Search buffers in metres (m)

 Landslip (10k)

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

14.3 Superficial geology (10k)

Records within 500m

7

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 147**

ID	Location	LEX Code	Description	Rock description
1	56m S	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
2	125m E	GFSD-DSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
3	157m S	GFSD-DSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel

ID	Location	LEX Code	Description	Rock description
4	237m W	ALV-XSWCV	Alluvium - Sand With Clay And Gravel	Sand With Clay And Gravel [unlithified Deposits Coding Scheme - Extended]
5	389m NW	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton
6	418m NW	GFSDD-XSV	Glaciofluvial Sheet Deposits, Devensian - Sand And Gravel	Sand And Gravel
7	419m NE	TILLD-DMTN	Till, Devensian - Diamicton	Diamicton

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

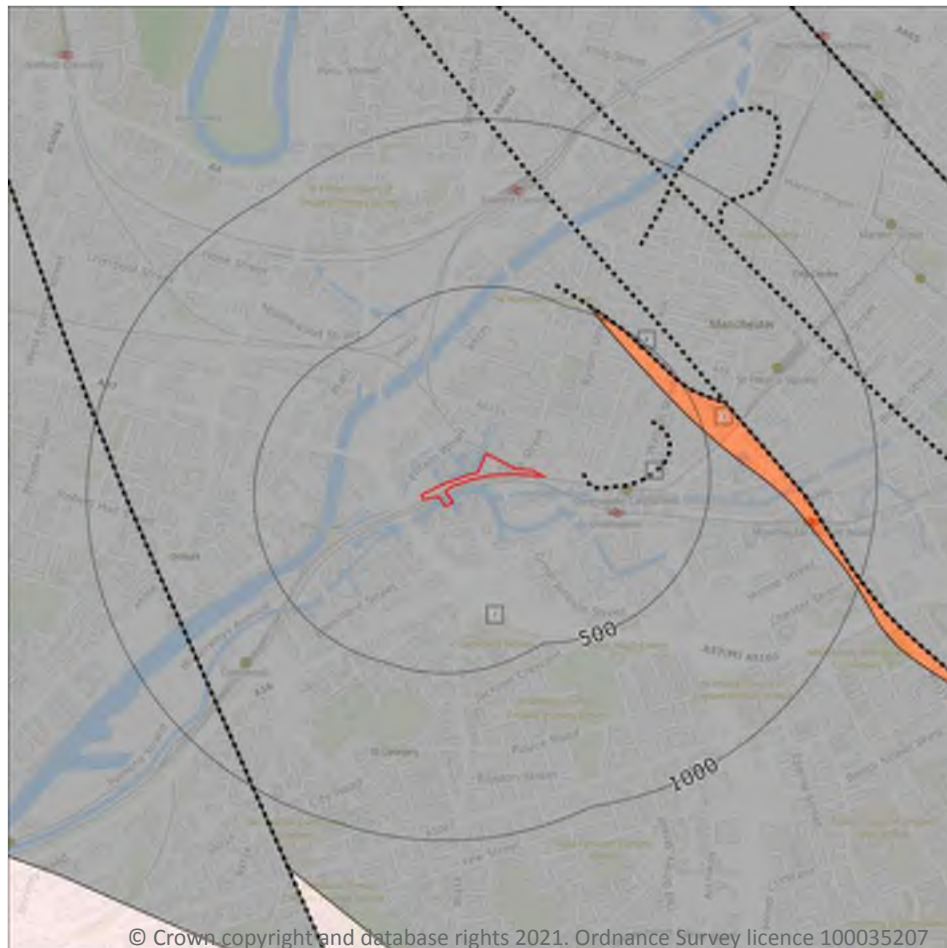
0

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

2

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 149**

ID	Location	LEX Code	Description	Rock age
1	On site	CPB-SDST	Chester Pebble Beds Formation - Sandstone	Early Triassic Epoch
3	438m NE	MM-MDST	Manchester Marls Formation - Mudstone	Late Permian Epoch [Obsolete name]

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.

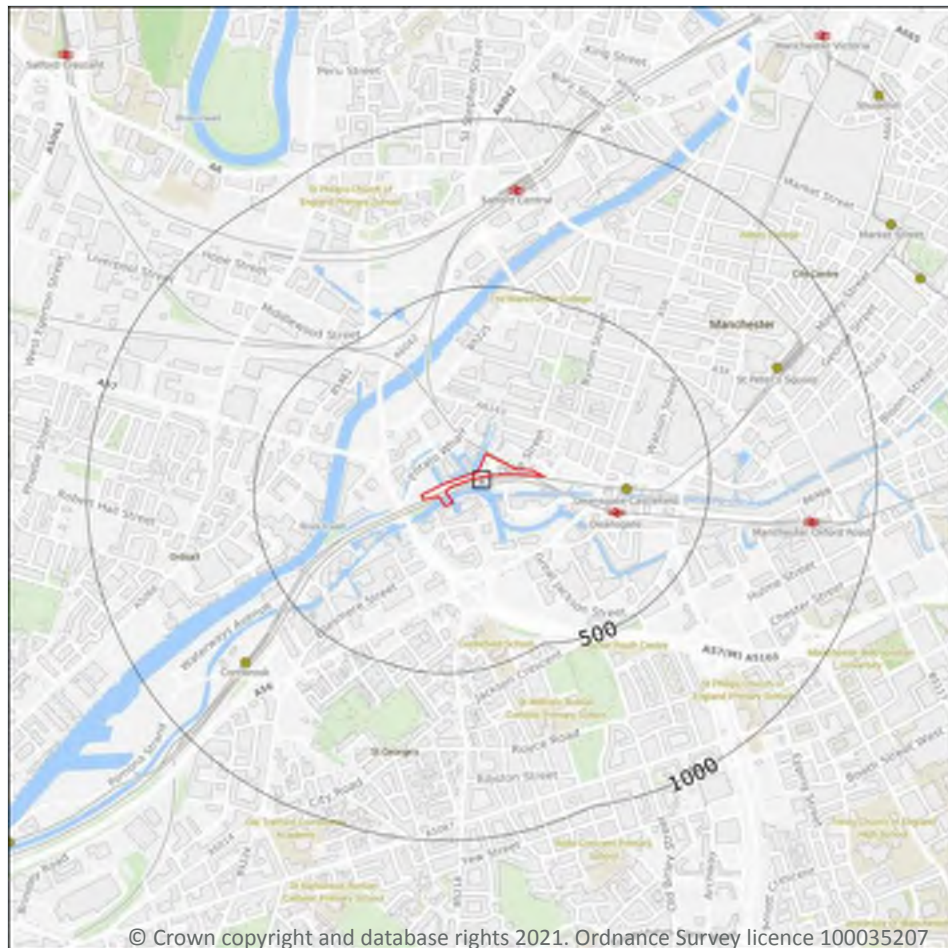
Features are displayed on the Geology 1:10,000 scale - Bedrock map on **page 149**

ID	Location	Category	Description
2	122m E	LANDFORM	Buried channel or valley margin
4	485m 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.

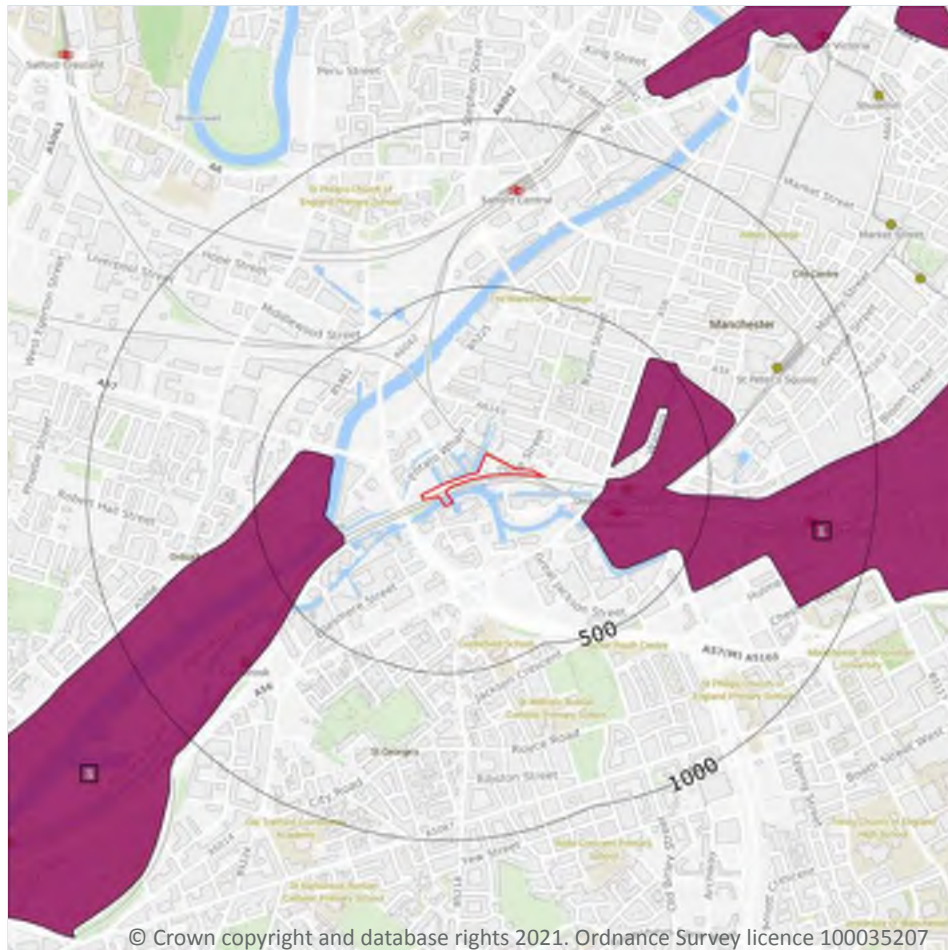
Features are displayed on the Geology 1:50,000 scale - Availability map on **page 151**

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

This data is sourced from the British Geological Survey.



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



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

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15.2 Artificial and made ground (50k)

Records within 500m

2

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 152**

ID	Location	LEX Code	Description	Rock description
1	168m SE	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT
2	263m SW	MGR-ARTDP	MADE GROUND (UNDIVIDED)	ARTIFICIAL DEPOSIT

This data is sourced from the British Geological Survey.



15.3 Artificial ground permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.



Geology 1:50,000 scale - Superficial



Site Outline

Search buffers in metres (m)

Landslip (50k)

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

15.4 Superficial geology (50k)

Records within 500m

7

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 154**

ID	Location	LEX Code	Description	Rock description
1	56m S	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
2	126m E	GFSD-DSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
3	157m S	GFSD-DSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
4	236m W	ALV-XCZSV	ALLUVIUM	CLAY, SILT, SAND AND GRAVEL



ID	Location	LEX Code	Description	Rock description
5	389m NW	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON
6	418m NW	GFSD-DSV	GLACIOFLUVIAL SHEET DEPOSITS, DEVENSIAN	SAND AND GRAVEL
7	419m NE	TILLD-DMTN	TILL, DEVENSIAN	DIAMICTON

This data is sourced from the British Geological Survey.

15.5 Superficial permeability (50k)

Records within 50m

0

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

This data is sourced from the British Geological Survey.

15.6 Landslip (50k)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

15.7 Landslip permeability (50k)

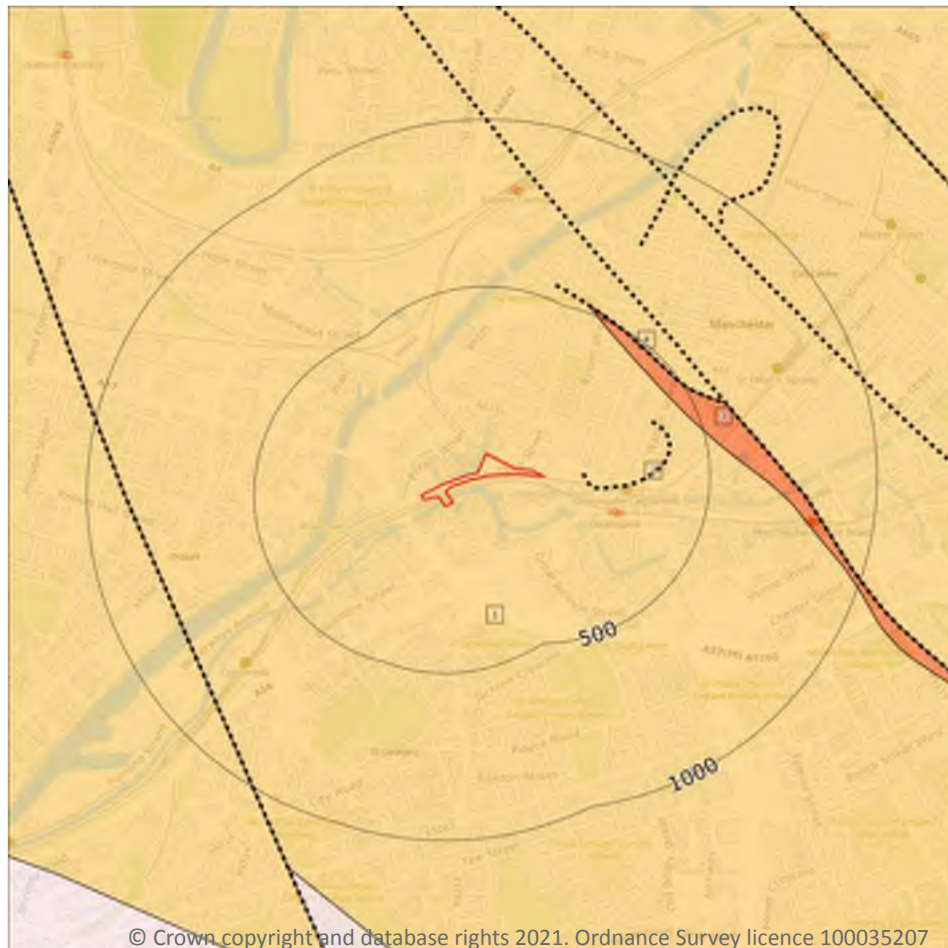
Records within 50m

0

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

This data is sourced from the British Geological Survey.

Geology 1:50,000 scale - Bedrock



— Site Outline

Search buffers in metres (m)

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

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

15.8 Bedrock geology (50k)

Records within 500m

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 156**

ID	Location	LEX Code	Description	Rock age
1	On site	CHES-SDST	CHESTER FORMATION - SANDSTONE	OLENEKIAN
3	438m NE	MM-MDST	MANCHESTER MARLS FORMATION - MUDSTONE	-

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	Mixed	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m

2

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.

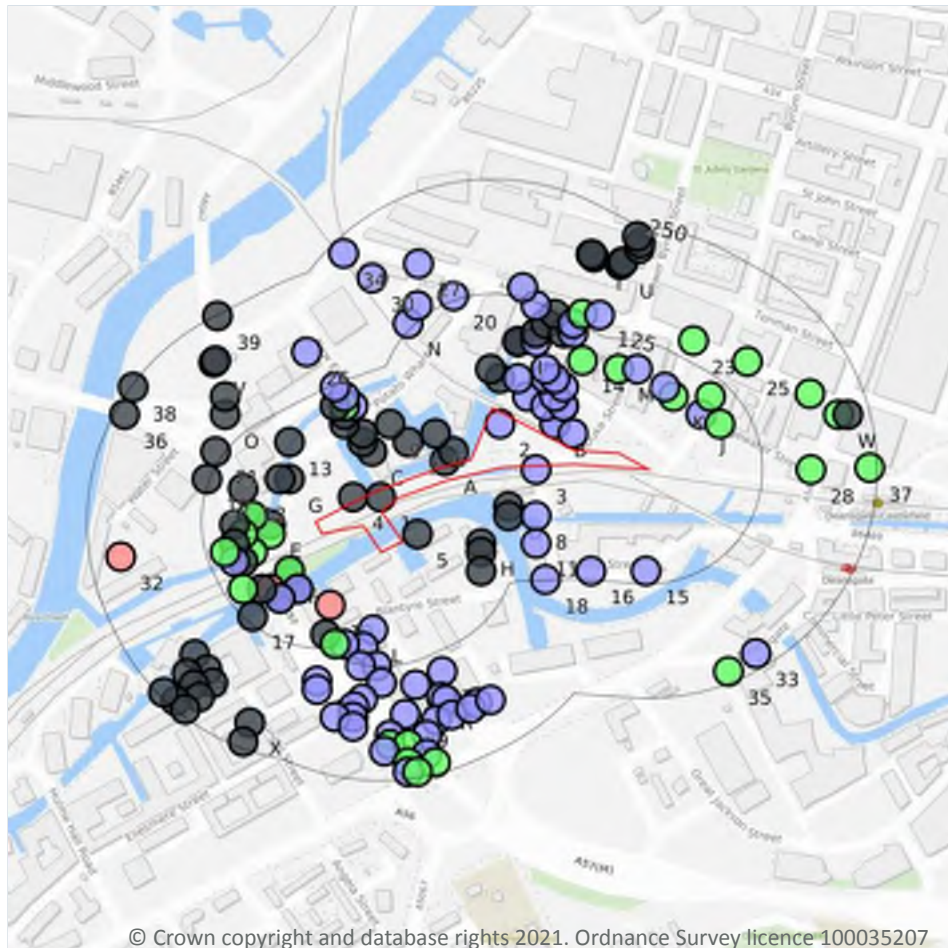
Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 156**

ID	Location	Category	Description
2	122m E	LANDFORM	Approximate margin of buried (superficial deposit-filled) channel or valley
4	485m NE	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes



— Site Outline
Search buffers in metres (m)

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

16.1 BGS Boreholes

Records within 250m

178

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 158**

ID	Location	Grid reference	Name	Length	Confidential	Web link
1	On site	382930 397590	POTATO WHARF CASTLEFIELD	-	Y	N/A
2	On site	383060 397670	CASTLEFIELD ROAD AND SEWERS G	3.6	N	1045613
3	4m S	383100 397620	CASTLEFIELD ROAD AND SEWERS F	3.0	N	1045612



ID	Location	Grid reference	Name	Length	Confidential	Web link
4	5m NW	382900 397590	POTATO WHARF MANCHESTER TP 5	-	Y	N/A
A	6m N	383000 397630	VISIONS CENTRE, CASTLEFIELD 3	-	Y	N/A
A	13m N	383010 397640	VISIONS CENTRE, CASTLEFIELD 2	-	Y	N/A
B	16m NE	383120 397670	DUKE PLACE ARCHAEOLOGICAL EXCAVATION D	6.15	N	1045661
B	16m NE	383120 397670	DUKE PLACE ARCHAEOLOGICAL EXCAVATION E	6.1	N	1045662
B	16m NE	383140 397660	DUKE PLACE ARCHAEOLOGICAL EXCAVATION F	3.2	N	1045663
5	18m NE	382970 397550	POTATO WHARF CASTLEFIELD 1	-	Y	N/A
B	28m NE	383090 397700	DUKE PLACE 5	2.05	N	1045657
B	29m NE	383110 397690	CASTLEFIELD ROAD AND SEWERS K	6.0	N	1045616
B	33m N	383060 397720	SWING BRIDGES, STAFFS WHARFE 1	-	Y	N/A
6	38m N	382990 397660	VISIONS CENTRE, CASTLEFIELD 1	-	Y	N/A
B	38m NE	383130 397690	DUKE PLACE ARCHAEOLOGICAL EXCAVATION A	6.05	N	1045658
B	38m NE	383130 397690	DUKE PLACE ARCHAEOLOGICAL EXCAVATION B	6.2	N	1045659
7	38m N	382960 397650	POTATO WHARF MANCHESTER TP 3	-	Y	N/A
B	42m NE	383080 397720	CASTLEFIELD ROAD AND SEWERS H	2.5	N	1045614
B	42m NE	383120 397700	DUKE PLACE ARCHAEOLOGICAL EXCAVATION C	6.25	N	1045660
C	42m N	382920 397640	POTATO WHARF MANCHESTER TP 2	-	Y	N/A
B	43m N	383050 397730	SWING BRIDGES, STAFFS WHARFE 2	-	Y	N/A
D	43m S	383070 397580	MERCHANTS BRIDGE CASTLEFIELD 1	-	Y	N/A
E	49m W	382810 397560	CHESTER ROAD PHASE 2 10	-	Y	N/A
E	51m W	382810 397550	MANCUNIAN WAY - REGENT ROAD DS6	20.35	N	1043492
D	53m S	383070 397570	MERCHANTS BRIDGE CASTLEFIELD 2	-	Y	N/A
F	54m SW	382830 397510	CHESTER ROAD PHASE 2 9	-	Y	N/A
F	54m SW	382830 397510	MANCUNIAN WAY - REGENT ROAD ES3	19.0	N	1043495
8	54m S	383100 397570	CASTLEFIELD ROAD AND SEWERS E	2.5	N	1045611
C	55m N	382910 397650	POTATO WHARF MANCHESTER R1	-	Y	N/A
G	55m NW	382830 397610	POTATO WHARF PWR1	-	Y	N/A
B	55m NE	383110 397720	DUKE PLACE 1	6.9	N	1045653



ID	Location	Grid reference	Name	Length	Confidential	Web link
B	56m NE	383130 397710	DUKE PLACE 3	7.65	N	1045655
B	60m NE	383120 397720	DUKE PLACE 2	6.4	N	1045654
G	61m NW	382820 397610	CHESTER ROAD PHASE 2 11A	-	Y	N/A
9	64m N	382940 397670	POTATO WHARF MANCHESTER TP 1	-	Y	N/A
B	64m NE	383110 397730	DUKE PLACE 4	3.85	N	1045656
C	64m N	382910 397660	POTATO WHARF MANCHESTER R2	-	Y	N/A
F	66m SW	382840 397490	CHESTER ROAD PHASE 2 TP2	-	Y	N/A
F	66m SW	382840 397490	MANCUNIAN WAY - REGENT ROAD ES6	4.0	N	1043497
E	69m W	382790 397570	CHESTER ROAD PHASE 2 13	-	Y	N/A
E	69m W	382790 397570	MANCUNIAN WAY - REGENT ROAD DS3	10.5	N	1043490
H	75m S	383040 397540	MERCHANTS BRIDGE CASTLEFIELD 3	-	Y	N/A
E	77m SW	382790 397530	MANCHESTER 7 SALFORD INNER RELIEF ROAD REGENT ROAD TO CHESTER ROAD DS5	12.2	N	1044174
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP4	-	Y	N/A
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF BH2	-	Y	N/A
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF BH1	-	Y	N/A
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP1	-	Y	N/A
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF BH3	-	Y	N/A
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP3	-	Y	N/A
I	78m N	383080 397760	PRO DEV STAFF'DSHIRE WHARF TP2	-	Y	N/A
10	79m S	382875 397472	SUTCLIFFE & SONS, FLOUR MILLS, EGERTON STREET	90.22	N	1042379
E	80m W	382780 397550	MANCUNIAN WAY - REGENT ROAD DS2	19.03	N	1043489
C	81m NW	382890 397670	POTATO WHARF NEW ELM STREET 1	-	Y	N/A
F	82m SW	382810 397490	MANCUNIAN WAY - REGENT ROAD ES2	30.6	N	1043494
J	83m NE	383280 397680	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE B	5.0	N	1045623
K	83m NE	383250 397700	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE 3	12.5	N	1045619
F	84m SW	382820 397480	CHESTER ROAD PHASE 2 TP1	-	Y	N/A



ID	Location	Grid reference	Name	Length	Confidential	Web link
F	84m SW	382820 397480	MANCUNIAN WAY - REGENT ROAD ES5	4.2	N	1043496
11	84m S	383100 397540	CASTLEFIELD ROAD AND SEWERS D	3.45	N	1045610
H	85m S	383040 397530	MERCHANTS BRIDGE CASTLEFIELD 4	-	Y	N/A
L	86m S	382921 397445	BLANTYRE STREET MANCHESTER 1	4.5	N	15624877
I	86m NE	383100 397760	CASTLEFIELD ROAD AND SEWERS J	5.05	N	1045615
K	87m NE	383240 397710	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE C	4.7	N	1045624
12	87m NW	382780 397600	CHESTER ROAD PHASE 2 14	-	Y	N/A
E	89m W	382770 397560	CHESTER ROAD PHASE 2 4	-	Y	N/A
F	89m SW	382800 397490	CHESTER ROAD PHASE 2 7	-	Y	N/A
C	90m N	382890 397680	POTATO WHARF NEW ELM STREET 3	-	Y	N/A
E	90m SW	382780 397520	CHESTER ROAD PHASE 2 6	-	Y	N/A
13	90m NW	382830 397650	POTATO WHARF PWR2	-	Y	N/A
14	92m NE	383150 397740	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE 5	12.0	N	1045621
H	92m E	383040 397510	MERCHANTS BRIDGE CASTLEFIELD 5	-	Y	N/A
M	92m N	383190 397730	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE 4	12.0	N	1045620
E	92m W	382770 397540	CHESTER ROAD PHASE 2 5	-	Y	N/A
J	92m NE	383300 397670	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE 2	12.0	N	1045618
M	94m N	383210 397730	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE F	4.3	N	1045625
I	95m NE	383100 397770	CASTLEFIELD CENTRE MANCHESTER TP 3	-	Y	N/A
C	96m N	382900 397690	MANCHESTER AND SALFORD INNER RELIEF ROAD TP42	4.0	N	1045789
E	99m SW	382770 397520	MANCUNIAN WAY - REGENT ROAD DS4	10.0	N	1043491
C	99m N	382890 397690	MANCHESTER AND SALFORD INNER RELIEF ROAD NER2	21.1	N	1045787
C	103m NW	382880 397690	POTATO WHARF NEW ELM STREET 2	-	Y	N/A
J	104m NE	383290 397700	CITY CENTRE - PHASE 2 30	11.12	N	1043528
E	105m W	382760 397530	MANCUNIAN WAY - REGENT ROAD DS1	18.0	N	1043488



ID	Location	Grid reference	Name	Length	Confidential	Web link
F	105m SW	382780 397490	MANCUNIAN WAY - REGENT ROAD ES1	17.66	N	1043493
L	105m S	382911 397427	BLANTYRE STREET MANCHESTER 2	4.5	N	15624884
L	108m S	382890 397430	MANCUNIAN WAY - REGENT ROAD U2	5.5	N	1043498
I	109m NE	383110 397780	CASTLEFIELD CENTRE MANCHESTER 1	-	Y	N/A
L	109m SW	382870 397440	CHESTER ROAD PHASE 2 8	-	Y	N/A
C	109m N	382890 397700	MANCHESTER AND SALFORD INNER RELIEF ROAD NER1	8.0	N	1045786
I	109m NE	383130 397770	CASTLEFIELD CENTRE MANCHESTER TP 2	-	Y	N/A
15	111m S	383220 397510	CASTLEFIELD ROAD AND SEWERS A	5.5	N	1045607
L	112m SW	382880 397430	LOWER MEDLOCK C/1 SITE 0181 301/301A	14.52	N	1043409
I	114m NE	383140 397770	NEW OFFICES LIVERPOOL ROAD MANCHESTER 2	5.5	N	1044465
16	115m S	383160 397510	CASTLEFIELD ROAD AND SEWERS B	4.0	N	1045608
17	118m SW	382790 397460	MANCHESTER 7 SALFORD INNER RELIEF ROAD REGENT ROAD TO CHESTER ROAD ES4	-	Y	N/A
C	122m N	382880 397710	MANCHESTER AND SALFORD INNER RELIEF ROAD TP41	2.0	N	1045788
I	122m NE	383120 397790	CASTLEFIELD CENTRE MANCHESTER TP 1	-	Y	N/A
I	122m NE	383100 397800	NEW OFFICES LIVERPOOL ROAD MANCHESTER 1	9.0	N	1044464
I	123m NE	383140 397780	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE H	5.2	N	1045626
L	125m S	382926 397406	BLANTYRE STREET MANCHESTER 4	4.5	N	15624889
18	125m S	383110 397500	CASTLEFIELD ROAD AND SEWERS C	5.0	N	1045609
L	127m S	382908 397406	BLANTYRE STREET MANCHESTER 3	4.0	N	15624886
19	128m W	382740 397610	CHESTER ROAD PHASE 2 3	-	Y	N/A
20	130m N	383010 397810	MANCHESTER, WOOLHAM PLACE 6	4.9	N	1042838
N	131m NW	382960 397780	MANCHESTER, WOOLHAM PLACE 5	4.7	N	1042837
21	133m NW	382750 397640	CHESTER ROAD PHASE 2 2	-	Y	N/A
I	136m N	383085 397819	MANCHESTER CORP. E.SEWER	7.01	N	1042237
I	136m NE	383150 397790	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE 6	12.7	N	1045622
N	139m NW	382970 397800	MANCHESTER, WOOLHAM PLACE 4	3.7	N	1042836



ID	Location	Grid reference	Name	Length	Confidential	Web link
L	144m S	382931 397387	BLANTYRE STREET MANCHESTER 5	5.0	N	15624891
I	144m NE	383169 397789	MANCHESTER CORP. E.SEWER	9.45	N	1042236
22	147m SE	382997 397400	BLANTYRE STREET MANCHESTER 7	4.7	N	15624894
23	147m NE	383271 397761	MANCHESTER CORP. E.SEWER	11.28	N	1042235
24	150m S	382968 397385	BLANTYRE STREET MANCHESTER 6	5.0	N	15624893
O	153m NW	382760 397680	CHESTER ROAD PHASE 2 1	-	Y	N/A
P	157m SW	382860 397390	MANCUNIAN WAY - REGENTS ROAD U1	3.5	N	1043803
25	159m NE	383330 397738	MANCHESTER CORP. E.SEWER	12.19	N	1042234
Q	162m S	382910 397370	MANCUNIAN WAY - REGENTS ROAD U4	4.6	N	1043805
P	166m SW	382860 397380	MANCHESTER AND SALFORD INNER RELIEF ROAD TP28	0.43	N	1045760
O	169m NW	382760 397700	CHESTER ROAD PHASE 2 TP7/7A	-	Y	N/A
26	170m NW	382849 397749	MANCHESTER CORP. MARKET COLD AIR STORES, ELM ST	-2.0	N	1042441
Q	171m S	382901 397362	MANCHESTER CORP. C.SEWER	8.53	N	1042279
R	172m SE	382996 397372	BLANTYRE STREET MANCHESTER 9	5.0	N	15624899
R	176m SE	383001 397369	BLANTYRE STREET MANCHESTER 14	8.1	N	15624908
27	177m NW	382971 397845	MANCHESTER CORP. E.SEWER	7.92	N	1042238
28	178m E	383400 397620	BRIDGEWATER STREET / RICE STREET MAIN DRAINAGE 1	12.0	N	1045617
29	180m S	382957 397353	BLANTYRE STREET MANCHESTER 8	5.0	N	15624897
Q	183m S	382900 397350	MANCUNIAN WAY - REGENTS ROAD U3	5.6	N	1043804
Q	187m S	382880 397350	MANCHESTER AND SALFORD INNER RELIEF ROAD TP13	1.5	N	1045752
S	192m SW	382727 397418	TIMBER WHARF MANCHESTER TP 4	-	Y	N/A
Q	193m S	382900 397340	MANCHESTER AND SALFORD INNER RELIEF ROAD TP14	1.5	N	1045753
R	193m SE	383035 397366	BLANTYRE STREET MANCHESTER 13	8.0	N	15624906
R	193m S	382991 397347	BLANTYRE STREET MANCHESTER 10	5.0	N	15624902
30	194m NW	382920 397830	MANCHESTER, WOOLHAM PLACE 1	3.1	N	1042835
R	194m SE	383007 397352	BLANTYRE STREET MANCHESTER 15	9.0	N	15624909



ID	Location	Grid reference	Name	Length	Confidential	Web link
S	194m SW	382740 397402	TIMBER WHARF MANCHESTER TP 3	-	Y	N/A
31	195m NE	383399 397703	MANCHESTER CORP. E.SEWER	12.5	N	1042233
R	197m SE	383028 397359	BLANTYRE STREET MANCHESTER 11	5.0	N	15624903
T	197m NE	383163 397852	Museum Of Science & Industry, Manchester WS3	-	Y	N/A
R	198m SE	383050 397369	BLANTYRE STREET MANCHESTER 12	5.0	N	15624905
T	198m NE	383160 397855	Museum Of Science & Industry, Manchester WS4	-	Y	N/A
T	199m NE	383161 397855	Museum Of Science & Industry, Manchester WS4A	-	Y	N/A
R	201m S	382940 397330	MANCHESTER AND SALFORD INNER RELIEF ROAD TP29	1.5	N	1045761
S	203m SW	382746 397387	TIMBER WHARF MANCHESTER TP 1	-	Y	N/A
U	203m NE	383192 397844	Museum Of Science & Industry, Manchester WS2	-	Y	N/A
V	206m NW	382748 397737	INNER RELIEF ROUTE 1	-	Y	N/A
R	207m S	382980 397330	MANCHESTER AND SALFORD INNER RELIEF ROAD TP30	1.5	N	1045762
U	207m NE	383194 397847	Museum Of Science & Industry, Manchester WS1	-	Y	N/A
U	207m NE	383195 397847	Museum Of Science & Industry, Manchester TP1	-	Y	N/A
V	208m NW	382750 397740	MSIRR REGENT ROAD - GORE STREET 1	-	Y	N/A
R	211m S	382940 397320	MANCUNIAN WAY - REGENTS ROAD U5	15.05	N	1043806
S	211m SW	382719 397398	TIMBER WHARF MANCHESTER TP 5	-	Y	N/A
R	213m S	382960 397320	MANCUNIAN WAY - REGENTS ROAD U8	16.2	N	1043809
W	216m E	383430 397680	CITY CENTRE - PHASE 2 29	12.5	N	1043527
S	216m SW	382726 397385	TIMBER WHARF MANCHESTER TP 6	-	Y	N/A
32	217m W	382646 397525	RYLANDS & SONS DACCA MILLS, WATER STREET	102.57	N	1042378
R	218m S	382934 397313	MANCHESTER CORP. C.SEWER	9.45	N	1042278
X	221m S	382787 397344	BRITTANIA BASIN MANCHESTER 1	-	Y	N/A
S	223m SW	382732 397372	TIMBER WHARF MANCHESTER TP 2	-	Y	N/A
U	225m N	383212 397862	Museum Of Science & Industry, Manchester WS6	-	Y	N/A
W	226m E	383440 397680	FESTIVAL MARKETPLACE TP 3/1	-	Y	N/A
R	226m S	382980 397310	MANCUNIAN WAY - REGENTS ROAD U6	8.8	N	1043807

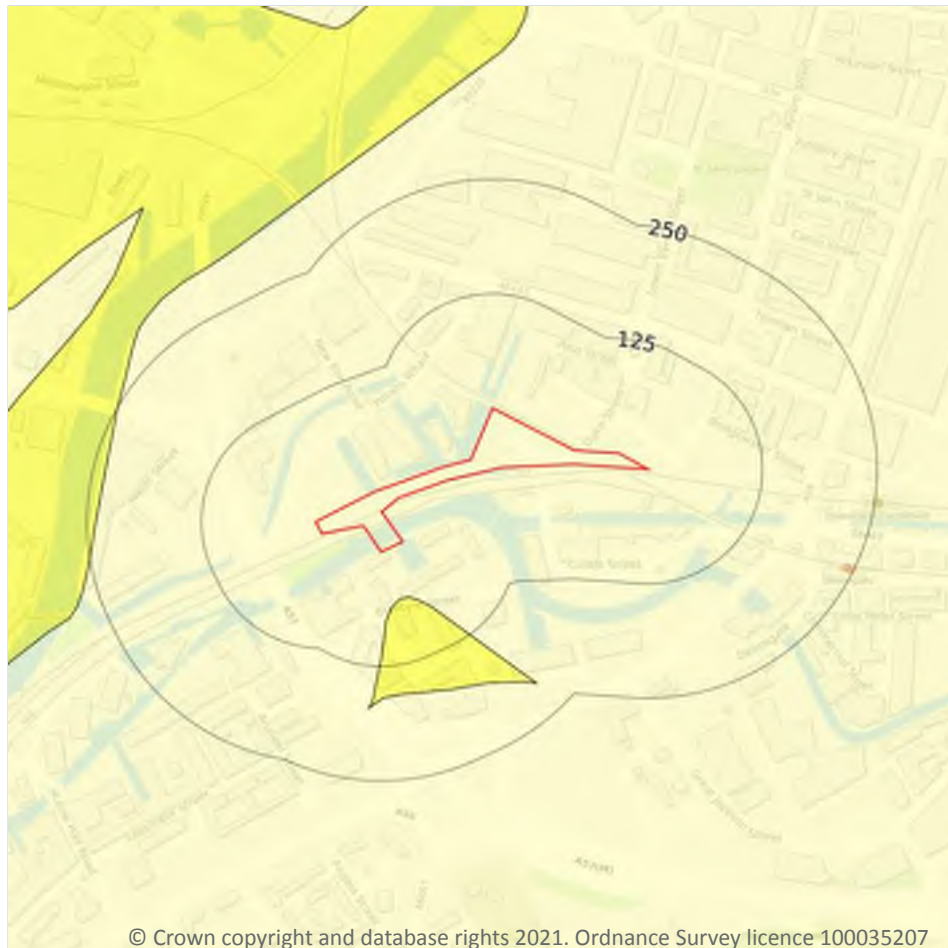


ID	Location	Grid reference	Name	Length	Confidential	Web link
U	231m N	383213 397868	Museum Of Science & Industry, Manchester WS5	-	Y	N/A
R	232m S	382960 397300	MANCHESTER 7 SALFORD INNER RELIEF ROAD REGENT ROAD TO CHESTER ROAD U23	10.2	N	1044173
33	233m SE	383340 397420	LOWER MEDLOCK UCISO'S CONTRACT 1 MAN 0276 304	9.1	N	1043415
34	235m NW	382889 397856	MANCHESTER CORP. E.SEWER	3.66	N	1042239
35	238m S	383310 397400	LOWER MEDLOCK UCISO'S CONTRACT 1 MAN 0276 303	10.59	N	1043414
U	238m N	383210 397875	Museum Of Science & Industry, Manchester TP2	-	Y	N/A
R	238m S	382990 397300	MANCUNIAN WAY - REGENTS ROAD U10	12.5	N	1043811
36	239m NW	382650 397680	REGENT BRIDGE 4	-	Y	N/A
37	242m E	383464 397622	MANCHESTER CORP. B.SEWER	12.5	N	1042262
R	242m S	382960 397290	MANCUNIAN WAY - REGENTS ROAD U7	9.8	N	1043808
S	242m SW	382706 397368	TIMBER WHARF MANCHESTER TP 8	-	Y	N/A
X	243m S	382780 397323	BRITANIA BASIN PHASE 4 MANCHESTER TP 8	-	Y	N/A
R	244m S	382970 397290	MANCUNIAN WAY - REGENTS ROAD U9	19.6	N	1043810
S	244m SW	382716 397358	TIMBER WHARF MANCHESTER TP 7	-	Y	N/A
S	245m SW	382693 397377	TIMBER WHARF MANCHESTER TP 9	-	Y	N/A
38	247m NW	382660 397710	REGENT BRIDGE 3	-	Y	N/A
39	249m NW	382752 397788	INNER RELIEF ROUTE 2	-	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).

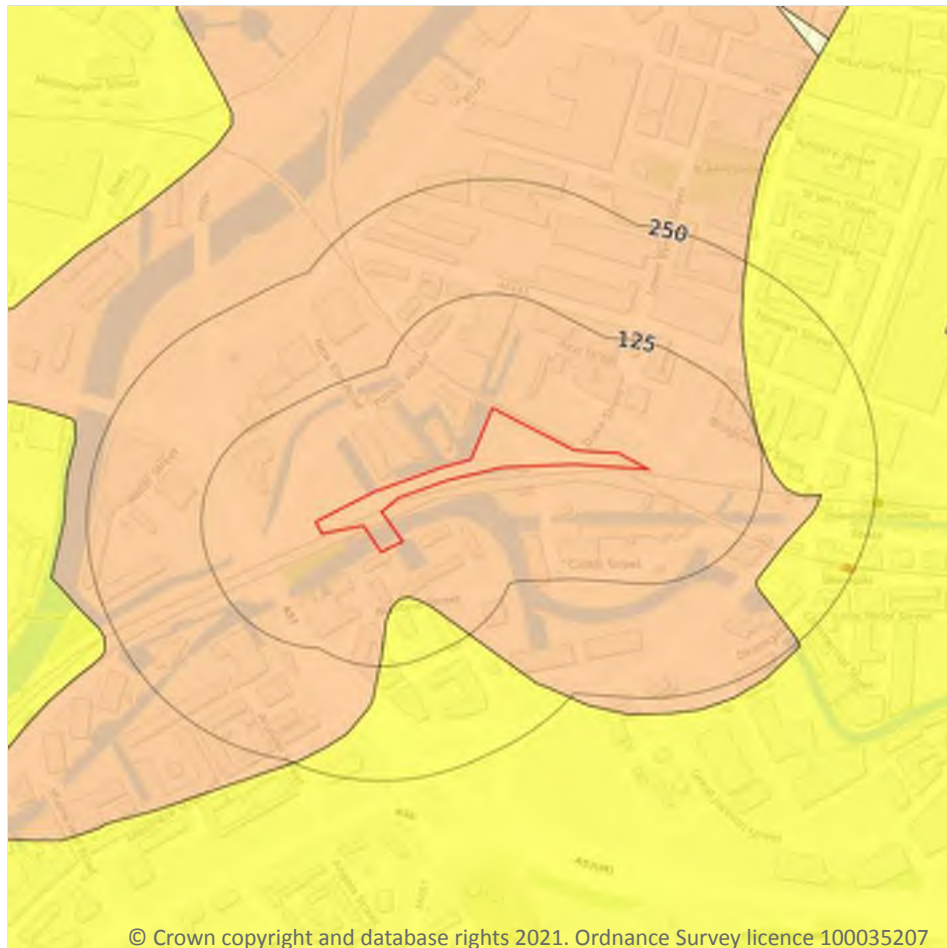
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 166**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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

17.2 Running sands

Records within 50m

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.

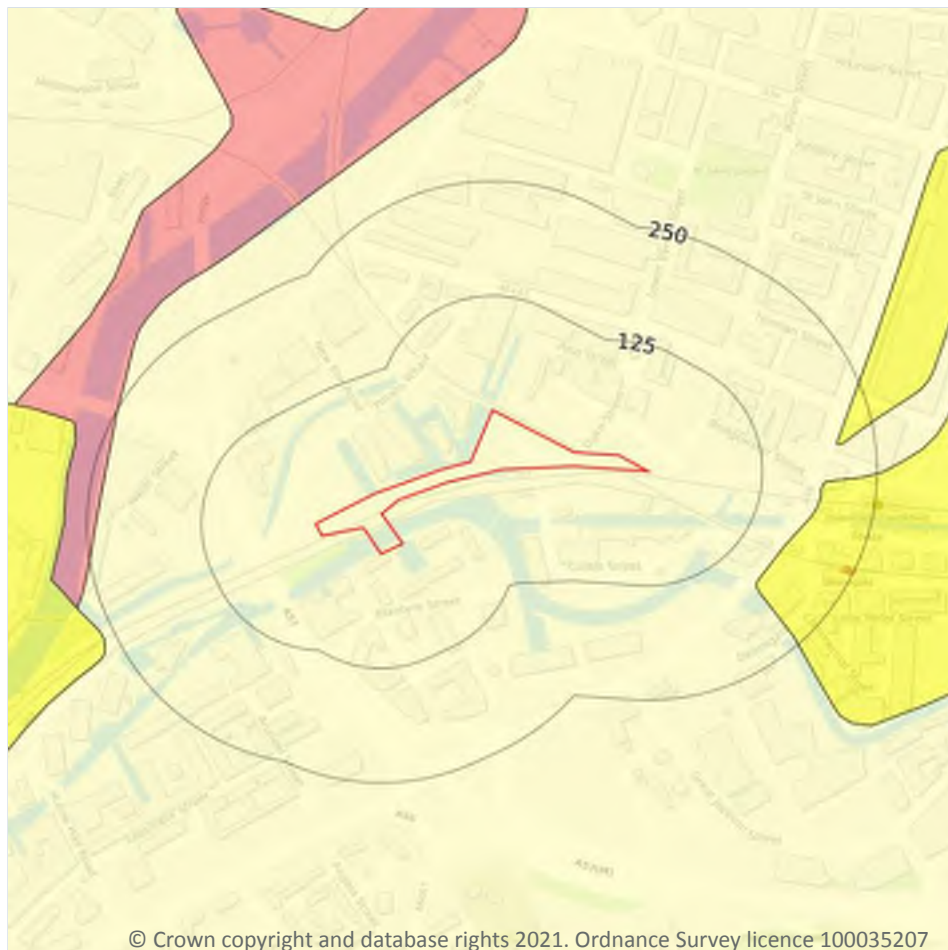
Features are displayed on the Natural ground subsidence - Running sands map on **page 167**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Compressible deposits



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

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.

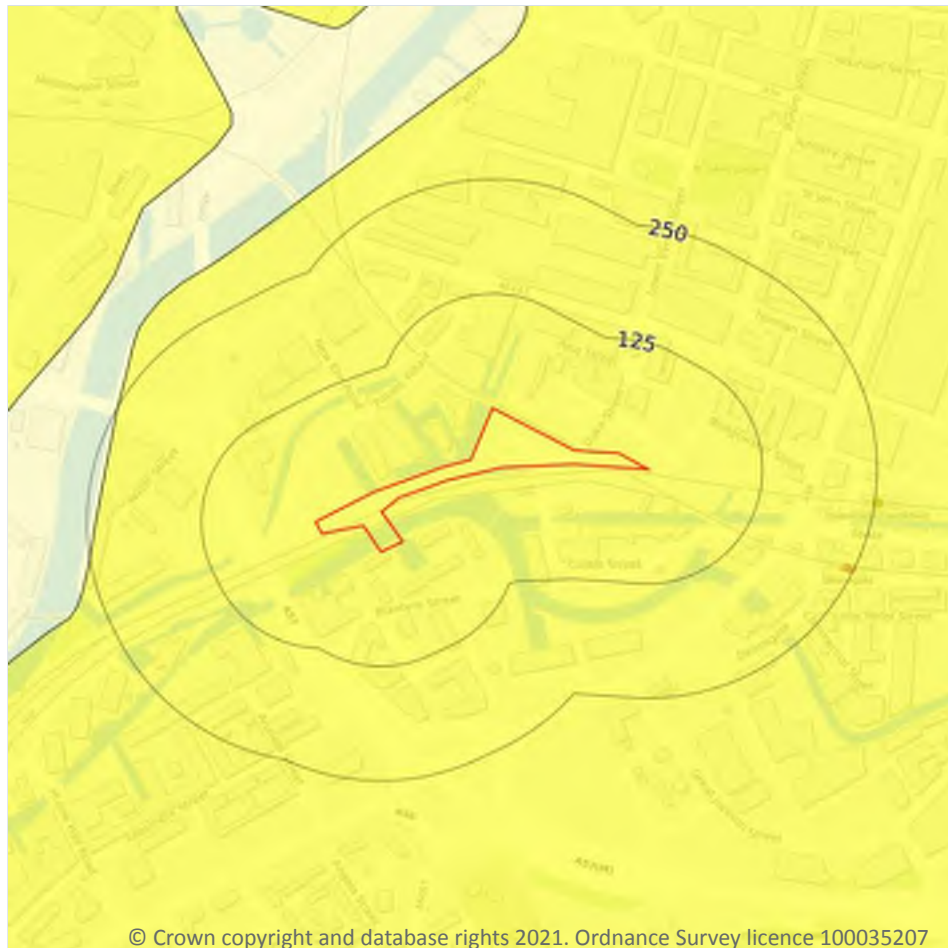
Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 168**

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 169**

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 170**

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

17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

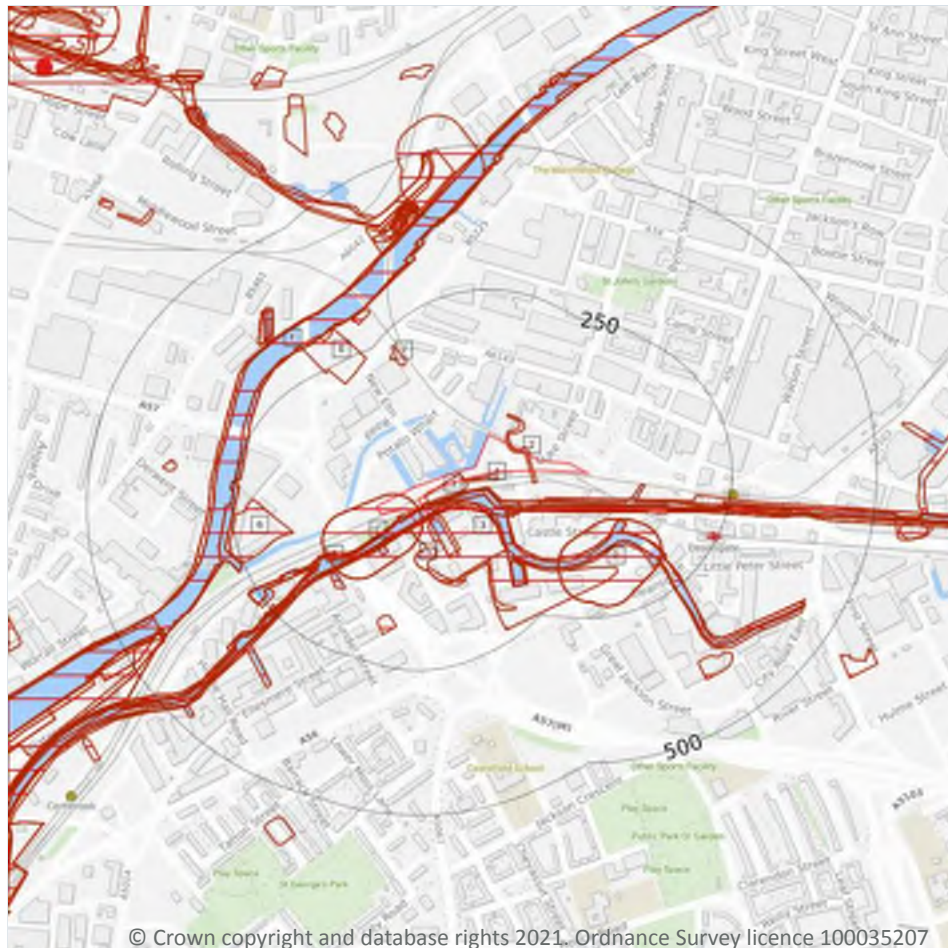
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 171**

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

43

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 173**

ID	Location	Land Use	Year of mapping	Mapping scale
1	On site	Timber Wharf	1851	1:10560
2	On site	Unspecified Ground Workings	1851	1:10560
3	On site	Quay	1851	1:10560
A	On site	Canal	1971	1:10000
A	On site	Canal	1978	1:10000
A	On site	Canal	1985	1:10000
A	On site	Canal	1994	1:10000
A	On site	Canal	1938	1:10560
A	On site	Canal	1932	1:10560
A	On site	Canal	1916	1:10560
A	On site	Canal	1905	1:10560
A	On site	Canal	1923	1:10560
B	On site	Canal	1956	1:10560
B	On site	Canal	1988	1:10000
B	On site	Canal	1896	1:10560
C	On site	Unspecified Wharves	1938	1:10560
C	On site	Unspecified Wharves	1932	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
C	On site	Unspecified Wharves	1916	1:10560
C	On site	Unspecified Wharves	1905	1:10560
4	3m S	Water Body	1896	1:10560
5	41m SE	Gravel Pit	1851	1:10560
B	77m S	Unspecified Ground Workings	1851	1:10560
D	87m S	Quay	1938	1:10560
D	87m S	Quay	1932	1:10560
D	87m S	Quay	1916	1:10560
D	87m S	Quay	1905	1:10560
D	87m S	Quay	1923	1:10560
B	121m SE	Quay	1851	1:10560
6	151m W	Quay	1851	1:10560
B	153m S	Pond	1851	1:10560
A	164m S	Sand Pit	1851	1:10560
7	188m NW	Refuse Heap	1851	1:10560
E	213m NW	Quay	1851	1:10560
E	240m W	Canal	1971	1:10000
E	240m W	Canal	1956	1:10560
E	240m W	Canal	1988	1:10000
E	240m W	Canal	1978	1:10000
E	240m W	Canal	1985	1:10000
E	240m W	Canal	1994	1:10000
F	247m W	Canal	1938	1:10560
F	247m W	Canal	1932	1:10560
F	247m W	Canal	1916	1:10560
F	247m W	Canal	1905	1:10560

This is data is sourced from Ordnance Survey/Groundsure.



18.4 Underground workings

Records within 1000m

0

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

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

1

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.

Features are displayed on the Mining, ground workings and natural cavities map on **page 173**

ID	Location	Mine Address	Mineral	Data source	Publisher
-	679m W	Wodens Cave, Manchester, Greater Manchester	Firestone, Freestone, Hearthstone , Honestone, Ragstone, Sandstone, Scythestone , Silver Sand, Whetstone	'Underground Manchester - Secrets of the city revealed'	Willow Publishing

This data is sourced from Stantec UK Ltd.

18.8 JPB mining areas

Records on site	1
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Areas which could be affected by former coal and other mining. This data includes some mine plans unavailable to the Coal Authority.

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site	1
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Areas which could be affected by past, current or future coal mining.

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

This data is sourced from the Coal Authority.



18.10 Brine areas

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

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

18.11 Gypsum areas

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

This data is sourced from British Gypsum.

18.12 Tin mining

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

This data is sourced from Mining Searches UK.

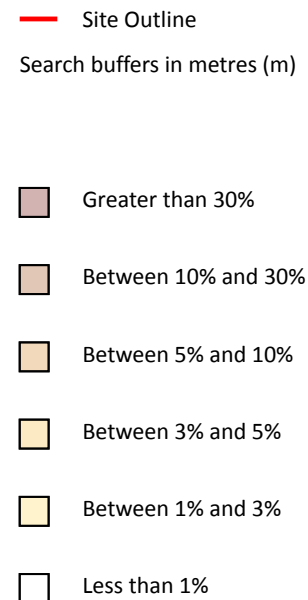
18.13 Clay mining

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 179**

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

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



20 Soil chemistry

20.1 BGS Estimated Background Soil Chemistry

Records within 50m

4

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

Location	Arsenic	Bioaccessible Arsenic	Lead	Bioaccessible Lead	Cadmium	Chromium	Nickel
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
On site	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 mg/kg
5m NE	15 - 25 mg/kg	No data	100 - 200 mg/kg	60 - 120 mg/kg	1.8 mg/kg	60 - 90 mg/kg	30 - 45 mg/kg
30m SW	25 - 35 mg/kg	No data	100 - 200 mg/kg	60 - 120 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

14

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).

Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	17	3	52	36	0.3	52	31	22	6
On site	17	3	70	48	0.5	49	28	21	7



Location	Arsenic (mg/kg)	Bioaccessible Arsenic (mg/kg)	Lead (mg/kg)	Bioaccessible Lead (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Copper (mg/kg)	Nickel (mg/kg)	Tin (mg/kg)
On site	18	3.2	46	32	0.3	60	23	24	5
On site	18	3.2	146	100	0.4	62	32	24	9
On site	19	3.3	81	56	0.5	57	29	24	8
On site	20	3.5	45	31	0.4	63	19	25	5
7m S	18	3.2	81	56	0.4	57	30	23	8
12m N	19	3.3	89	61	0.4	58	29	24	8
14m W	20	3.5	213	146	0.4	66	34	26	11
21m E	17	3	76	52	0.5	52	30	23	7
22m SE	18	3.2	57	39	0.3	55	43	23	6
30m SW	18	3.2	50	34	0.3	60	29	24	6
33m NE	18	3.2	47	32	0.4	52	23	22	5
43m SW	17	3	110	76	0.4	61	30	23	8

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

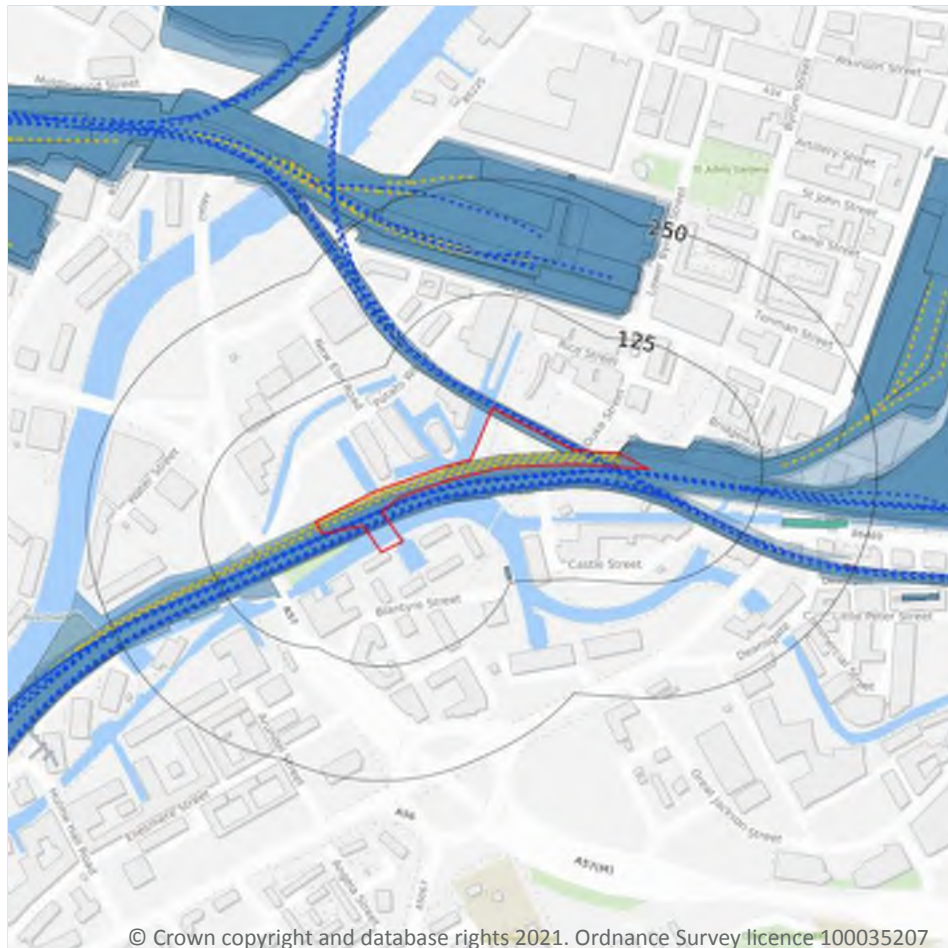
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



- Site Outline
- Search buffers in metres (m)
- C1 Crossrail 1 Stations
- Crossrail 1 Route
- Crossrail 1 Worksites
- C2 Crossrail 2 Stations
- Crossrail 2 Route
- Crossrail 2 Worksites
- Crossrail 2 Safeguarding
- Crossrail 2 Headhouses
- Railway stations
- Active railways
- Active tunnels
- Abandoned railways
- Historic railways
- Historic tunnels
- Underground stations
- Underground Lines
- Royal Mail tunnels
- HS2 optimised route
- HS2 Stations
- HS2 Depots
- HS2 Surface Safeguarding
- HS2 Subsurface Safeguarding

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

1

Railway tunnels taken from contemporary Ordnance Survey mapping.

Features are displayed on the Railway infrastructure and projects map on **page 182**

Location	Type
On site	Railway Tunnel

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

84

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

Features are displayed on the Railway infrastructure and projects map on **page 182**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1948	2500
On site	Railway Sidings	1893	2500
On site	Railway Sidings	1908	2500
On site	Railway Sidings	1922	2500
On site	Railway Sidings	1932	2500
On site	Railway Sidings	1979	2500
On site	Railway Sidings	1963	2500
On site	Railway	1922	-
On site	Railway	1932	-
On site	Railway	1889	-
On site	Railway	1908	-
On site	Railways	1893	-
On site	Railway Sidings	1938	10560



Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1932	10560
On site	Railway Sidings	1916	10560
On site	Railway Sidings	1905	10560
On site	Railway Sidings	1923	10560
3m NE	Railway Sidings	1956	10560
9m NE	Railway Sidings	1948	1250
10m NE	Railway Sidings	1963	2500
11m NE	Railway Sidings	1963	1250
11m NE	Railway Sidings	1979	1250
11m NE	Railway Sidings	1955	-
74m SW	Railways	1893	-
75m SW	Railways	1948	-
107m S	Railway Sidings	1948	1250
107m S	Railway Sidings	1963	1250
107m S	Railway Sidings	1979	1250
129m N	Railway Sidings	1923	10560
133m N	Railway Sidings	1896	10560
135m N	Railway Sidings	1938	10560
135m N	Railway Sidings	1932	10560
135m N	Railway Sidings	1916	10560
135m N	Railway Sidings	1905	10560
142m N	Railway Sidings	1891	500
142m N	Railway Sidings	1956	10560
144m NW	Railway	1889	-
147m N	Railway Sidings	1986	1250
148m N	Railway Sidings	1948	2500
148m N	Railway Sidings	1979	2500
148m N	Railway Sidings	1948	1250



Location	Land Use	Year of mapping	Mapping scale
148m N	Railway Sidings	1963	1250
148m N	Railway Sidings	1979	1250
148m N	Railway Sidings	1981	1250
148m N	Railway Sidings	1971	10000
148m N	Railway Sidings	1978	10000
148m N	Railway Sidings	1985	10000
149m N	Railway Sidings	1955	-
151m N	Railway Sidings	1988	10000
151m N	Railway Sidings	1994	10000
155m SE	Tunnel	1932	2500
157m E	Tunnel	1932	-
157m N	Railway Sidings	1990	1250
157m E	Tunnel	1986	1250
157m E	Tunnel	1990	1250
157m N	Railway Sidings	1995	1250
157m E	Tunnel	1948	1250
157m E	Tunnel	1963	1250
157m E	Tunnel	1979	1250
157m E	Tunnel	1981	1250
158m E	Tunnel	1995	1250
158m E	Tunnel	1994	1250
158m E	Tunnel	1955	-
158m E	Tunnel	1948	2500
158m E	Tunnel	1979	2500
158m E	Tunnel	1963	2500
158m N	Railway Sidings	1995	1250
158m N	Railway Sidings	1994	1250
162m N	Railway Sidings	1851	10560



Location	Land Use	Year of mapping	Mapping scale
177m N	Railway Sidings	1949	1250
177m N	Railway Sidings	1949	2500
177m N	Railway Sidings	1978	1250
187m E	Railway Sidings	1896	10560
190m E	Railway Sidings	1955	-
190m N	Railway Sidings	1995	1250
191m N	Railway Sidings	1995	1250
200m NW	Railway	1908	-
208m E	Railway Sidings	1971	10000
208m E	Railway Sidings	1978	10000
208m E	Railway Sidings	1985	10000
240m E	Railway Sidings	1955	-
241m E	Railway Sidings	1948	1250
242m E	Railway Sidings	1979	1250
242m E	Railway Sidings	1891	500

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

11

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

Features are displayed on the Railway infrastructure and projects map on **page 182**



Location	Description
On site	Abandoned
On site	Abandoned
On site	Abandoned
148m E	Dismantled
164m N	Disused
174m N	Disused
181m N	Disused
237m E	Dismantled
238m NW	Disused
241m NW	Disused
250m N	Abandoned

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

47

Currently existing railway lines, including standard railways, narrow gauge, funicular, trams and light railways. Features are displayed on the Railway infrastructure and projects map on **page 182**

Location	Name	Type
On site		rail
On site		rail
On site		rail
On site		rail
On site		light_rail
On site		light_rail
On site		rail
On site	Not given	Multi Track
On site	Not given	Multi Track
On site	Not given	Multi Track



Location	Name	Type
4m S	Not given	Multi Track
4m S	Not given	Multi Track
4m S	Not given	Multi Track
4m S	Not given	Multi Track
8m S	Not given	Multi Track
20m S	Not given	Multi Track
25m SW	Not given	Multi Track
27m S		rail
27m S		rail
29m SE	Not given	Multi Track
41m SE	Not given	Multi Track
49m SE	Not given	Multi Track
55m SE		rail
55m SE		rail
107m E	Metrolink	light_rail
107m E		light_rail
107m E	Metrolink	light_rail
107m E		light_rail
133m NW	Ordsall Chord	rail
133m NW		rail
141m NW	Ordsall Chord	rail
141m NW		rail
142m E		light_rail
159m N	Liverpool & Manchester Railway	Preserved
163m N	Liverpool & Manchester Railway	Preserved
167m N	Liverpool & Manchester Railway	Preserved
168m N	Not given	Preserved
170m N	Liverpool & Manchester Railway	Preserved



Location	Name	Type
177m N	Liverpool & Manchester Railway	Preserved
184m N	Liverpool & Manchester Railway	Preserved
195m N	Liverpool & Manchester Railway	Preserved
200m NW	Not given	Multi Track
225m NW	Ordsall Chord	rail
227m NW	Ordsall Chord	rail
233m SW	Not given	Multi Track
240m NW	Liverpool & Manchester Railway	Preserved
242m NW	Liverpool & Manchester Railway	Preserved

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: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: County Series

Map date: 1848

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1845
Revised N/A
Edition 1848
Copyright N/A
Levelled N/A

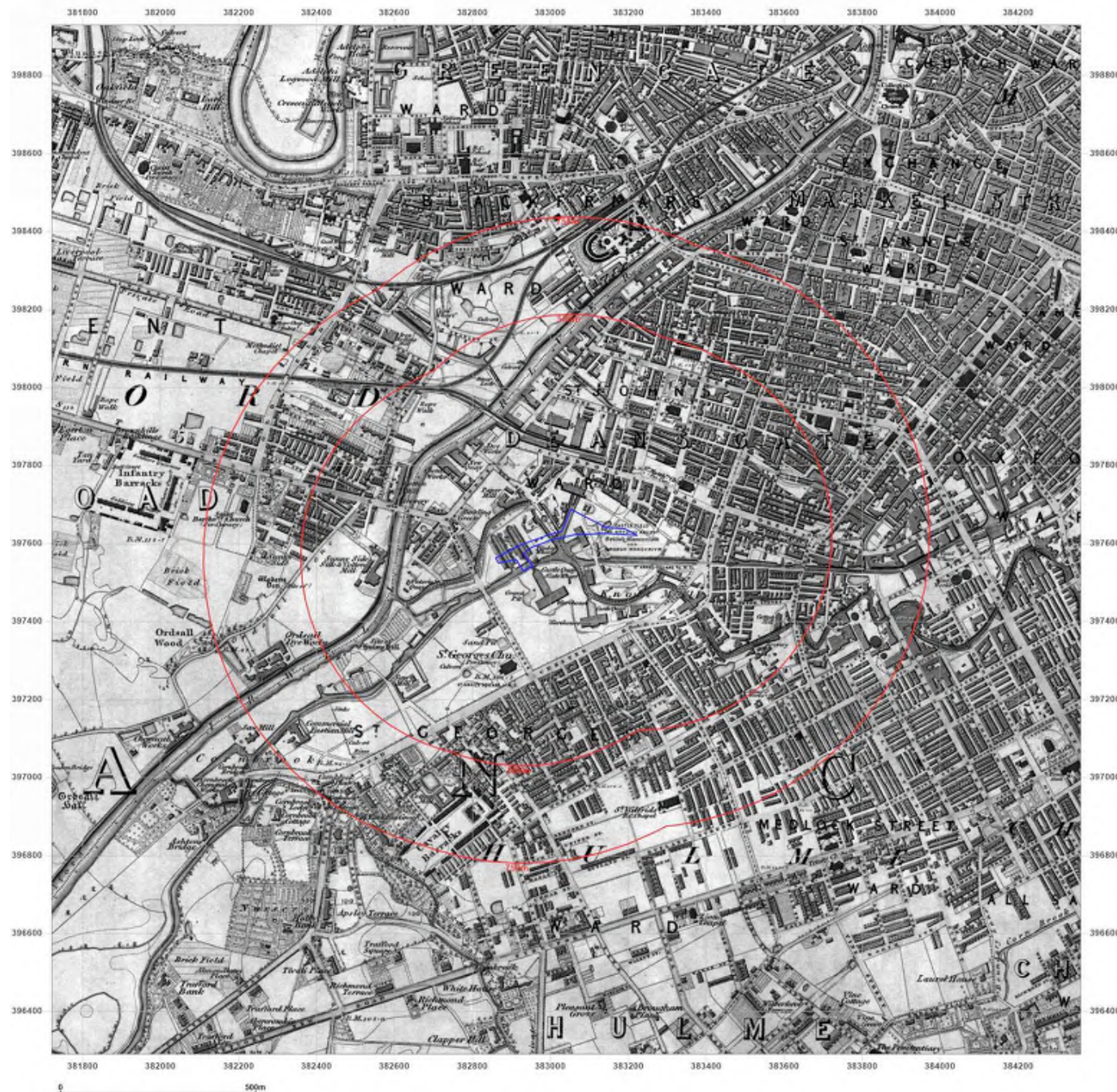


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Client Ref: PC2387-101-100
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Grid Ref: 383040, 397609

Map Name: County Series

Map date: 1905-1906

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1906
Edition 1906
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Surveyed 1844
Revised 1905
Edition 1905
Copyright N/A
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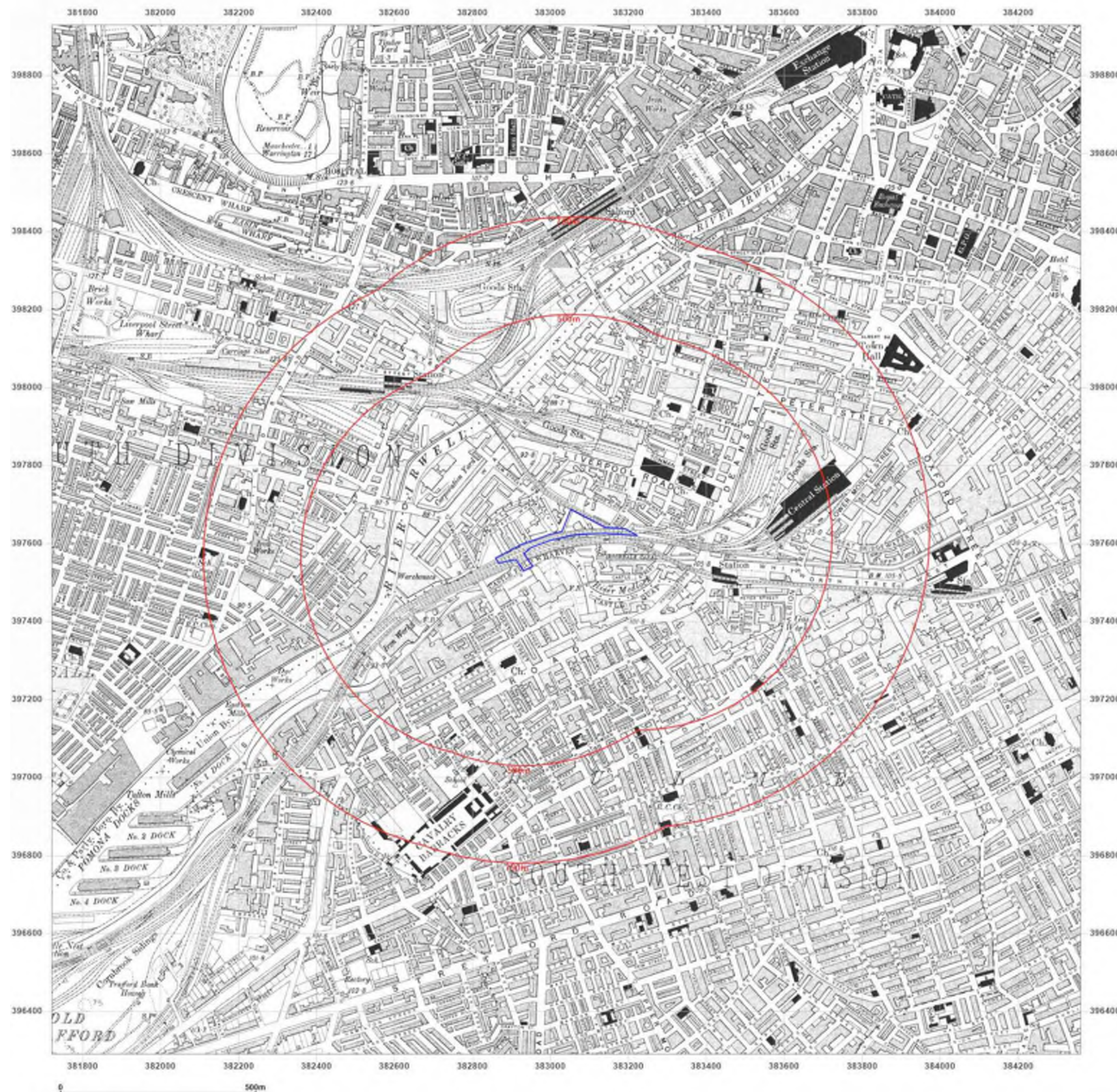


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Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: County Series

Map date: 1923

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915

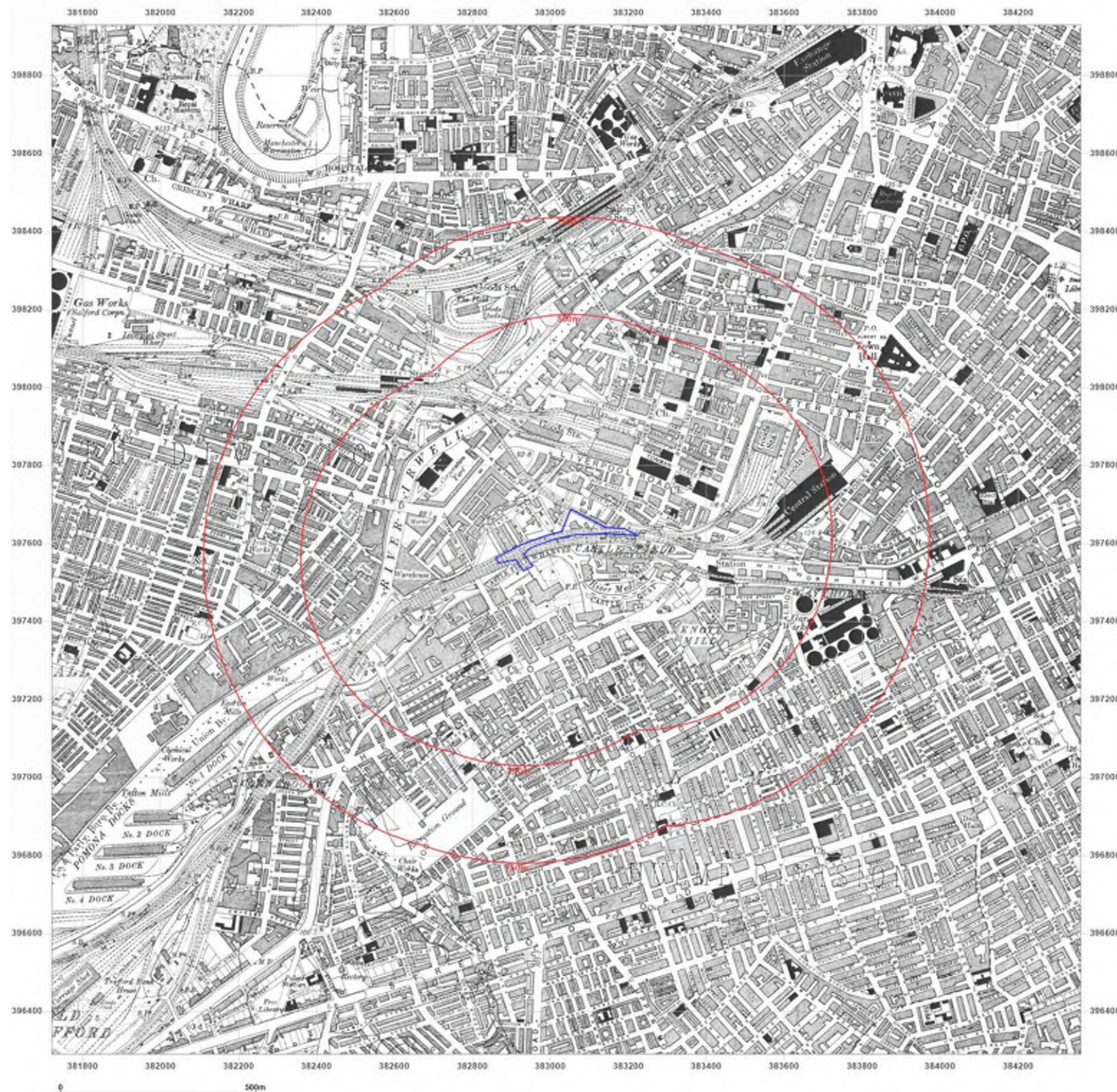


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Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: County Series

Map date: 1923

Scale: 1:10,560

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Surveyed 1844
Revised 1916
Edition 1923
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Levelled 1915

Surveyed 1844
Revised 1916
Edition 1923
Copyright N/A
Levelled 1915

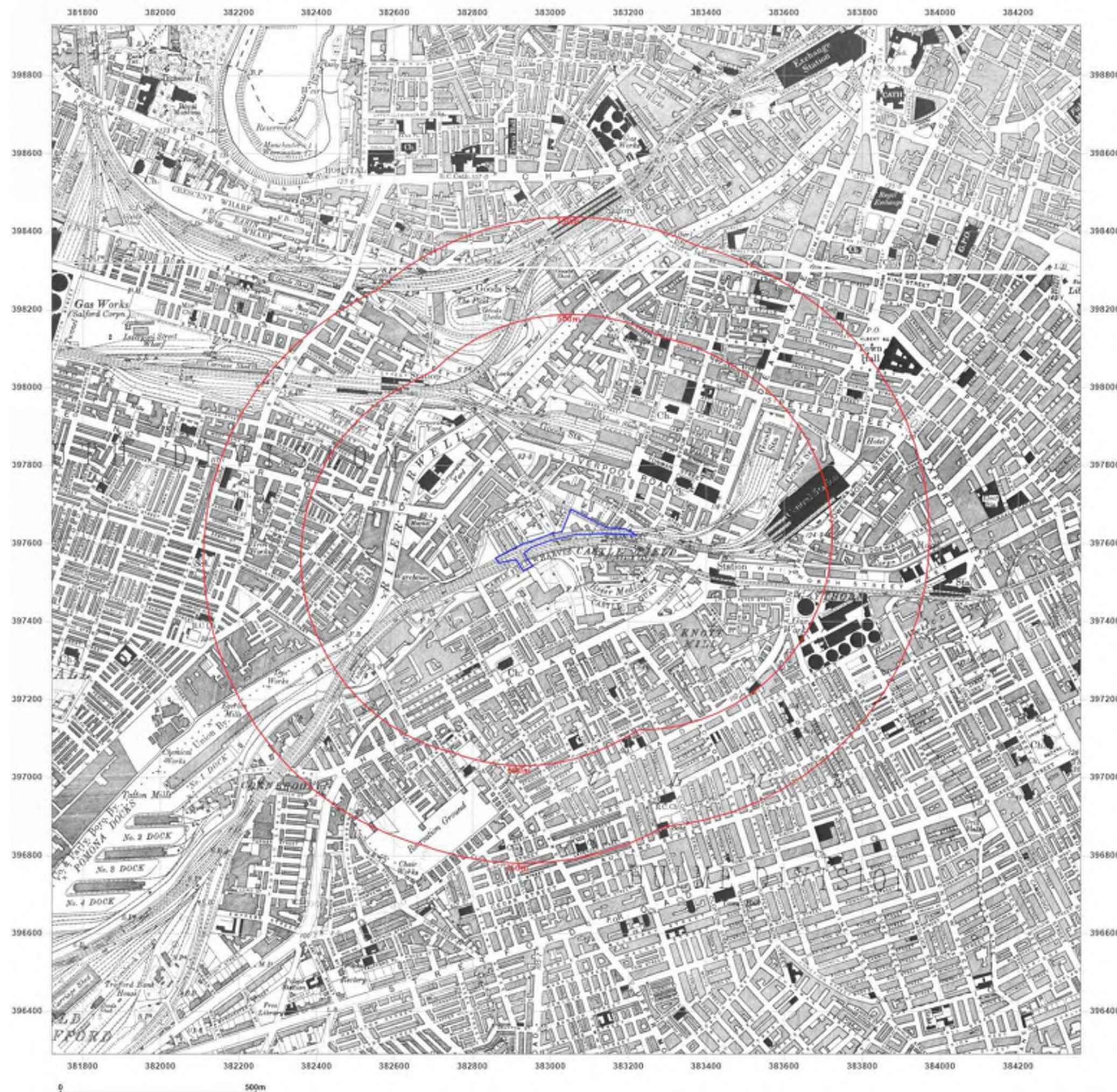


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Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: County Series

Map date: 1931-1932

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1931
Edition 1931
Copyright N/A
Levelled 1927

Surveyed 1844
Revised 1932
Edition 1932
Copyright N/A
Levelled 1927

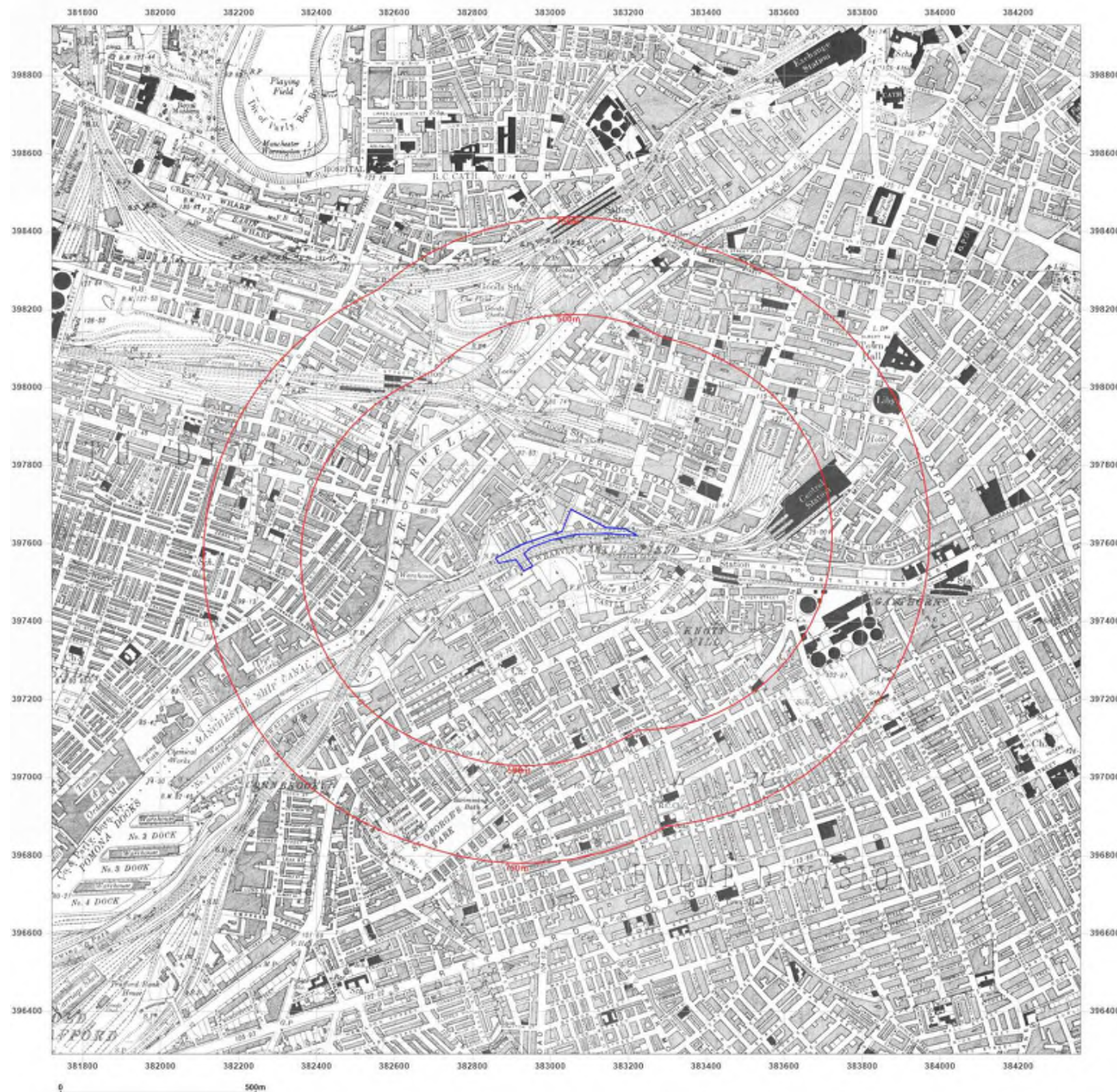


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Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: County Series

Map date: 1938

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1844
Revised 1938
Edition 1938
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Levelled 1927

Surveyed 1844
Revised 1938
Edition 1938
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Levelled 1927

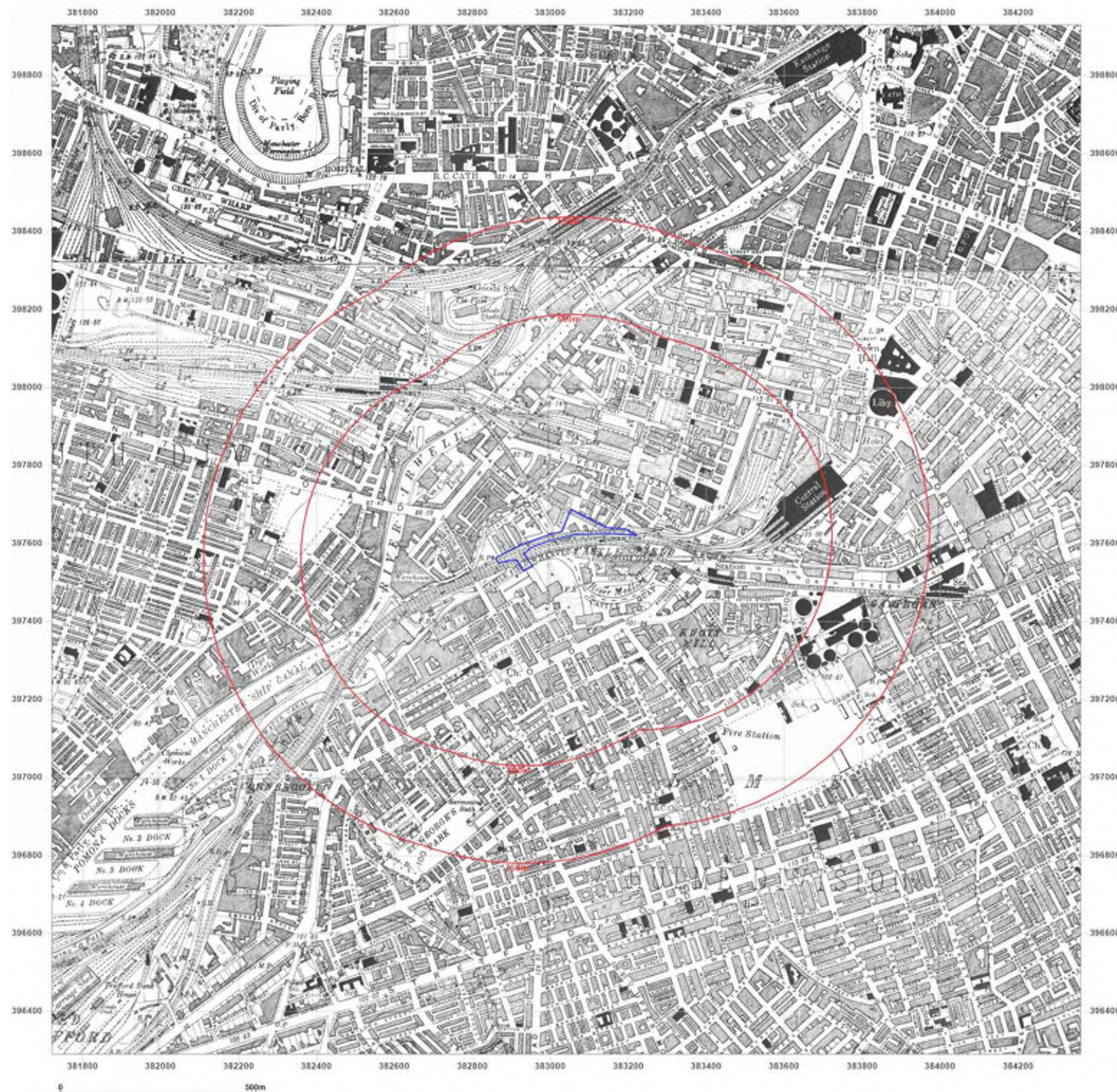


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Client Ref: PC2387-101-100
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Grid Ref: 383040, 397609

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1956
Revised 1956
Edition N/A
Copyright 1956
Levelled N/A

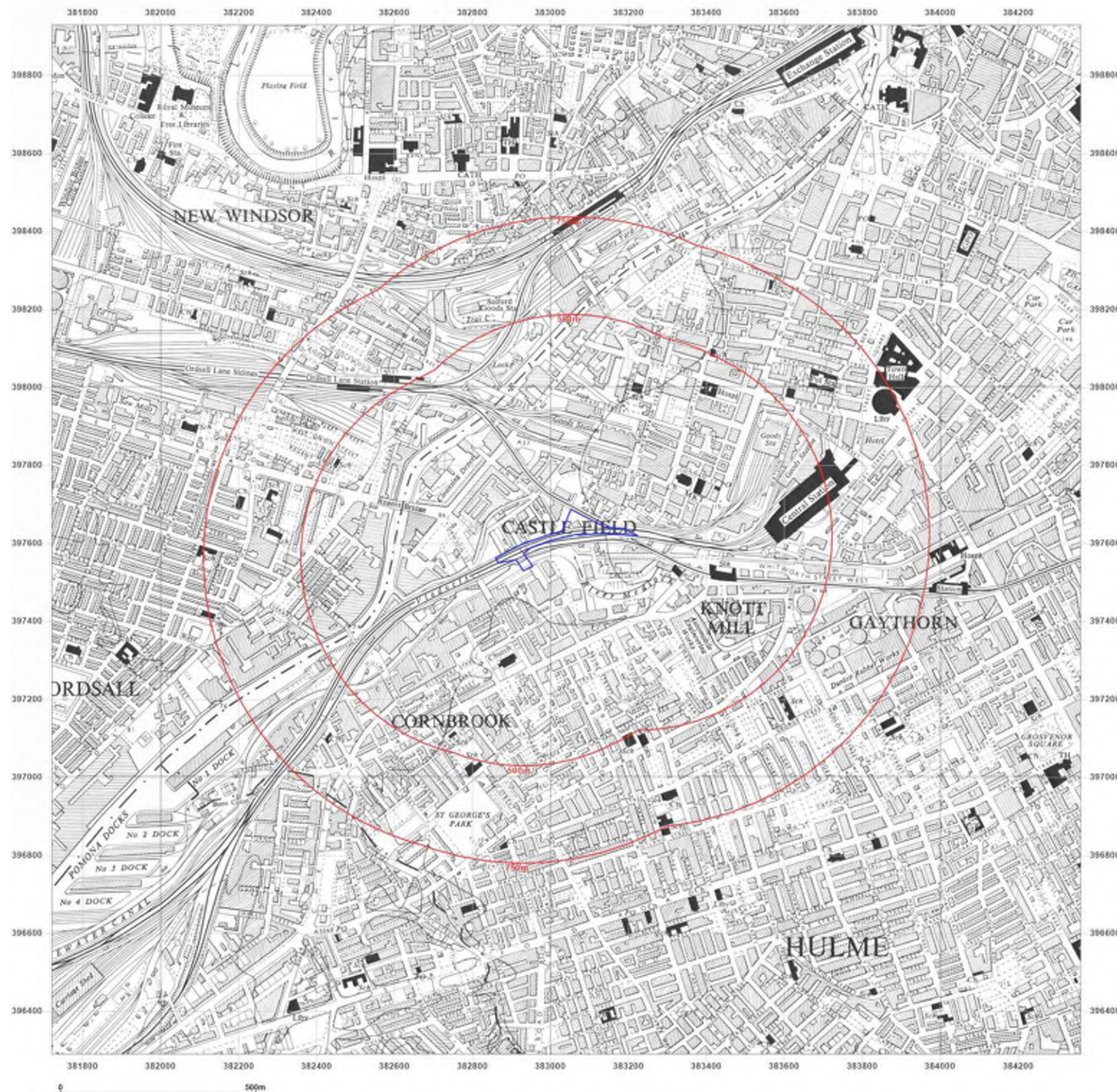


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Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 1972

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1971
Revised 1972
Edition N/A
Copyright 1972
Levelled 1972

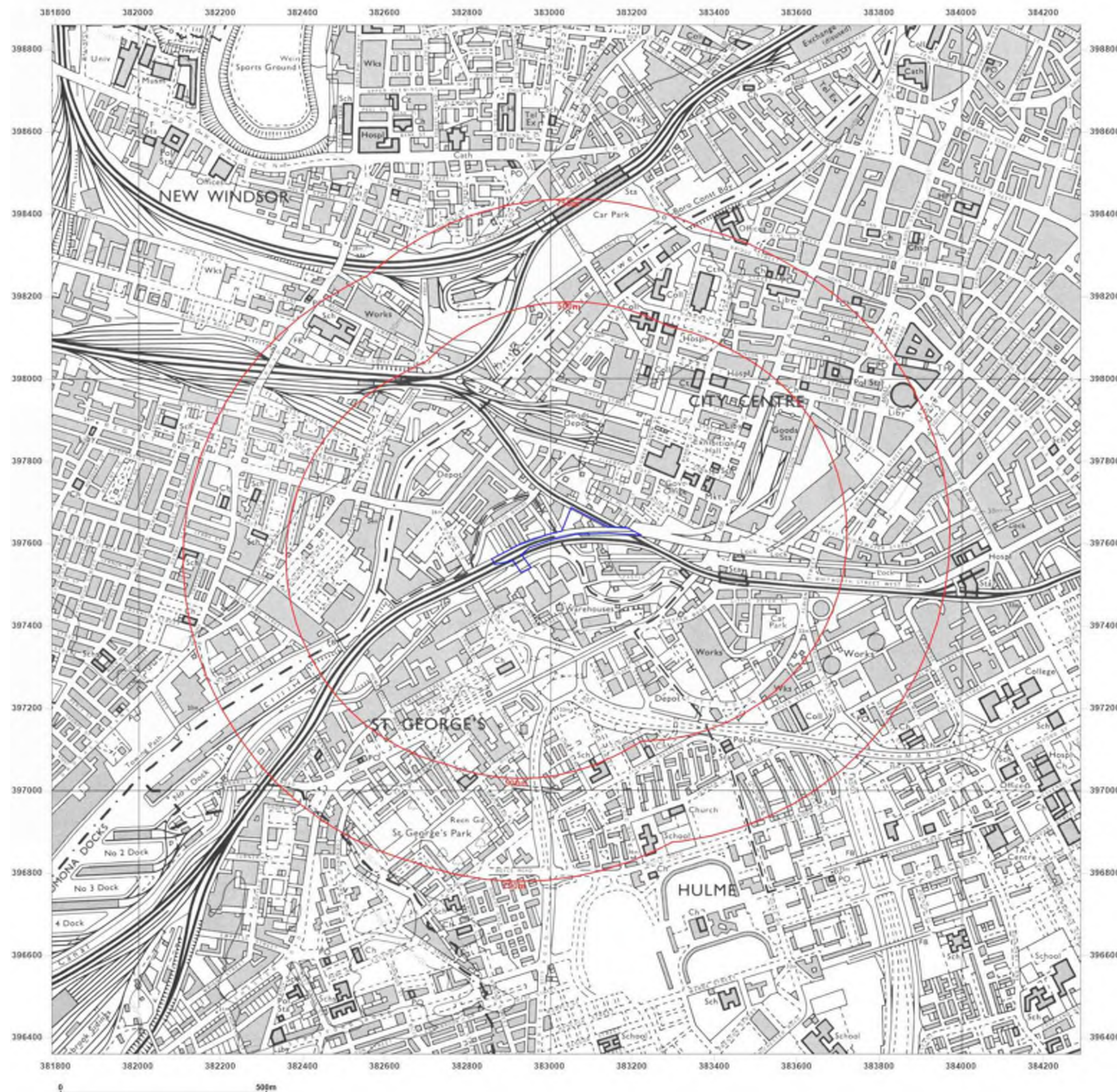


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Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 1980

Scale: 1:10,000

Printed at: 1:10,000



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

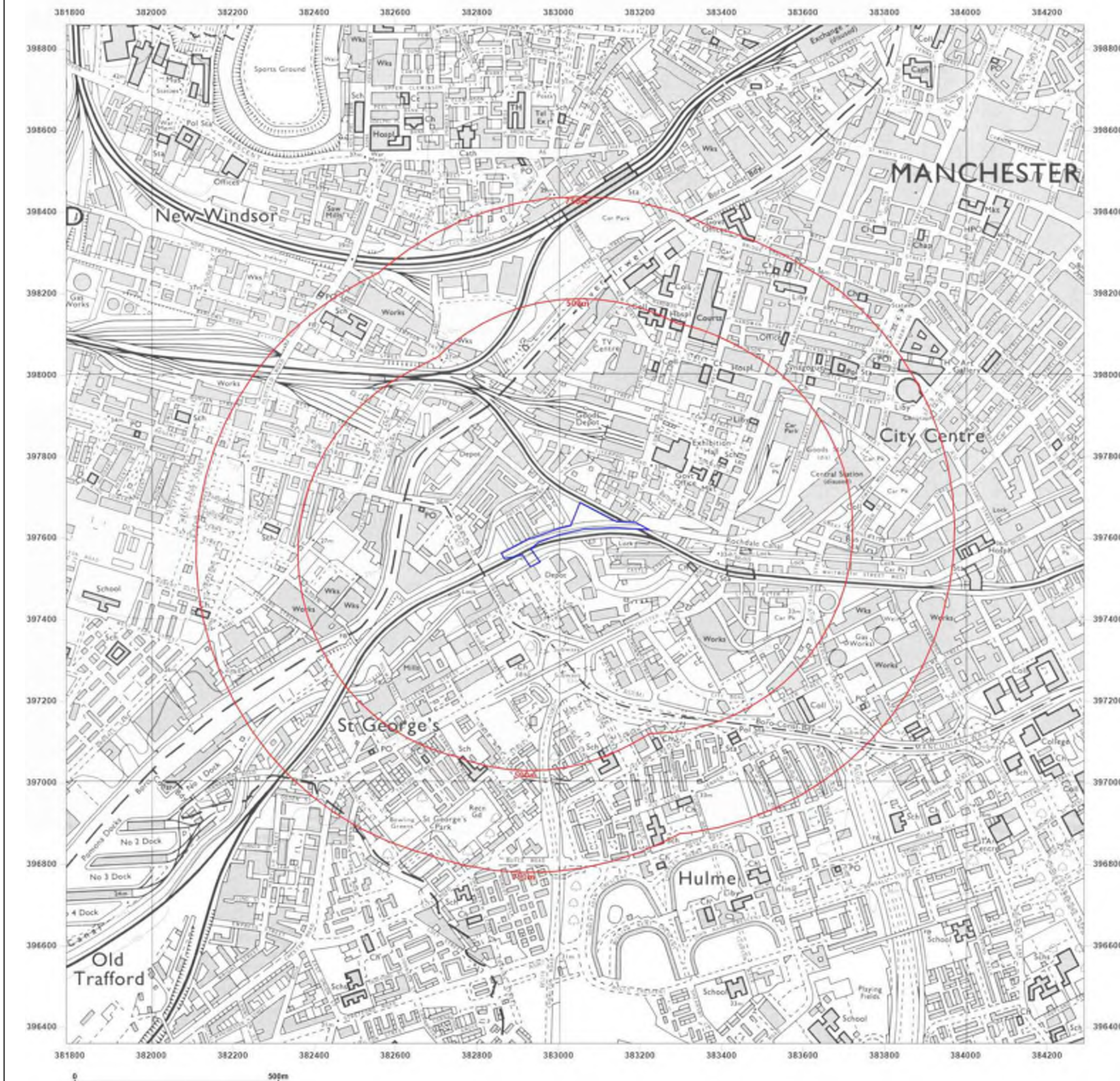


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Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 1985

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1983
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Edition N/A
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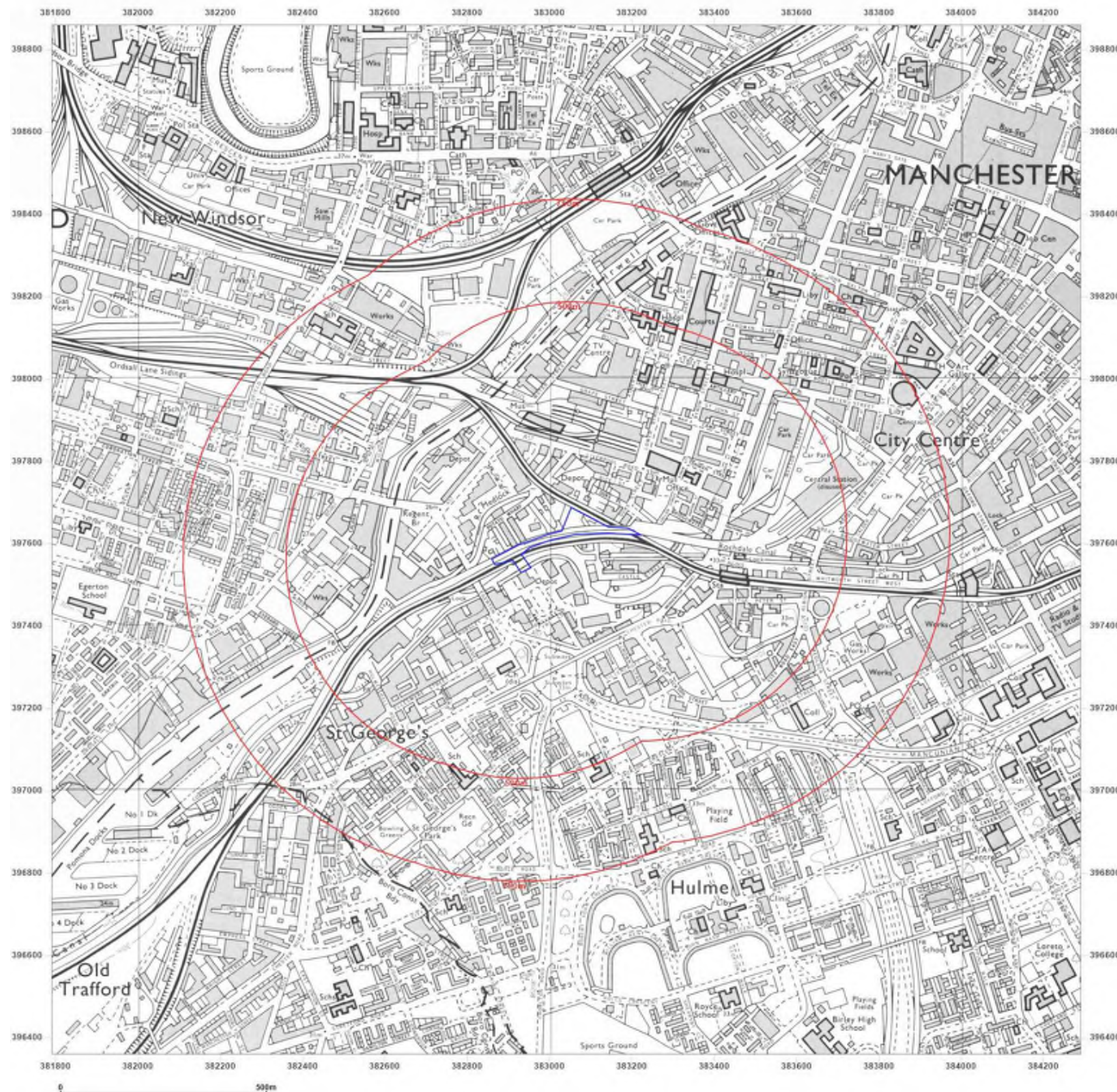


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4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 1988

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1986
Revised 1988
Edition N/A
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4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 1994

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1986
Revised 1994
Edition N/A
Copyright 1994
Levelled 1981

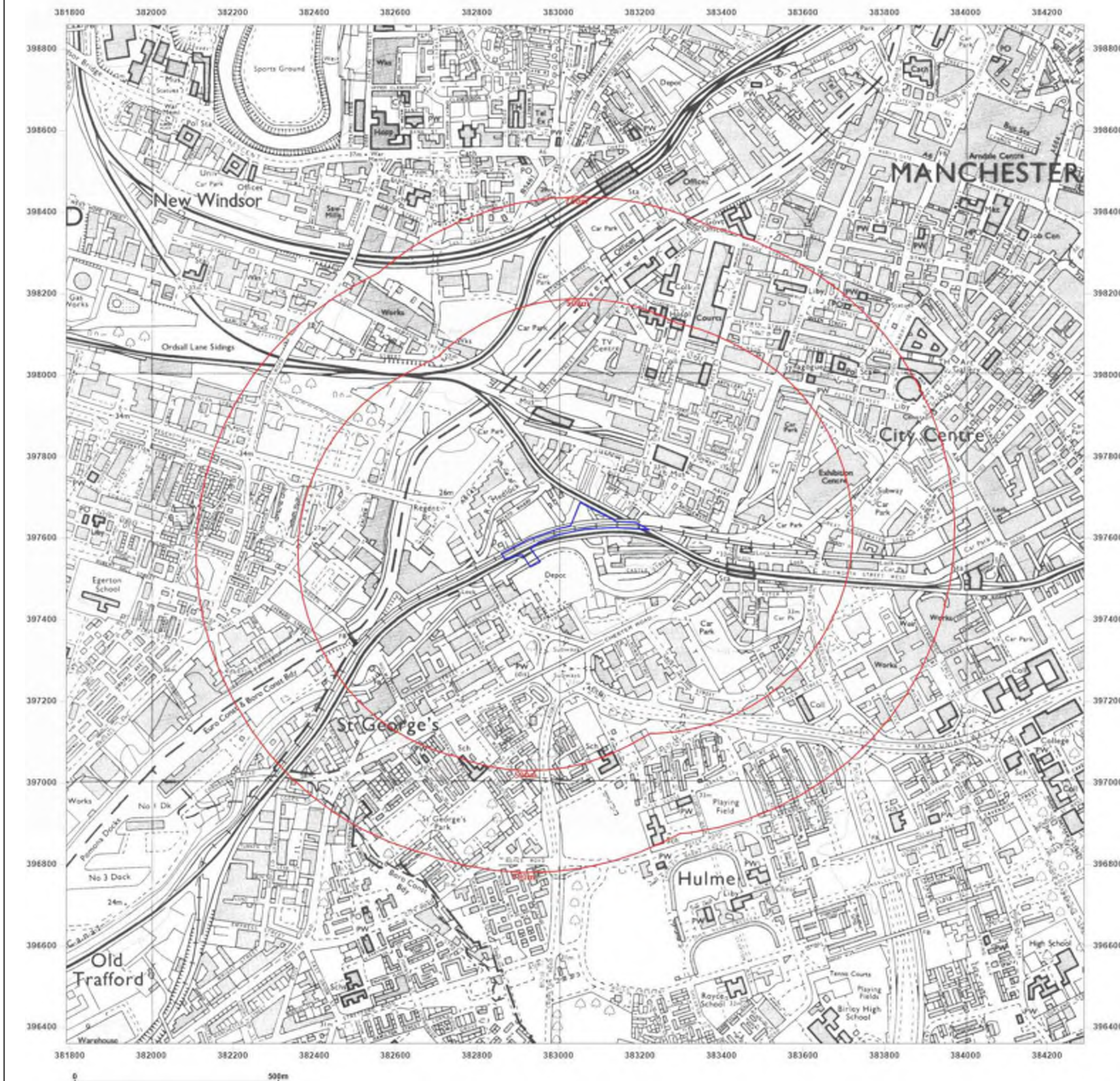


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LAND FOR CAR PARK, POTATO WHARF, MANCHESTER, M3 4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000



2001



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Site Details:

LAND FOR CAR PARK, POTATO WHARF, MANCHESTER, M3 4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000



2010



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Site Details:

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Client Ref: PC2387-101-100
Report Ref: GS-7712230
Grid Ref: 383040, 397609

Map Name: National Grid

Map date: 2021

Scale: 1:10,000

Printed at: 1:10,000



2021

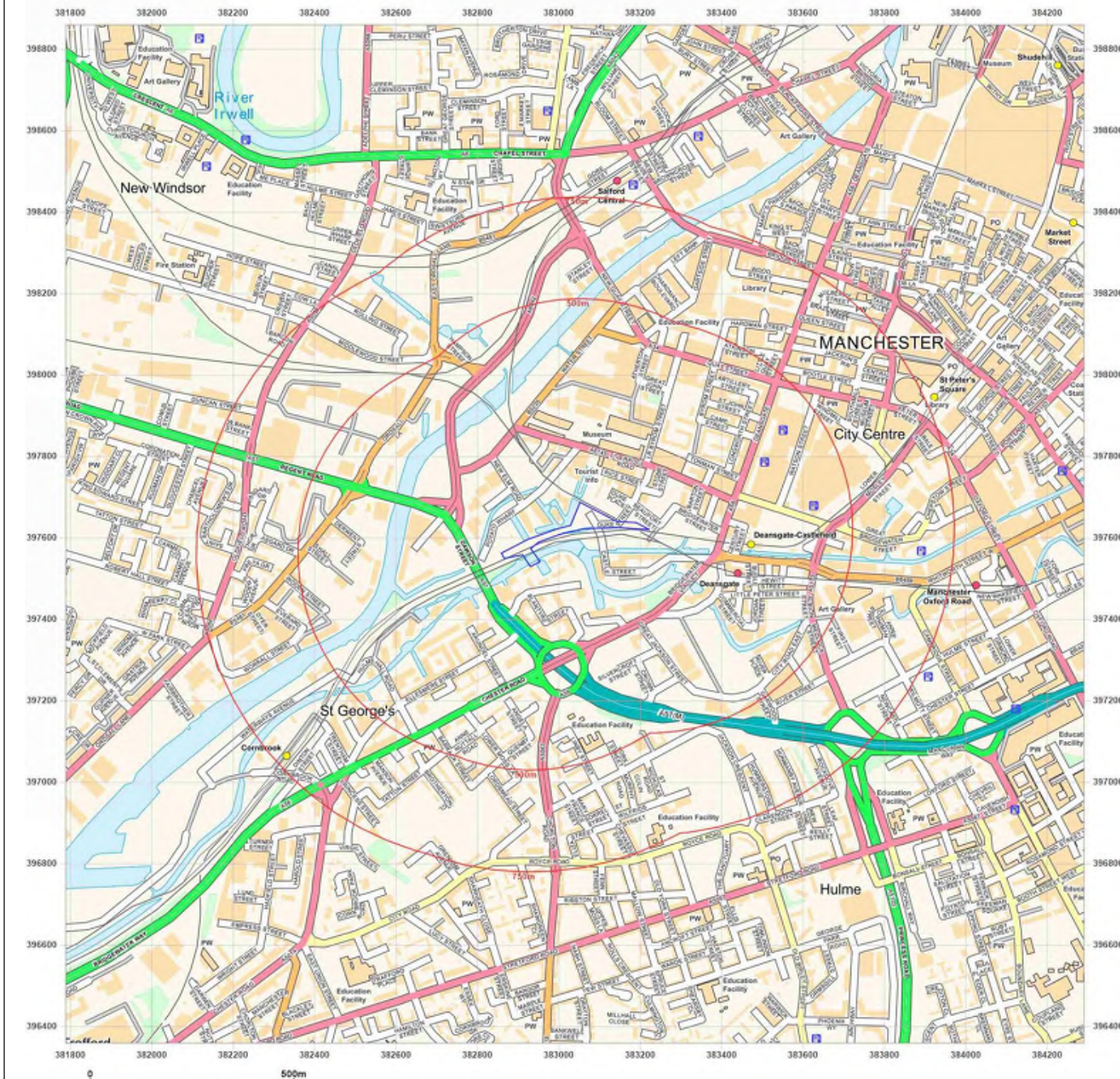


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Site Details:

LAND FOR CAR PARK, POTATO
WHARF, MANCHESTER, M3
4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230_2500
Grid Ref: 383039, 397608

Map Name: County Series Town Plan

Map date: 1891

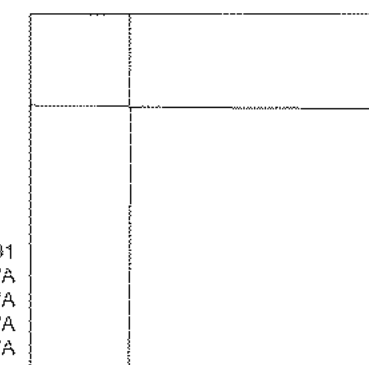
Scale: 1:500

Printed at: 1:1,000



Surveyed 1891.
Revised N/A
Edition N/A
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Site Details:

LAND FOR CAR PARK, POTATO
WHARF, MANCHESTER, M3
4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230_2500
Grid Ref: 383039, 397608

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1893
Revised N/A
Edition 1893
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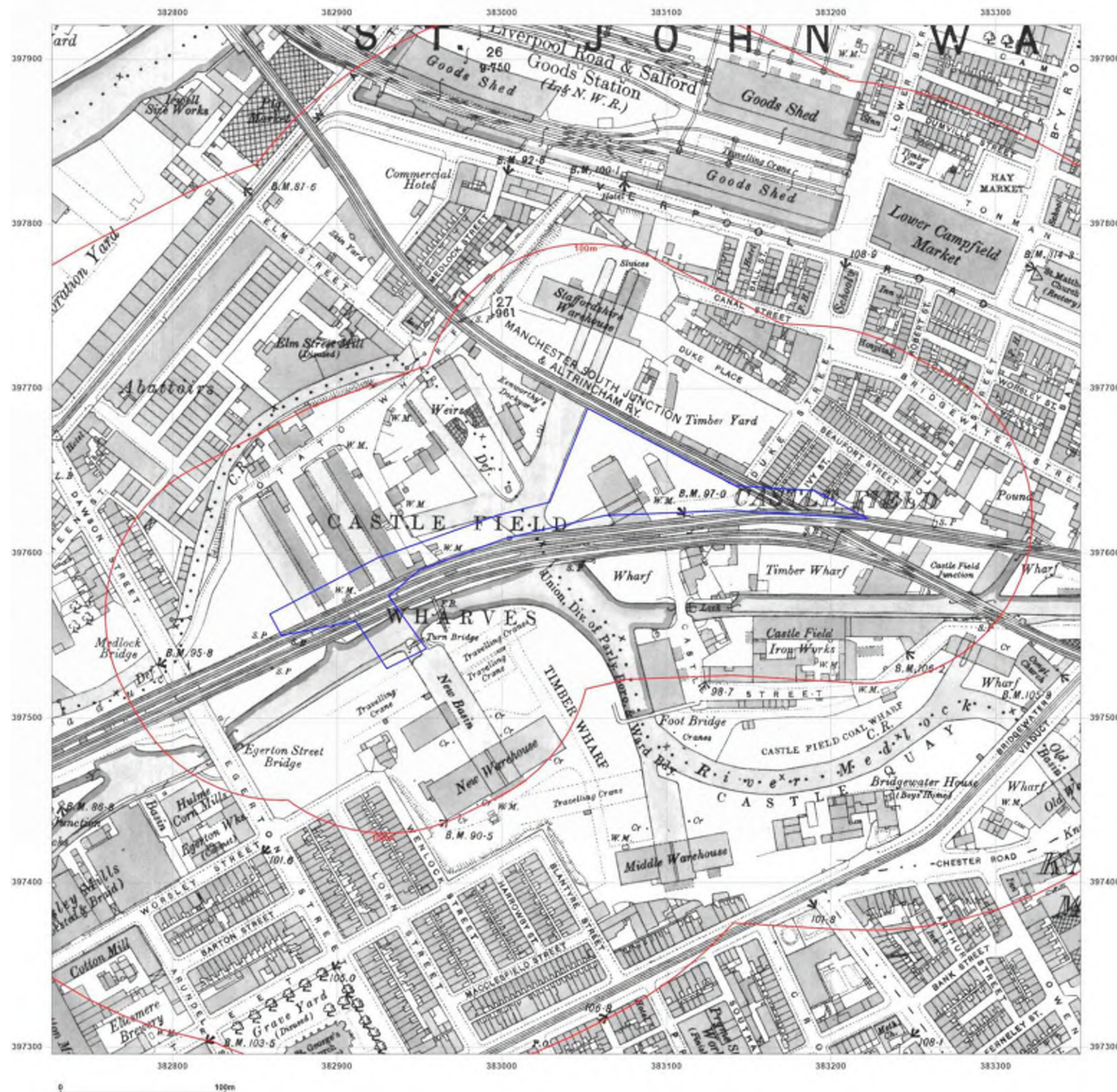


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Site Details:

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4JR

Client Ref: PC2387-101-100
Report Ref: GS-7712230_2500
Grid Ref: 383039, 397608

Map Name: County Series

Map date: 1908

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1891
Revised 1905
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Site Details:

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Client Ref: PC2387-101-100
Report Ref: GS-7712230_2500
Grid Ref: 383039, 397608

Map Name: County Series

Map date: 1922

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1922
Revised 1916
Edition 1922
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Site Details:

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Client Ref: PC2387-101-100
Report Ref: GS-7712230_2500
Grid Ref: 383039, 397608

Map Name: County Series

Map date: 1932

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1873
Revised 1932
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