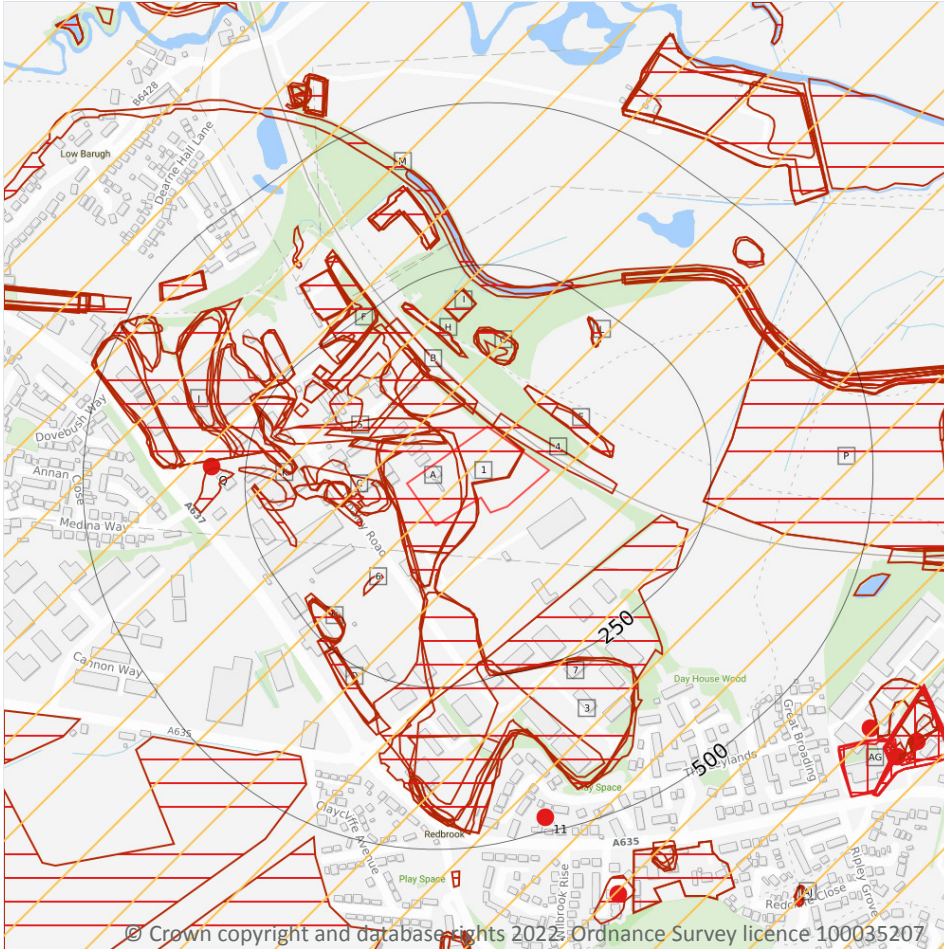


18 Mining, ground workings and natural cavities



- 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

2

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 108**

ID	Location	Details	Description
Q	303m W	Name: Clay Cliff Quarry Address: Barugh, BARNESLEY, South Yorkshire Commodity: Sandstone Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority
11	477m S	Name: Whalley Road OCCS Address: Gawber, BARNESLEY, South Yorkshire Commodity: Coal, Surface Mined Status: Ceased	Type: A surface mineral working. It may be termed Quarry, Sand Pit, Clay Pit or Opencast Coal Site Status description: Site which, at date of entry, has ceased to extract minerals. May be considered as Closed by operator. May be considered to have Active, Dormant or Expired planning permissions by Mineral Planning Authority

This data is sourced from the British Geological Survey.

18.3 Surface ground workings

Records within 250m

71

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 108**

ID	Location	Land Use	Year of mapping	Mapping scale
2	On site	Unspecified Disused Tip	1973	1:10000
3	On site	Refuse Heap	1966	1:10560
A	On site	Refuse Heap	1948	1:10560
A	On site	Refuse Heap	1948	1:10560
A	On site	Refuse Heap	1951	1:10560
4	7m NE	Cuttings	1850	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	29m NW	Cuttings	1993	1:10000
C	33m SW	Unspecified Pit	1973	1:10000
C	36m W	Pond	1966	1:10560
D	41m S	Unspecified Disused Tip	1973	1:10000
5	44m NW	Refuse Heap	1951	1:10560
B	48m NW	Pond	1951	1:10560
B	49m NW	Pond	1948	1:10560
E	69m NE	Refuse Heap	1948	1:10560
E	69m NE	Refuse Heap	1948	1:10560
E	70m NE	Cuttings	1929	1:10560
C	71m W	Ponds	1929	1:10560
C	87m W	Refuse Heap	1929	1:10560
C	89m W	Refuse Heap	1948	1:10560
C	89m W	Refuse Heap	1948	1:10560
F	91m NW	Refuse Heaps	1929	1:10560
C	92m W	Refuse Heap	1951	1:10560
G	99m N	Refuse Heap	1948	1:10560
G	99m N	Refuse Heap	1948	1:10560
G	99m N	Refuse Heap	1951	1:10560
D	104m S	Unspecified Disused Tip	1982	1:10000
G	104m N	Refuse Heap	1929	1:10560
H	112m N	Refuse Heap	1929	1:10560
6	114m SW	Refuse Heap	1929	1:10560
F	118m NW	Refuse Heap	1929	1:10560
H	120m N	Refuse Heap	1948	1:10560
H	120m N	Refuse Heap	1948	1:10560
7	160m SE	Unspecified Disused Workings	1993	1:10000
I	168m N	Ponds	1929	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
I	169m N	Ponds	1948	1:10560
J	171m W	Refuse Heaps	1948	1:10560
J	171m W	Refuse Heaps	1948	1:10560
K	172m W	Refuse Heap	1973	1:10000
F	175m W	Refuse Heap	1929	1:10560
F	177m W	Refuse Heaps	1951	1:10560
F	183m W	Refuse Heap	1973	1:10000
F	185m NW	Ponds	1929	1:10560
F	185m NW	Ponds	1948	1:10560
F	190m NW	Pond	1929	1:10560
F	191m NW	Pond	1973	1:10000
F	191m NW	Pond	1966	1:10560
K	192m SW	Unspecified Ground Workings	1966	1:10560
L	197m NE	Pond	1929	1:10560
L	199m NE	Pond	1948	1:10560
L	199m NE	Pond	1951	1:10560
M	202m N	Canal	1850	1:10560
N	203m SW	Refuse Heap	1966	1:10560
N	206m SW	Refuse Heap	1951	1:10560
M	209m N	Disused Canal	1993	1:10000
F	210m NW	Pond	1929	1:10560
N	210m SW	Refuse Heap	1948	1:10560
N	210m SW	Refuse Heap	1948	1:10560
N	212m SW	Refuse Heap	1929	1:10560
F	212m NW	Refuse Heap	1951	1:10560
F	212m NW	Ponds	1948	1:10560
F	213m NW	Ponds	1951	1:10560
F	214m NW	Ponds	1929	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
D	221m S	Refuse Heap	1951	1:10560
F	222m NW	Refuse Heap	1948	1:10560
F	222m NW	Refuse Heap	1948	1:10560
O	241m SW	Cuttings	1948	1:10560
O	243m SW	Cuttings	1951	1:10560
P	243m E	Opencast Workings	1973	1:10000
P	243m E	Open Workings	1966	1:10560
O	246m SW	Cuttings	1966	1:10560
O	248m SW	Cuttings	1929	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

13

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

Features are displayed on the Mining, ground workings and natural cavities map on **page 108**

ID	Location	Land Use	Year of mapping	Mapping scale
AG	618m SE	Unspecified Mine	1982	1:10000
AG	620m SE	Unspecified Mine	1966	1:10560
AG	623m SE	Unspecified Mine	1973	1:10000
AG	666m SE	Colliery	1951	1:10560
AG	666m SE	Colliery	1904	1:10560
AG	668m SE	Colliery	1948	1:10560
AG	702m SE	Unspecified Old Shafts	1951	1:10560
AG	705m SE	Unspecified Old Shafts	1951	1:10560
AG	705m SE	Unspecified Old Shafts	1948	1:10560
AG	709m SE	Unspecified Old Shafts	1948	1:10560
AJ	753m SE	Unspecified Shaft	1951	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
AJ	756m SE	Unspecified Shaft	1948	1:10560
-	800m N	Disused Colliery	1951	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

1

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).

Features are displayed on the Mining, ground workings and natural cavities map on **page 108**

ID	Location	Name	Commodity	Class	Likelihood
1	On site	Not available	Iron Ore (Bedded)	B	Localised small scale underground mining may have occurred. Potential for difficult ground conditions are unlikely or localised and are at a level where they need not be considered

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

0

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

This data is sourced from Stantec UK Ltd.



18.8 JPB mining areas

Records on site 0

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

This data is sourced from Johnson Poole and Bloomer.

18.9 Coal mining

Records on site 1

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

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

This data is sourced from the Coal Authority.

18.10 Brine areas

Records on site 0

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

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

18.11 Gypsum areas

Records on site 0

Generalised areas that may be affected by gypsum extraction.

This data is sourced from British Gypsum.

18.12 Tin mining

Records on site 0

Generalised areas that may be affected by historical tin mining.

This data is sourced from Groundsure.



18.13 Clay mining

Records on site

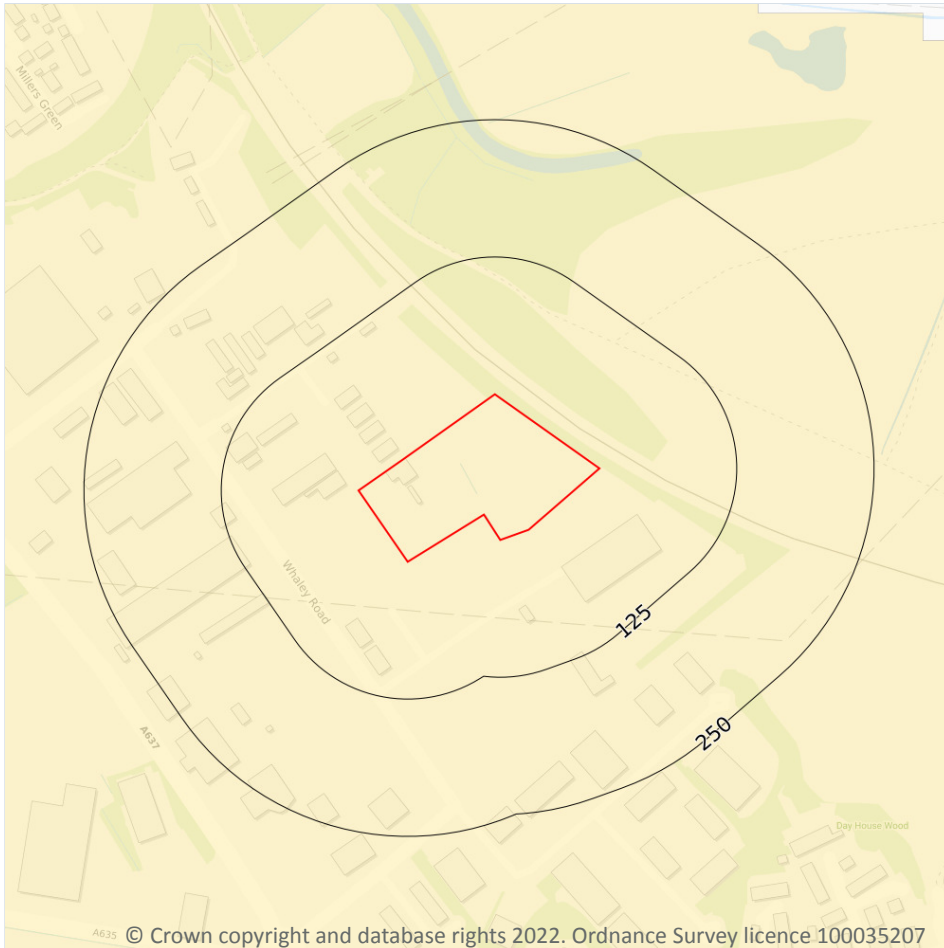
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Generalised areas that may be affected by kaolin and ball clay extraction.

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



19 Radon



— Site Outline
Search buffers in metres (m)

- Greater than 30%
- Between 10% and 30%
- Between 5% and 10%
- Between 3% and 5%
- Between 1% and 3%
- Less than 1%

19.1 Radon

Records on site

1

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

Features are displayed on the Radon map on **page 116**

Location	Estimated properties affected	Radon Protection Measures required
On site	Between 1% and 3%	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

1

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	90 - 120 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

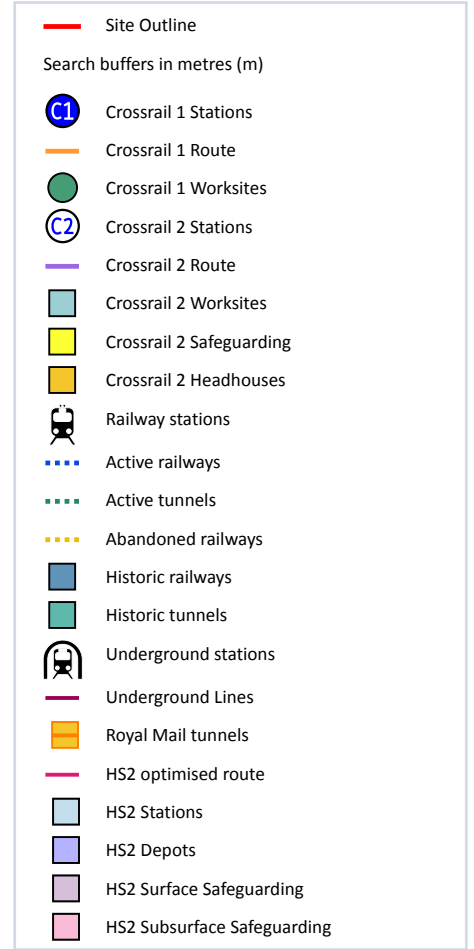
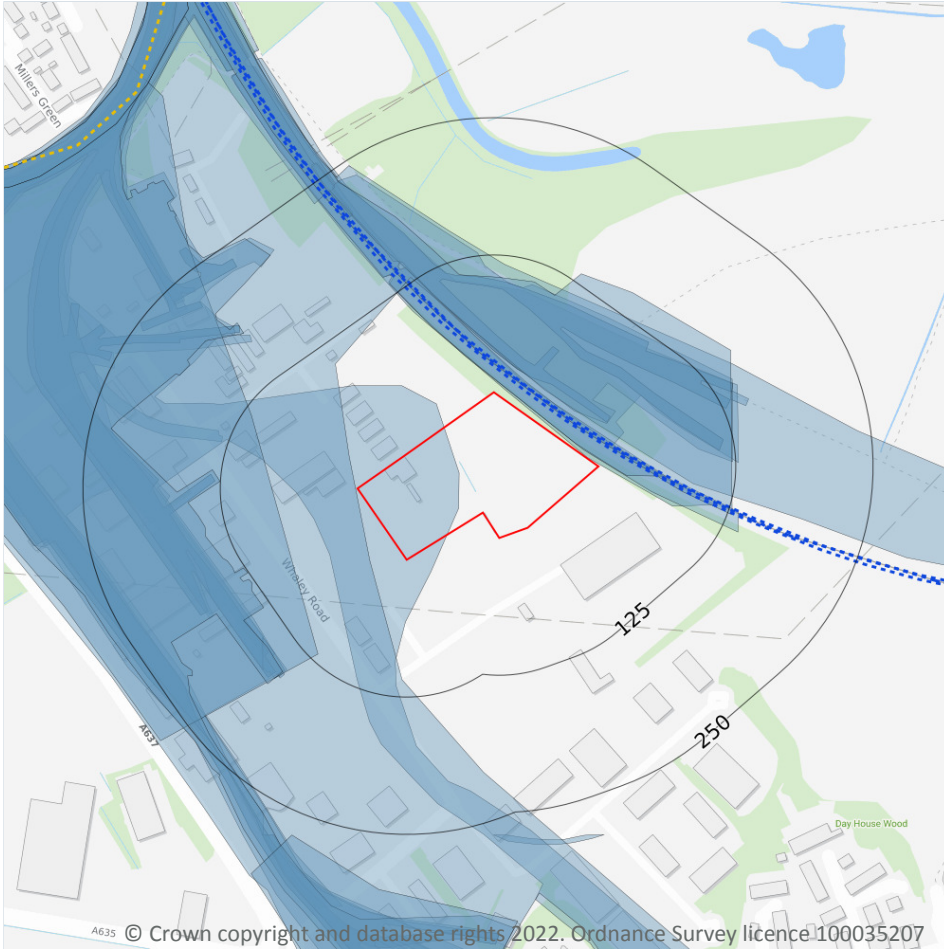
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The locations and measured total concentrations (mg/kg) of Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Tin and Zinc in urban topsoil samples from 23 urban centres across Great Britain. These are collected at a sample density of 4 per km².

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



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

17

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 118**

Location	Land Use	Year of mapping	Mapping scale
On site	Railway Sidings	1948	10560
1m NE	Railway	1931	-
2m W	Railway Sidings	1951	10560
5m NE	Railway	1906	-
5m NE	Railway	1891	-
18m NE	Railway Sidings	1929	10560
30m NE	Railway Sidings	1938	10560
75m W	Railway Sidings	1966	10560
125m W	Railway Sidings	1929	10560
130m W	Railway Sidings	1938	10560
131m W	Railway Sidings	1961	2500
135m NE	Railway Sidings	1929	10560
147m SW	Railway Sidings	1961	2500
206m NW	Railway Sidings	1986	2500
206m NW	Railway Sidings	1987	2500
208m NW	Railway Sidings	1978	2500
235m NW	Railway Sidings	1961	2500



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

7

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 118**

Location	Name	Type
17m NE	Hallam Line	rail
19m NE	Not given	Multi Track
21m NE	Hallam Line	rail
148m E	Not given	Multi Track
163m E	Not given	Multi Track
184m E	Not given	Multi Track
189m E	Not given	Multi Track

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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Appendix P – Revised Groundsure Maps

Site Details:

WHALEY ROAD, BARUGH,
BARNSELY, S75 1HT

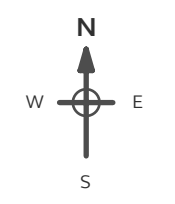
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Map Name: County Series

Map date: 1850-1854

Scale: 1:10,560

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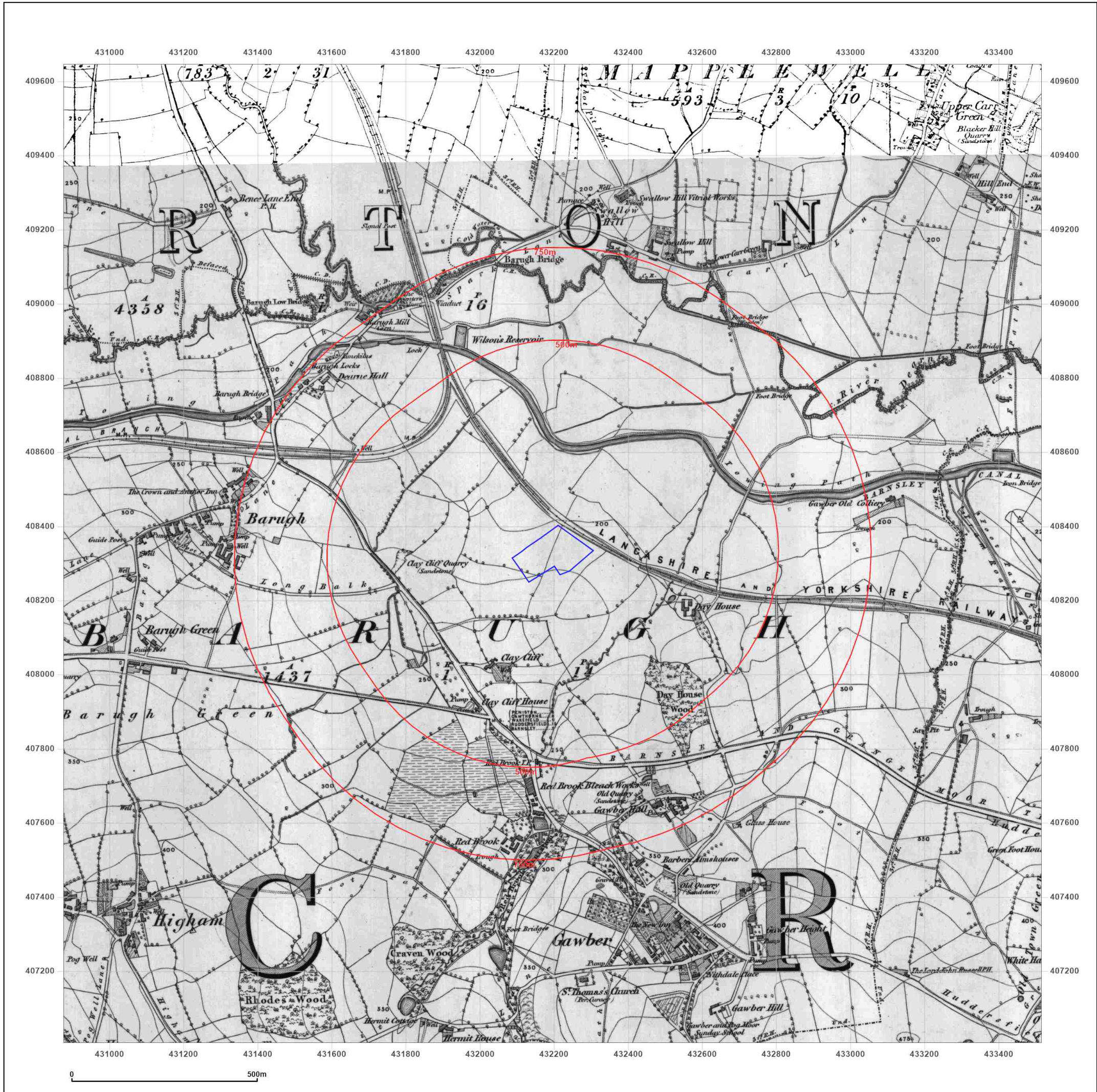


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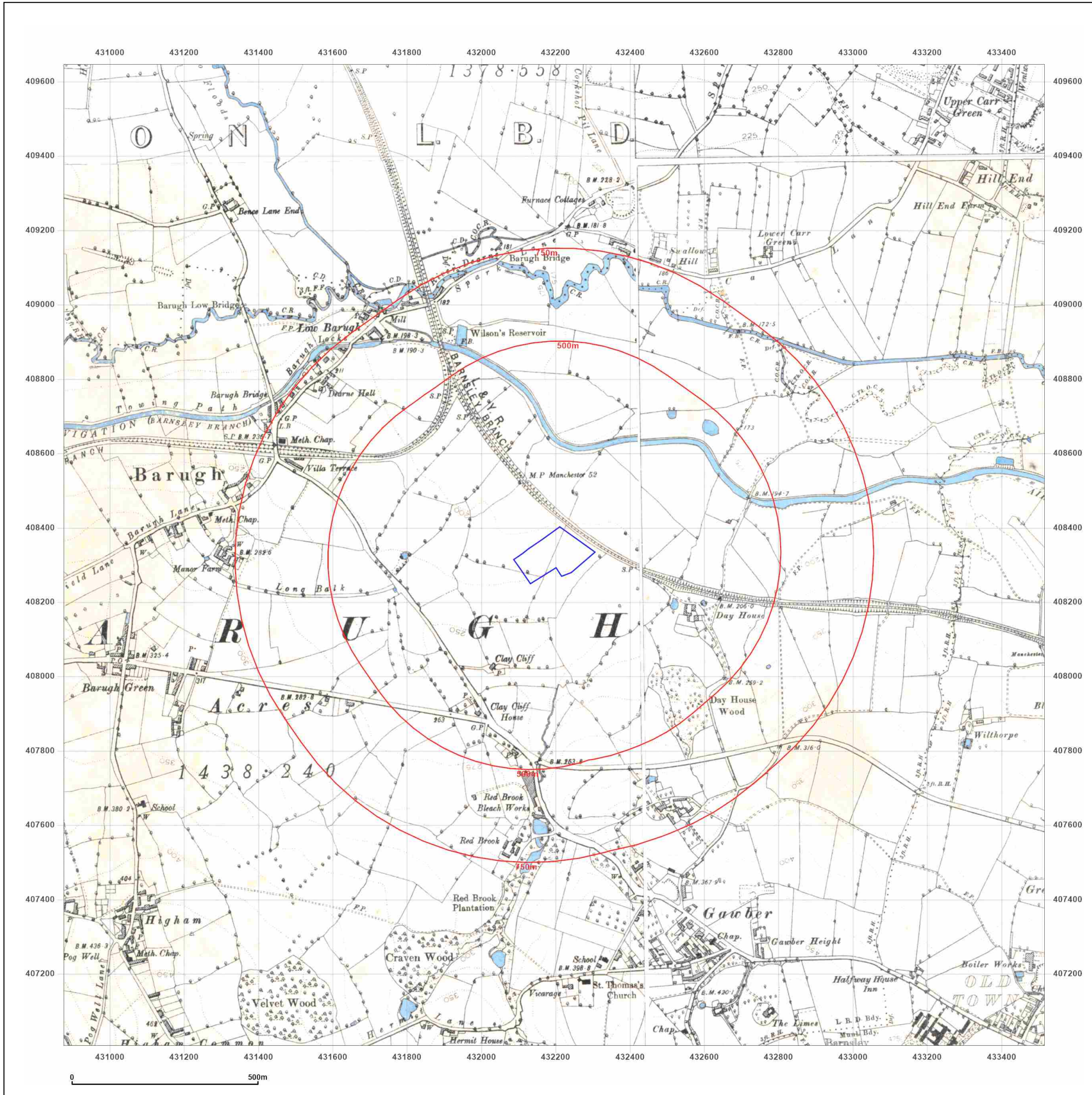
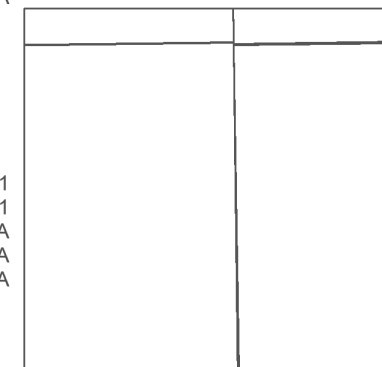


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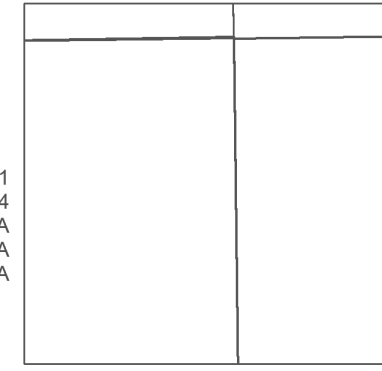
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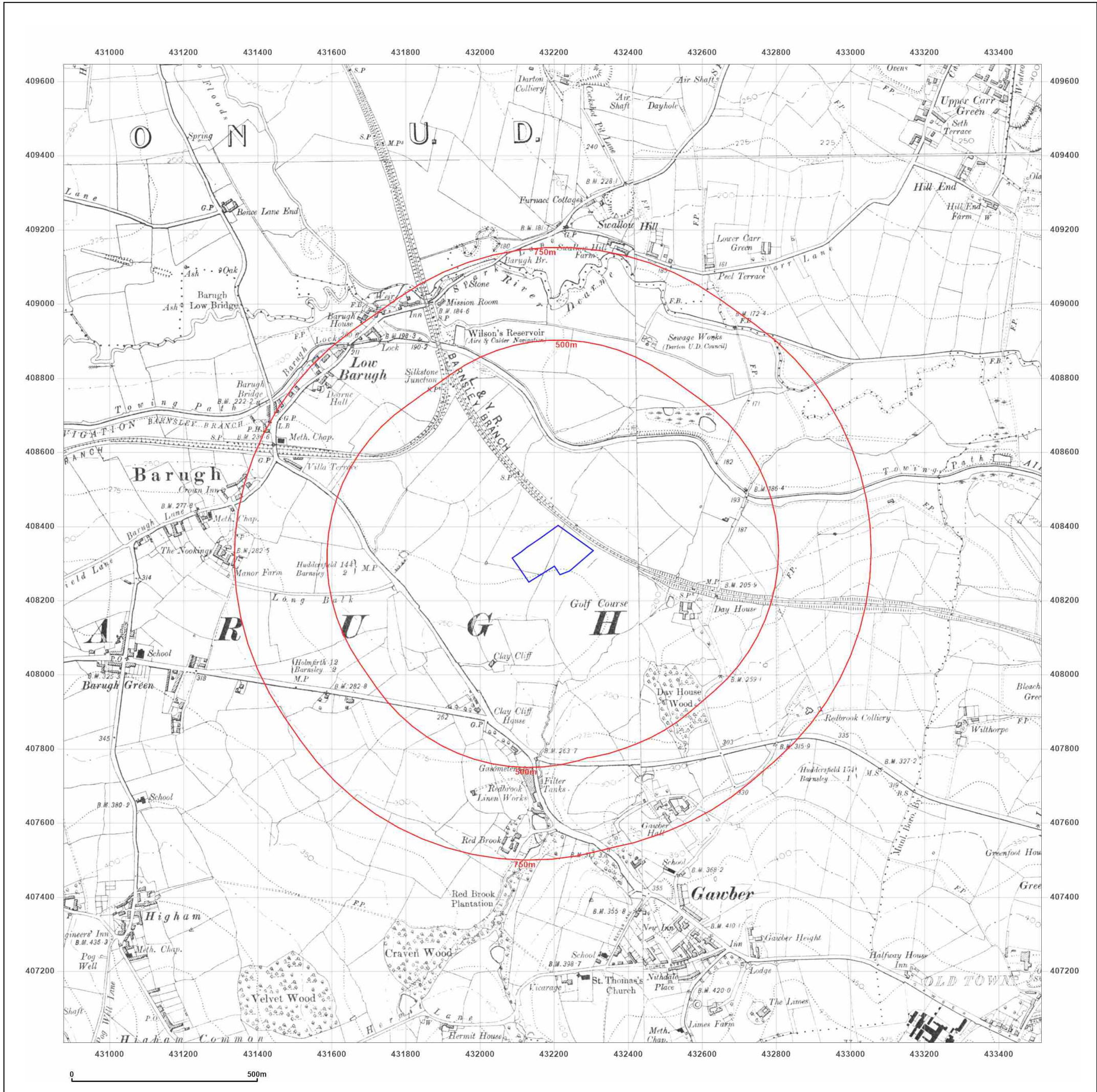


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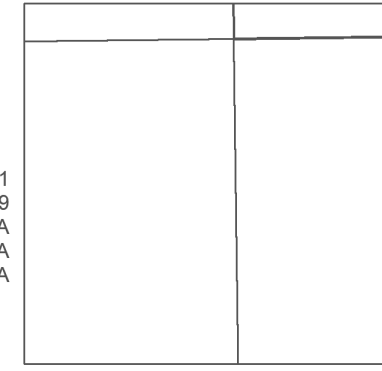
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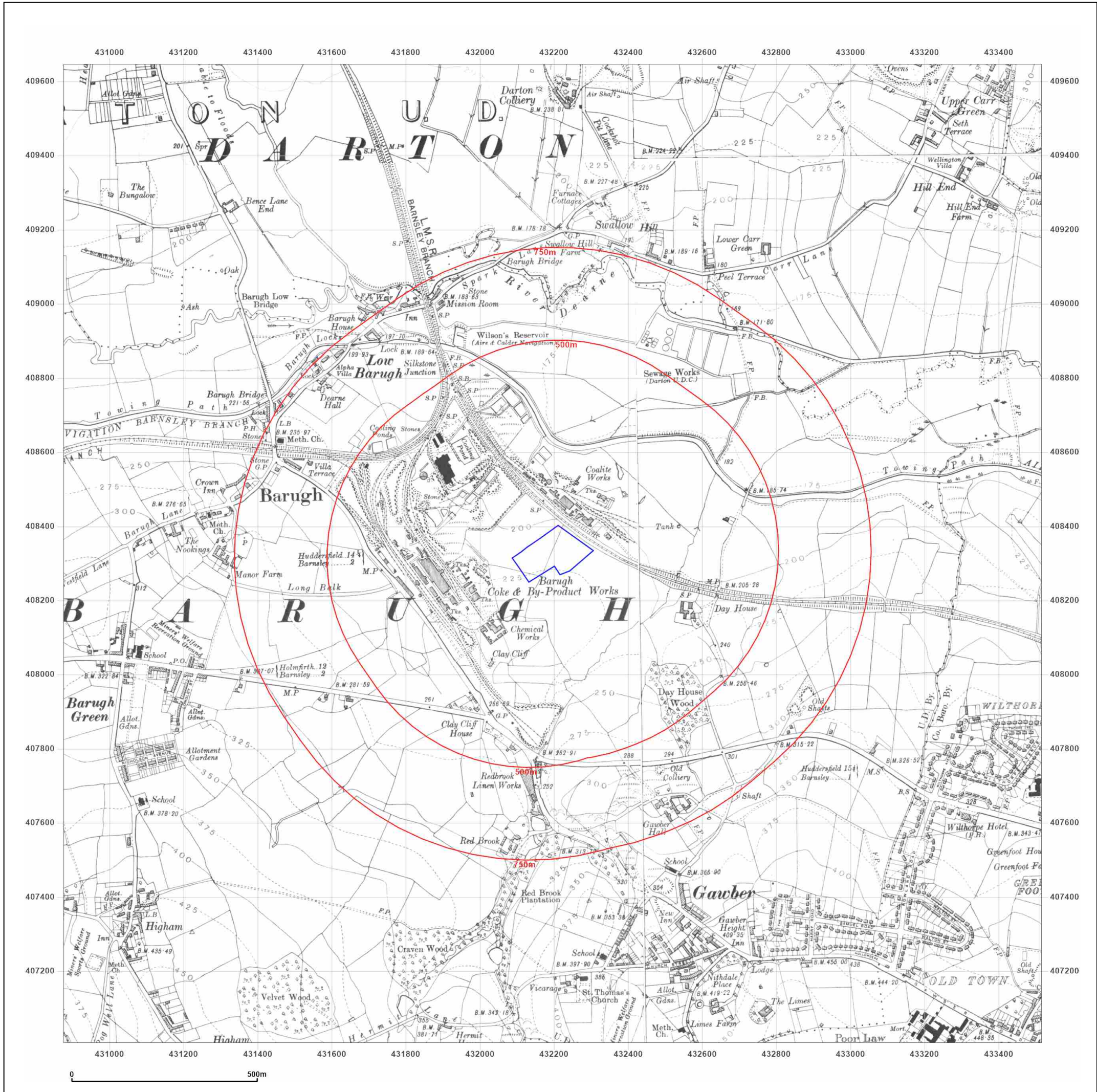


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Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: County Series

Map date: 1938

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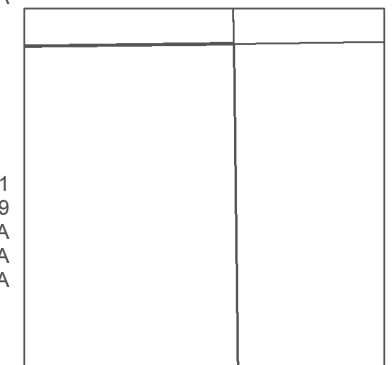


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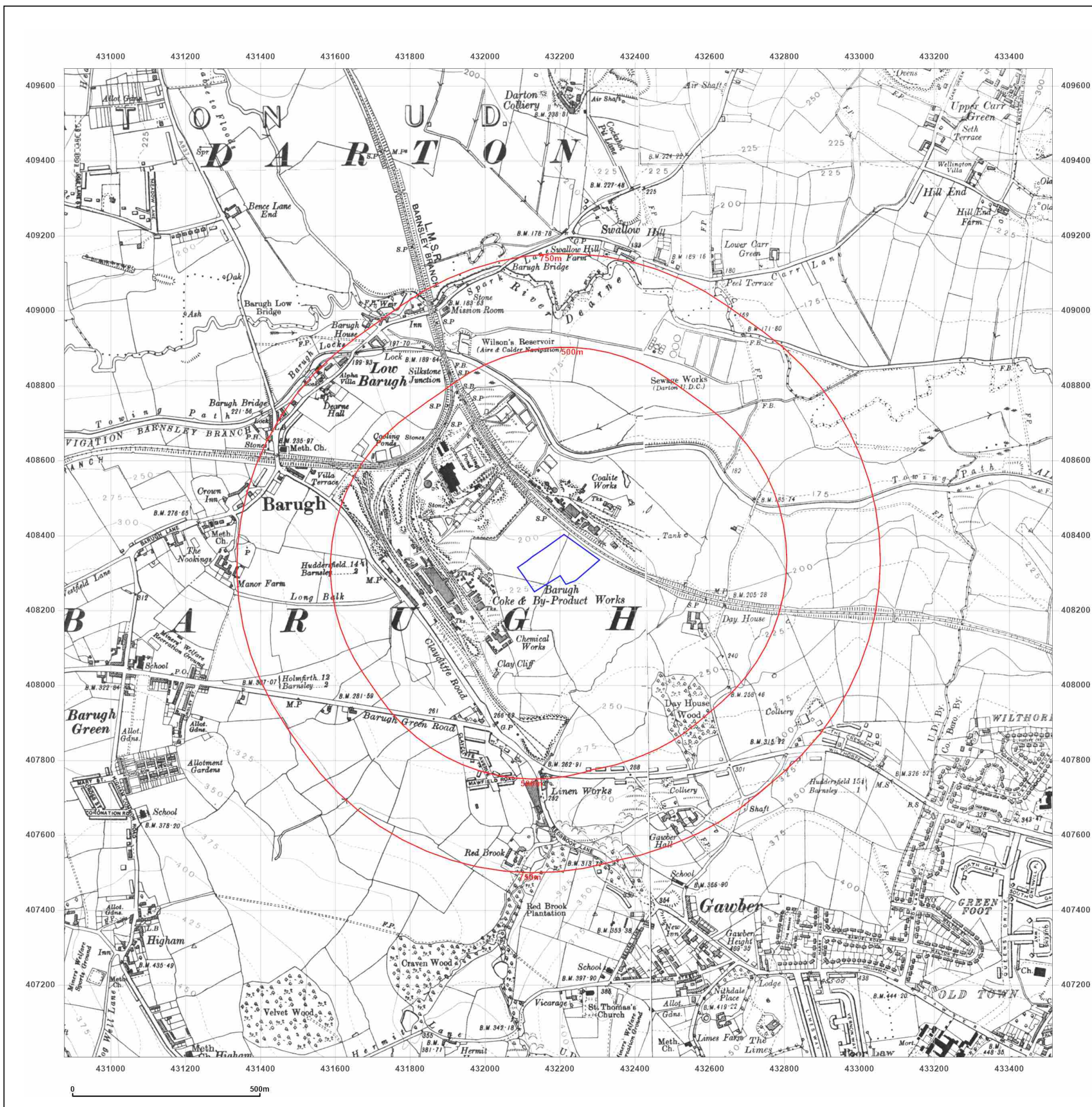


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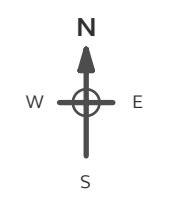
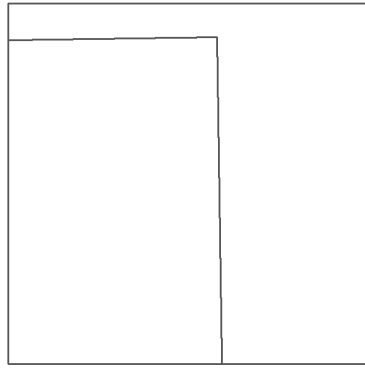
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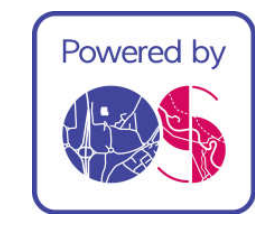
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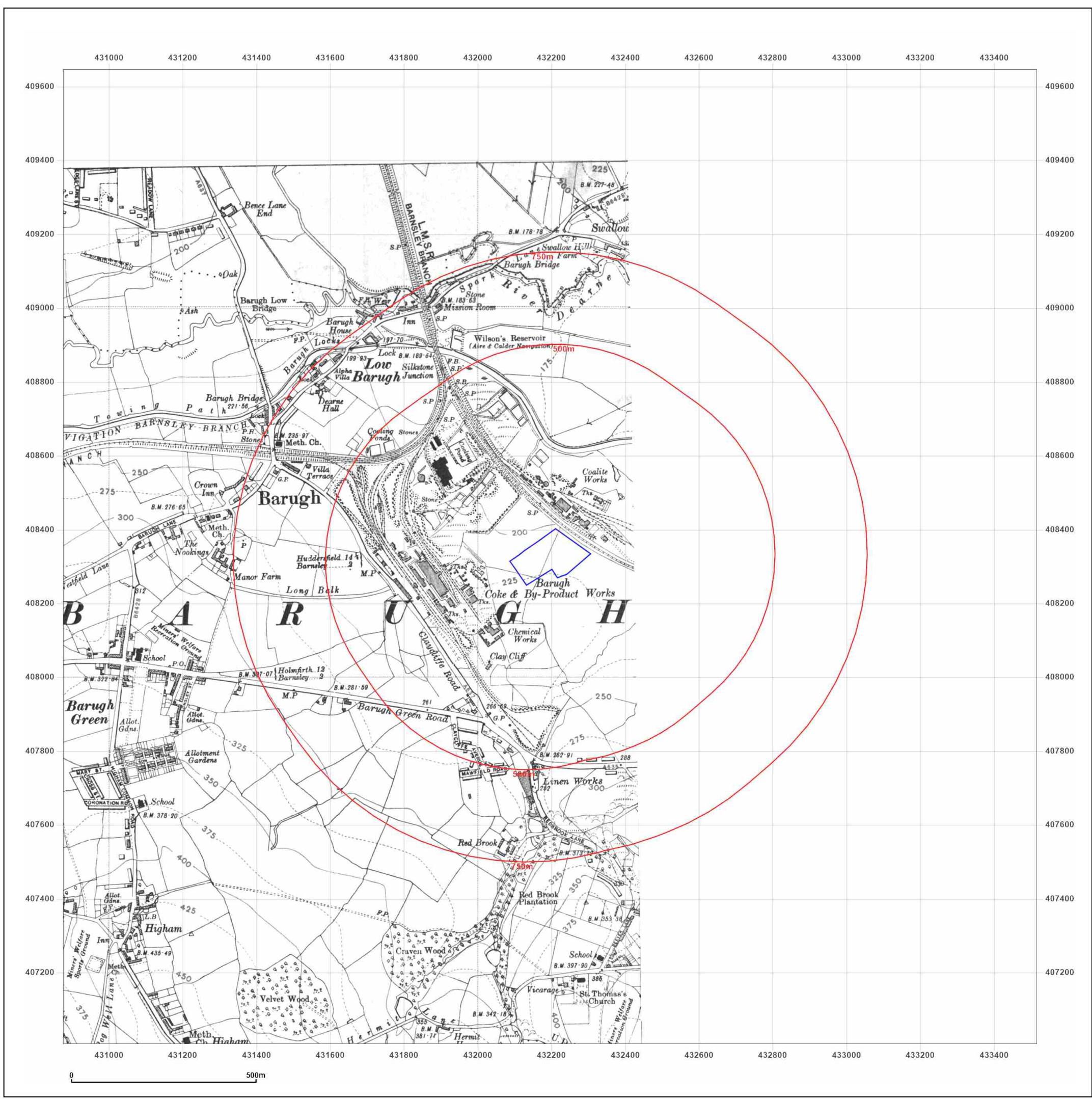


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Site Details:

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Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: County Series

Map date: 1948

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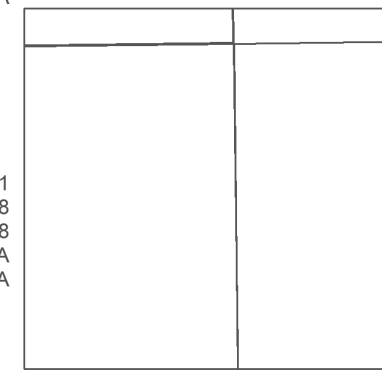


Surveyed 1851
Revised 1948
Edition N/A
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Levelled N/A

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Revised 1948
Edition 1948
Copyright N/A
Levelled 1929

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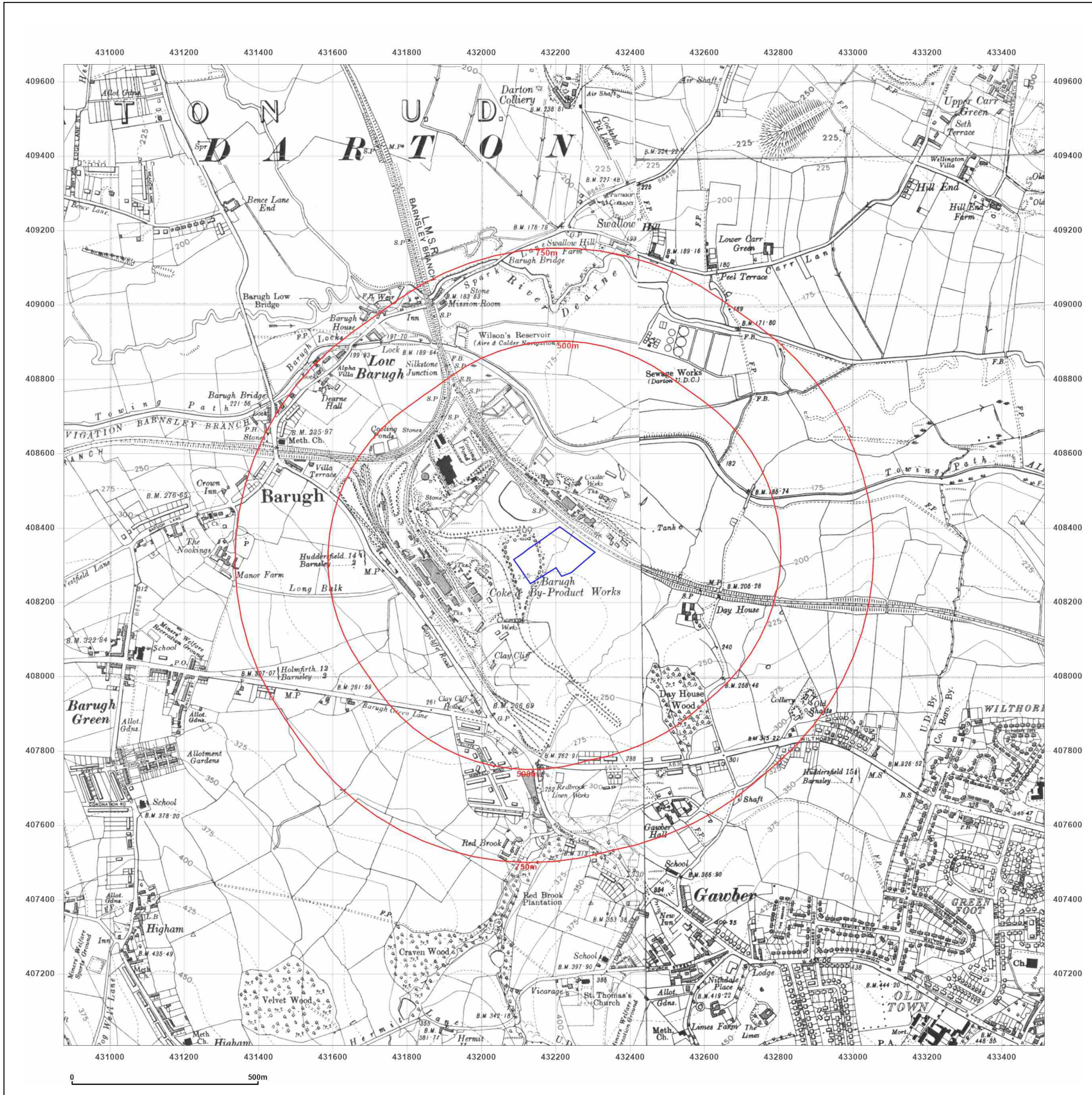


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Site Details:

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Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: Provisional

Map date: 1956

Scale: 1:10,560

Printed at: 1:10,560



Surveyed N/A
Revised 1955
Edition N/A
Copyright 1956
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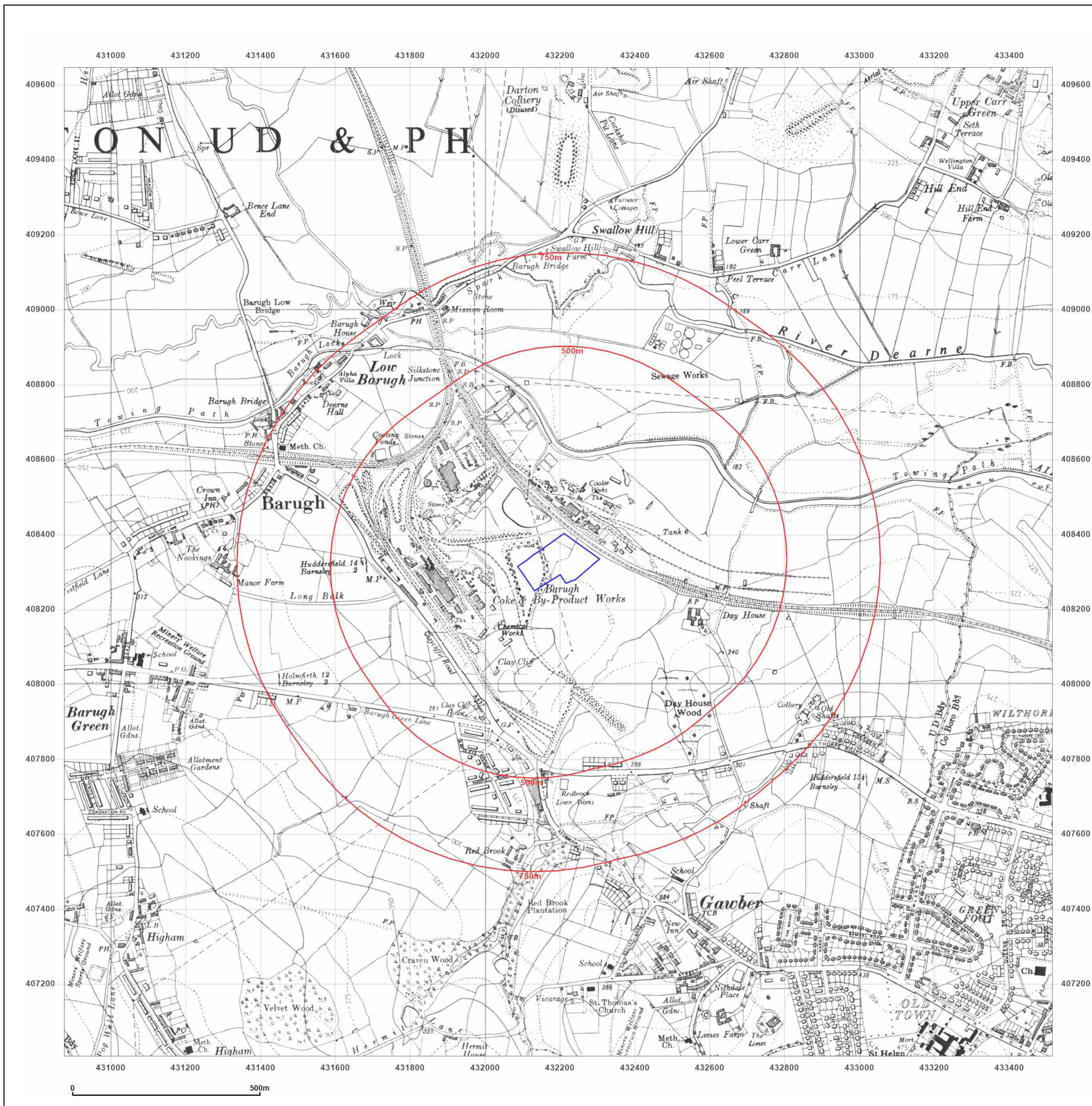


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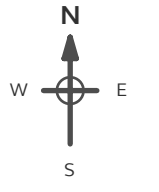
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Site Details:
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 BARNSELY, S75 1HT

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Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: Provisional
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Surveyed 1966
 Revised 1966
 Edition N/A
 Copyright N/A
 Levelled N/A

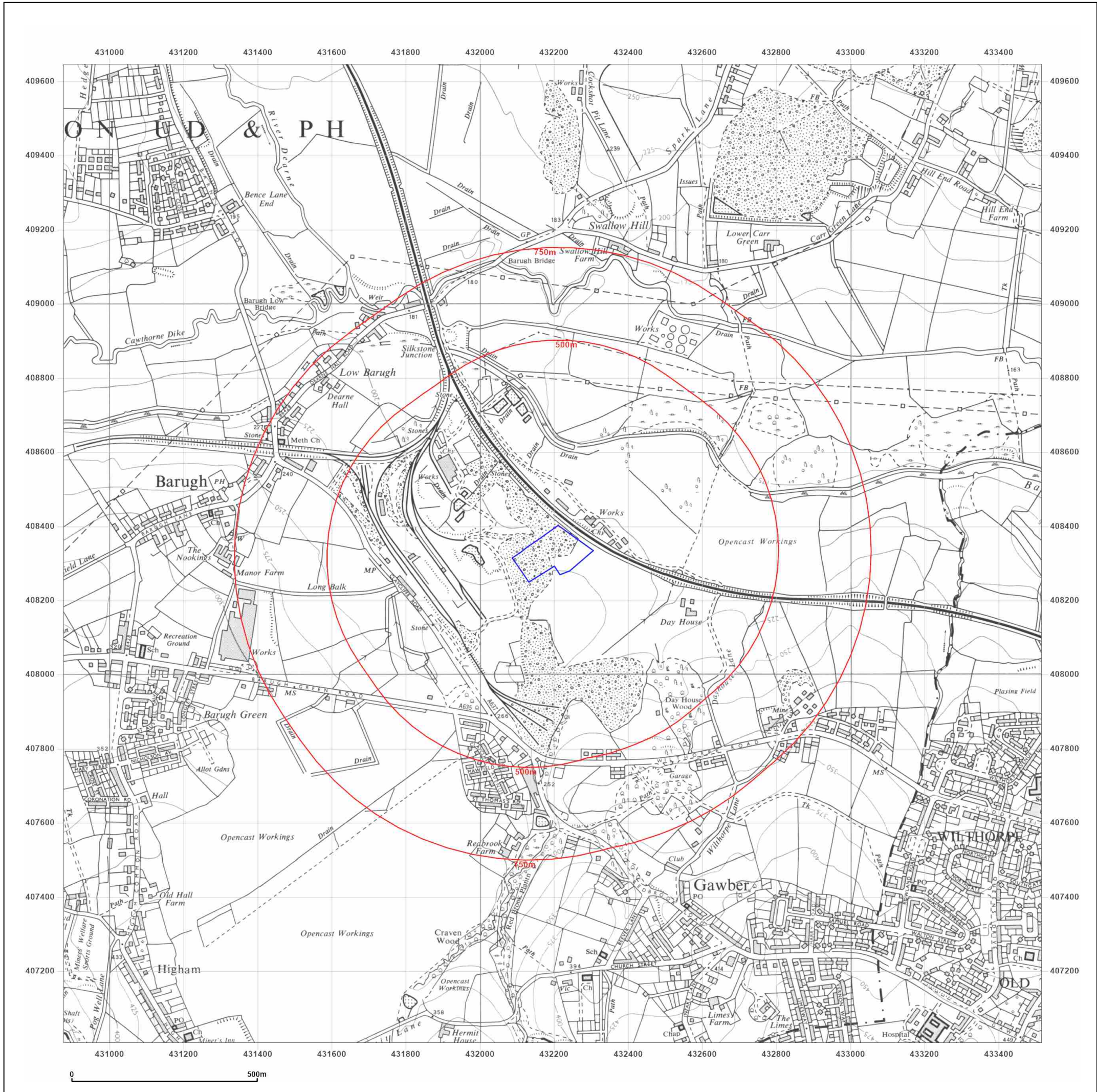
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Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid

Map date: 1982

Scale: 1:10,000

Printed at: 1:10,000



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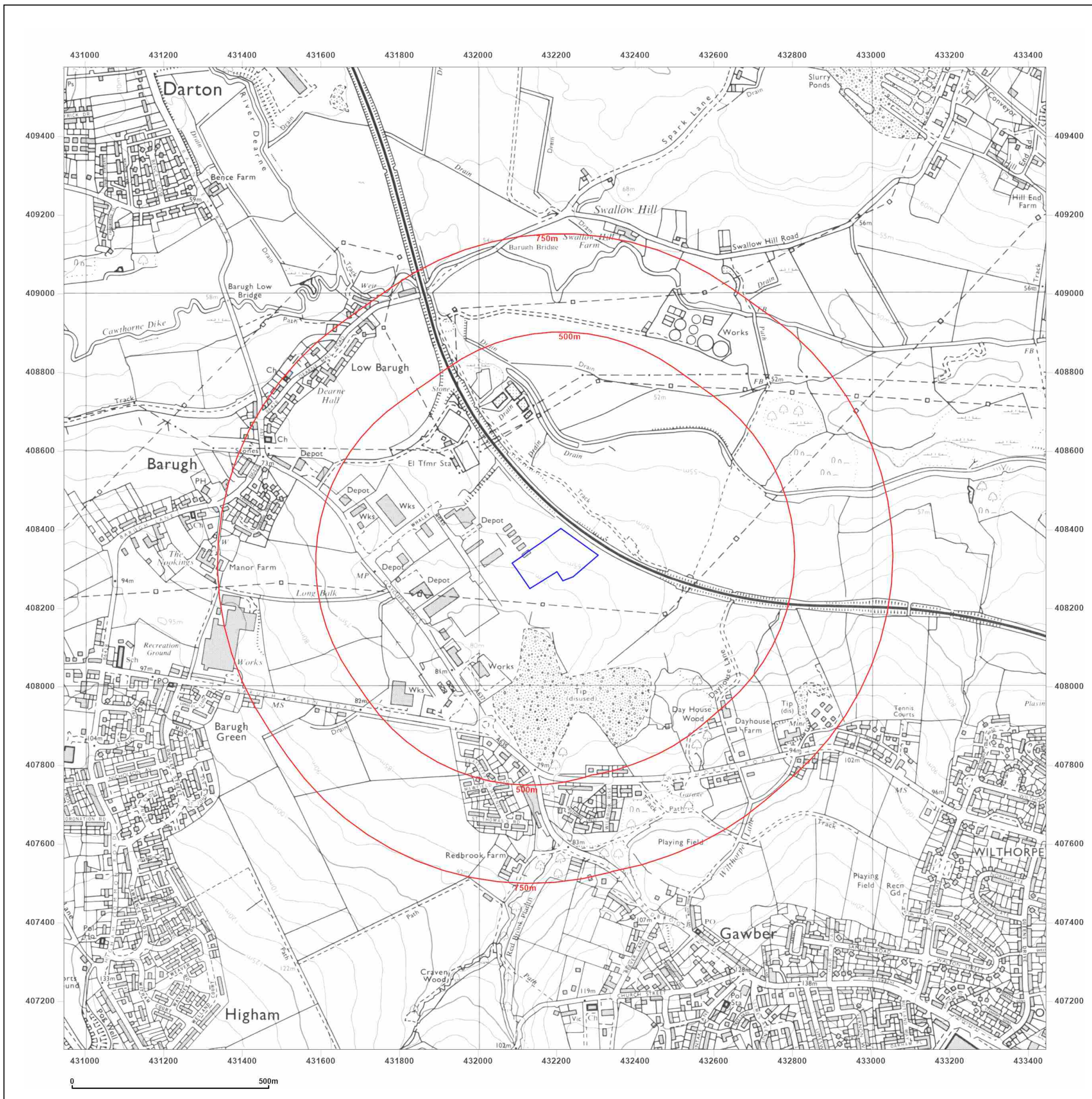


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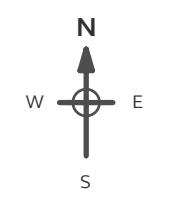
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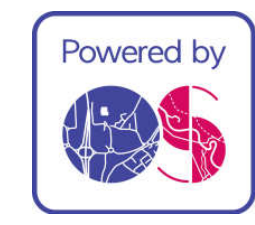
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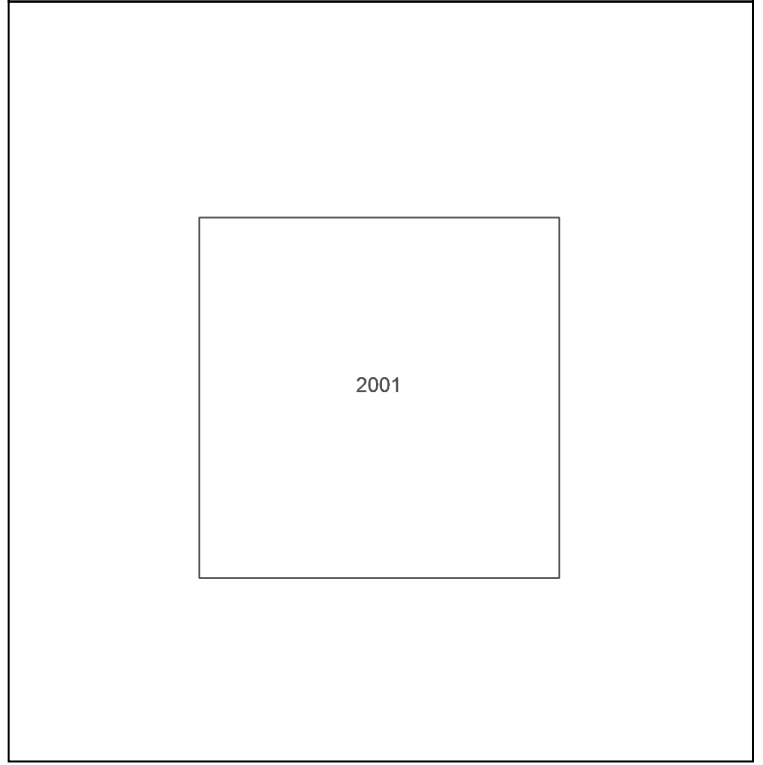
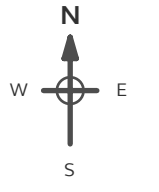
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Grid Ref: 432195, 408326

Map Name: National Grid
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Scale: 1:10,000
Printed at: 1:10,000



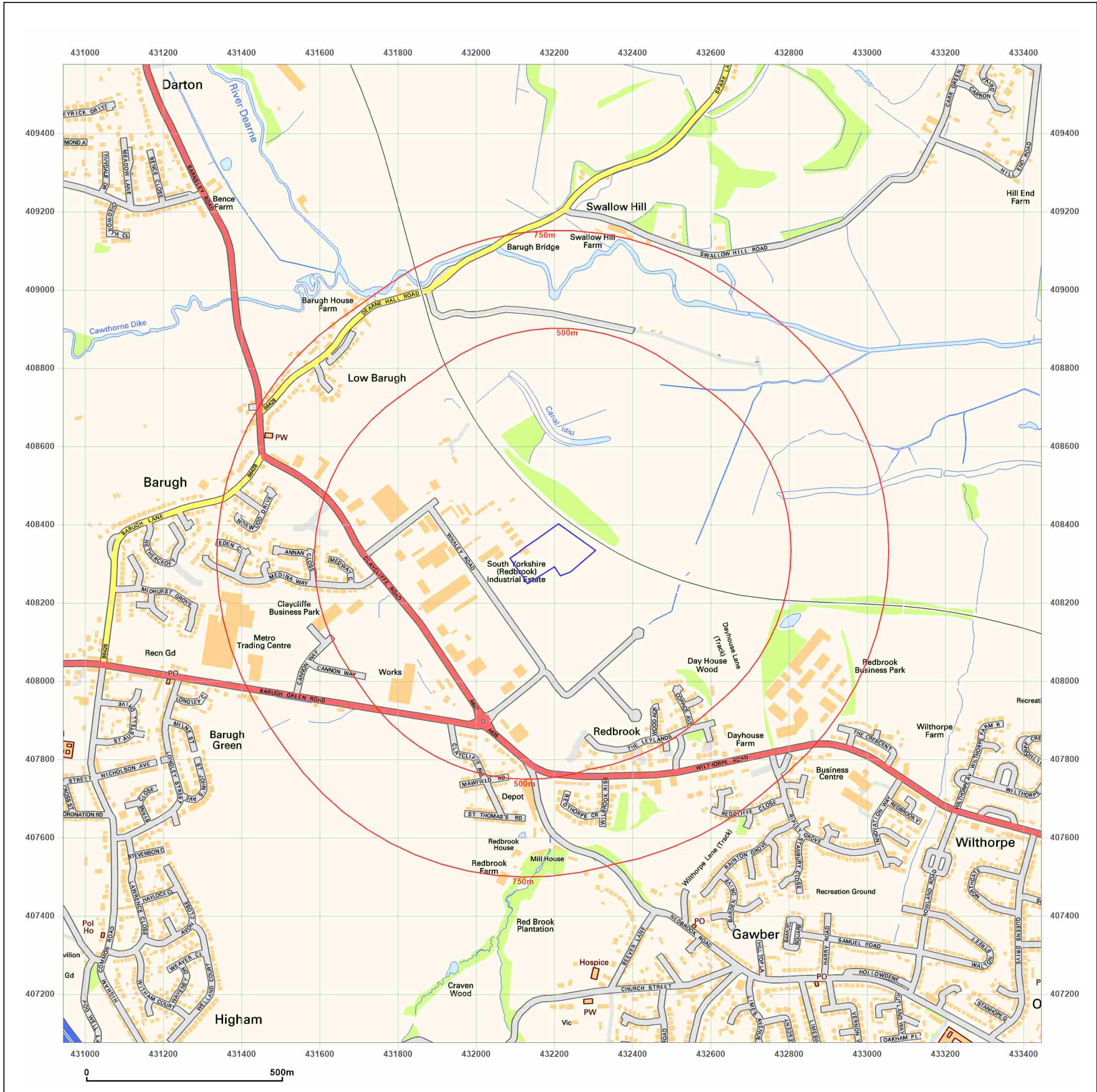
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Site Details:

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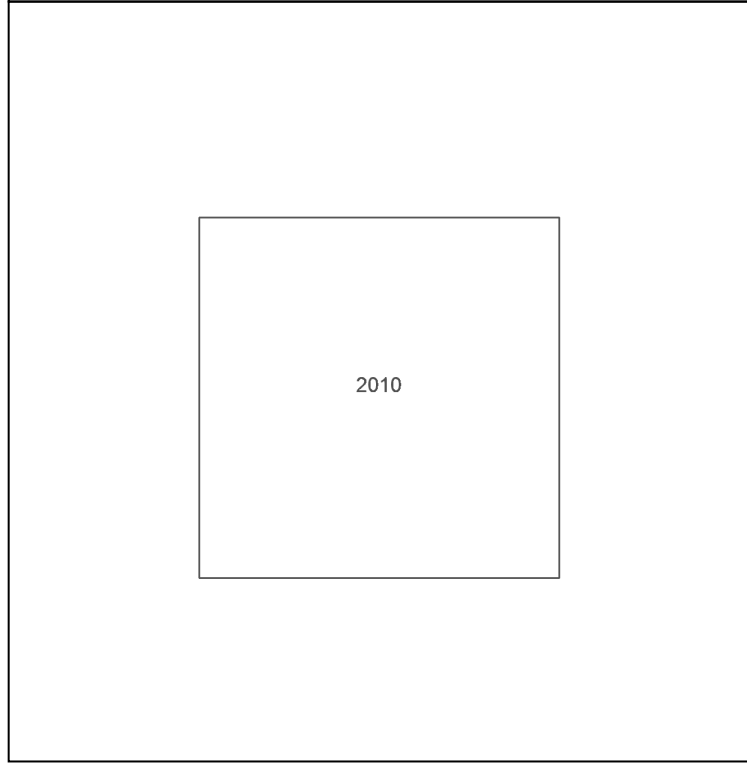
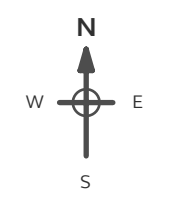
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Grid Ref: 432195, 408326

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

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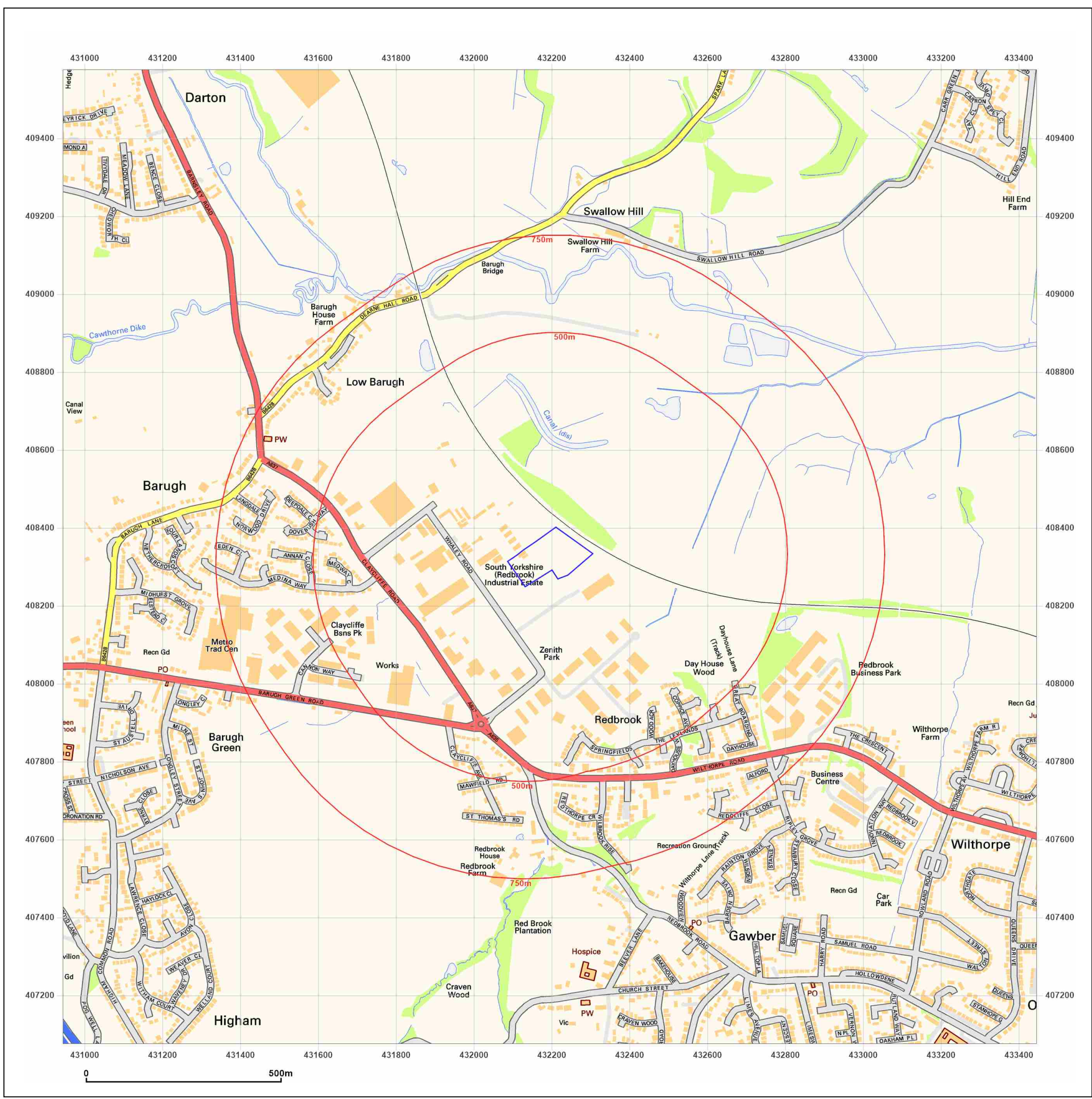


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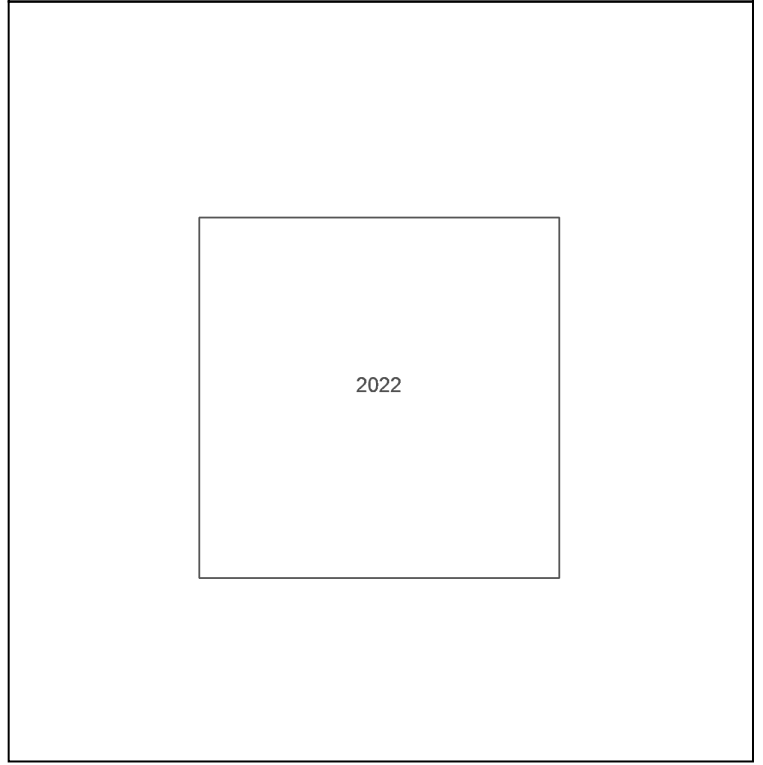
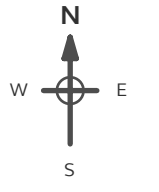
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Site Details:
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Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid
Map date: 2022
Scale: 1:10,000
Printed at: 1:10,000



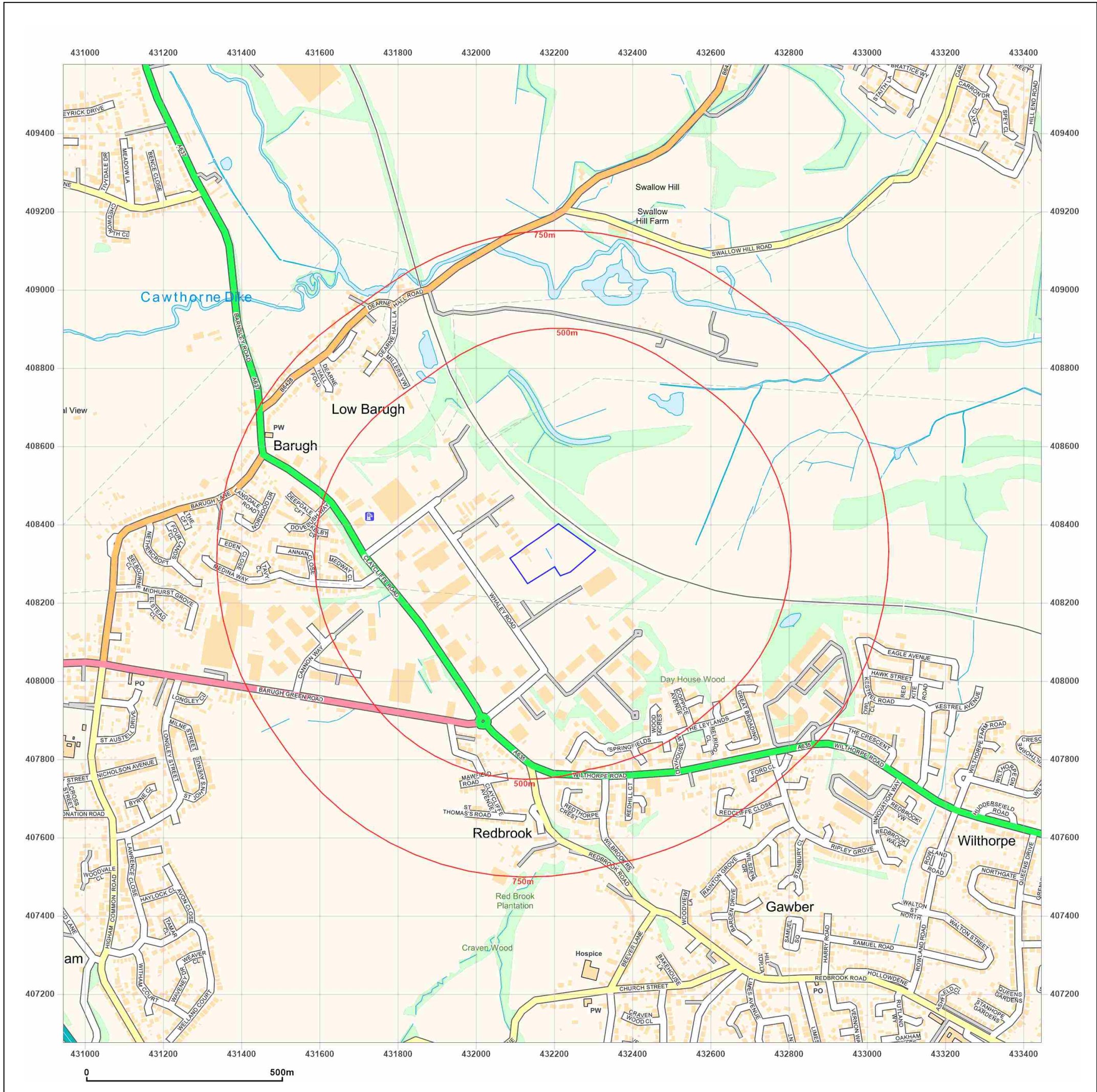
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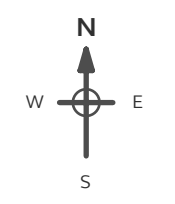
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Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: County Series

Map date: 1892-1893

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1893
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1892
Revised 1892
Edition N/A
Copyright N/A
Levelled N/A

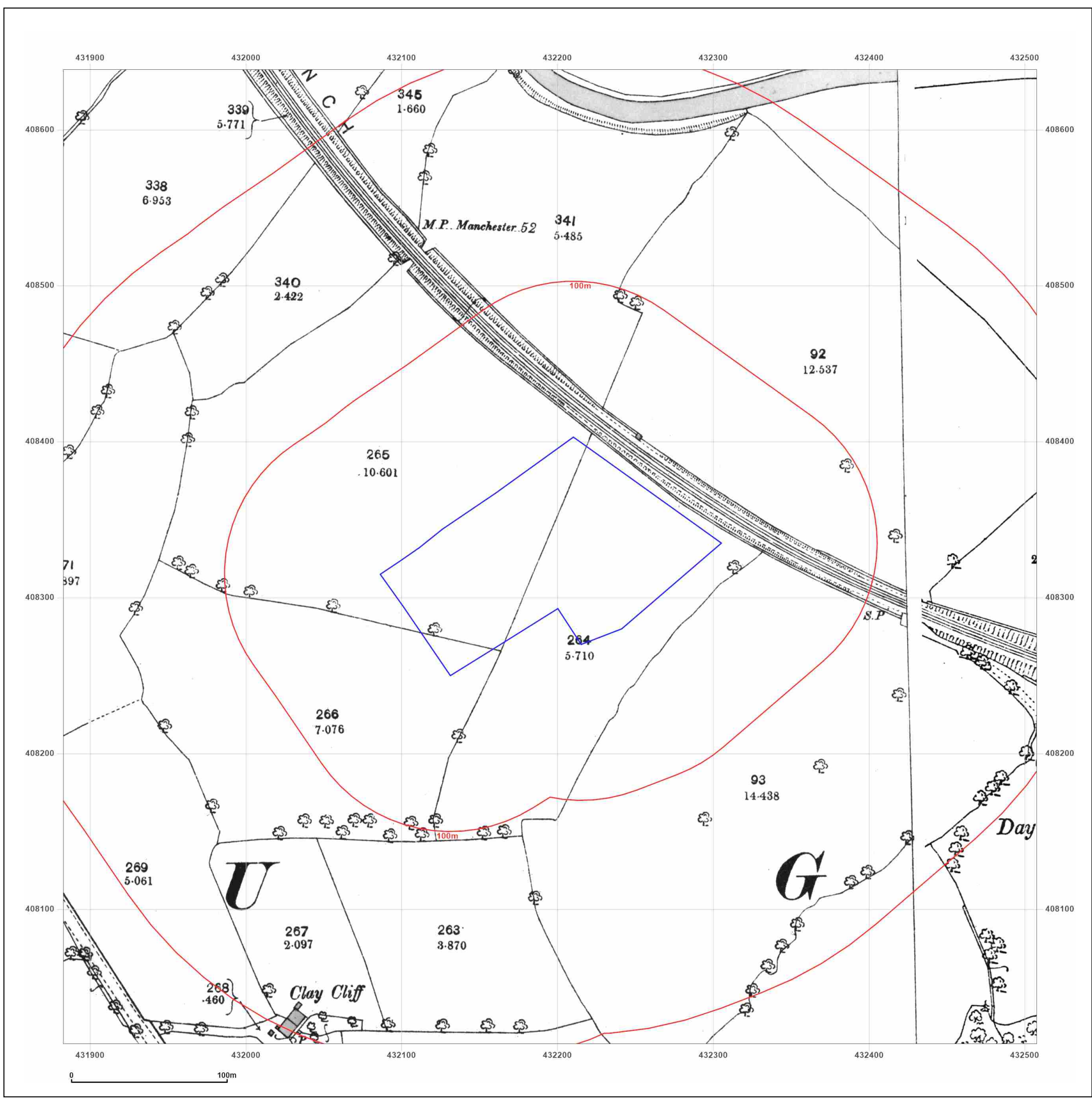


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Site Details:

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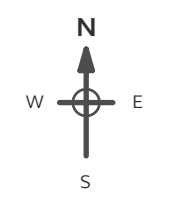
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Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: County Series

Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1906
Edition N/A
Copyright N/A
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Edition N/A
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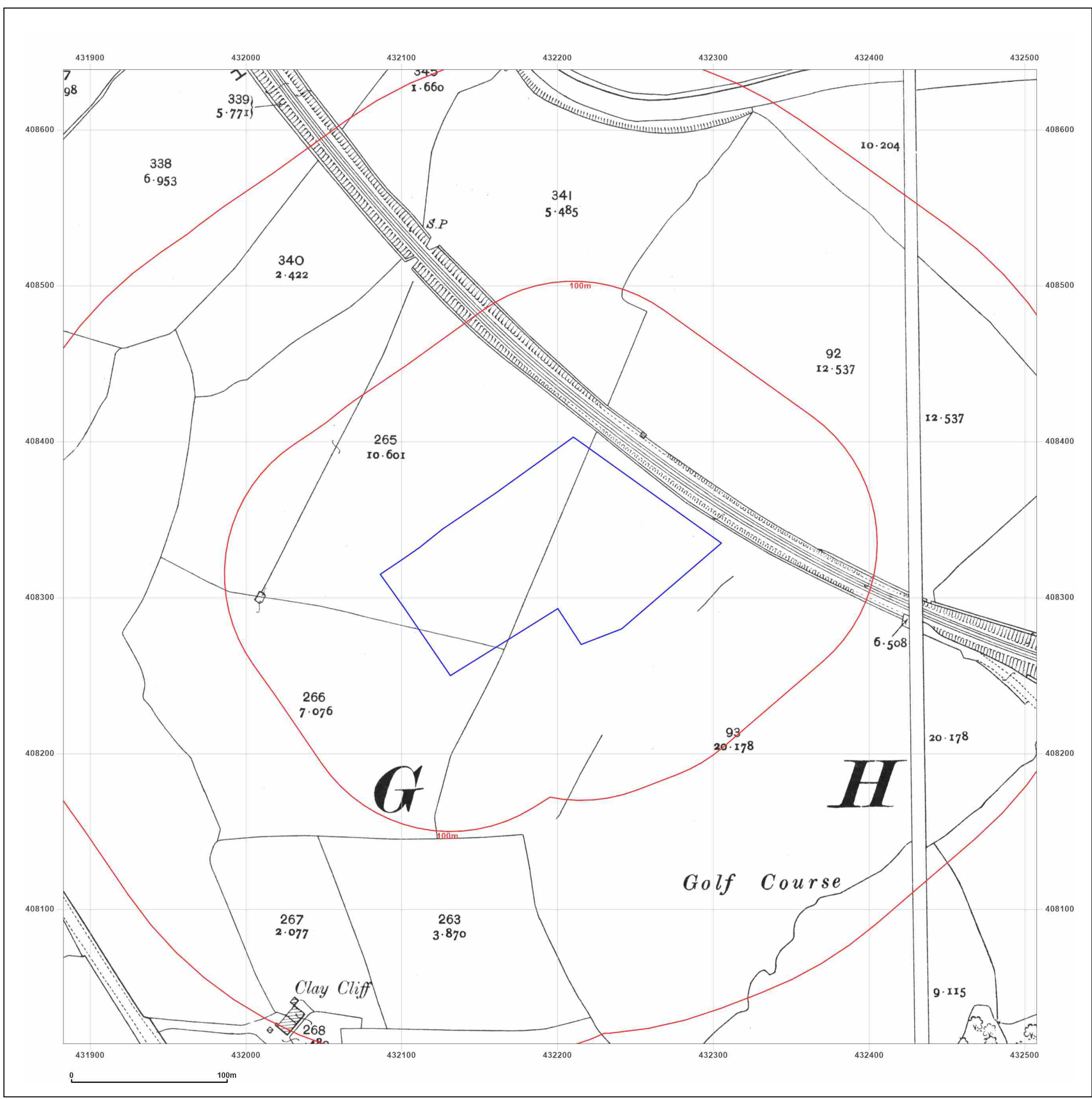


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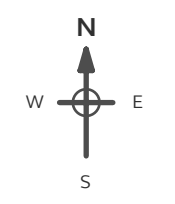
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Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid

Map date: 1962

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1961
Edition 1962
Copyright 1962
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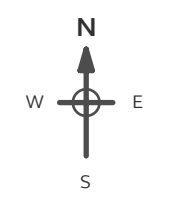


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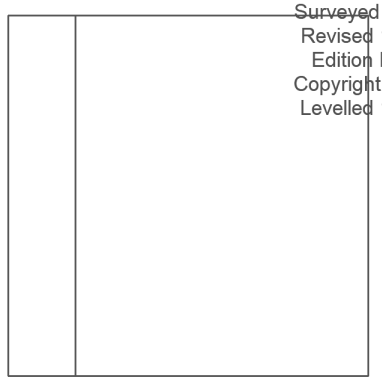
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BARNSELY, S75 1HT

Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid
Map date: 1986-1987
Scale: 1:2,500
Printed at: 1:2,500



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Surveyed 1963
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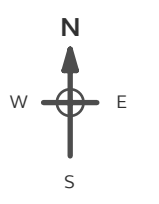


Site Details:

WHALEY ROAD, BARUGH,
BARNSELY, S75 1HT

Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid
Map date: 1987-1989
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1963 Revised 1989 Edition N/A Copyright 1989 Levelled 1963		Surveyed 1963 Revised 1987 Edition N/A Copyright 1987 Levelled 1963
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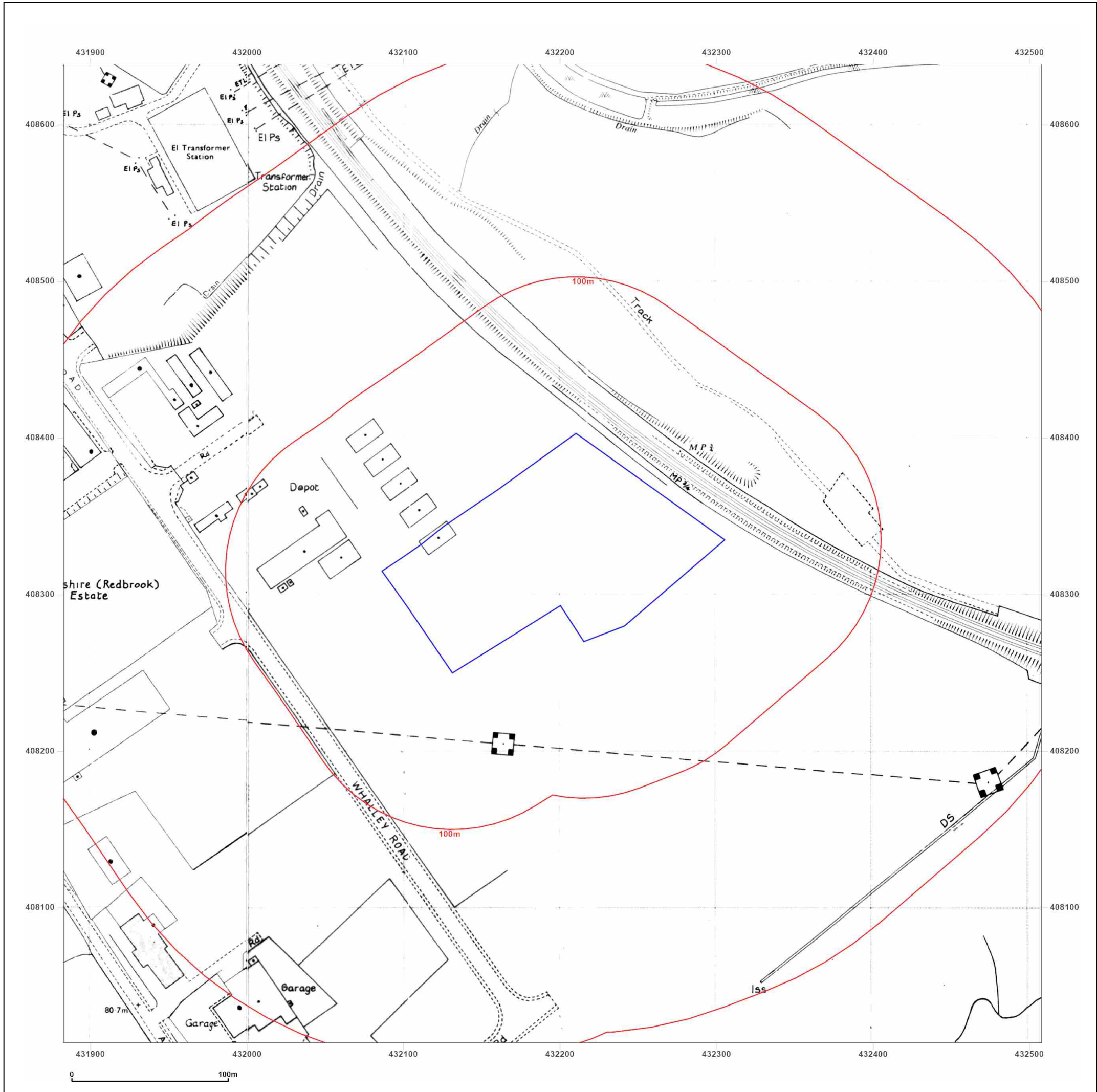


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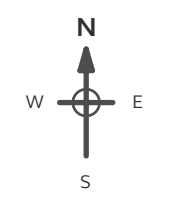


Site Details:

WHALEY ROAD, BARUGH,
BARNSELY, S75 1HT

Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid
Map date: 1990-1991
Scale: 1:2,500
Printed at: 1:2,500



Surveyed 1963
Revised 1990
Edition N/A
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Levelled 1963

Surveyed 1963
Revised 1991
Edition N/A
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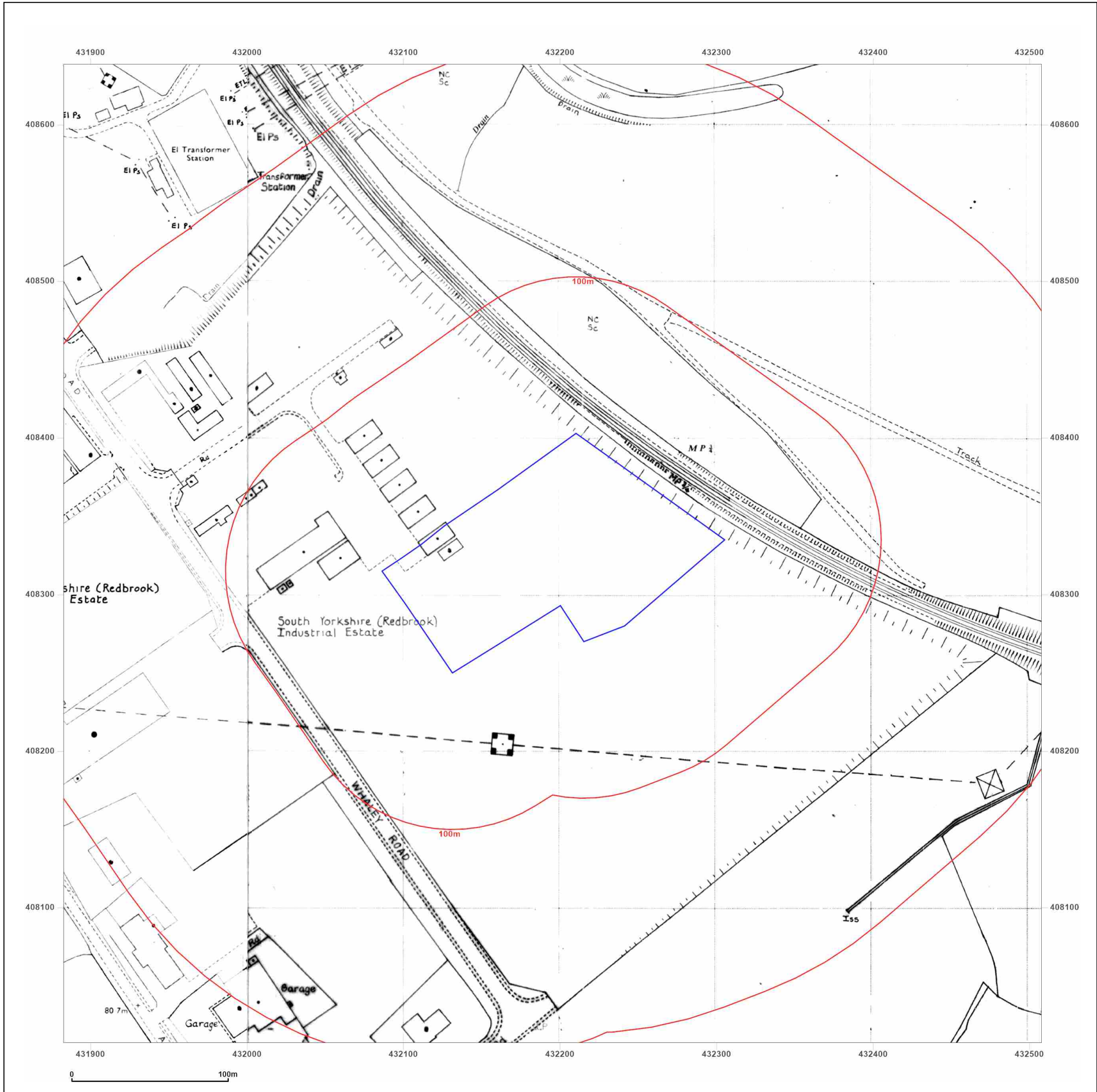


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Site Details:

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Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: National Grid

Map date: 1991-1993

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1991
Edition N/A
Copyright 1991
Levelled 1963

Surveyed N/A
Revised N/A
Edition N/A
Copyright 1993
Levelled N/A

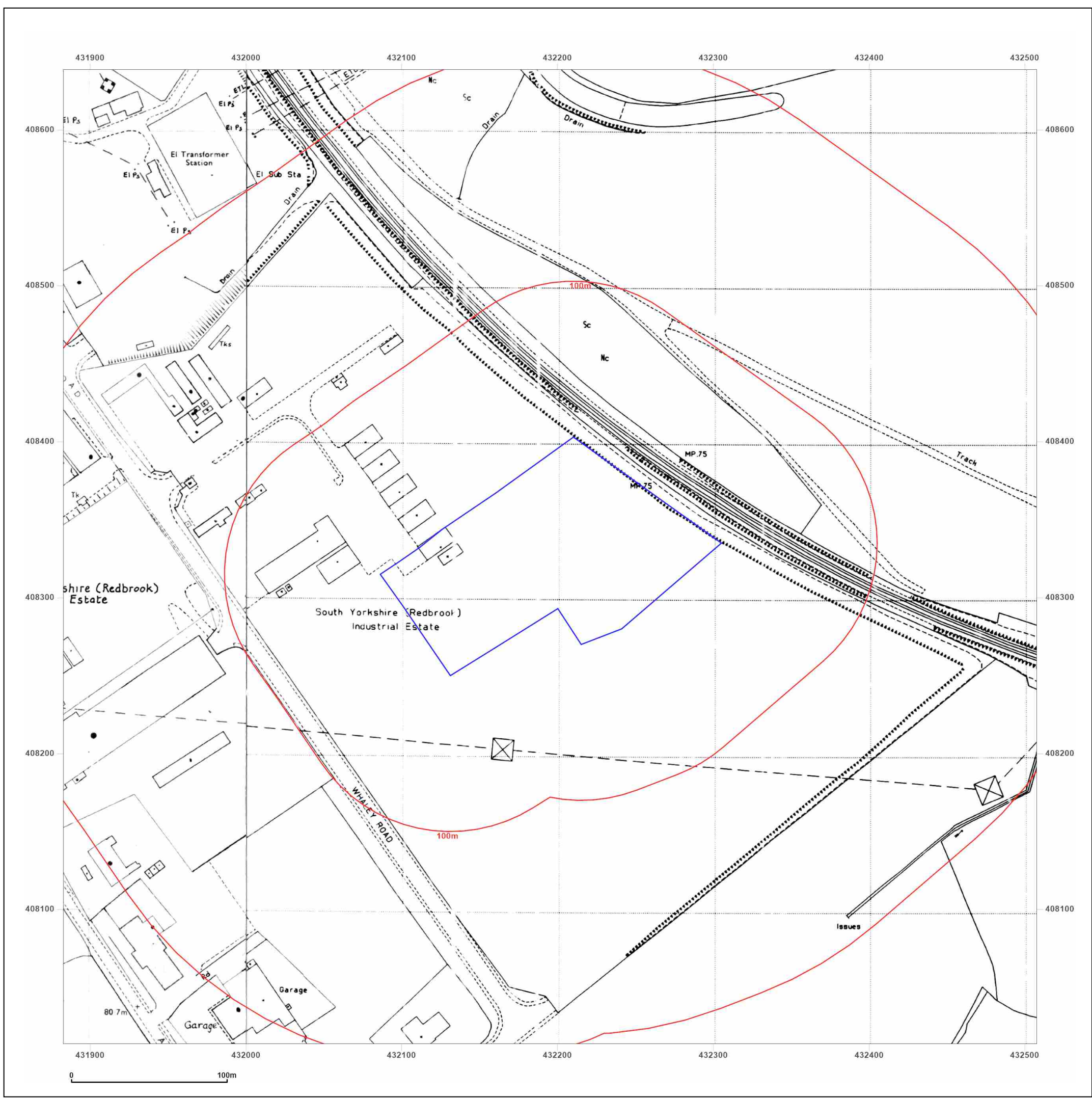


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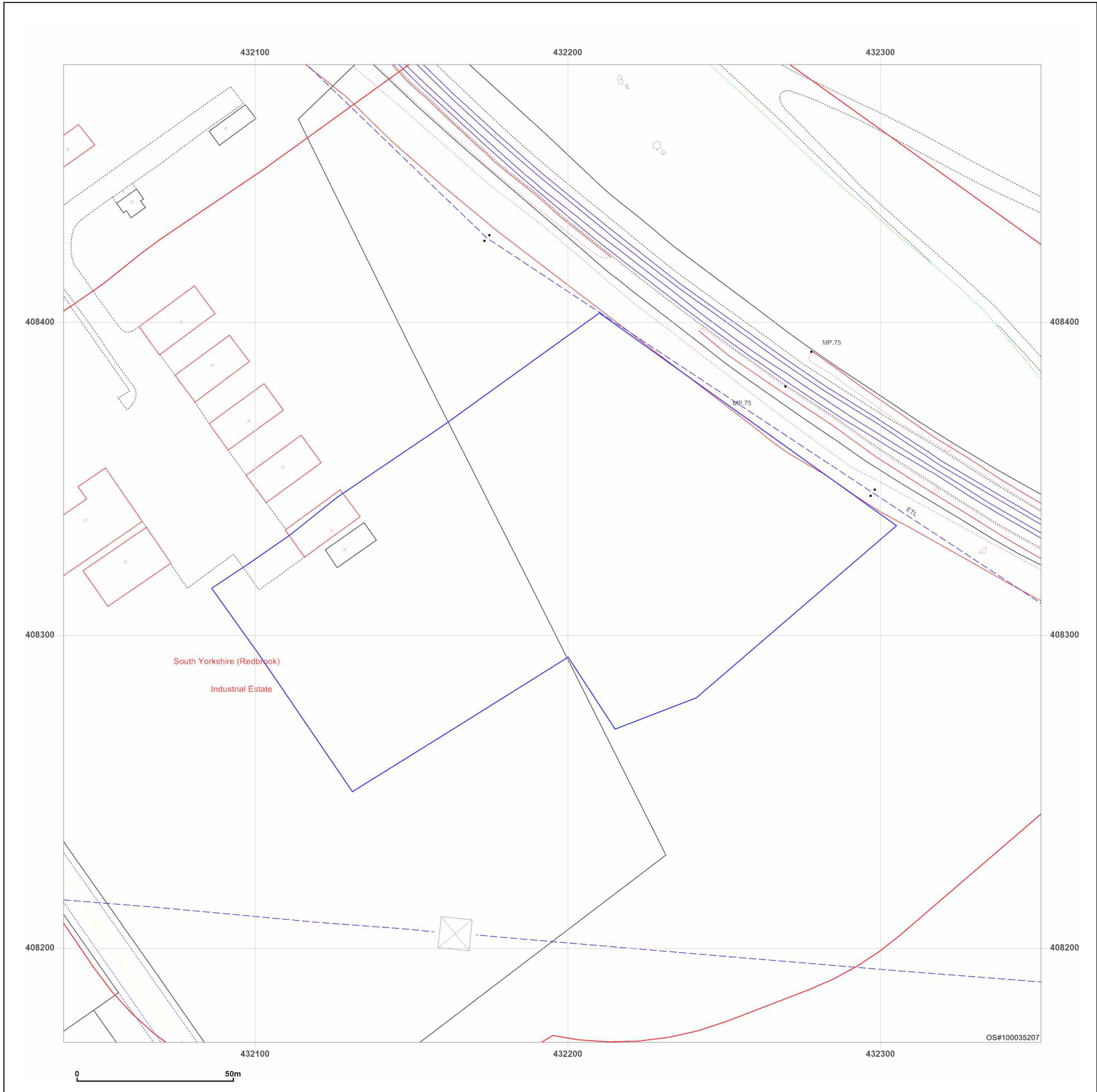
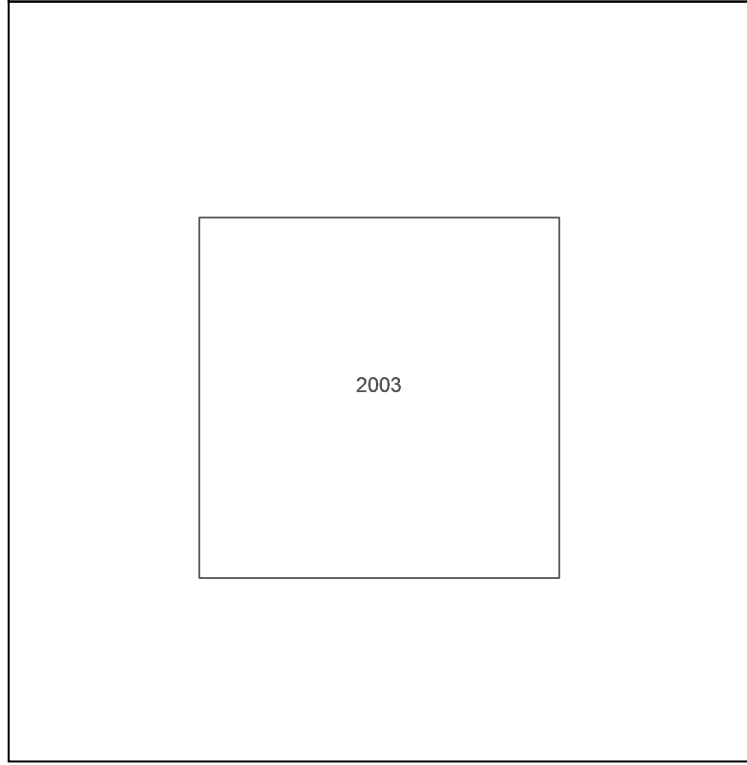
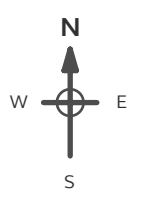


Site Details:

WHALEY ROAD, BARUGH,
BARNSELY, S75 1HT

Client Ref: 14-K0030-000-PO141121
Report Ref: GS-8570598
Grid Ref: 432195, 408326

Map Name: LandLine
Map date: 2003
Scale: 1:1,250
Printed at: 1:1,250



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Appendix Q – Revised Coal Authority Report

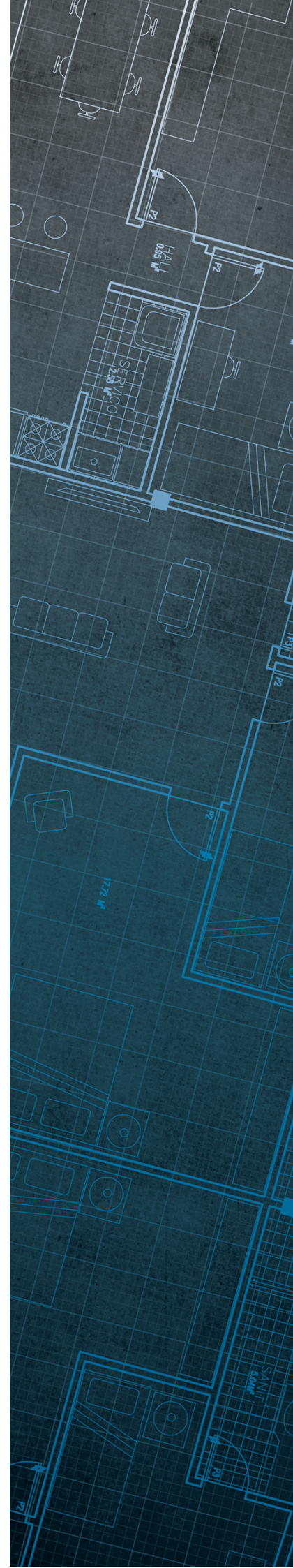


The Coal
Authority

Consultants Coal Mining Report

Whaley Road, Barugh, Barnsley, S75
1ht
South Yorkshire

Date of enquiry:	7 March 2022
Date enquiry received:	7 March 2022
Issue date:	7 March 2022
Our reference:	51002948890001
Your reference:	GS-8570599



Consultants

Coal Mining Report

This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

GROUNDSURE LIMITED

Enquiry address

Whaley Road, Barugh, Barnsley, S75 1ht
South Yorkshire

How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

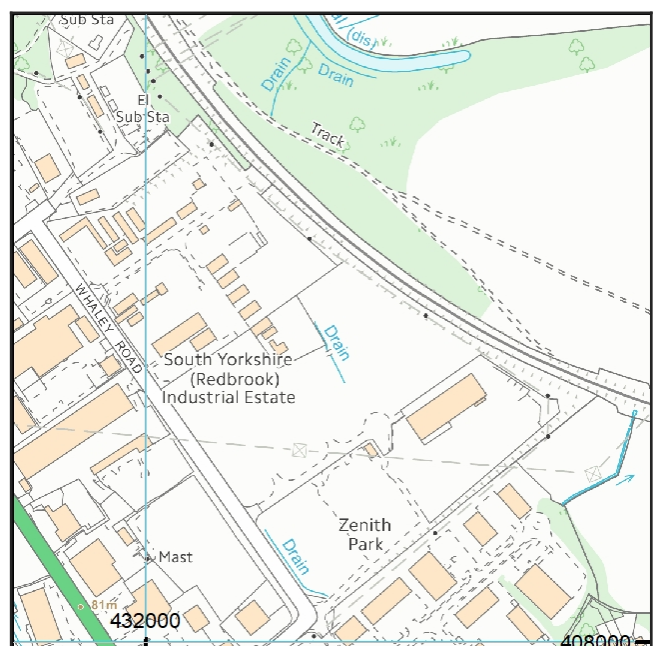
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
DODWORTH	FLOCKTON THICK	Coal	6NHT	126	North-West	5.4	East	60	1955
DODWORTH	FLOCKTON THICK	Coal	6YND	147	Beneath Property	5.2	North-East	76	1949
DODWORTH	TOP FENTON	Coal	6YN8	186	Beneath Property	5.3	North-East	81	1938
DODWORTH	SILKSTONE	Coal	6NDW	277	South-West	3.0	North-East	100	1978
DODWORTH	SILKSTONE	Coal	6YNG	281	Beneath Property	3.9	North-East	90	1978
DODWORTH	SILKSTONE	Coal	X58	284	Beneath Property	3.4	North-East	100	1981
WOOLLEY	WHINMOOR	Coal	6NFV	321	South-West	4.4	North-East	115	1979
WOOLLEY/REDBROOK	WHINMOOR	Coal	6Z74	328	South	4.7	North-East	117	1979
WOOLLEY/REDBROOK	WHINMOOR	Coal	6YNH	330	South-East	4.4	East	109	1979
WOOLLEY/REDBROOK	WHINMOOR	Coal	Z90	333	Beneath Property	4.0	East	115	1985
WOOLLEY/REDBROOK	WHINMOOR	Coal	Z92	356	North-East	4.0	North-East	113	1981

Probable unrecorded shallow workings

None.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Adit	432408-020	432355 408362		Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

NE722	NE584	NE919
NE1034	SCC5	PO0
NE762		

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

No outcrops recorded.

Geological faults, fissures and breaklines

No faults, fissures or breaklines recorded.

Opencast mines

Please refer to the "Summary of findings" map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

Section 3 – Licensing and future mining activity

Future underground mining

None recorded.

Coal mining licensing

None recorded within 200 metres of the enquiry boundary.

Court orders

None recorded.

Section 46 notices

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

Withdrawal of support notices

The property is in an area where notices to withdraw support were given in 1982 and 1987.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk**.

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

Opencast mines

Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips

Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations

Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites

Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence

Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas

Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

Mine water treatment schemes

Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining

Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing

Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders

Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices

Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices





Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

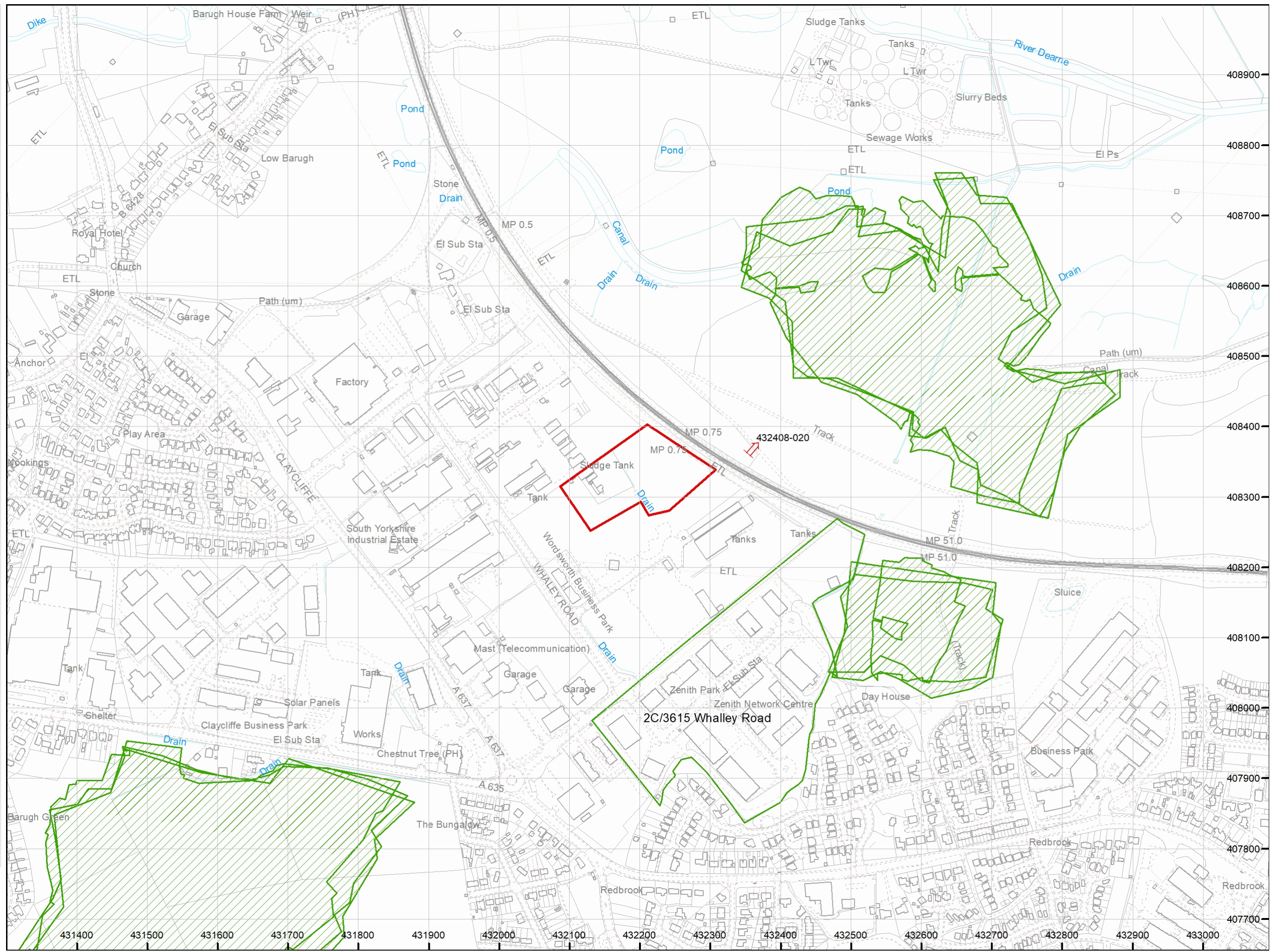
Payment to owners of former copyhold land

Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown 
- Disused adit 
- Opencast mine licence area 
- Unlicensed opencast site 



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

Appendix R – Unforeseen Ground Contamination

Unforeseen Ground Contamination

There is the potential for areas of previously unexpected contamination to be present, as is the case with any “brownfield” site. Any significant quantities of asbestos, significant ashy soils, unusual, brightly coloured or significantly oily or odorous material should be considered in this category. If unexpected contamination is found the following procedures should be adhered to:

1. All site works at the position of the suspected contamination will cease.
2. A suitably trained geo-environmental specialist should assess the visual and olfactory observations of the condition of the ground and the extent of contamination, and the Client and the Local Authority should be informed of the discovery. Should the contamination be likely to affect controlled waters the Environment Agency shall also be informed.
3. The suspected contaminated material will be investigated and tested appropriately in accordance with the assessed risks. The investigation works will be carried out in the presence of a suitably qualified geo-environmental engineer. The investigation works shall commence to recover samples for testing and, using visual and olfactory observations of the condition of the ground, delineate the area over which contaminated materials are present.
4. The unexpected, contaminated material will either be left in situ or be stockpiled whilst testing is carried out and suitable assessments completed to determine whether the material can be re-used on site or requires to be disposed as appropriate.
5. Where the material is left in situ awaiting results it will be reburied or covered with plastic sheeting.
6. Where the potentially contaminated material is to be temporarily stockpiled it will either be placed either on a prepared surface of clayey Alluvium, or on 2000-gauge Visqueen sheeting (or other impermeable surface) and covered to prevent dust and odour emissions.
7. Any areas where unexpected visual or olfactory ground contamination will be surveyed, a photographic record kept, and testing results incorporated into the Verification Report.
8. A photographic recorded will be made of relevant observations.
9. The testing suite will be determined by the independent geo-environmental specialist on the basis of visual and olfactory observations.
10. Test results will be compared against current assessment criteria suitable for the future use of the area of the site affected.
11. The results of the investigation and testing of any suspect unexpected contamination will be used to determine the relevant actions. After consultation with the Local Authority and if necessary the Environment Agency, materials should either be:
 - re-used in areas where test results indicate that it meets compliance targets so it can be reused without treatment; or

- treatment of material on site to meet compliance targets so it can be reused; or
- removal from site to a treatment centre or to a suitably licensed landfill or permitted treatment facility.

12. Verification Report will be produced for the work.

Asbestos

Asbestos cement products and asbestos fibres have not been encountered in the soils at the site but based on the age of the Made Ground material containing asbestos could be expected to be encountered. If non-notifiable asbestos (e.g., chrysotile asbestos cement board) is encountered in excavations then it will be dealt with in accordance with the Control of Asbestos Regulations 2012 (CAR 2012) and the HSE's ACoP for asbestos (2013). Finding non-notifiable asbestos is a very common occurrence on brownfield sites and is a relatively low risk activity and can be dealt with as a matter of routine. Therefore, it is not proposed that the Council will be notified but an appropriate record will be kept of confirmatory testing and disposal. This will be included in remediation verification reports.

If suspect notifiable asbestos is encountered then the Council and the HSE will be notified. An appropriate action plan will be agreed with the Council and the HSE in accordance with CAR 2012. The action plan will include the preparation of the Risk Assessment and Plan of Work in accordance with CAR and other statutory requirements including:

- Site mobilisation;
- Excavation methodology;
- Handling, movement and storage on-site of excavation arisings;
- Any processing of excavation arisings containing ACMs;
- Movement and placement of arisings to final destination;
- Placing of cover system over soils with and ACMs remaining on-site;
- Off-site disposal of ACMs;
- Licences;
- PPE & RPE; and,
- Dust and fibre monitoring.

Potential mitigation measures that would be required include:

- Ensuring works are carried out by suitably trained and experienced personnel with working with asbestos;
- Site investigation and risk assessment;

- Removal or treatment of asbestos hotspots;
- Use of PPE and RPE by construction workers; and,
- Compliance monitoring.

Unexpected Tanks

No buried underground fuel storage tanks have been encountered during the site investigation works; however, there remains a low risk that tanks are present on-site. Should an underground tank be encountered, operations should cease in the area. Additionally, there may be pipework associated with these tanks which could have oily residues. The following procedures are to be adhered to if tanks and pipework are identified:

1. All site works at the position of the tanks/pipework should stop.
2. A description of the tank should be made by the geo-environmental engineer including; condition and surround, along with visual and olfactory observations should any contents in the tank be apparent. A photographic recorded will also be made of relevant observations.
3. The tank's position and depth should be determined and marked on a plan of the site.
4. The independent geo-environmental engineer will inform Client and the Local Authority.
5. During the presence of the independent geo-environmental engineer, investigation works should be undertaken to obtain samples of any liquid or sludge contents and to establish dimensions of the tank.
6. Testing will be determined on the basis of visual and olfactory observations by independent geo-environmental engineer.
7. Test results will be compared against current assessment criteria and proposals for disposal of any contents determined in agreement with the appropriate Regulatory Parties.
8. Emptying the tank and disposal of contents to a suitable licenced disposal facility.
9. Degassing and removal of the tank by a suitably qualified contractor will be required, and a Naked Flame Certificate should be provided.
10. Once the tank has been emptied in accordance with the above proposals, it is to be removed for disposal to a licensed waste management facility. Copies of the relevant waste consignment notes are to be kept and included in the Verification Report.
11. Excavation and remediation of any contaminated soils around the tank will be carried out.
12. Samples of the base and sides of the resultant hole will be sampled and supervised by the independent geo-environmental engineer to confirm whether risks to human health or controlled waters.



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www.byrneology.com

Email: info@byrneology.com