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Phase 1 Desk Top Geo-environmental Report

ON

PROPOSED DETACHED PROPERTY

AT

**60 HUDDERSFIELD ROAD,
SKELMANTHORPE**

FOR

MR D BROOKE

FEBRUARY 2022

E22/7930/R001

INDEX

1.0	Introduction	Page 3
2.0	The Site	Page 3
3.0	Site History	Page 4
4.0	Site Geology and Mining	Page 5
5.0	Environmental Considerations	Page 6
5.1	Radon	Page 6
5.2	Landfill Sites	Page 6
5.3	Flood Risk	Page 6
5.3	Groundwater	Page 6
6.0	Preliminary Site Conceptual Model	Page 7
7.0	Conclusions	Page 9
Appendix A	Site Location Plan Planning Layout	
Appendix B	Groundsure Report Historical Plans	

1.0 INTRODUCTION

- 1.1 This report is commissioned to examine the risk of contamination for the above site in line with the recommendations of Part II of the Environmental Protection Act 1990 PPS 23. It is based on information provided by both the client and statutory bodies in both written and verbal format. It is assumed that all information given is correct and factual at the time of writing this report. No liabilities can be accepted for information provided by third parties and subsequently found to be in error.

2.0 THE SITE

- 2.1 The site is located to the north of Huddersfield Road, Skelmanthorpe, and is situated around Ordnance Survey grid reference 4022679, 410660. A site location plan is included in Appendix A.
- 2.2 The site consists of the rectangular garden area to 60, Huddersfield Road. To the west and east are existing residential properties, To the south is Huddersfield Road with further residential properties beyond. To the north is farmland consisting of open fields. The overall site area is approximately 0.08ha.
- 2.3 The site primarily consists of a vegetable garden with a grassed perimeter. A greenhouse and small shed are located in the northern third of the site. A hedge runs adjacent the southern boundary and halfway up the eastern boundary, separating this area from 60 Huddersfield Road. A separate hedge runs along the northern boundary. A 1m high drystone wall runs along the southern boundary of the site.
- 2.4 The site falls from west to east. A topographical survey of the site was not available at the time writing the report.

3.0 SITE HISTORY

A number of historical Ordnance Survey plans from 1854-2022 have been consulted. These are contained for reference within Appendix C to the rear of the report. Below is a brief description outlining the significant developments that may effect future construction of the site.

Date	Historical uses on site	Historical findings within 100m perimeter of the site	Historical findings further than 100m perimeter of the site
1854	i) Site shown as open field. ii) Highway on southern boundary.	i) No significant features within 100m of the site.	i) Sandstone quarry approximately 250m east of site.
1892-1904	i) The on-site features are similar to the previous sheet.	i) No significant features within 100m of the site.	i) Reservoir shown 225m west of site. ii) Railway constructed 400m north of site.
1932-1955	i) Building shown in south east of site.	ii) Buildings constructed to west, south and east of site.	i) Sandstone quarry 250m east of site labelled as stone sawing and planning mills.
1967-1983	i) The on-site features are similar to the previous sheet.	i) Buildings to west of site rebuilt.	i) Mills no longer labelled 250m east of site. Separate buildings shown.
1993-2010	i) The on-site features are similar to the previous sheet.	i) No significant features within 100m of the site.	i) Further buildings constructed over former quarry.
2022	) The on-site features are similar to the previous sheet.	i) No significant features within 100m of the site.	i) Reservoir no longer shown 225m to the west.

4.0 SITE GEOLOGY & MINING

- 4.1 The BGS Digital Geological Map of Great Britain at 1:10,000 scale has been consulted and we would report as follows:-
- 4.2 There are no areas of artificial or superficial strata shown overlying the site.
- 4.3 The majority of the site is shown to be underlain by the Pennine Lower Coal Measures formation consisting of Mudstone, Siltstone and Sandstone. The Penistone Flags formation consisting of Sandstone is shown to encroach on the north western corner of the site.
- 4.4 There are no fault lines indicated in the vicinity of the site.
- 4.5 A Coal Mining Risk Assessment has been prepared by TerraFirma which states the site is not considered susceptible to coal mining related ground instability.
- 4.6 The Coal Authority Interactive Map Viewer confirms the site is not in a development high risk area.
- 4.7 There are no BGS borehole records located in the immediate vicinity of the site.

5.0 ENVIRONMENTAL CONSIDERATIONS

5.1 Radon

The property is not in a Radon Affected Area, as less than 1% of properties are above the Action Level.

No Radon Protective Measures are necessary.

5.2 Landfill Sites

There are two recorded historical landfill sites within 250m of the site. These are located 134m and 229m east of the site and last accepted waste in 1988 and 1981 respectively. Both accepted inert and commercial waste.

The nearer landfill is in a field at an elevation approximately 6m below the level of the site. The further landfill has been partially re-developed for residential use.

5.3 Flood Risk

The site does not lie within a currently designated Environment Agency flood zone.

5.4 Groundwater

The groundwater vulnerability map for the area indicates that the site overlies bedrock designated as a Secondary (A) aquifer. These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.

There are no recorded licensed discharge consents within 250m of the site.

There are no recorded surface water or groundwater abstraction licences within 250m of the site.

There are no recorded pollution incidents in controlled waters within 250m of the site.

The site is not in a source protection zone.

There are no recorded surface water features within 250m of the site.

6.0 PRELIMINARY CONCEPTUAL SITE MODEL

- 6.1 The initial stage in assessing the risks posed from contaminated land during the redevelopment of a site is to prepare a conceptual model. A generalised conceptual model can be developed highlighting the main pollutant linkages through a contaminant ► pathway ► receptor model for a residential development. In order to prepare the conceptual model for a particular site the following parameters need to be reviewed as discussed below.
- 6.2 Contamination of existing land can be caused by a number of factors, including:-
- i) Possible historical/current industrial activities.
 - ii) Disposal of waste materials.
 - iii) Storage of materials.
 - iv) A number of natural processes can also lead to hazardous gases and elevated heavy metals.
- 6.3 Potential pathways can include ground and surface water, permeable strata, existing services providing a conduit and voided ground. Potential receptors can include human health, ecosystems, controlled waters and building structures. There are a number of ways that a receptor can be exposed to the contaminant these include, inhalation, direct contact, ingestion, dermal contact and uptake.
- 6.4 Sources of potential contamination, that could affect the proposed development, from either on or off-site activities would include the following:-
- i) Potential gas migration from historical landfills – moderate.
 - ii) Potential made ground beneath existing greenhouse/shed on site - low.
 - iii) Possible importation of compost/gas migration from historical landfills – low.
- Based on the above activities the potential for some contamination to exist on site is considered to be low.
- 6.5 Considering the proposed residential end use, there will be two possible human receptor groups exposed to the existing onsite contamination:-
- a) Site operatives during development.
 - b) End users, future site users (the critical receptor is a 6 year old female).

- 6.6 Human receptors may be exposed to site contamination by a number of possible pathways. These pathways are summarised in Table 1 below.

Table 1- Potential Human Exposure Pathways

<u>Human Exposure Pathway</u>	<u>Site Residents</u>	<u>Construction Workers</u>
Soil Ingestion	YES	YES
Consumption of Home Grown Vegetables	YES	NO
Dermal Contact	YES	YES
Dust Inhalation	YES	YES
Gases/Vapours	YES	NO

- 6.7 The construction workers will come into contact with any contaminated soil to a far greater extent than future users. The exposure pathways are generally through dermal contact and indirect ingestion. However their exposure will be for a limited time and the provision and correct use of personnel protective equipment and adequate welfare facilities during construction should restrict their risks to acceptable levels
- 6.8 There has been no previous recorded usage of the site, or immediately adjacent the site likely to have caused contamination. There is therefore considered to be a low risk to controlled waters from existing contamination on site.
- 6.9 No specific areas of ecological importance have been identified in the initial desk top study. Therefore the site is considered to be in a low risk environmental setting. The potential for phototoxic materials to exist at shallow depth should be considered, these could pose a potential risk to new planting and soft landscaping areas within the proposed development.
- 6.10 The presence of elevated sulphates and hydrocarbons could affect the long term integrity of buried concrete structures, including foundations and drainage pipes. Plastic water supply pipes can also be damaged by the presence of hydrocarbon contamination.

7.0 CONCLUSIONS

- 7.1 There has been little development either on, or immediately adjacent the site likely to have caused onsite contamination. The site is currently used to grow vegetables, with only a small green house and a shed recorded on site. There is therefore considered to be a low risk of ground contamination on site.
- 7.2 Due to the potential for gas migration from the landfills to the east, it is recommended a minimum of three piezometers are installed on site to allow gas monitoring to be undertaken. As there isn't a risk of shallow coal or workings to the development, a window sampler could be used for the installations and to get a better picture of the underlying strata.
- 7.3 We would recommend that a minimal Stage II Ground Investigation is undertaken to determine the underlying strata and allow foundations for the new development to be specified. Samples should be undertaken from the existing strata to confirm it's suitability for use in a garden area.
- 7.4 During the site investigation works, should any areas of suspected contamination be encountered, samples should be taken for contamination testing for metals, metalloids, PAH and asbestos. If any contamination is found, a site remediation report should outline the most effective method of dealing with the contamination and any validation requirements. Samples will need to be taken to determine the sulphate content to determine the class of concrete required on site.
- 7.5 Plasticity testing should also be undertaken to determine the shrinkage of any existing clays, to enable the new foundations to be designed and constructed in accordance with the current standards.

Prepared by

A handwritten signature in black ink, appearing to read 'M. Dean', with a stylized, cursive script.

M. Dean. BSc (Hons) HND

Checked by

A handwritten signature in black ink, appearing to read 'M. Huddleston', with a stylized, cursive script.

M. Huddleston. MEng

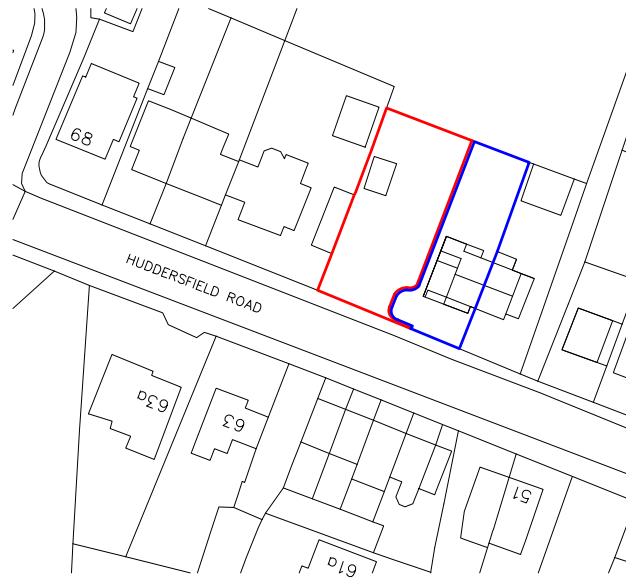
February 2022

This report is subject to the provisions of the Copyright Acts and is for the sole benefit of Mr D Brooke in respect of the proposals described.

APPENDIX A

LOCATION PLAN

PLANNING LAYOUT



SCALE 1:1250 AT A4

0M 10 20 30 40 50

LOCATION PLAN

LAND ADJ TO
60 HUDDERSFIELD ROAD
SKELMANTHORPE
HD8 9AS

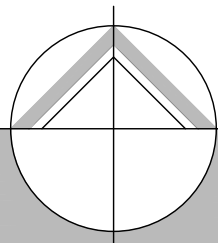
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STREET ELEVATION



SITE PLAN



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partnership

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client	MR AND MRS STEPHENSON		
project	PROPOSED RESIDENTIAL DEVELOPMENT ADJ TO 60 HUDDERSFIELD ROAD SKELMANTHORPE HD8 9AS		
drawing	PROPOSED SITE PLAN AND STREET ELEVATION		
revision	notes	date	drawn
*	*	*	*
scale :	1:200 & 1:100 AT A1	06.21	PB
project no.	drawing no.	revision	
2134	02		

APPENDIX B

GROUNDSURE REPORT

HISTORICAL PLANS

60, HUDDERSFIELD ROAD, SKELMANTHORPE, HUDDERSFIELD, HD8 9AS

Order Details

Date: 22/02/2022
Your ref: brooke_7930
Our Ref: GS-8541040
Client: Haigh Huddleston & Associates

Site Details

Location: 422679 410660
Area: 0.08 ha
Authority: [Kirklees Council](#)



Summary of findings

p. 2

Aerial image

p. 8

OS MasterMap site plan

p.12

groundsure.com/insightuserguide

Summary of findings

Page	Section	Past land use	On site	0-50m	50-250m	250-500m	500-2000m
13	1.1	Historical industrial land uses	0	0	11	30	-
15	1.2	Historical tanks	0	0	1	8	-
16	1.3	Historical energy features	0	2	1	12	-
17	1.4	Historical petrol stations	0	0	1	0	-
17	1.5	Historical garages	0	0	0	4	-
18	1.6	Historical military land	0	0	0	0	-
Page	Section	Past land use - un-grouped	On site	0-50m	50-250m	250-500m	500-2000m
19	2.1	Historical industrial land uses	0	0	16	37	-
21	2.2	Historical tanks	0	0	1	12	-
22	2.3	Historical energy features	0	4	3	19	-
23	2.4	Historical petrol stations	0	0	1	0	-
24	2.5	Historical garages	0	0	0	5	-
Page	Section	Waste and landfill	On site	0-50m	50-250m	250-500m	500-2000m
25	3.1	Active or recent landfill	0	0	0	0	-
25	3.2	Historical landfill (BGS records)	0	0	0	0	-
26	3.3	Historical landfill (LA/mapping records)	0	0	0	0	-
26	3.4	Historical landfill (EA/NRW records)	0	0	2	1	-
27	3.5	Historical waste sites	0	0	0	0	-
27	3.6	Licensed waste sites	0	0	0	0	-
27	3.7	Waste exemptions	0	0	2	23	-
Page	Section	Current industrial land use	On site	0-50m	50-250m	250-500m	500-2000m
30	4.1	Recent industrial land uses	0	1	2	-	-
31	4.2	Current or recent petrol stations	0	0	0	0	-
31	4.3	Electricity cables	0	0	0	0	-
31	4.4	Gas pipelines	0	0	0	0	-
31	4.5	Sites determined as Contaminated Land	0	0	0	0	-



31	4.6	Control of Major Accident Hazards (COMAH)	0	0	0	0	-
32	4.7	Regulated explosive sites	0	0	0	0	-
32	4.8	Hazardous substance storage/usage	0	0	0	0	-
32	4.9	Historical licensed industrial activities (IPC)	0	0	0	0	-
32	4.10	Licensed industrial activities (Part A(1))	0	0	0	0	-
32	4.11	Licensed pollutant release (Part A(2)/B)	0	0	0	0	-
33	4.12	Radioactive Substance Authorisations	0	0	0	0	-
33	4.13	Licensed Discharges to controlled waters	0	0	0	0	-
33	4.14	Pollutant release to surface waters (Red List)	0	0	0	0	-
33	4.15	Pollutant release to public sewer	0	0	0	0	-
33	4.16	List 1 Dangerous Substances	0	0	0	0	-
34	4.17	List 2 Dangerous Substances	0	0	0	0	-
34	4.18	Pollution Incidents (EA/NRW)	0	0	0	0	-
34	4.19	Pollution inventory substances	0	0	0	0	-
34	4.20	Pollution inventory waste transfers	0	0	0	0	-
34	4.21	Pollution inventory radioactive waste	0	0	0	0	-
Page	Section	Hydrogeology	On site	0-50m	50-250m	250-500m	500-2000m
35	5.1	Superficial aquifer	None (within 500m)				
36	5.2	<u>Bedrock aquifer</u>	Identified (within 500m)				
37	5.3	<u>Groundwater vulnerability</u>	Identified (within 50m)				
38	5.4	Groundwater vulnerability- soluble rock risk	None (within 0m)				
38	5.5	Groundwater vulnerability- local information	None (within 0m)				
39	5.6	<u>Groundwater abstractions</u>	0	0	0	0	21
44	5.7	Surface water abstractions	0	0	0	0	0
44	5.8	<u>Potable abstractions</u>	0	0	0	0	3
45	5.9	Source Protection Zones	0	0	0	0	-
46	5.10	Source Protection Zones (confined aquifer)	0	0	0	0	-
Page	Section	Hydrology	On site	0-50m	50-250m	250-500m	500-2000m
47	6.1	Water Network (OS MasterMap)	0	0	0	-	-

47	6.2	Surface water features	0	0	0	-	-
48	6.3	<u>WFD Surface water body catchments</u>	1	-	-	-	-
48	6.4	<u>WFD Surface water bodies</u>	0	0	0	-	-
49	6.5	<u>WFD Groundwater bodies</u>	1	-	-	-	-
Page	Section	River and coastal flooding	On site	0-50m	50-250m	250-500m	500-2000m
50	7.1	Risk of flooding from rivers and the sea	None (within 50m)				
50	7.2	Historical Flood Events	0	0	0	-	-
50	7.3	Flood Defences	0	0	0	-	-
51	7.4	Areas Benefiting from Flood Defences	0	0	0	-	-
51	7.5	Flood Storage Areas	0	0	0	-	-
52	7.6	Flood Zone 2	None (within 50m)				
52	7.7	Flood Zone 3	None (within 50m)				
Page	Section	Surface water flooding					
53	8.1	Surface water flooding	Negligible (within 50m)				
Page	Section	Groundwater flooding					
54	9.1	<u>Groundwater flooding</u>	Negligible (within 50m)				
Page	Section	Environmental designations	On site	0-50m	50-250m	250-500m	500-2000m
55	10.1	Sites of Special Scientific Interest (SSSI)	0	0	0	0	0
56	10.2	Conserved wetland sites (Ramsar sites)	0	0	0	0	0
56	10.3	Special Areas of Conservation (SAC)	0	0	0	0	0
56	10.4	Special Protection Areas (SPA)	0	0	0	0	0
56	10.5	National Nature Reserves (NNR)	0	0	0	0	0
57	10.6	Local Nature Reserves (LNR)	0	0	0	0	0
57	10.7	<u>Designated Ancient Woodland</u>	0	0	0	0	6
57	10.8	Biosphere Reserves	0	0	0	0	0
58	10.9	Forest Parks	0	0	0	0	0
58	10.10	Marine Conservation Zones	0	0	0	0	0
58	10.11	<u>Green Belt</u>	0	1	0	0	0
58	10.12	Proposed Ramsar sites	0	0	0	0	0

59	10.13	Possible Special Areas of Conservation (pSAC)	0	0	0	0	0
59	10.14	Potential Special Protection Areas (pSPA)	0	0	0	0	0
59	10.15	Nitrate Sensitive Areas	0	0	0	0	0
59	10.16	<u>Nitrate Vulnerable Zones</u>	1	0	0	0	1
61	10.17	<u>SSSI Impact Risk Zones</u>	1	-	-	-	-
62	10.18	SSSI Units	0	0	0	0	0
Page	Section	Visual and cultural designations	On site	0-50m	50-250m	250-500m	500-2000m
63	11.1	World Heritage Sites	0	0	0	-	-
64	11.2	Area of Outstanding Natural Beauty	0	0	0	-	-
64	11.3	National Parks	0	0	0	-	-
64	11.4	<u>Listed Buildings</u>	0	0	1	-	-
65	11.5	<u>Conservation Areas</u>	0	0	1	-	-
65	11.6	Scheduled Ancient Monuments	0	0	0	-	-
65	11.7	Registered Parks and Gardens	0	0	0	-	-
Page	Section	Agricultural designations	On site	0-50m	50-250m	250-500m	500-2000m
66	12.1	<u>Agricultural Land Classification</u>	Grade 3 (within 250m)				
67	12.2	Open Access Land	0	0	0	-	-
67	12.3	Tree Felling Licences	0	0	0	-	-
67	12.4	Environmental Stewardship Schemes	0	0	0	-	-
67	12.5	Countryside Stewardship Schemes	0	0	0	-	-
Page	Section	Habitat designations	On site	0-50m	50-250m	250-500m	500-2000m
68	13.1	Priority Habitat Inventory	0	0	0	-	-
68	13.2	Habitat Networks	0	0	0	-	-
68	13.3	Open Mosaic Habitat	0	0	0	-	-
68	13.4	Limestone Pavement Orders	0	0	0	-	-
Page	Section	Geology 1:10,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
69	14.1	<u>10k Availability</u>	Identified (within 500m)				
70	14.2	<u>Artificial and made ground (10k)</u>	0	0	2	3	-
72	14.3	Superficial geology (10k)	0	0	0	0	-

72	14.4	Landslip (10k)	0	0	0	0	-
73	14.5	<u>Bedrock geology (10k)</u>	2	1	2	6	-
74	14.6	<u>Bedrock faults and other linear features (10k)</u>	0	0	1	4	-
Page	Section	Geology 1:50,000 scale	On site	0-50m	50-250m	250-500m	500-2000m
75	15.1	<u>50k Availability</u>	Identified (within 500m)				
76	15.2	<u>Artificial and made ground (50k)</u>	0	0	0	1	-
77	15.3	Artificial ground permeability (50k)	0	0	-	-	-
78	15.4	Superficial geology (50k)	0	0	0	0	-
78	15.5	Superficial permeability (50k)	None (within 50m)				
78	15.6	Landslip (50k)	0	0	0	0	-
78	15.7	Landslip permeability (50k)	None (within 50m)				
79	15.8	<u>Bedrock geology (50k)</u>	2	1	2	6	-
80	15.9	<u>Bedrock permeability (50k)</u>	Identified (within 50m)				
80	15.10	<u>Bedrock faults and other linear features (50k)</u>	0	0	1	2	-
Page	Section	Boreholes	On site	0-50m	50-250m	250-500m	500-2000m
82	16.1	BGS Boreholes	0	0	0	-	-
Page	Section	Natural ground subsidence					
83	17.1	<u>Shrink swell clays</u>	Very low (within 50m)				
85	17.2	<u>Running sands</u>	Negligible (within 50m)				
86	17.3	<u>Compressible deposits</u>	Negligible (within 50m)				
87	17.4	<u>Collapsible deposits</u>	Very low (within 50m)				
88	17.5	<u>Landslides</u>	Very low (within 50m)				
89	17.6	<u>Ground dissolution of soluble rocks</u>	Negligible (within 50m)				
Page	Section	Mining, ground workings and natural cavities	On site	0-50m	50-250m	250-500m	500-2000m
90	18.1	Natural cavities	0	0	0	0	-
91	18.2	<u>BritPits</u>	0	0	1	2	-
91	18.3	<u>Surface ground workings</u>	0	0	15	-	-
92	18.4	<u>Underground workings</u>	0	0	0	3	20
93	18.5	Historical Mineral Planning Areas	0	0	0	0	-



93	18.6	Non-coal mining	0	0	0	0	0
94	18.7	<u>Mining cavities</u>	0	0	0	0	1
94	18.8	JPB mining areas	None (within 0m)				
94	18.9	<u>Coal mining</u>	Identified (within 0m)				
95	18.10	Brine areas	None (within 0m)				
95	18.11	Gypsum areas	None (within 0m)				
95	18.12	Tin mining	None (within 0m)				
95	18.13	Clay mining	None (within 0m)				
Page	Section	Radon					
96	19.1	<u>Radon</u>	Less than 1% (within 0m)				
Page	Section	Soil chemistry	On site	0-50m	50-250m	250-500m	500-2000m
97	20.1	<u>BGS Estimated Background Soil Chemistry</u>	1	0	-	-	-
97	20.2	BGS Estimated Urban Soil Chemistry	0	0	-	-	-
97	20.3	BGS Measured Urban Soil Chemistry	0	0	-	-	-
Page	Section	Railway infrastructure and projects	On site	0-50m	50-250m	250-500m	500-2000m
98	21.1	Underground railways (London)	0	0	0	-	-
98	21.2	Underground railways (Non-London)	0	0	0	-	-
99	21.3	Railway tunnels	0	0	0	-	-
99	21.4	<u>Historical railway and tunnel features</u>	0	0	5	-	-
99	21.5	Royal Mail tunnels	0	0	0	-	-
100	21.6	Historical railways	0	0	0	-	-
100	21.7	Railways	0	0	0	-	-
100	21.8	Crossrail 1	0	0	0	0	-
100	21.9	Crossrail 2	0	0	0	0	-
100	21.10	HS2	0	0	0	0	-

Recent aerial photograph



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Capture Date: 29/06/2018

Site Area: 0.08ha



Recent site history - 2012 aerial photograph



Capture Date: 26/03/2012

Site Area: 0.08ha



Recent site history - 2000 aerial photograph



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Capture Date: 21/09/2000

Site Area: 0.08ha



Recent site history - 1999 aerial photograph



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Capture Date: 10/07/1999

Site Area: 0.08ha



This map shows a residential area with a red-outlined plot. The plot is situated between a green area labeled 'El Sub Sta' and a blue area. A road runs diagonally across the map, with a red cross marking a point. Concentric circles are drawn around the plot, with labels '12.5' and '25' indicating distances. The map includes various buildings, some labeled with numbers like '63a', '63', and '51'. A north arrow is located in the top right corner.



1 Past land use



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

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1.1 Historical industrial land uses

Records within 500m

41

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

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

ID	Location	Land use	Dates present	Group ID
B	194m E	Stone Sawing and Planing Mills	1938 - 1948	1539364



ID	Location	Land use	Dates present	Group ID
B	196m NE	Stone Sawing and Planing Mills	1951	1536093
B	209m NE	Unspecified Ground Workings	1967	1530128
B	217m E	Unspecified Quarry	1948	1507877
B	218m E	Unspecified Ground Workings	1938	1472510
B	219m E	Unspecified Pit	1951	1451885
B	229m E	Unspecified Quarry	1904	1459044
D	230m SE	Fire Station	1967 - 1993	1489381
B	237m NE	Railway Sidings	1938 - 1948	1505199
B	241m NE	Railway Sidings	1951	1548688
B	243m E	Unspecified Quarry	1892	1461518
F	338m E	Unspecified Mills	1938	1509433
F	338m E	Unspecified Mills	1951	1525837
F	340m E	Unspecified Mills	1948	1487189
F	349m E	Unspecified Mills	1892	1553901
H	364m N	Cuttings	1892	1513841
I	370m N	Cuttings	1892	1557074
I	377m N	Cuttings	1904	1470233
I	377m N	Cuttings	1948 - 1951	1522701
I	377m N	Cuttings	1938	1467618
H	378m N	Cuttings	1932	1506249
H	378m N	Cuttings	1948	1557004
H	378m N	Cuttings	1904	1465053
H	380m N	Cuttings	1951	1543248
1	381m N	Cuttings	1967 - 1993	1501257
2	381m N	Railway Sidings	1993	1409307
3	382m N	Unspecified Workings	1979	1544055
J	403m NE	Collieries	1948	1549760
J	406m NE	Railway Sidings	1938 - 1948	1461732



ID	Location	Land use	Dates present	Group ID
J	406m NE	Railway Sidings	1904	1479889
J	406m NE	Collieries	1904	1531787
J	407m NE	Railway Sidings	1892	1534636
J	412m NE	Railway Sidings	1951	1464636
4	429m E	Unspecified Pit	1892	1451887
J	443m N	Unspecified Mine	1967 - 1979	1476668
J	443m N	Railway Sidings	1967	1519625
J	463m NE	Railway Sidings	1979	1513059
5	488m NW	Cuttings	1967 - 1993	1525309
J	496m NE	Railway Building	1904	1506302
J	496m NE	Railway Building	1938 - 1948	1550568
J	499m NE	Railway Station	1892	1533838

This data is sourced from Ordnance Survey / Groundsure.

1.2 Historical tanks

Records within 500m

9

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

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

ID	Location	Land use	Dates present	Group ID
C	203m S	Unspecified Tank	1913	223445
B	264m E	Unspecified Tank	1913	223446
B	268m E	Unspecified Tank	1893 - 1913	248345
B	291m NE	Unspecified Tank	1906	223447
L	426m W	Tanks	1987 - 1996	237527
M	430m W	Unspecified Tank	1987	241019



ID	Location	Land use	Dates present	Group ID
M	434m W	Unspecified Tank	1996	241663
M	434m W	Unspecified Tank	1989	237053
L	457m W	Tanks	1987 - 1996	236348

This data is sourced from Ordnance Survey / Groundsure.

1.3 Historical energy features

Records within 500m

15

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

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

ID	Location	Land use	Dates present	Group ID
A	40m NW	Electricity Substation	1969 - 1989	143045
A	47m NW	Electricity Substation	1996	145311
C	233m S	Electricity Substation	1987 - 1996	142299
G	360m E	Electricity Substation	1969	132387
F	369m NE	Electricity Substation	-	128731
F	369m NE	Electricity Substation	1986	133043
F	369m NE	Electricity Substation	1993 - 1995	137126
F	370m NE	Electricity Substation	1980 - 1989	144182
G	386m E	Electricity Substation	1980 - 1989	139321
G	387m E	Electricity Substation	-	128813
G	387m E	Electricity Substation	1993	132143
G	387m E	Electricity Substation	1995	133873
G	387m E	Electricity Substation	1995	133874
K	426m S	Electricity Substation	1996	135348
K	428m S	Electricity Substation	1969 - 1989	137058



This data is sourced from Ordnance Survey / Groundsure.

1.4 Historical petrol stations

Records within 500m

1

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

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

ID	Location	Land use	Dates present	Group ID
D	228m SE	Filling Station	1987	2425

This data is sourced from Ordnance Survey / Groundsure.

1.5 Historical garages

Records within 500m

4

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

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

ID	Location	Land use	Dates present	Group ID
E	329m E	Garage	1989	43496
E	330m E	Garage	-	41024
E	330m E	Garage	1993 - 1995	45515
E	330m E	Garage	1969	42347

This data is sourced from Ordnance Survey / Groundsure.



1.6 Historical military land

Records within 500m

0

Areas of military land digitised from multiple sources including the National Archives, local records, MOD records and verified other sources, intelligently grouped into contiguous features.

This data is sourced from Ordnance Survey / Groundsure / other sources.



2 Past land use - un-grouped



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

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2.1 Historical industrial land uses

Records within 500m

53

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

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

ID	Location	Land Use	Date	Group ID
B	194m E	Stone Sawing and Planing Mills	1948	1539364
B	195m NE	Stone Sawing and Planing Mills	1938	1539364
B	196m NE	Stone Sawing and Planing Mills	1951	1536093

ID	Location	Land Use	Date	Group ID
B	209m NE	Unspecified Ground Workings	1967	1530128
B	217m E	Unspecified Quarry	1948	1507877
B	218m E	Unspecified Ground Workings	1938	1472510
B	218m E	Unspecified Ground Workings	1938	1472510
B	219m E	Unspecified Pit	1951	1451885
B	229m E	Unspecified Quarry	1904	1459044
D	230m SE	Fire Station	1993	1489381
D	230m SE	Fire Station	1979	1489381
D	230m SE	Fire Station	1967	1489381
B	237m NE	Railway Sidings	1948	1505199
B	241m NE	Railway Sidings	1951	1548688
B	243m NE	Railway Sidings	1938	1505199
B	243m E	Unspecified Quarry	1892	1461518
F	338m E	Unspecified Mills	1951	1525837
F	338m E	Unspecified Mills	1938	1509433
F	340m E	Unspecified Mills	1948	1487189
F	349m E	Unspecified Mills	1892	1553901
H	364m N	Cuttings	1892	1513841
I	370m N	Cuttings	1892	1557074
I	377m N	Cuttings	1948	1522701
I	377m N	Cuttings	1904	1470233
I	377m N	Cuttings	1938	1467618
H	378m N	Cuttings	1932	1506249
H	378m N	Cuttings	1948	1557004
H	378m N	Cuttings	1904	1465053
H	380m N	Cuttings	1951	1543248
1	381m N	Railway Sidings	1993	1409307
I	381m N	Cuttings	1951	1522701



ID	Location	Land Use	Date	Group ID
J	381m N	Cuttings	1993	1501257
J	381m N	Cuttings	1979	1501257
J	381m N	Cuttings	1967	1501257
2	382m N	Unspecified Workings	1979	1544055
K	403m NE	Collieries	1948	1549760
K	406m NE	Railway Sidings	1948	1461732
K	406m NE	Collieries	1904	1531787
K	406m NE	Railway Sidings	1904	1479889
K	407m NE	Railway Sidings	1892	1534636
K	412m NE	Railway Sidings	1951	1464636
K	414m NE	Railway Sidings	1938	1461732
3	429m E	Unspecified Pit	1892	1451887
K	443m N	Railway Sidings	1967	1519625
K	443m N	Unspecified Mine	1967	1476668
K	463m NE	Railway Sidings	1979	1513059
O	488m NW	Cuttings	1993	1525309
O	488m NW	Cuttings	1979	1525309
O	488m NW	Cuttings	1967	1525309
K	496m NE	Railway Building	1948	1550568
K	496m NE	Railway Building	1904	1506302
K	497m NE	Railway Building	1938	1550568
K	499m NE	Railway Station	1892	1533838

This data is sourced from Ordnance Survey / Groundsure.

2.2 Historical tanks

Records within 500m

13

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



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

ID	Location	Land Use	Date	Group ID
C	203m S	Unspecified Tank	1913	223445
B	264m E	Unspecified Tank	1913	223446
B	268m E	Unspecified Tank	1893	248345
B	268m E	Unspecified Tank	1906	248345
B	268m E	Unspecified Tank	1913	248345
B	291m NE	Unspecified Tank	1906	223447
M	426m W	Tanks	1996	237527
M	427m W	Tanks	1987	237527
N	430m W	Unspecified Tank	1987	241019
N	434m W	Unspecified Tank	1996	241663
N	434m W	Unspecified Tank	1989	237053
M	457m W	Tanks	1996	236348
M	458m W	Tanks	1987	236348

This data is sourced from Ordnance Survey / Groundsure.

2.3 Historical energy features

Records within 500m

26

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

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

ID	Location	Land Use	Date	Group ID
A	40m NW	Electricity Substation	1969	143045
A	42m W	Electricity Substation	1987	143045
A	46m W	Electricity Substation	1989	143045
A	47m NW	Electricity Substation	1996	145311
C	233m S	Electricity Substation	1989	142299
C	234m S	Electricity Substation	1996	142299



ID	Location	Land Use	Date	Group ID
C	235m S	Electricity Substation	1987	142299
G	360m E	Electricity Substation	1969	132387
F	369m NE	Electricity Substation	1986	133043
F	369m NE	Electricity Substation	1995	137126
F	369m NE	Electricity Substation	1995	137126
F	369m NE	Electricity Substation	1993	137126
F	369m NE	Electricity Substation	-	128731
F	370m NE	Electricity Substation	1989	144182
F	370m NE	Electricity Substation	1980	144182
G	386m E	Electricity Substation	1989	139321
G	386m E	Electricity Substation	1980	139321
G	387m E	Electricity Substation	1986	139321
G	387m E	Electricity Substation	1995	133873
G	387m E	Electricity Substation	1995	133874
G	387m E	Electricity Substation	1993	132143
G	387m E	Electricity Substation	-	128813
L	426m S	Electricity Substation	1996	135348
L	428m S	Electricity Substation	1969	137058
L	428m S	Electricity Substation	1989	137058
L	429m S	Electricity Substation	1987	137058

This data is sourced from Ordnance Survey / Groundsure.

2.4 Historical petrol stations

Records within 500m

1

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

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



ID	Location	Land Use	Date	Group ID
D	228m SE	Filling Station	1987	2425

This data is sourced from Ordnance Survey / Groundsure.

2.5 Historical garages

Records within 500m

5

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

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

ID	Location	Land Use	Date	Group ID
E	329m E	Garage	1989	43496
E	330m E	Garage	1995	45515
E	330m E	Garage	1993	45515
E	330m E	Garage	-	41024
E	330m E	Garage	1969	42347

This data is sourced from Ordnance Survey / Groundsure.



3 Waste and landfill



- Site Outline
- Search buffers in metres (m)
- Historical landfill (EA/NRW)
- Waste exemptions

3.1 Active or recent landfill

Records within 500m

0

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

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

3.2 Historical landfill (BGS records)

Records within 500m

0

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

This data is sourced from the British Geological Survey.

3.3 Historical landfill (LA/mapping records)

Records within 500m

0

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

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

3.4 Historical landfill (EA/NRW records)

Records within 500m

3

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

Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Details		
1	134m E	Site Address: Derelict Quarry at rear of Environmental Health Depot, Station Road, Skelmanthorpe Licence Holder Address: Directorate of Technical Services, Civic Centre Phase III, Huddersfield	Waste Licence: Yes Site Reference: 4400/(231) Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 11/06/1980 Licence Surrender: 03/06/1988	Operator: - Licence Holder: Kirklees Metropolitan Borough Council First Recorded 11/06/1980 Last Recorded: 03/06/1988
2	229m E	Site Address: Station Road, Skelmanthorpe Licence Holder Address: -	Waste Licence: Yes Site Reference: 4400/(231) Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 11/06/1980 Licence Surrender: 15/02/1988	Operator: - Licence Holder: Kirklees Metropolitan Borough Council First Recorded 01/01/1980 Last Recorded: 31/12/1981
B	425m S	Site Address: Land to the Rear of Ponker Farm and adjacent to Ponker Lane, Ponker Lane, Skelmanthorpe, Huddersfield Licence Holder Address: Ponker Farm, Skelmanthorpe, Huddersfield	Waste Licence: Yes Site Reference: 4700/0763, 4700/0273 Waste Type: Inert, Commercial Environmental Permitting Regulations (Waste) Reference: - Licence Issue: 06/08/1990 Licence Surrender: 22/04/1994	Operator: - Licence Holder: Wilson Armitage and Sons Limited First Recorded 31/08/1990 Last Recorded: 31/12/1993

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

3.5 Historical waste sites

Records within 500m	0
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Waste site records derived from Local Authority planning records and high detail historical mapping.

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

3.6 Licensed waste sites

Records within 500m	0
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Active or recently closed waste sites under Environment Agency/Natural Resources Wales regulation.

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

3.7 Waste exemptions

Records within 500m	25
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Activities involving the storage, treatment, use or disposal of waste that are exempt from needing a permit. Exemptions have specific limits and conditions that must be adhered to.

Features are displayed on the Waste and landfill map on **page 25**

ID	Location	Site	Reference	Category	Sub-Category	Description
A	174m S	New Development, Heather Fold, Skelmanthorpe, HD8 9LD	WEX116409	Disposing of waste exemption	Not on a farm	Burning waste in the open
A	174m S	New Development, Heather Fold, Skelmanthorpe, HD8 9LD	WEX116409	Using waste exemption	Not on a farm	Use of waste in construction
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of waste from dredging of inland waters
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Disposing of waste exemption	Agricultural Waste Only	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Disposing of waste exemption	Agricultural Waste Only	Burning waste in the open
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Using waste exemption	Agricultural Waste Only	Use of waste in construction

ID	Location	Site	Reference	Category	Sub-Category	Description
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Using waste exemption	Agricultura l Waste Only	Spreading waste on agricultural land to confer benefit
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Using waste exemption	Agricultura l Waste Only	Burning of waste as a fuel in a small appliance
B	490m S	Ponker Farm Ponker Lane HUDDERSFIELD HD8 9AW	EPR/ZH0476XZ /A001	Using waste exemption	Agricultura l Waste Only	Use of waste for a specified purpose
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Incorporation of ash into soil
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Use of mulch
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Spreading of plant matter to confer benefit
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Use of waste in construction
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Use of waste for a specified purpose
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Spreading waste on non- agricultural land to confer benefit
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Using waste exemption	On a farm	Use of depolluted end-of-life vehicles for vehicle parts
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX180690	Treating waste exemption	On a farm	Preparatory treatments (baling, sorting, shredding etc)
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Disposing of waste exemption	On a farm	Deposit of waste from dredging of inland waters

ID	Location	Site	Reference	Category	Sub-Category	Description
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Disposing of waste exemption	On a farm	Deposit of agricultural waste consisting of plant tissue under a Plant Health notice
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Disposing of waste exemption	On a farm	Burning waste in the open
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Using waste exemption	On a farm	Use of waste in construction
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Using waste exemption	On a farm	Spreading waste on agricultural land to confer benefit
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Using waste exemption	On a farm	Burning of waste as a fuel in a small appliance
B	500m S	PONKER FARM, PONKER LANE, SKELMANTHORPE, HUDDERSFIELD, HD8 9AW	WEX017776	Using waste exemption	On a farm	Use of waste for a specified purpose

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



4 Current industrial land use



- Site Outline
- Search buffers in metres (m)
- Recent industrial land uses

4.1 Recent industrial land uses

Records within 250m

3

Current potentially contaminative industrial sites.

Features are displayed on the Current industrial land use map on **page 30**

ID	Location	Company	Address	Activity	Category
1	49m NW	Electricity Sub Station	West Yorkshire, HD8	Electrical Features	Infrastructure and Facilities
2	237m S	Electricity Sub Station	West Yorkshire, HD8	Electrical Features	Infrastructure and Facilities

ID	Location	Company	Address	Activity	Category
3	245m SE	Skelmanthorpe Fire Station	Fire Station, Cumberworth Road, Skelmanthorpe, Huddersfield, West Yorkshire, HD8 9AP	Fire Brigade Stations	Central and Local Government

This data is sourced from Ordnance Survey.

4.2 Current or recent petrol stations

Records within 500m	0
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Open, closed, under development and obsolete petrol stations.

This data is sourced from Experian.

4.3 Electricity cables

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

High voltage underground electricity transmission cables.

This data is sourced from National Grid.

4.4 Gas pipelines

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

High pressure underground gas transmission pipelines.

This data is sourced from National Grid.

4.5 Sites determined as Contaminated Land

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

This data is sourced from Local Authority records.

4.6 Control of Major Accident Hazards (COMAH)

Records within 500m	0
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Control of Major Accident Hazards (COMAH) sites. This data includes upper and lower tier sites, and includes a historical archive of COMAH sites and Notification of Installations Handling Hazardous Substances (NIHHS) records.

This data is sourced from the Health and Safety Executive.

4.7 Regulated explosive sites

Records within 500m**0**

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

This data is sourced from the Health and Safety Executive.

4.8 Hazardous substance storage/usage

Records within 500m**0**

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

This data is sourced from Local Authority records.

4.9 Historical licensed industrial activities (IPC)

Records within 500m**0**

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

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

4.10 Licensed industrial activities (Part A(1))

Records within 500m**0**

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

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

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

Records within 500m**0**

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

This data is sourced from Local Authority records.



4.12 Radioactive Substance Authorisations

Records within 500m**0**

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

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

4.13 Licensed Discharges to controlled waters

Records within 500m**0**

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

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

4.14 Pollutant release to surface waters (Red List)

Records within 500m**0**

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

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

4.15 Pollutant release to public sewer

Records within 500m**0**

Discharges of Special Category Effluents to the public sewer.

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

4.16 List 1 Dangerous Substances

Records within 500m**0**

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

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

4.17 List 2 Dangerous Substances

Records within 500m**0**

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

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

4.18 Pollution Incidents (EA/NRW)

Records within 500m**0**

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

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

4.19 Pollution inventory substances

Records within 500m**0**

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

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

4.20 Pollution inventory waste transfers

Records within 500m**0**

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

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

4.21 Pollution inventory radioactive waste

Records within 500m**0**

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

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



5 Hydrogeology - Superficial aquifer

5.1 Superficial aquifer

Records within 500m

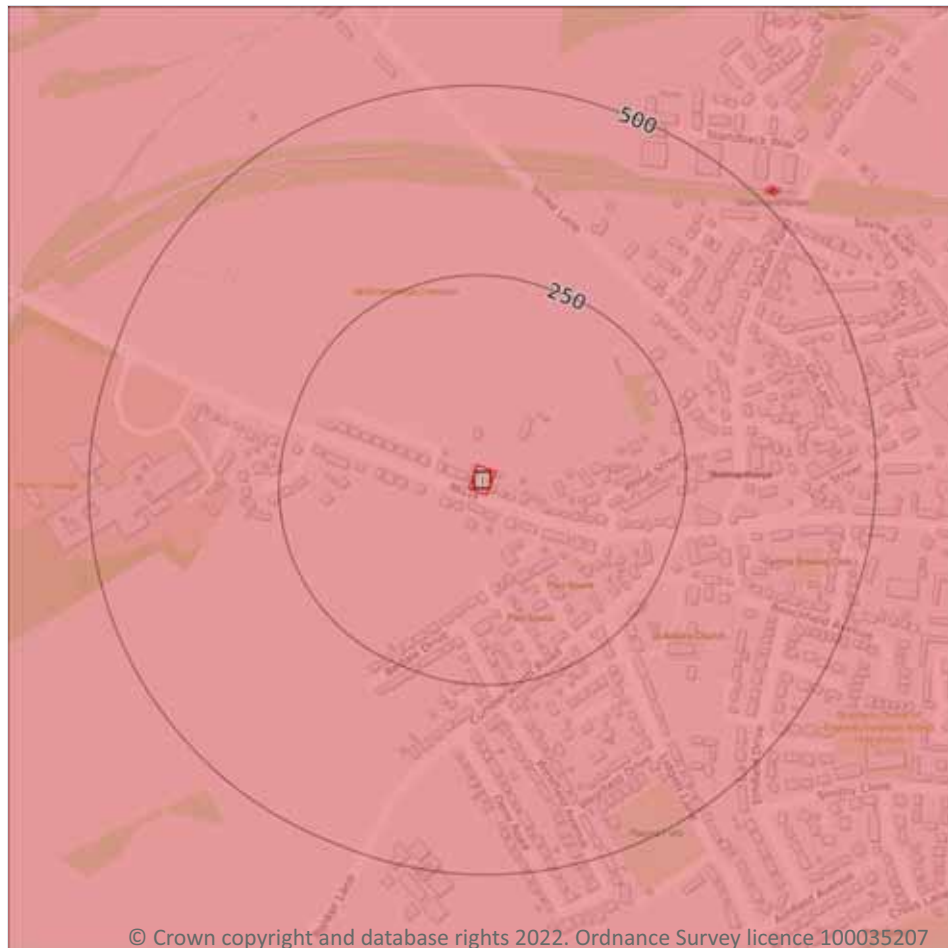
0

Aquifer status of groundwater held within superficial geology.

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



Bedrock aquifer



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

5.2 Bedrock aquifer

Records within 500m

1

Aquifer status of groundwater held within bedrock geology.

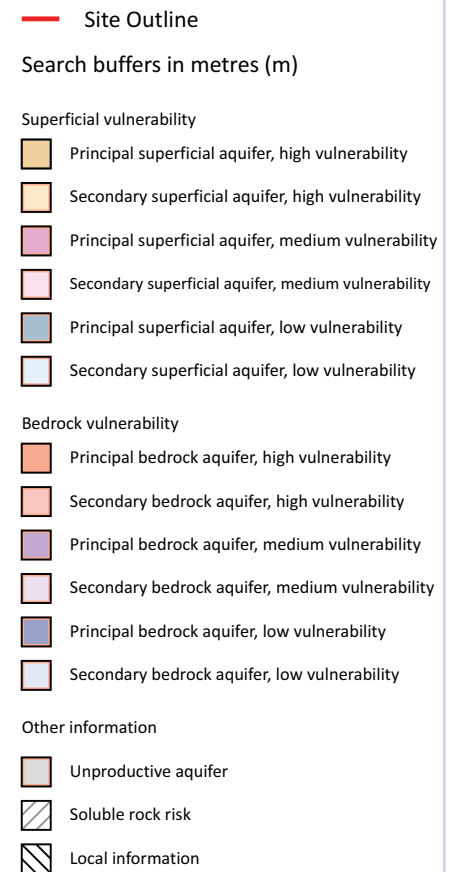
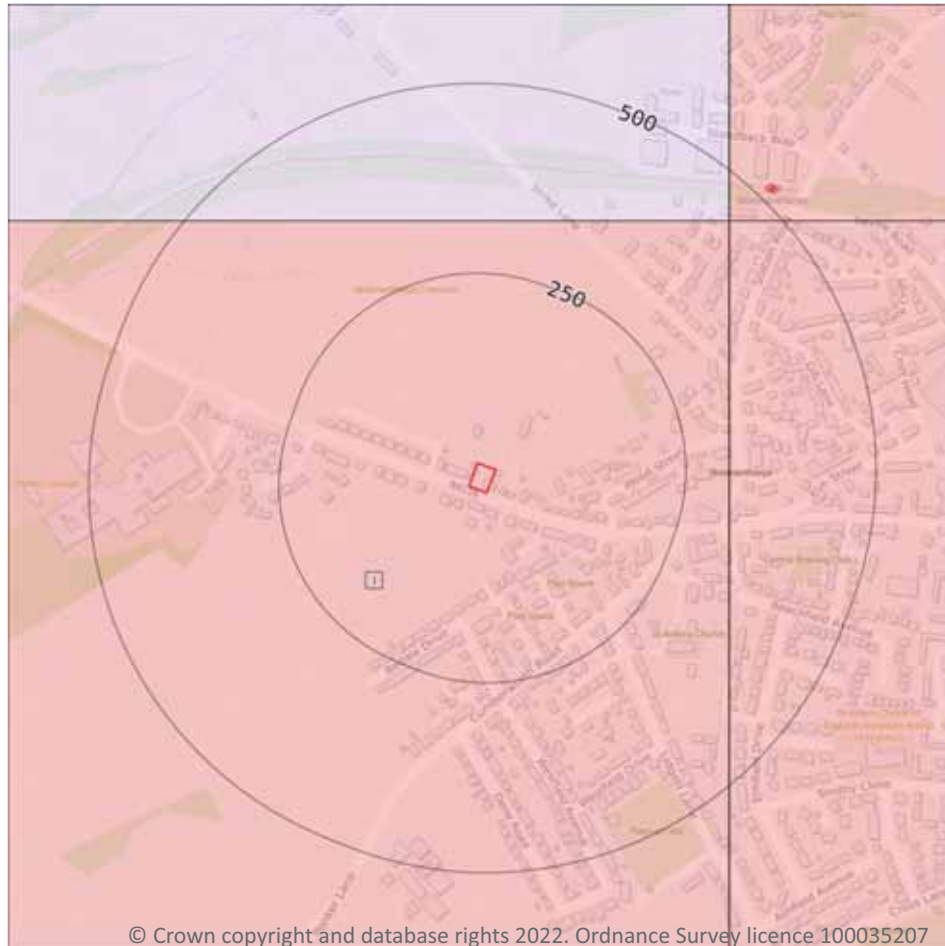
Features are displayed on the Bedrock aquifer map on **page 36**

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

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



Groundwater vulnerability



5.3 Groundwater vulnerability

Records within 50m

1

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

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

Features are displayed on the Groundwater vulnerability map on **page 37**

ID	Location	Summary	Soil / surface	Superficial geology	Bedrock geology
1	On site	Summary Classification: Secondary bedrock aquifer - High Vulnerability Combined classification: Productive Bedrock Aquifer, No Superficial Aquifer	Leaching class: High Infiltration value: >70% Dilution value: 300- 550mm/year	Vulnerability: - Aquifer type: - Thickness: <3m Patchiness value: <90% Recharge potential: No Data	Vulnerability: High Aquifer type: Secondary Flow mechanism: Well connected fractures

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

5.4 Groundwater vulnerability- soluble rock risk

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

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

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

5.5 Groundwater vulnerability- local information

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

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

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

Abstractions and Source Protection Zones



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

5.6 Groundwater abstractions

Records within 2000m

21

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

Features are displayed on the Abstractions and Source Protection Zones map on **page 39**

ID	Location	Details	
-	648m E	Status: Historical Licence No: 2/27/08/091 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: DAWSON FUR FABRICS LIMITED Easting: 423300 Northing: 410900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1977 Version End Date: -
-	648m E	Status: Historical Licence No: 2/27/08/091 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: DAWSON FUR FABRICS LIMITED Easting: 423300 Northing: 410900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 100 Version Start Date: 27/09/1977 Version End Date: -
-	648m E	Status: Historical Licence No: 2/27/08/091 Details: General use relating to Secondary Category (Medium Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SKELMATHORPE Data Type: Point Name: FLEECE LTD INC DAWSON FABRICS Easting: 423300 Northing: 410900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 102 Version Start Date: 01/10/2002 Version End Date: -
-	648m E	Status: Historical Licence No: 2/27/08/091 Details: General Cooling (Existing Licences Only) (High Loss) Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SKELMATHORPE Data Type: Point Name: FLEECE LTD INC DAWSON FABRICS Easting: 423300 Northing: 410900	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 102 Version Start Date: 01/10/2002 Version End Date: -



ID	Location	Details	
-	648m E	Status: Historical Licence No: 2/27/08/091 Details: Process Water Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SKELMATHORPE Data Type: Point Name: TECHNIFLEECE LTD Easting: 423300 Northing: 410900	Annual Volume (m ³): 131000 Max Daily Volume (m ³): 545 Original Application No: - Original Start Date: 27/09/1977 Expiry Date: - Issue No: 103 Version Start Date: 13/03/2006 Version End Date: -
-	969m E	Status: Historical Licence No: 2/27/13/174 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: SIMMONDS Easting: 423660 Northing: 410740	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 23/12/1994 Version End Date: -
-	969m E	Status: Historical Licence No: 2/27/13/174 Details: Raw Water Supply Direct Source: GROUNDWATERS Point: BOREHOLE-COAL MEASURES-SKELMANTHORPE Data Type: Point Name: SIMMONDS Easting: 423660 Northing: 410740	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: - Issue No: 101 Version Start Date: 03/06/2001 Version End Date: -
-	1356m SW	Status: Historical Licence No: 2/27/11/124 Details: General use relating to Secondary Category (High Loss) Direct Source: GROUNDWATERS Point: SPRING - COAL MEASURES - DAY HOLE WORKINGS Data Type: Point Name: HEPWORTH PIPE CO LTD Easting: 421800 Northing: 409600	Annual Volume (m ³): 6819 Max Daily Volume (m ³): 27.27 Original Application No: - Original Start Date: 26/05/1966 Expiry Date: - Issue No: 100 Version Start Date: 26/05/1966 Version End Date: -
-	1438m S	Status: Historical Licence No: 2/27/08/005 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL X2 Data Type: Point Name: SHAW Easting: 423200 Northing: 409300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 25/01/1985 Version End Date: -



ID	Location	Details	
-	1438m S	Status: Historical Licence No: 2/27/08/005 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: WELL X2 - COAL MEASURES - DENBY DALE Data Type: Point Name: D M & J SHAW Easting: 423200 Northing: 409300	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 14/12/1965 Expiry Date: - Issue No: 100 Version Start Date: 25/01/1985 Version End Date: -
-	1652m W	Status: Historical Licence No: 2/27/11/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-PENNINE GARDEN CENTRE, HUDDS Data Type: Point Name: ARMITAGE & SONS T/A ARMITAGE GARDEN CENTRE Easting: 421100 Northing: 411200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/04/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 11/04/2001 Version End Date: -
-	1652m W	Status: Historical Licence No: 2/27/11/187 Details: Spray Irrigation - Direct Direct Source: GROUNDWATERS Point: BOREHOLE-LOWER COAL MEASURES-PENNINE GARDEN CENTRE Data Type: Point Name: ARMITAGE GARDEN CENTRE Easting: 421100 Northing: 411200	Annual Volume (m ³): 10000 Max Daily Volume (m ³): 50 Original Application No: - Original Start Date: 11/04/2001 Expiry Date: 31/03/2015 Issue No: 1 Version Start Date: 11/04/2001 Version End Date: -
-	1661m NW	Status: Historical Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: UNDERGROUND STRATA - COAL MEASURES Data Type: Point Name: T R & C HALL Easting: 421550 Northing: 411910	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 2 Version Start Date: 18/09/2002 Version End Date: -
-	1661m NW	Status: Active Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - SHELLEY Data Type: Point Name: C & M HALL Easting: 421550 Northing: 411910	Annual Volume (m ³): 32,225 Max Daily Volume (m ³): 89 Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 4 Version Start Date: 31/10/2016 Version End Date: -



ID	Location	Details	
-	1740m NW	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1740m NW	Status: Historical Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1740m NW	Status: Active Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SHELLEY Data Type: Point Name: C & M HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): 32,225 Max Daily Volume (m ³): 89 Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 4 Version Start Date: 31/10/2016 Version End Date: -
-	1758m NW	Status: Historical Licence No: 2/27/08/126 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421750 Northing: 412180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1758m NW	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421750 Northing: 412180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -

ID	Location	Details	
-	1949m NW	Status: Historical Licence No: 2/27/11/178 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: DEARNLEY Easting: 420900 Northing: 411500	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 07/11/1995 Expiry Date: - Issue No: 100 Version Start Date: 07/11/1995 Version End Date: -
-	1949m NW	Status: Active Licence No: 2/27/11/178 Details: General Farming & Domestic Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - SHELLEY Data Type: Point Name: DEARNLEY Easting: 420900 Northing: 411500	Annual Volume (m ³): 9,855 Max Daily Volume (m ³): 27 Original Application No: - Original Start Date: 07/11/1995 Expiry Date: - Issue No: 100 Version Start Date: 01/04/2008 Version End Date: -

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

5.7 Surface water abstractions

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

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

5.8 Potable abstractions

Records within 2000m	3
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Licensed potable water abstractions for sites extracting more than 20 cubic metres of water a day and includes active and historical records. The data may be for a single abstraction point, a stretch of watercourse or a larger area.

Features are displayed on the Abstractions and Source Protection Zones map on **page 39**

ID	Location	Details	
-	969m E	Status: Historical Licence No: 2/27/13/174 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE Data Type: Point Name: SIMMONDS Easting: 423660 Northing: 410740	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 23/12/1994 Expiry Date: - Issue No: 100 Version Start Date: 23/12/1994 Version End Date: -
-	1740m NW	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE - COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421820 Northing: 412200	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -
-	1758m NW	Status: Historical Licence No: 2/27/08/126 Details: Drinking, Cooking, Sanitary, Washing, (Small Garden) - Household Direct Source: GROUNDWATERS Point: BOREHOLE- COAL MEASURES - HUDDERSFIELD Data Type: Point Name: T/A T R & C HALL Easting: 421750 Northing: 412180	Annual Volume (m ³): - Max Daily Volume (m ³): - Original Application No: - Original Start Date: 11/10/2000 Expiry Date: - Issue No: 1 Version Start Date: 11/10/2000 Version End Date: -

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

5.9 Source Protection Zones

Records within 500m	0
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Source Protection Zones define the sensitivity of an area around a potable abstraction site to contamination.

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

5.10 Source Protection Zones (confined aquifer)

Records within 500m

0

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

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



6 Hydrology



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

6.1 Water Network (OS MasterMap)

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.2 Surface water features

Records within 250m

0

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

This data is sourced from the Ordnance Survey.

6.3 WFD Surface water body catchments

Records on site

1

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

Features are displayed on the Hydrology map on **page 47**

ID	Location	Type	Water body catchment	Water body ID	Operational catchment	Management catchment
A	On site	River	Dearne from Source to Bentley Brook	GB104027063220	Dearne	Don and Rother

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

6.4 WFD Surface water bodies

Records identified

1

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

Features are displayed on the Hydrology map on **page 47**

ID	Location	Type	Name	Water body ID	Overall rating	Chemical rating	Ecological rating	Year
-	637m N	River	Dearne from Source to Bentley Brook	GB104027063220	Moderate	Fail	Moderate	2019

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



6.5 WFD Groundwater bodies

Records on site

1

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

Features are displayed on the Hydrology map on **page 47**

ID	Location	Name	Water body ID	Overall rating	Chemical rating	Quantitative	Year
A	On site	Don & Rother Millstone grit & Coal Measures	<u>GB40402G992300</u>	Poor	Poor	Good	2019

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



7 River and coastal flooding

7.1 Risk of flooding from rivers and the sea

Records within 50m

0

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

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

7.2 Historical Flood Events

Records within 250m

0

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

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

7.3 Flood Defences

Records within 250m

0

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

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

7.4 Areas Benefiting from Flood Defences

Records within 250m

0

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

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

7.5 Flood Storage Areas

Records within 250m

0

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

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



River and coastal flooding - Flood Zones

7.6 Flood Zone 2

Records within 50m

0

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

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

7.7 Flood Zone 3

Records within 50m

0

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

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

8 Surface water flooding

8.1 Surface water flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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

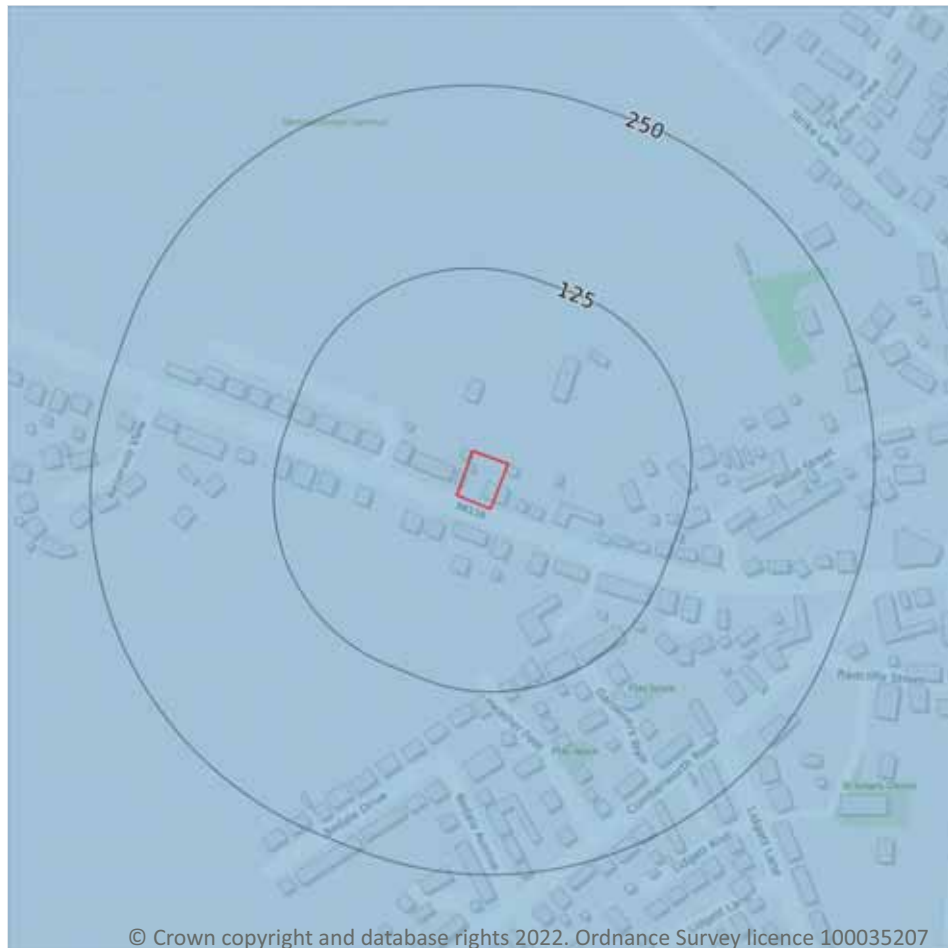
The data shown on the map and in the table above shows the highest likelihood of flood events happening at the site. Lower likelihood events may have greater flood depths and hence a greater potential impact on a site. The table below shows the maximum flood depths for a range of return periods for the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

Return period	Maximum modelled depth
1 in 1000 year	Negligible
1 in 250 year	Negligible
1 in 100 year	Negligible
1 in 30 year	Negligible

This data is sourced from Ambiental Risk Analytics.



9 Groundwater flooding



— Site Outline
Search buffers in metres (m)

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

9.1 Groundwater flooding

Highest risk on site

Negligible

Highest risk within 50m

Negligible

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

Features are displayed on the Groundwater flooding map on **page 54**

This data is sourced from Ambiantal Risk Analytics.

10 Environmental designations



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- Site Outline
- Search buffers in metres (m)
- Designated Ancient Woodland
- Green Belt

10.1 Sites of Special Scientific Interest (SSSI)

Records within 2000m

0

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

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

10.2 Conserved wetland sites (Ramsar sites)

Records within 2000m**0**

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

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

10.3 Special Areas of Conservation (SAC)

Records within 2000m**0**

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

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

10.4 Special Protection Areas (SPA)

Records within 2000m**0**

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

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

10.5 National Nature Reserves (NNR)

Records within 2000m**0**

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

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

10.6 Local Nature Reserves (LNR)

Records within 2000m**0**

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

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

10.7 Designated Ancient Woodland

Records within 2000m**6**

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

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Woodland Type
2	793m NW	Springs Wood	Ancient & Semi-Natural Woodland
3	962m N	Lightcliff Wood/rough Piece	Ancient Replanted Woodland
4	1162m E	Blacker Wood	Ancient & Semi-Natural Woodland
5	1207m E	Blacker Wood	Ancient & Semi-Natural Woodland
-	1320m S	Wither Wood	Ancient Replanted Woodland
7	1572m NE	Upper Owers Wood	Ancient Replanted Woodland

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

10.8 Biosphere Reserves

Records within 2000m**0**

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

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



10.9 Forest Parks

Records within 2000m**0**

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

This data is sourced from the Forestry Commission.

10.10 Marine Conservation Zones

Records within 2000m**0**

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

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

10.11 Green Belt

Records within 2000m**1**

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

Features are displayed on the Environmental designations map on **page 55**

ID	Location	Name	Local Authority name
1	3m N	South and West Yorkshire	Kirklees

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

10.12 Proposed Ramsar sites

Records within 2000m**0**

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

This data is sourced from Natural England.

10.13 Possible Special Areas of Conservation (pSAC)

Records within 2000m**0**

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

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

10.14 Potential Special Protection Areas (pSPA)

Records within 2000m**0**

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

This data is sourced from Natural England.

10.15 Nitrate Sensitive Areas

Records within 2000m**0**

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

This data is sourced from Natural England.

10.16 Nitrate Vulnerable Zones

Records within 2000m**2**

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

Location	Name	Type	NVZ ID	Status
On site	River Dearne NVZ	Surface Water	278	Existing

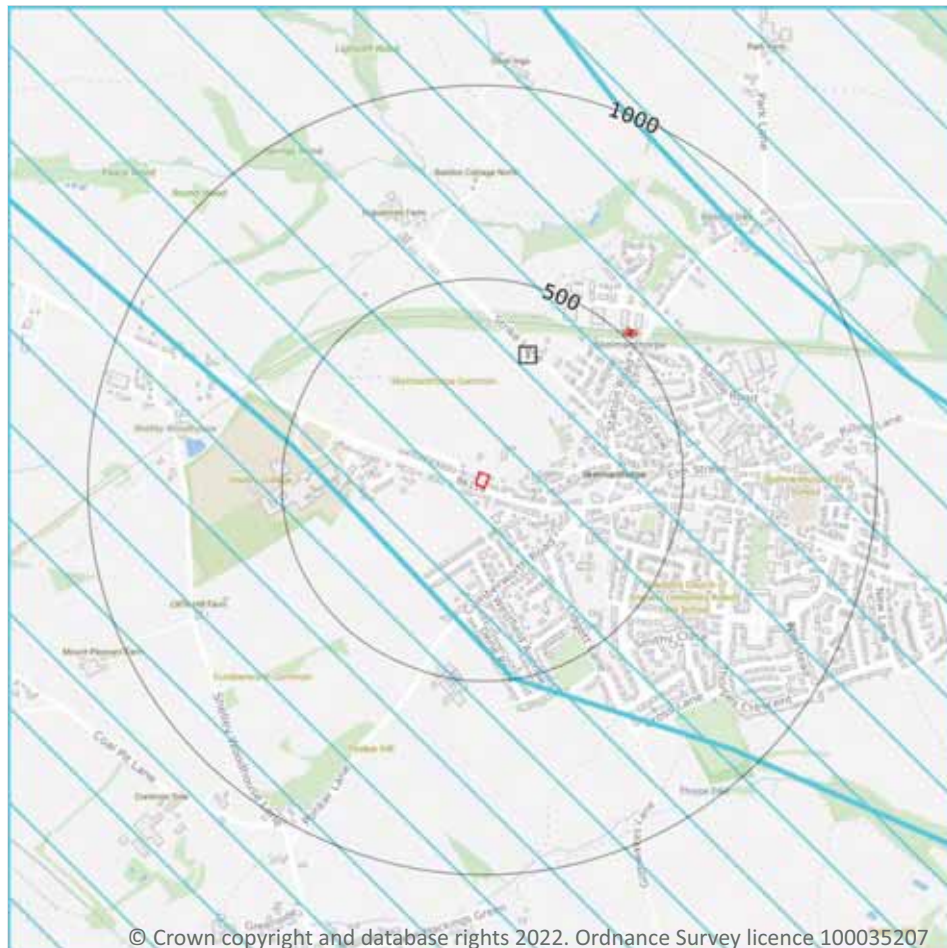


Location	Name	Type	NVZ ID	Status
1399m E	River Dearne NVZ	Surface Water	278	Existing

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



SSSI Impact Zones and Units



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

10.17 SSSI Impact Risk Zones

Records on site

1

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

Features are displayed on the SSSI Impact Zones and Units map on **page 61**

ID	Location	Type of developments requiring consultation
1	On site	Air pollution - Livestock & poultry units with floorspace > 500m ² , slurry lagoons & digestate stores > 4000m ² . Combustion - General combustion processes >50mw energy input. incl: energy from waste incineration, other incineration, landfill gas generation plant, pyrolysis/gasification, anaerobic digestion, sewage treatment works, other incineration/ combustion.

This data is sourced from Natural England.

10.18 SSSI Units

Records within 2000m

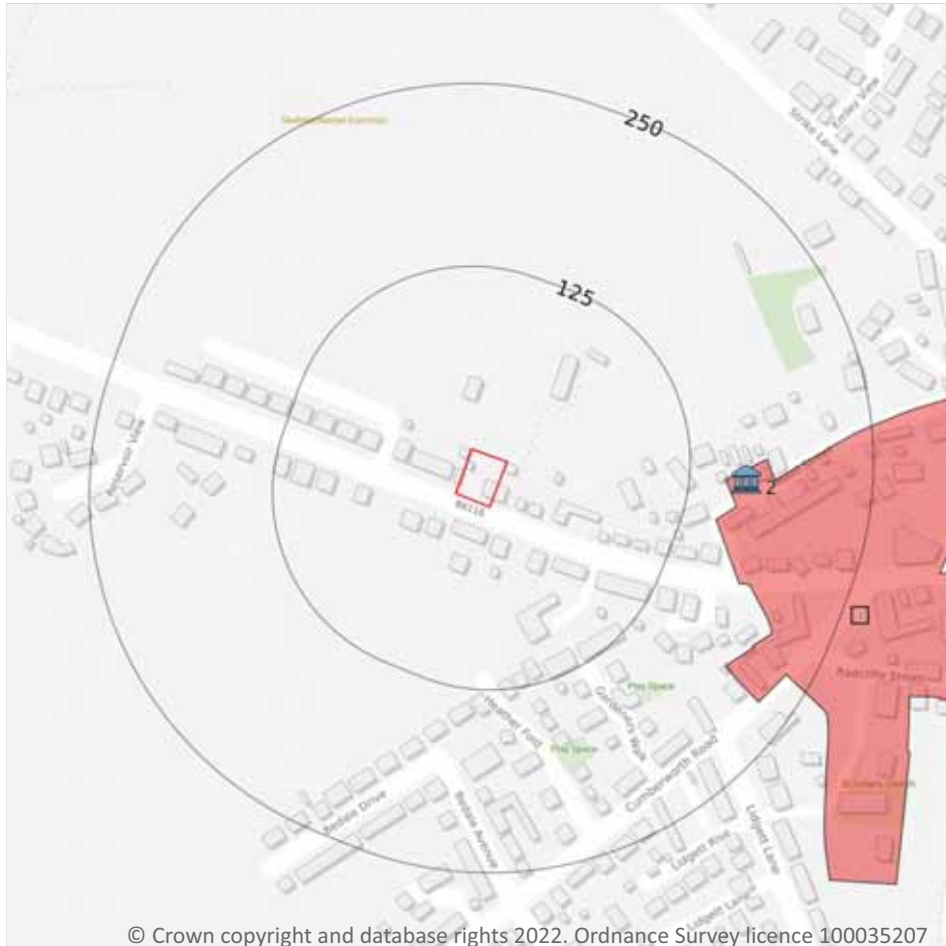
0

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

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



11 Visual and cultural designations



- Site Outline
- Search buffers in metres (m)
- Listed buildings
- Conservation areas
- Conservation areas - no data
- National Parks
- Areas of Outstanding Natural Beauty
- Registered parks and gardens
- Scheduled Monuments
- World Heritage Sites

11.1 World Heritage Sites

Records within 250m

0

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

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

11.2 Area of Outstanding Natural Beauty

Records within 250m

0

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

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

11.3 National Parks

Records within 250m

0

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

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

11.4 Listed Buildings

Records within 250m

1

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

Features are displayed on the Visual and cultural designations map on **page 63**

ID	Location	Name	Grade	Reference Number	Listed date
2	164m E	1, Wood Street, Denby Dale, Kirklees, HD8	II	1135273	15/08/1985

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 63**

ID	Location	Name	District	Date of designation
1	148m E	Skelmanthorpe	Kirklees	31/03/1981

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

11.6 Scheduled Ancient Monuments

Records within 250m

0

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

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

11.7 Registered Parks and Gardens

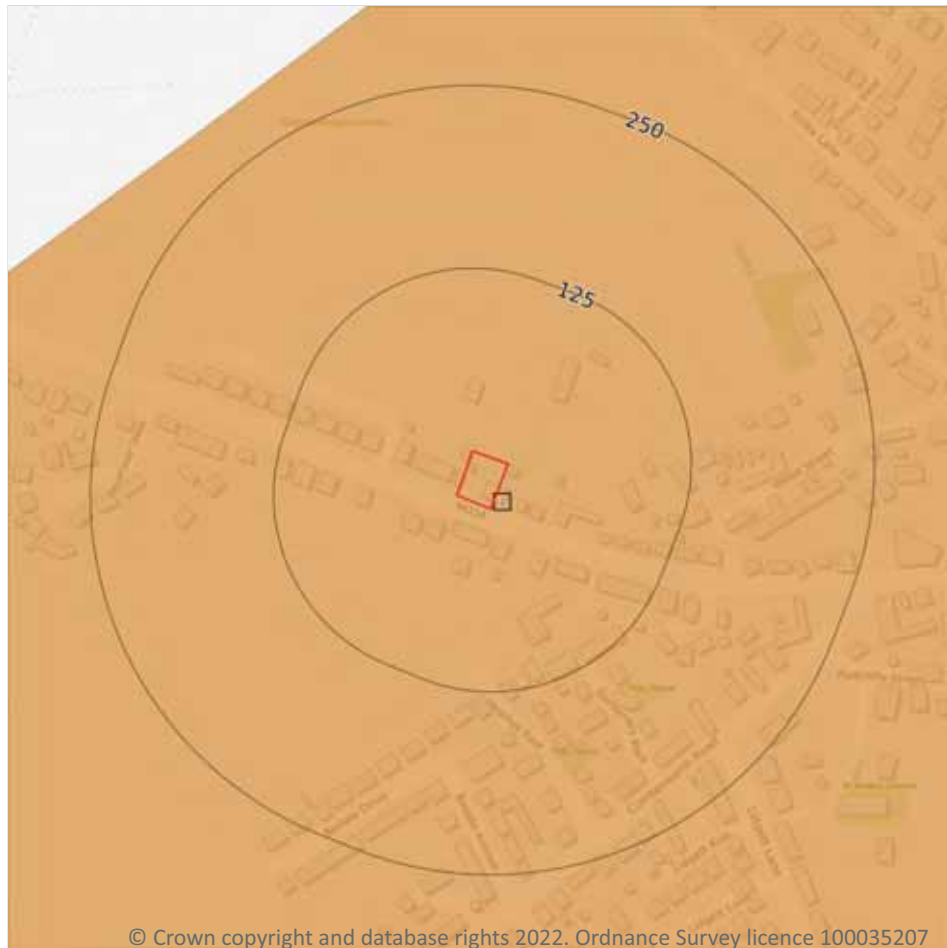
Records within 250m

0

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

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

12 Agricultural designations



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

12.1 Agricultural Land Classification

Records within 250m

1

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

Features are displayed on the Agricultural designations map on **page 66**

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

This data is sourced from Natural England.



12.2 Open Access Land

Records within 250m

0

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

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

12.3 Tree Felling Licences

Records within 250m

0

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

This data is sourced from the Forestry Commission.

12.4 Environmental Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

12.5 Countryside Stewardship Schemes

Records within 250m

0

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

This data is sourced from Natural England.

13 Habitat designations

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

0

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

This data is sourced from Natural England.

13.4 Limestone Pavement Orders

Records within 250m

0

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

This data is sourced from Natural England.

14 Geology 1:10,000 scale - Availability



- Site Outline
- Search buffers in metres (m)
- Full coverage
 - Partial coverage
 - No coverage

14.1 10k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:10,000 scale - Availability map on **page 69**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	SE21SW

This data is sourced from the British Geological Survey.

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



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

14.2 Artificial and made ground (10k)

Records within 500m

5

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 70**

ID	Location	LEX Code	Description	Rock description
A	205m E	WGR-VOID	Worked Ground (Undivided)	Void
A	215m E	WMGR-ARTDP	Infilled Ground	Artificial Deposit
1	375m N	WGR-VOID	Worked Ground (Undivided)	Void
2	392m W	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit



ID	Location	LEX Code	Description	Rock description
B	412m N	MGR-ARTDP	Made Ground (Undivided)	Artificial Deposit

This data is sourced from the British Geological Survey.



Geology 1:10,000 scale - Superficial

14.3 Superficial geology (10k)

Records within 500m

0

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.

This data is sourced from the British Geological Survey.

14.4 Landslip (10k)

Records within 500m

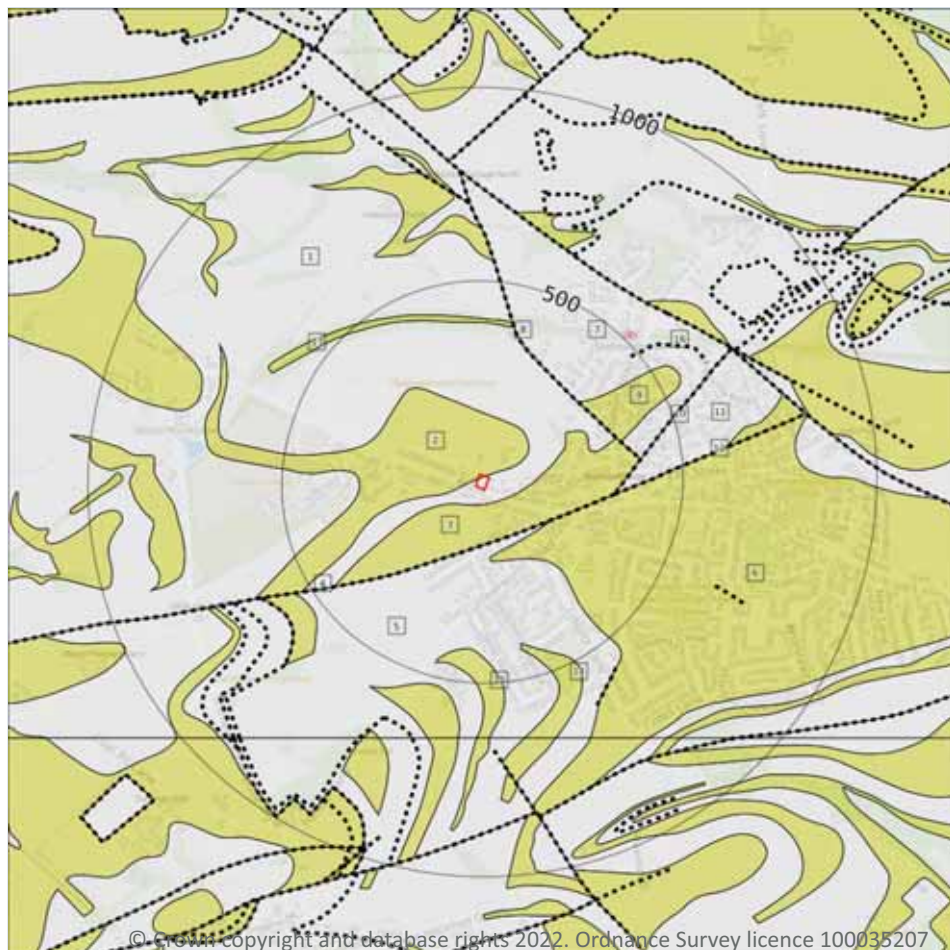
0

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

11

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 73**

ID	Location	LEX Code	Description	Rock age
1	On site	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
2	On site	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
3	37m S	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age

ID	Location	LEX Code	Description	Rock age
5	134m S	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
6	160m SE	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
7	299m NE	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
9	302m NE	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
11	326m E	PLCM-MDSS	Pennine Lower Coal Measures Formation - Mudstone, Siltstone And Sandstone	Langsettian Sub-age
13	389m N	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
14	409m S	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age
15	413m S	PF-SDST	Penistone Flags - Sandstone	Langsettian Sub-age

This data is sourced from the British Geological Survey.

14.6 Bedrock faults and other linear features (10k)

Records within 500m

5

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 73**

ID	Location	Category	Description
4	134m S	FAULT	Normal fault, inferred; crossmarks on downthrow side
8	299m NE	FAULT	Normal fault, inferred; downthrow not specified
10	326m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
12	326m E	FAULT	Normal fault, inferred; crossmarks on downthrow side
16	481m NE	ROCK	Coal seam, inferred

This data is sourced from the British Geological Survey.



15 Geology 1:50,000 scale - Availability



— Site Outline
Search buffers in metres (m)

☐ Geological map tile

15.1 50k Availability

Records within 500m

1

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

Features are displayed on the Geology 1:50,000 scale - Availability map on **page 75**

ID	Location	Artificial	Superficial	Bedrock	Mass movement	Sheet No.
1	On site	Full	Full	Full	Full	EW086_glossop_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

1

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

Features are displayed on the Geology 1:50,000 scale - Artificial and made ground map on **page 76**

ID	Location	LEX Code	Description	Rock description
1	412m N	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

15.4 Superficial geology (50k)

Records within 500m

0

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.

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)

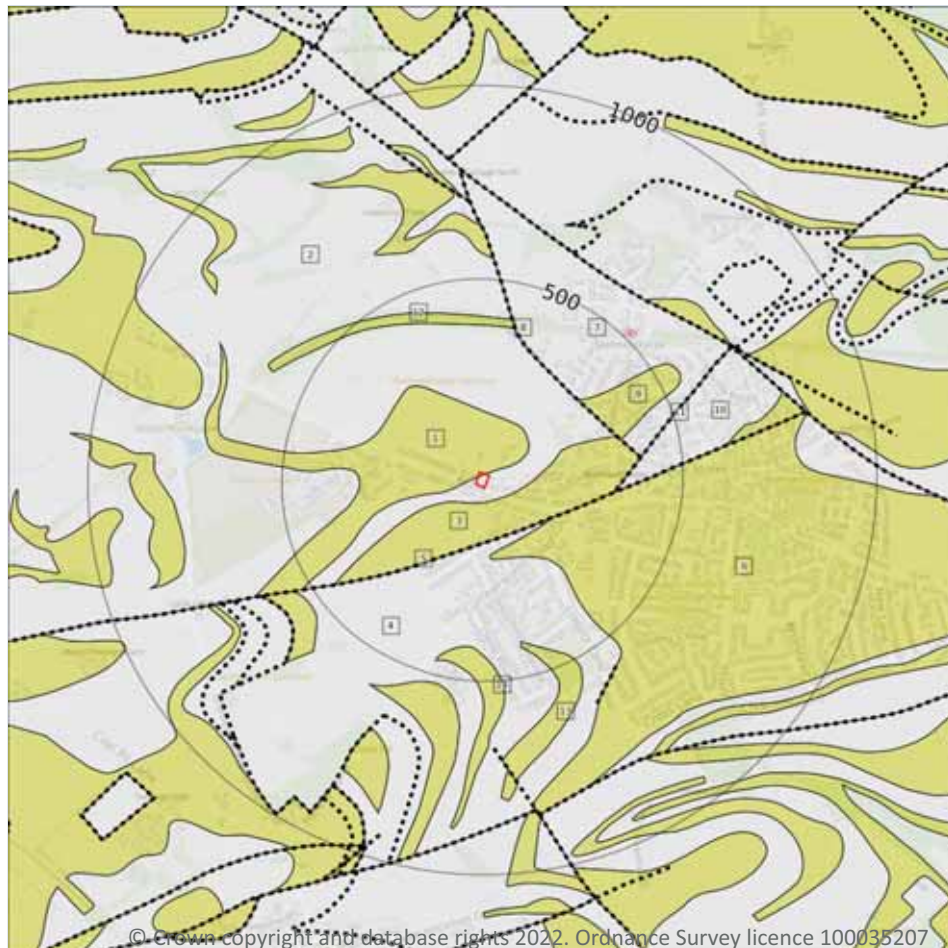
Records within 50m

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

11

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 79**

ID	Location	LEX Code	Description	Rock age
1	On site	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
2	On site	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
3	37m S	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN

ID	Location	LEX Code	Description	Rock age
4	135m S	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
6	160m SE	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
7	299m NE	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
9	301m NE	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
10	326m E	PLCM-MDSS	PENNINE LOWER COAL MEASURES FORMATION - MUDSTONE, SILTSTONE AND SANDSTONE	WESTPHALIAN
12	381m N	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
13	410m S	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN
14	412m S	PF-SDST	PENISTONE FLAGS - SANDSTONE	WESTPHALIAN

This data is sourced from the British Geological Survey.

15.9 Bedrock permeability (50k)

Records within 50m	3
---------------------------	----------

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

Location	Flow type	Maximum permeability	Minimum permeability
On site	Fracture	High	Moderate
On site	Fracture	Moderate	Low
37m E	Fracture	High	Moderate

This data is sourced from the British Geological Survey.

15.10 Bedrock faults and other linear features (50k)

Records within 500m	3
----------------------------	----------

Linear features at the ground or bedrock surface at 1:50,000 scale of six main types; rock, fault, fold axis, mineral vein, alteration area or landform. Features are either observed or inferred, and relate primarily to bedrock.

Features are displayed on the Geology 1:50,000 scale - Bedrock map on **page 79**

ID	Location	Category	Description
5	135m S	FAULT	Fault, inferred
8	299m NE	FAULT	Fault, inferred
11	326m E	FAULT	Fault, inferred

This data is sourced from the British Geological Survey.



16 Boreholes

16.1 BGS Boreholes

Records within 250m

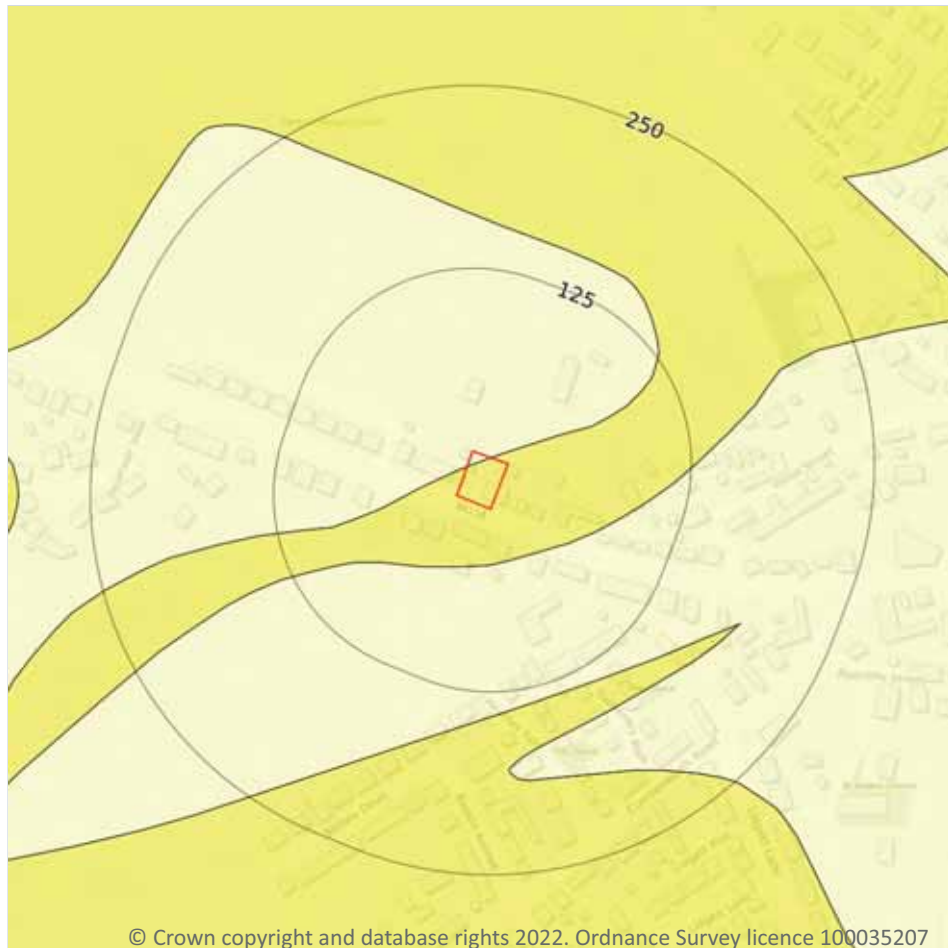
0

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.

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

3

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).

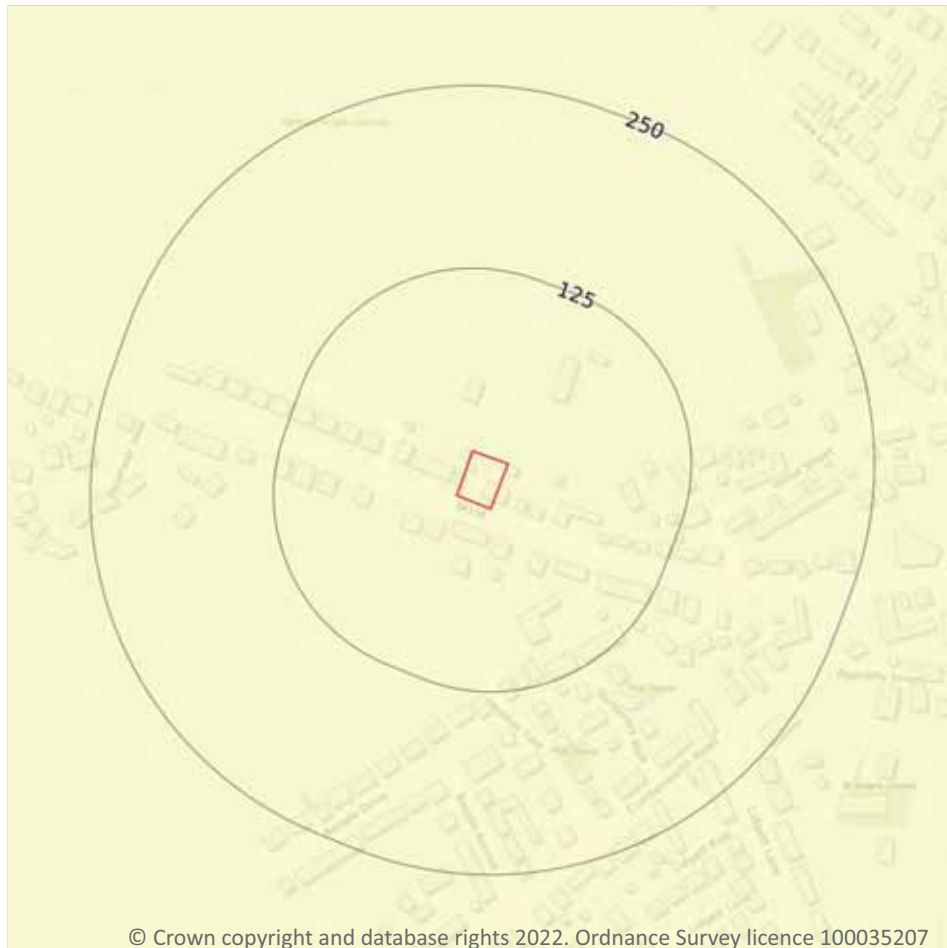
Features are displayed on the Natural ground subsidence - Shrink swell clays map on **page 83**

Location	Hazard rating	Details
On site	Negligible	Ground conditions predominantly non-plastic.
On site	Very low	Ground conditions predominantly low plasticity.
37m S	Negligible	Ground conditions predominantly non-plastic.

This data is sourced from the British Geological Survey.



Natural ground subsidence - Running sands



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— 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.

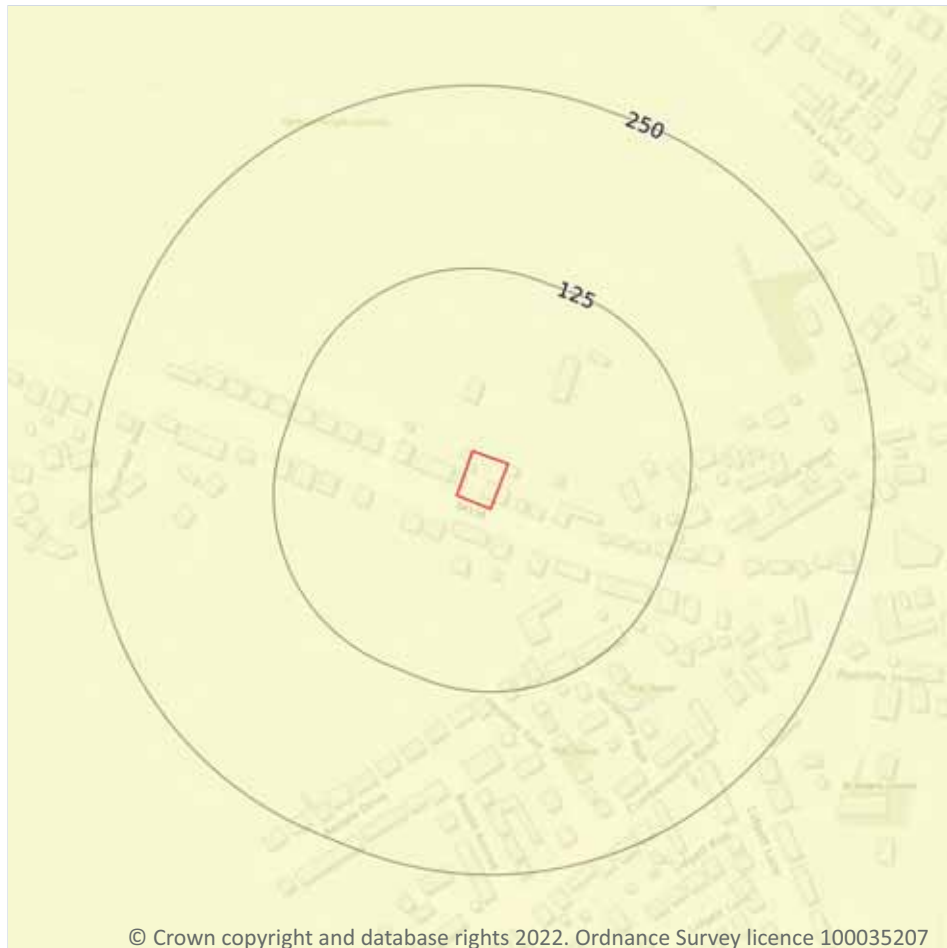
Features are displayed on the Natural ground subsidence - Running sands map on **page 85**

Location	Hazard rating	Details
On site	Negligible	Running sand conditions are not thought to occur whatever the position of the water table. No identified constraints on lands use due to running conditions.

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

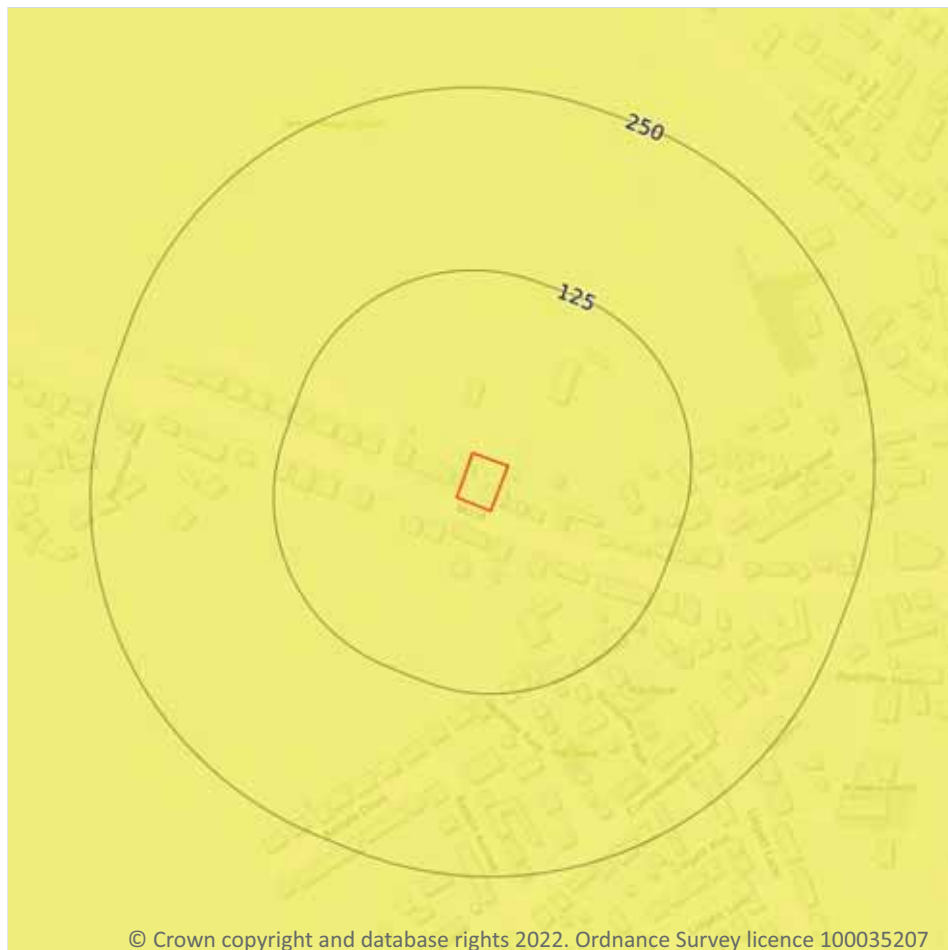
The potential hazard presented by types of ground that may contain layers of very soft materials like clay or peat and may compress if loaded by overlying structures, or if the groundwater level changes, potentially resulting in depression of the ground and disturbance of foundations.

Features are displayed on the Natural ground subsidence - Compressible deposits map on **page 86**

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



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- 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.

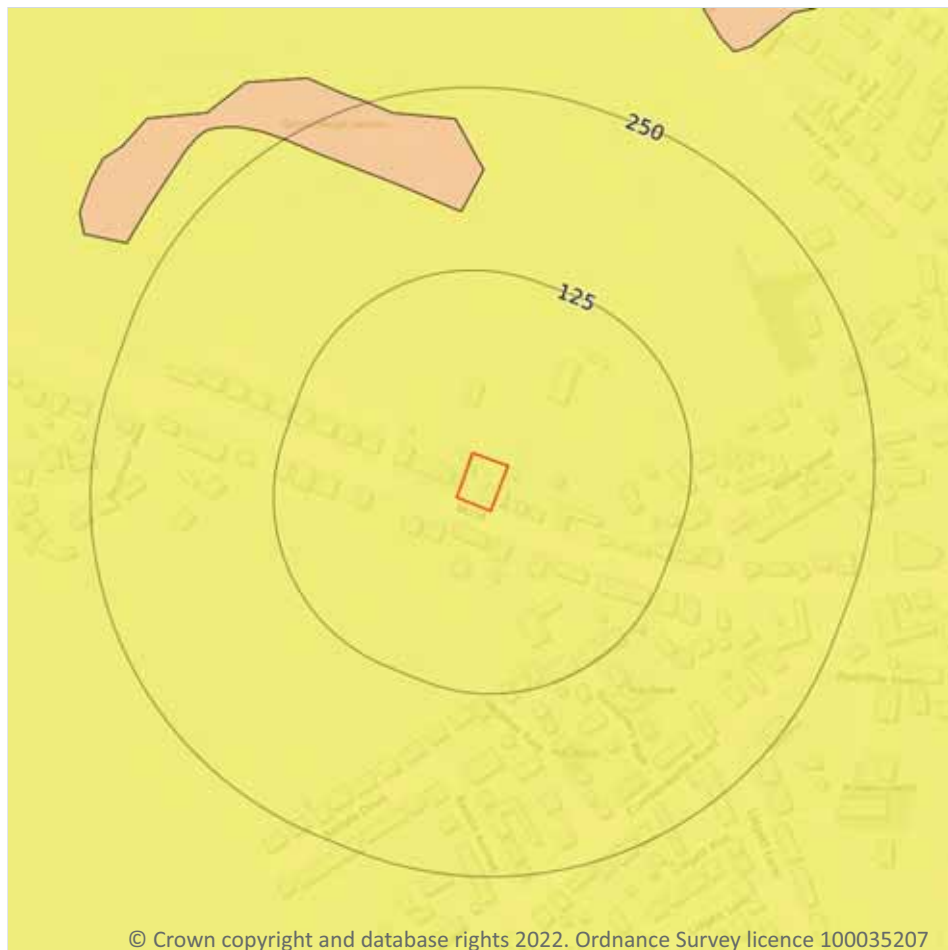
Features are displayed on the Natural ground subsidence - Collapsible deposits map on **page 87**

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.

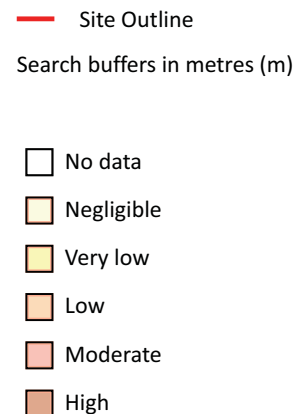
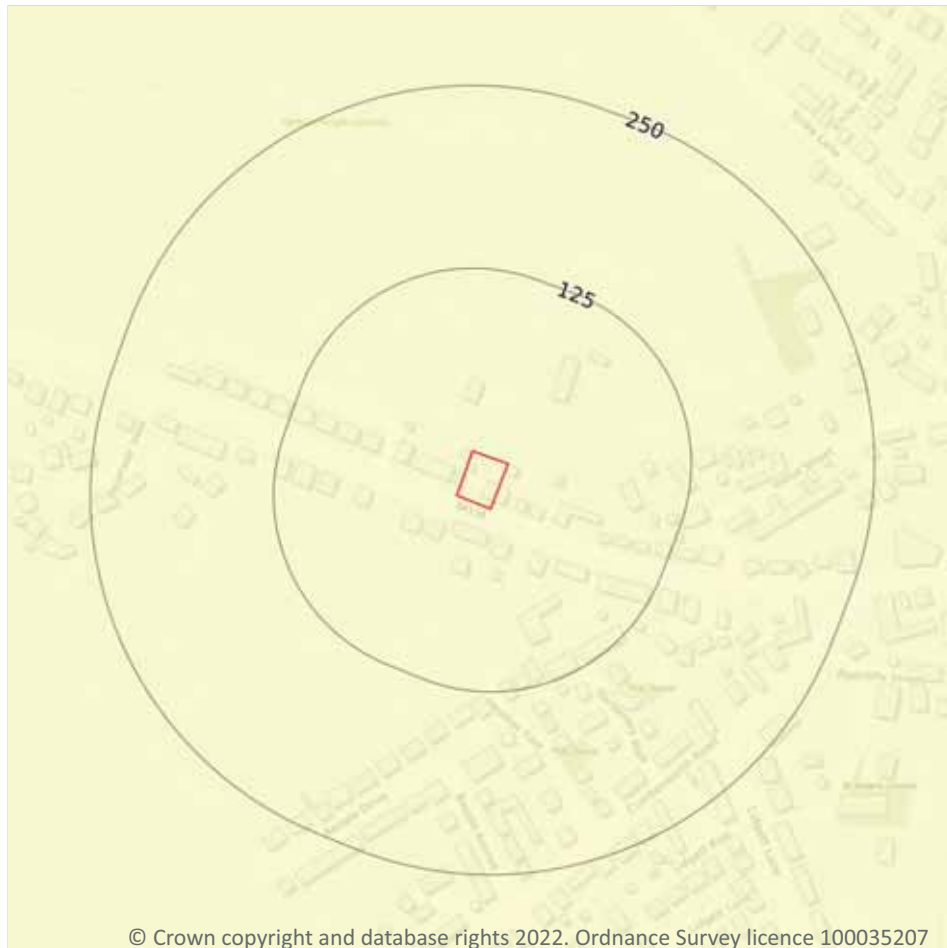
Features are displayed on the Natural ground subsidence - Landslides map on **page 88**

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

This data is sourced from the British Geological Survey.



Natural ground subsidence - Ground dissolution of soluble rocks



17.6 Ground dissolution of soluble rocks

Records within 50m

1

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

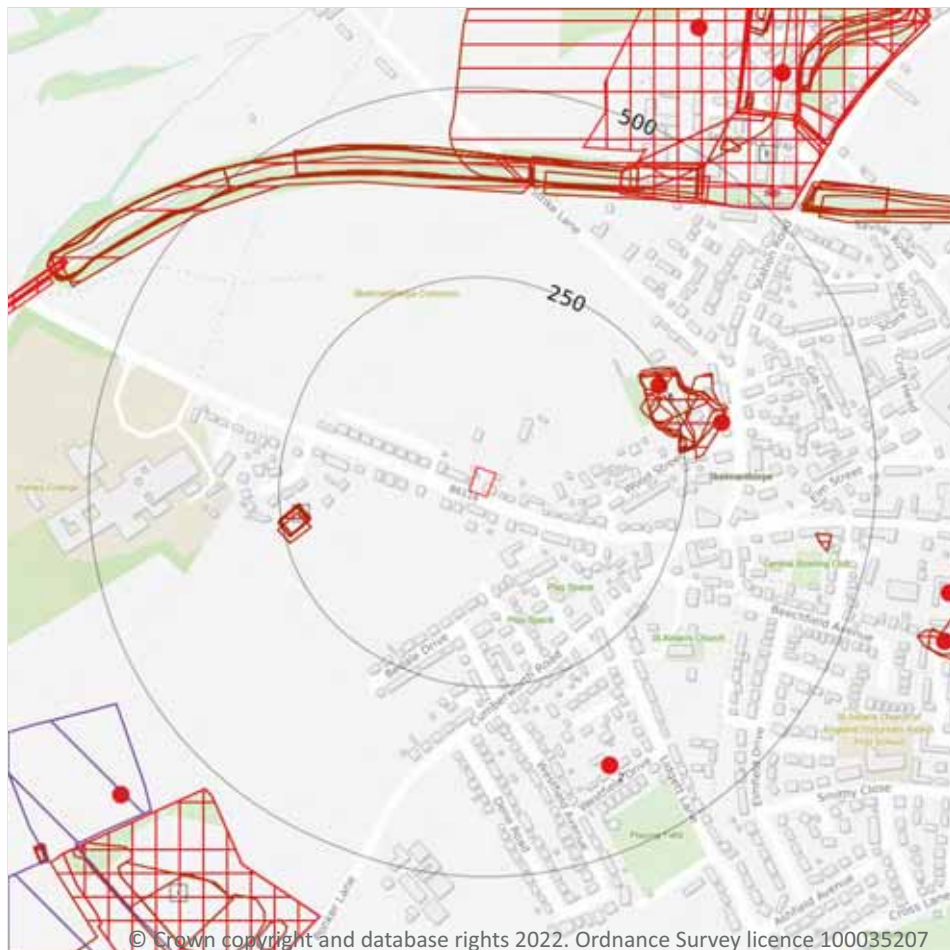
Features are displayed on the Natural ground subsidence - Ground dissolution of soluble rocks map on **page 89**

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

3

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 90**

ID	Location	Details	Description
A	244m NE	Name: Saw Mills Address: Common End, Skelmanthorpe, HUDDERSFIELD, West 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
A	304m E	Name: Saw Mills Address: Skelmanthorpe, HUDDERSFIELD, West 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
2	388m SE	Name: Lidgett Lane Address: Skelmanthorpe, HUDDERSFIELD, West Yorkshire Commodity: Clay & Shale 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

15

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 90**

ID	Location	Land Use	Year of mapping	Mapping scale
A	209m NE	Unspecified Ground Workings	1967	1:10560
B	212m W	Reservoir	1951	1:10560



ID	Location	Land Use	Year of mapping	Mapping scale
B	213m W	Reservoir	1993	1:10000
B	213m W	Reservoir	1979	1:10000
B	213m W	Pond	1967	1:10560
B	213m W	Pond	1892	1:10560
B	215m W	Reservoir	1948	1:10560
B	215m W	Reservoir	1904	1:10560
B	215m W	Reservoir	1932	1:10560
A	217m E	Unspecified Quarry	1948	1:10560
A	218m E	Unspecified Ground Workings	1938	1:10560
A	218m E	Unspecified Ground Workings	1938	1:10560
A	219m E	Unspecified Pit	1951	1:10560
A	229m E	Unspecified Quarry	1904	1:10560
A	243m E	Unspecified Quarry	1892	1:10560

This is data is sourced from Ordnance Survey/Groundsure.

18.4 Underground workings

Records within 1000m

23

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 90**

ID	Location	Land Use	Year of mapping	Mapping scale
G	403m NE	Collieries	1948	1:10560
F	406m NE	Collieries	1904	1:10560
G	443m N	Unspecified Mine	1967	1:10560
I	525m SW	Unspecified Disused Mine	1979	1:10000
L	570m NE	Unspecified Mine	1979	1:10000
G	577m NE	Collieries	1951	1:10560
N	603m NW	Disused Tunnel	1993	1:10000



ID	Location	Land Use	Year of mapping	Mapping scale
N	603m NW	Tunnel	1979	1:10000
N	603m NW	Tunnel	1967	1:10560
N	603m NW	Tunnel	1948	1:10560
N	603m NW	Tunnel	1904	1:10560
N	604m NW	Tunnel	1951	1:10560
N	608m NW	Tunnel	1892	1:10560
P	636m NE	Unspecified Old Shaft	1948	1:10560
P	641m NE	Unspecified Old Shaft	1951	1:10560
-	871m SW	Unspecified Level	1904	1:10560
-	871m SW	Unspecified Level	1904	1:10560
-	886m SW	Unspecified Level	1904	1:10560
-	904m SW	Colliery	1904	1:10560
-	915m SW	Air Shafts	1904	1:10560
-	958m SW	Air Shafts	1904	1:10560
-	965m S	Unspecified Level	1904	1:10560
-	985m SW	Unspecified Level	1904	1:10560

This data is sourced from Ordnance Survey/Groundsure.

18.5 Historical Mineral Planning Areas

Records within 500m

0

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

This data is sourced from the British Geological Survey.

18.6 Non-coal mining

Records within 1000m

0

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



and 'other' commodities (including ball clay, jet, black marble, graphite and chert).

This data is sourced from the British Geological Survey.

18.7 Mining cavities

Records within 1000m

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 90**

ID	Location	Mine Address	Mineral	Data source	Publisher
-	923m SW	Ponker Hill, West Yorkshire	Fireclay	LISTING OF NEW MINERAL RECORDS OFFICE CATALOGUE.	UNPUBLISHED/DR AFT

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.

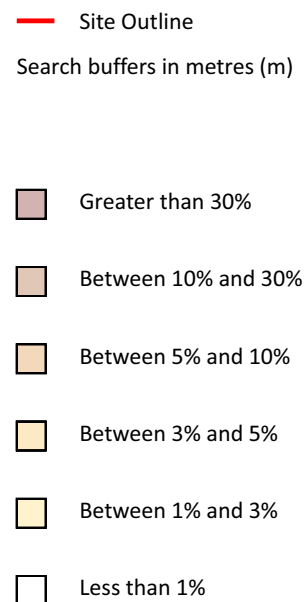
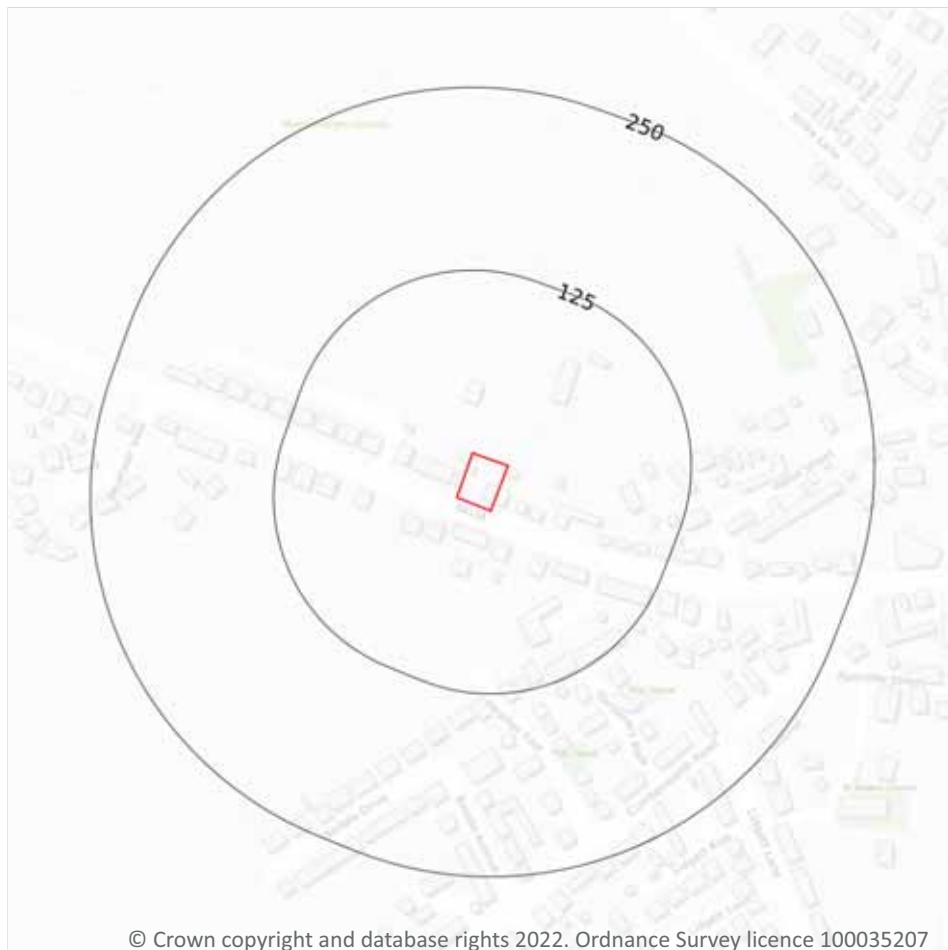
18.13 Clay mining

Records on site	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 96**

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

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 mg/kg	60 mg/kg	1.8 mg/kg	60 - 90 mg/kg	15 - 30 mg/kg

This data is sourced from the British Geological Survey.

20.2 BGS Estimated Urban Soil Chemistry

Records within 50m

0

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

This data is sourced from the British Geological Survey.

20.3 BGS Measured Urban Soil Chemistry

Records within 50m

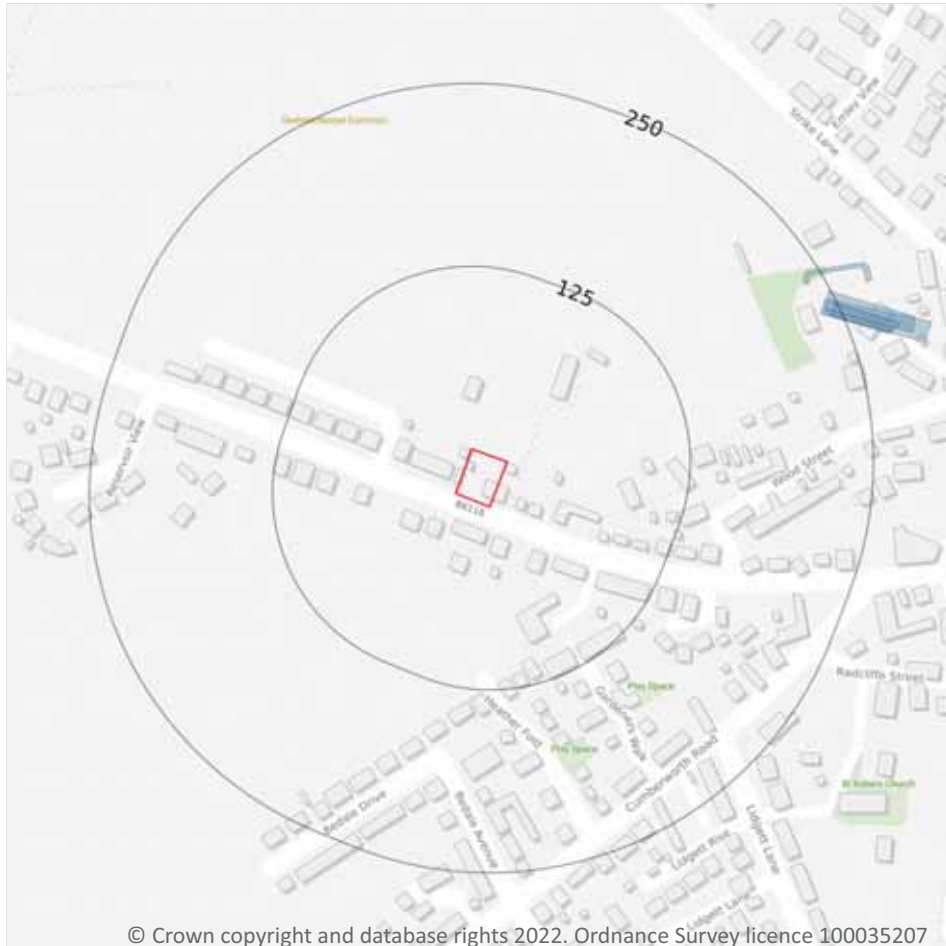
0

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

This data is sourced from the British Geological Survey.



21 Railway infrastructure and projects



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

21.1 Underground railways (London)

Records within 250m

0

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

This data is sourced from publicly available information by Groundsure.

21.2 Underground railways (Non-London)

Records within 250m

0

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



This data is sourced from publicly available information by Groundsure.

21.3 Railway tunnels

Records within 250m

0

Railway tunnels taken from contemporary Ordnance Survey mapping.

This data is sourced from the Ordnance Survey.

21.4 Historical railway and tunnel features

Records within 250m

5

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 98**

Location	Land Use	Year of mapping	Mapping scale
236m NE	Railway Sidings	1913	2500
237m NE	Railway Sidings	1948	10560
239m NE	Railway Sidings	1913	2500
241m NE	Railway Sidings	1955	10560
243m NE	Railway Sidings	1938	10560

This data is sourced from Ordnance Survey/Groundsure.

21.5 Royal Mail tunnels

Records within 250m

0

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

This data is sourced from Groundsure/the Postal Museum.



21.6 Historical railways

Records within 250m

0

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

This data is sourced from OpenStreetMap.

21.7 Railways

Records within 250m

0

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

This data is sourced from Ordnance Survey and OpenStreetMap.

21.8 Crossrail 1

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.9 Crossrail 2

Records within 500m

0

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

This data is sourced from publicly available information by Groundsure.

21.10 HS2

Records within 500m

0

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

This data is sourced from HS2 Ltd.

Data providers

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

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Site Details:

60, HUDDERSFIELD ROAD,
SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1854

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1850
Revised N/A
Edition 1854
Copyright N/A
Levelled N/A

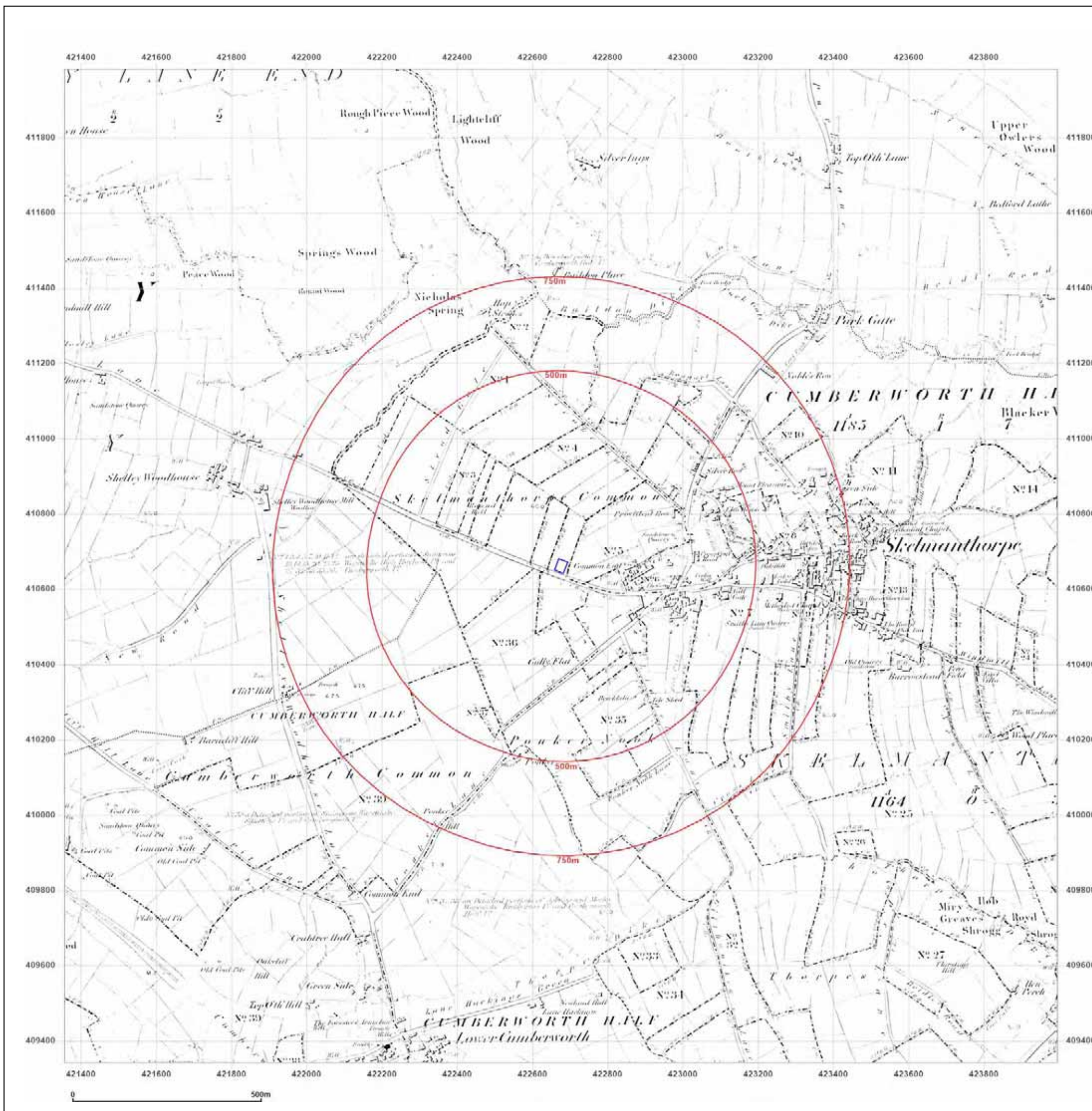


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Production date: 22 February 2022

Map legend available at:
www.groundsure.com/sites/default/files/groundsure_legend.pdf



Site Details:

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SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1892

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892
Revised 1892
Edition N/A
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Surveyed 1892
Revised 1892
Edition N/A
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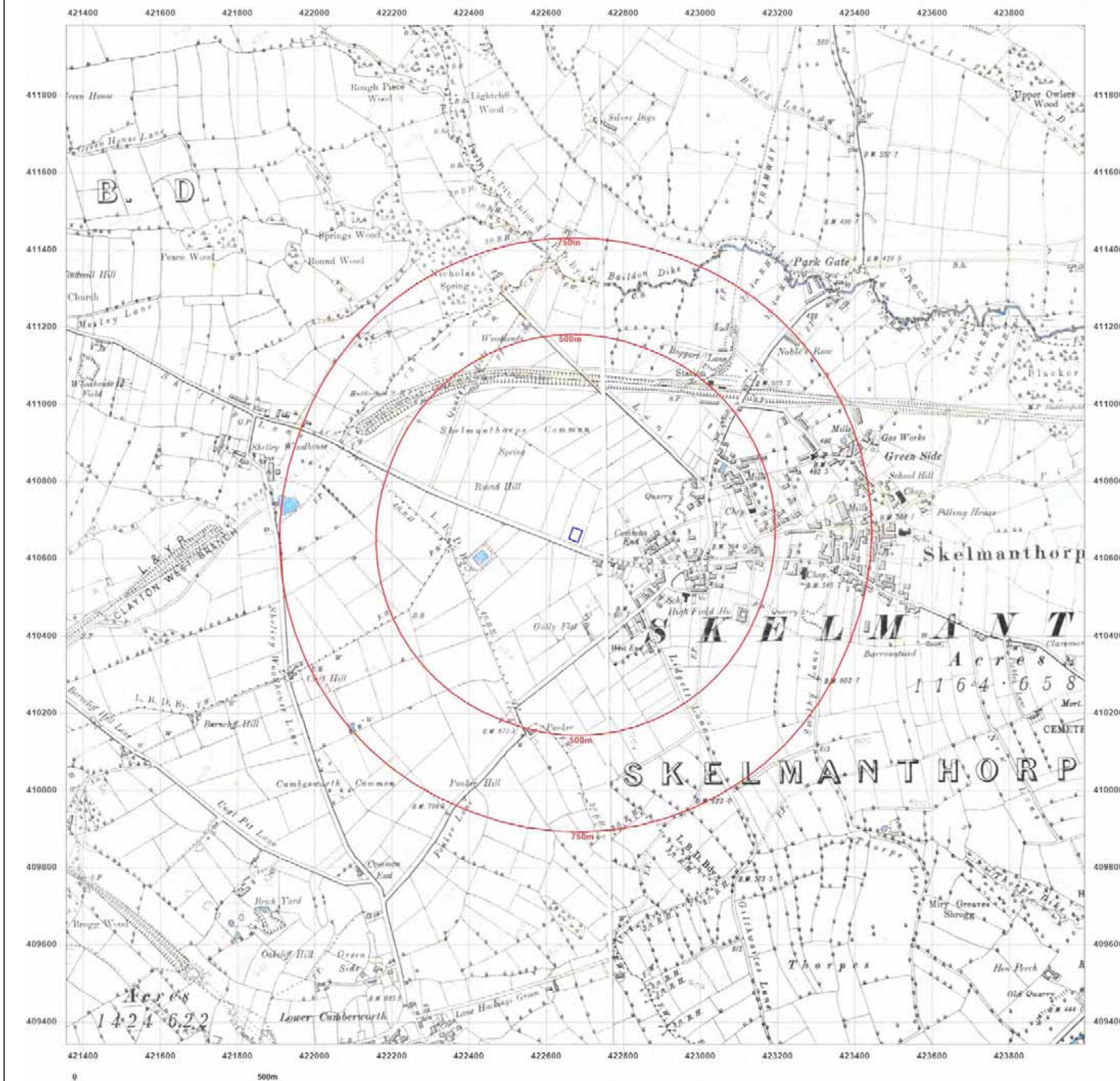


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SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1904

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1892
Revised 1904
Edition N/A
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Surveyed 1892
Revised 1904
Edition N/A
Copyright N/A
Levelled N/A

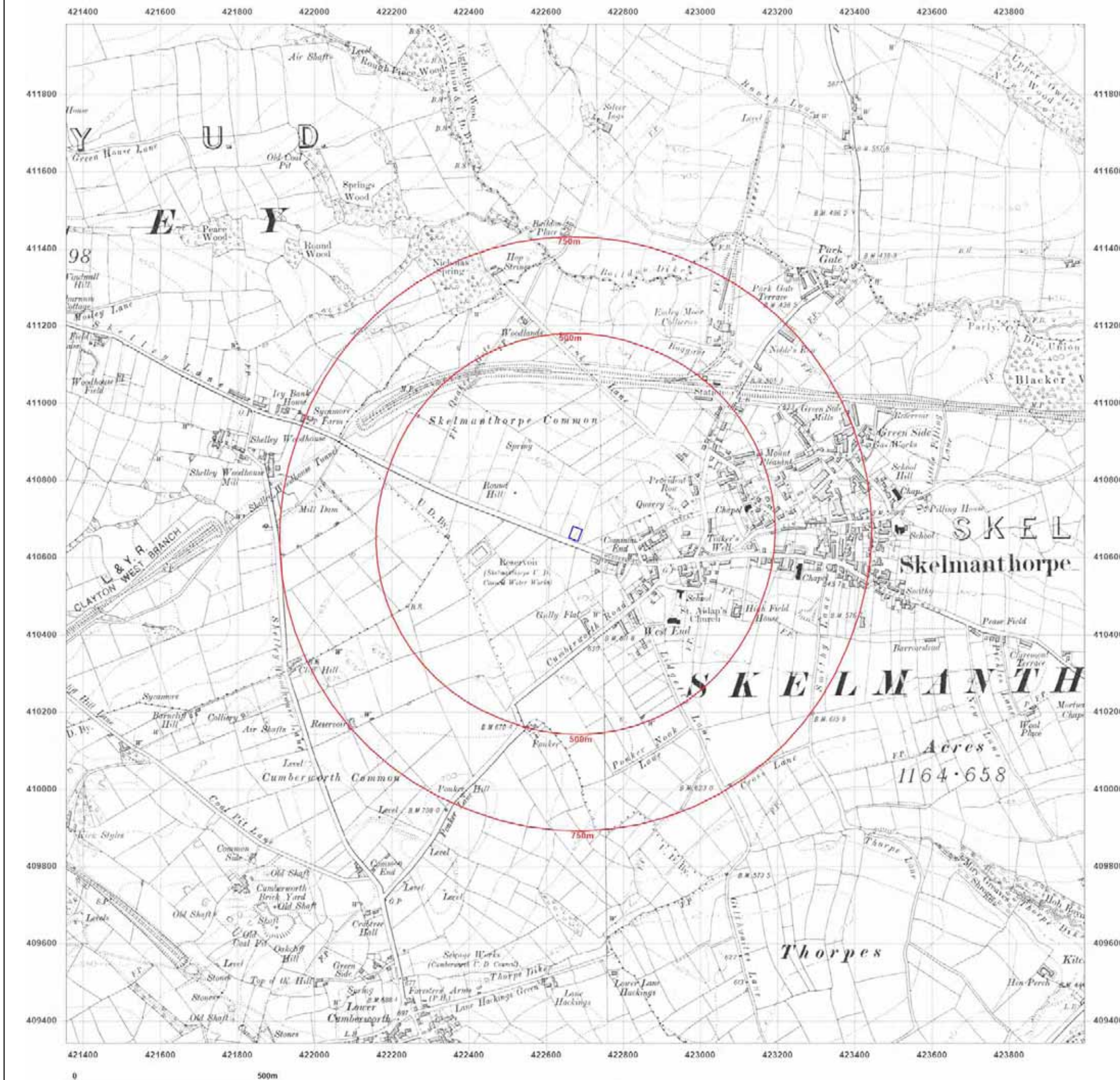


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Site Details:

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SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1929-1932

Scale: 1:10,560

Printed at: 1:10,560



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Edition 1932
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Surveyed 1851
Revised 1929
Edition N/A
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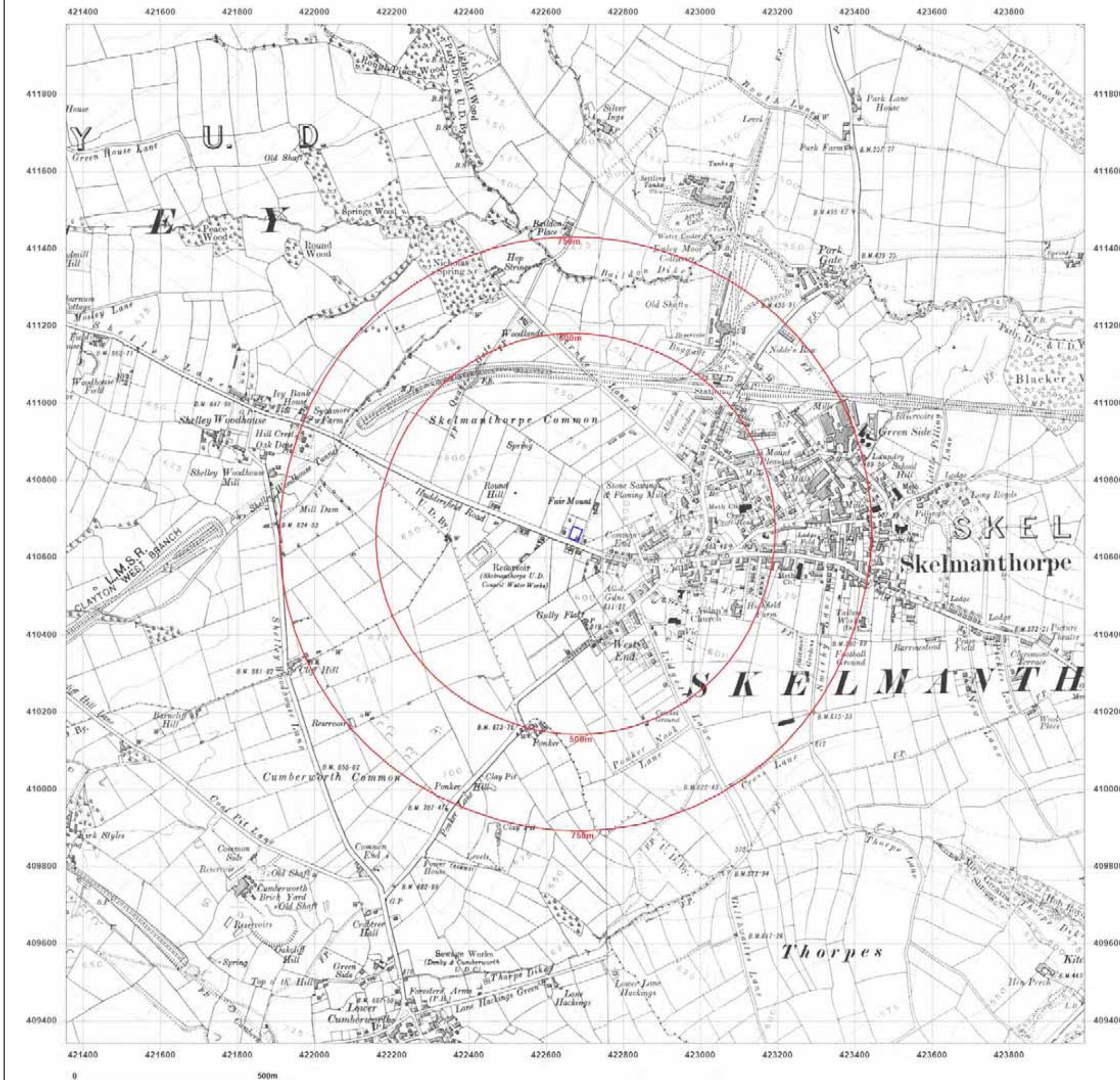


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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1948

Scale: 1:10,560

Printed at: 1:10,560



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

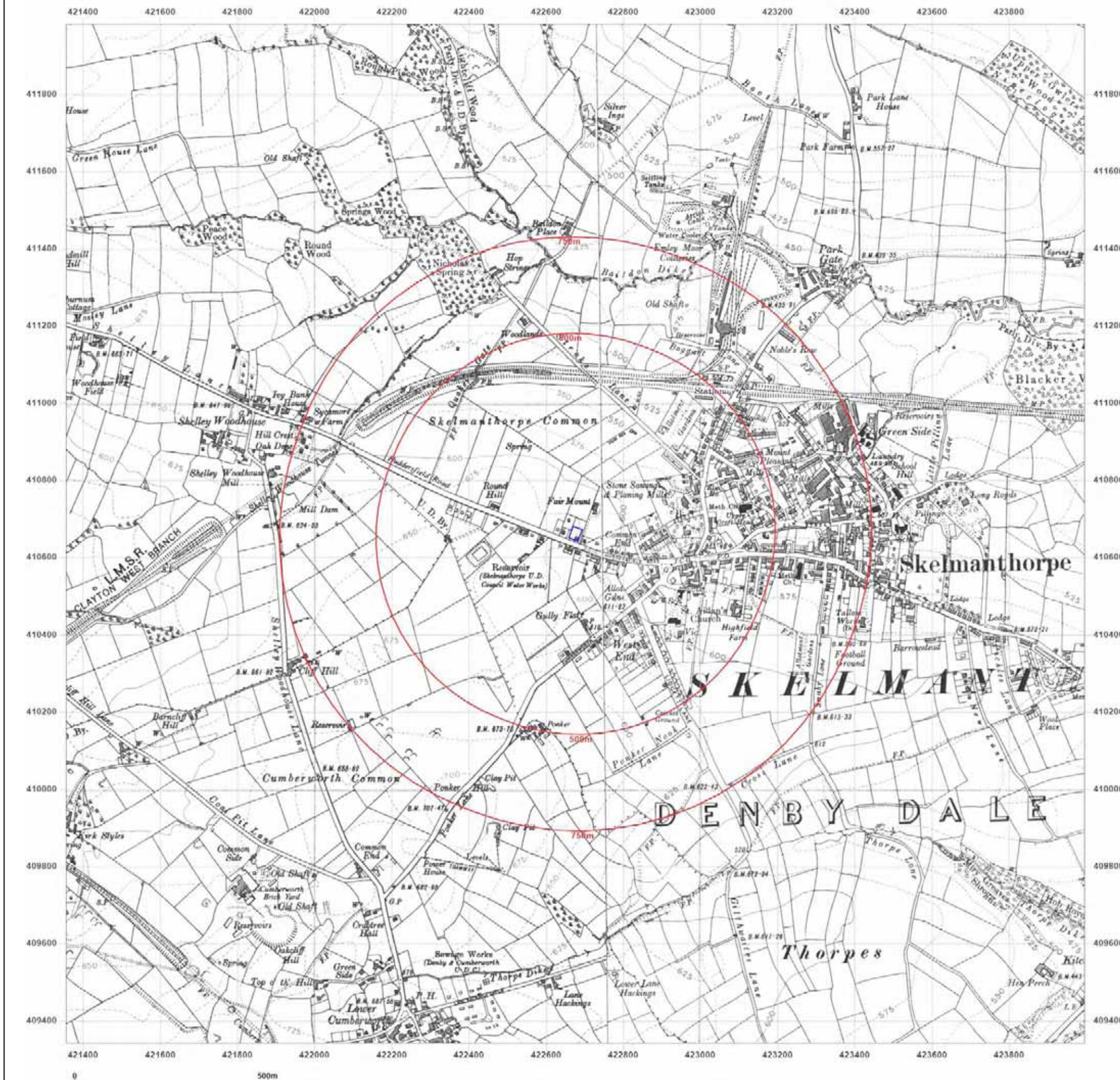


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Site Details:

60, HUDDERSFIELD ROAD,
SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: Provisional

Map date: 1951-1955

Scale: 1:10,560

Printed at: 1:10,560



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

Surveyed 1951
Revised 1951
Edition N/A
Copyright N/A
Levelled N/A

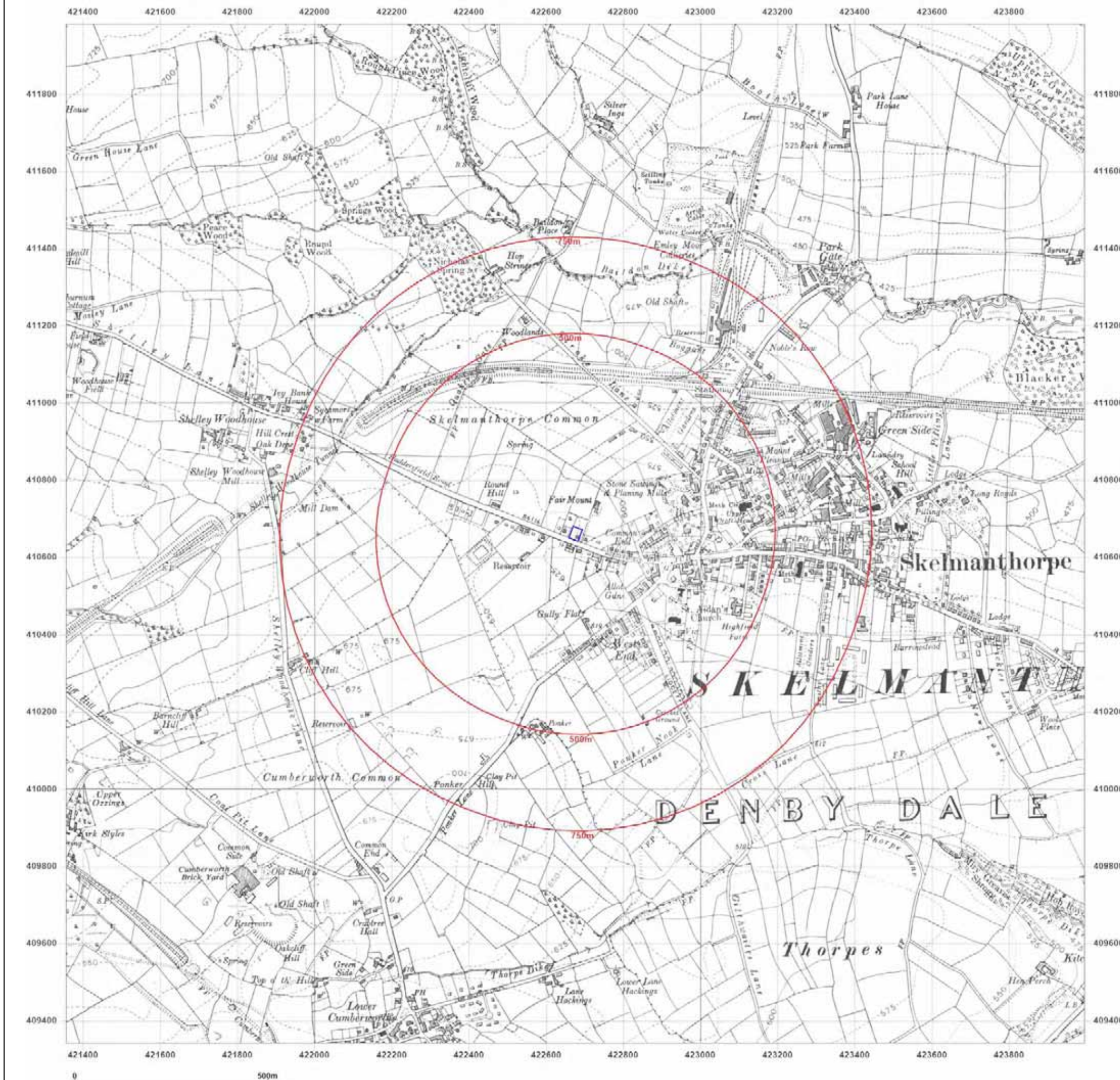


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Site Details:

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SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: Provisional

Map date: 1967

Scale: 1:10,560

Printed at: 1:10,560



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

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

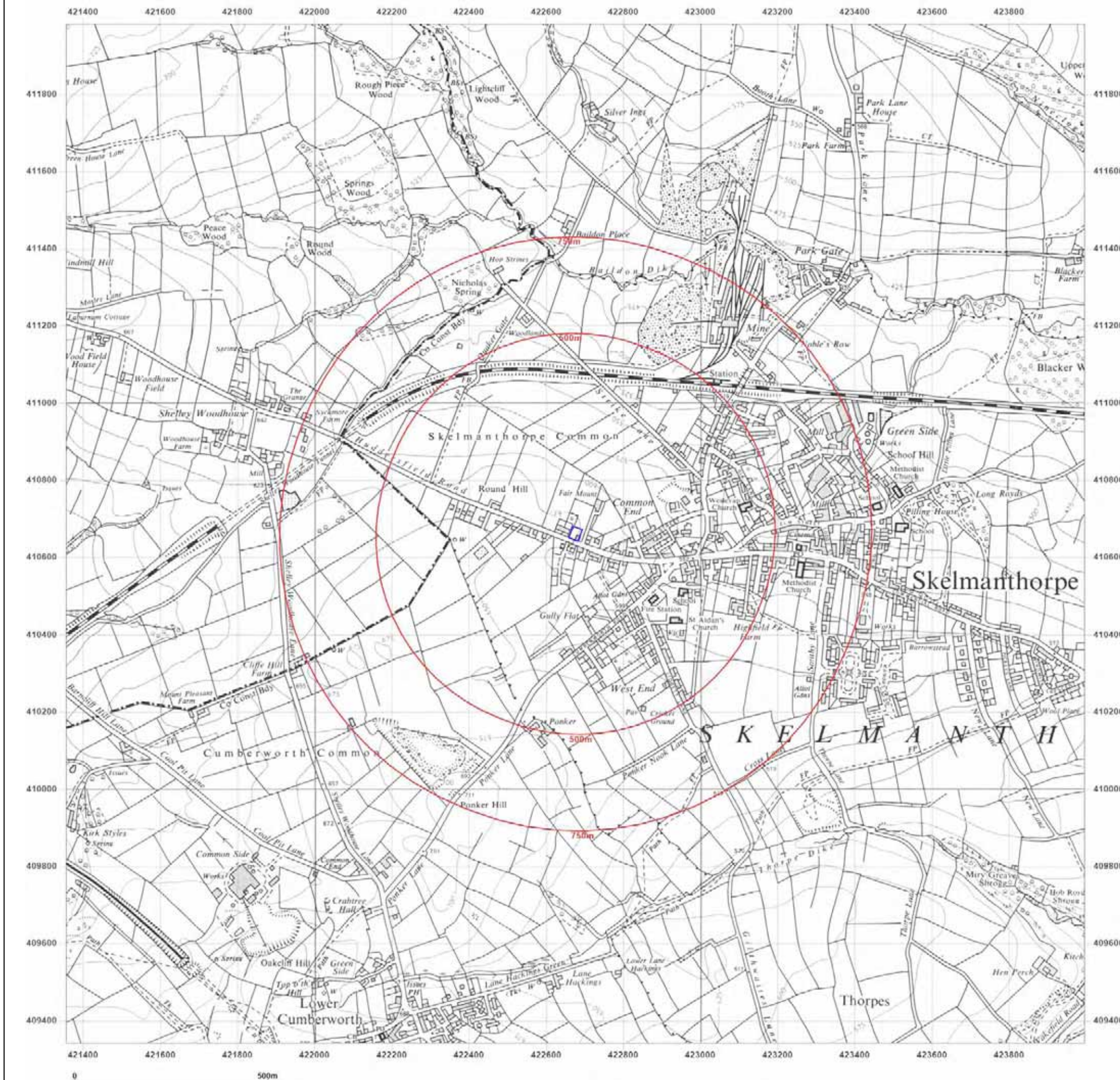


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1979-1983

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1977
Revised 1979
Edition N/A
Copyright N/A
Levelled N/A

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

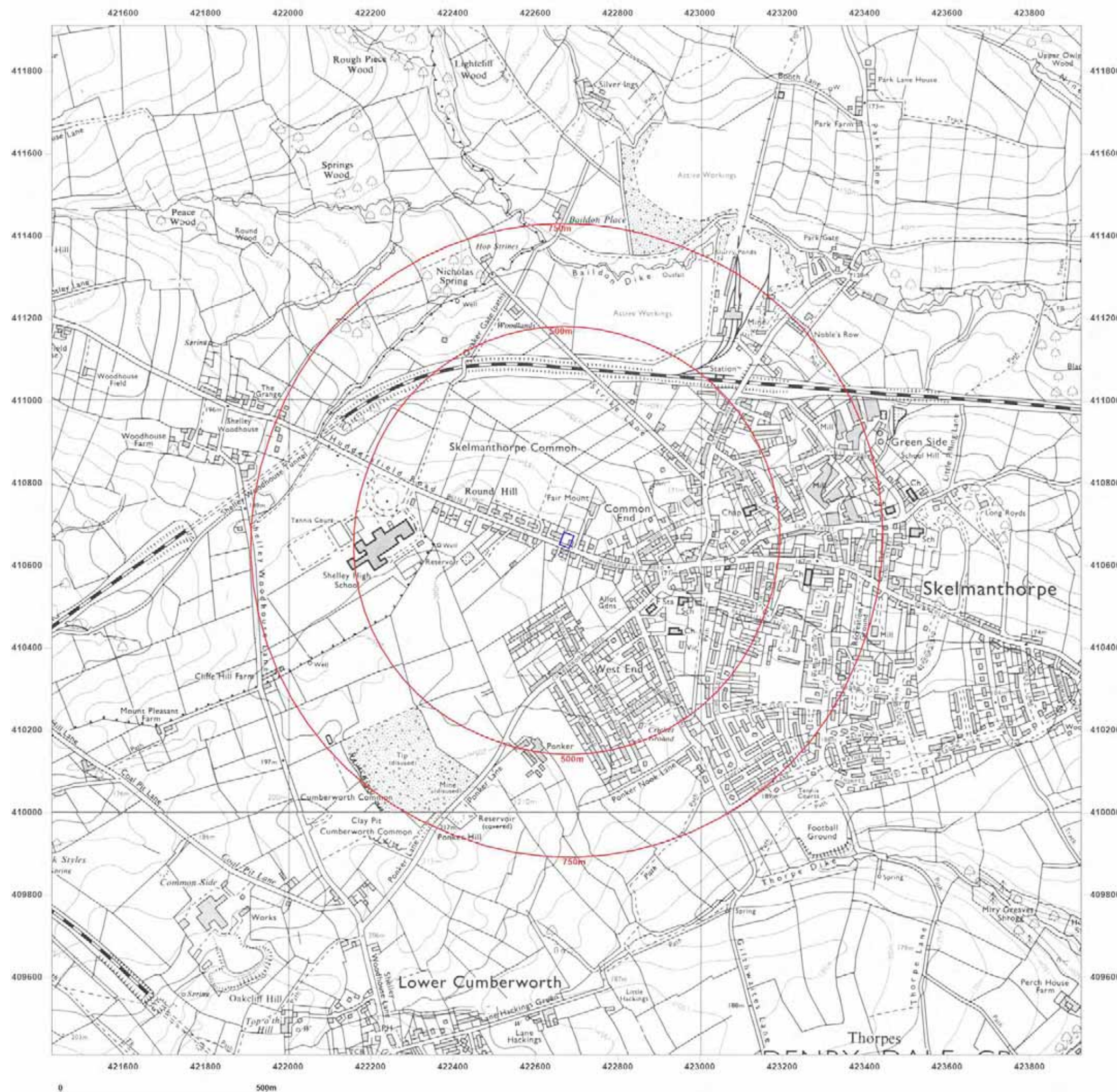


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Site Details:

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SKELMANTHORPE,
HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

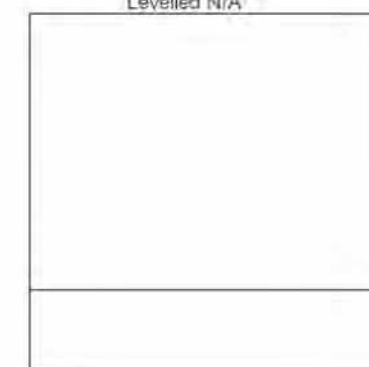
Map date: 1993

Scale: 1:10,000

Printed at: 1:10,000



Surveyed 1990
Revised 1993
Edition N/A
Copyright N/A
Levelled N/A

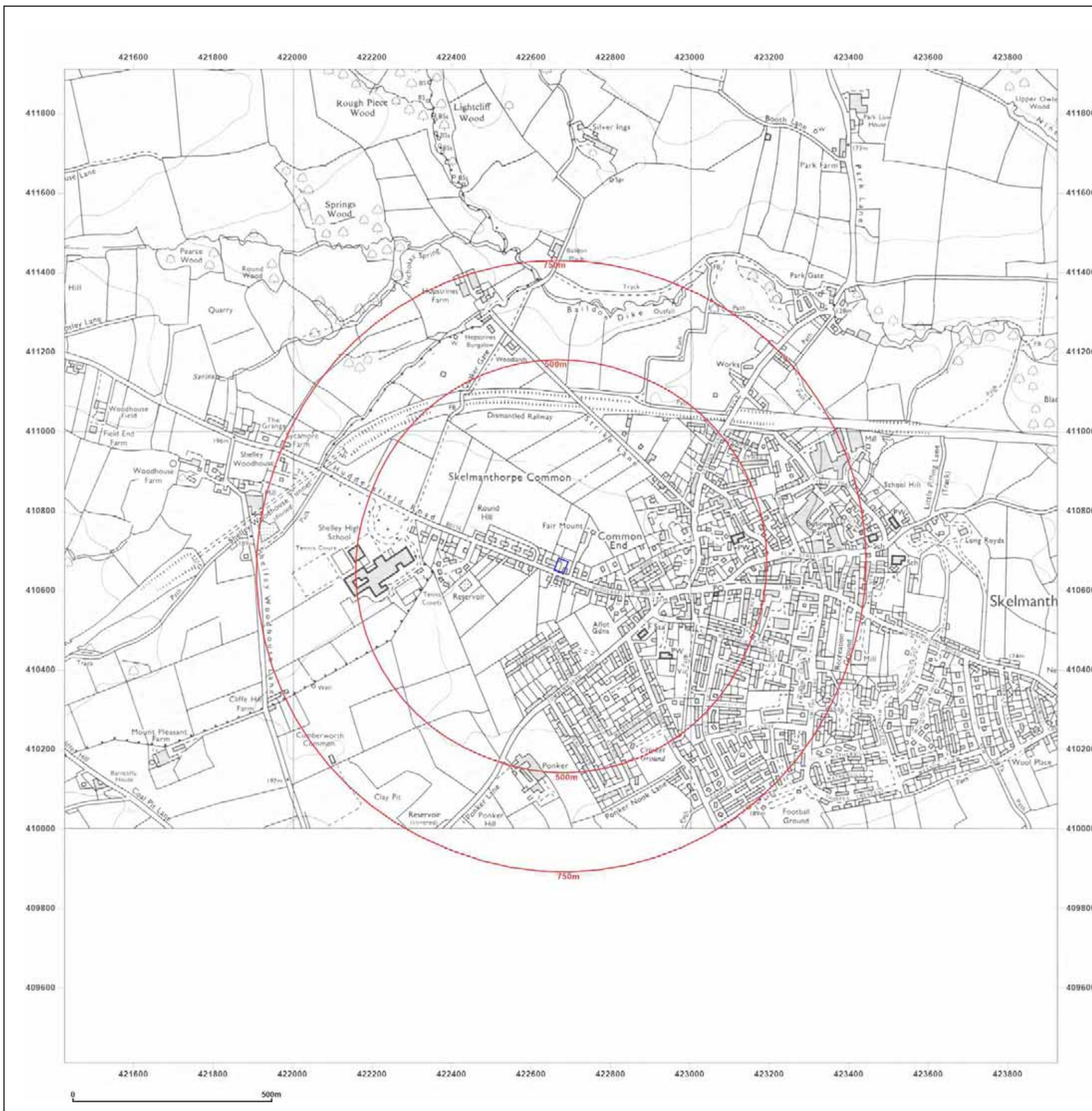


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 2001

Scale: 1:10,000

Printed at: 1:10,000

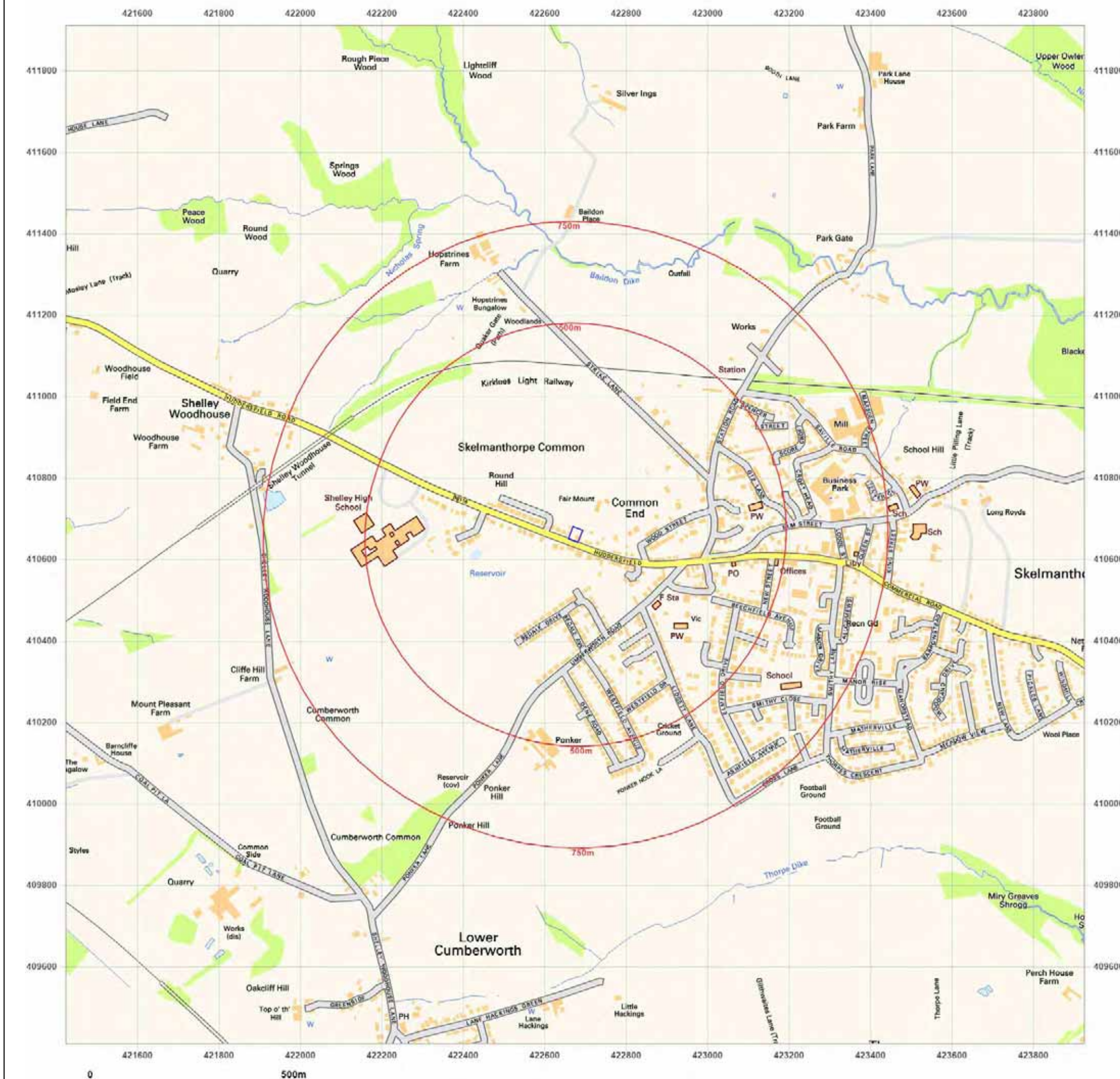


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 2010

Scale: 1:10,000

Printed at: 1:10,000

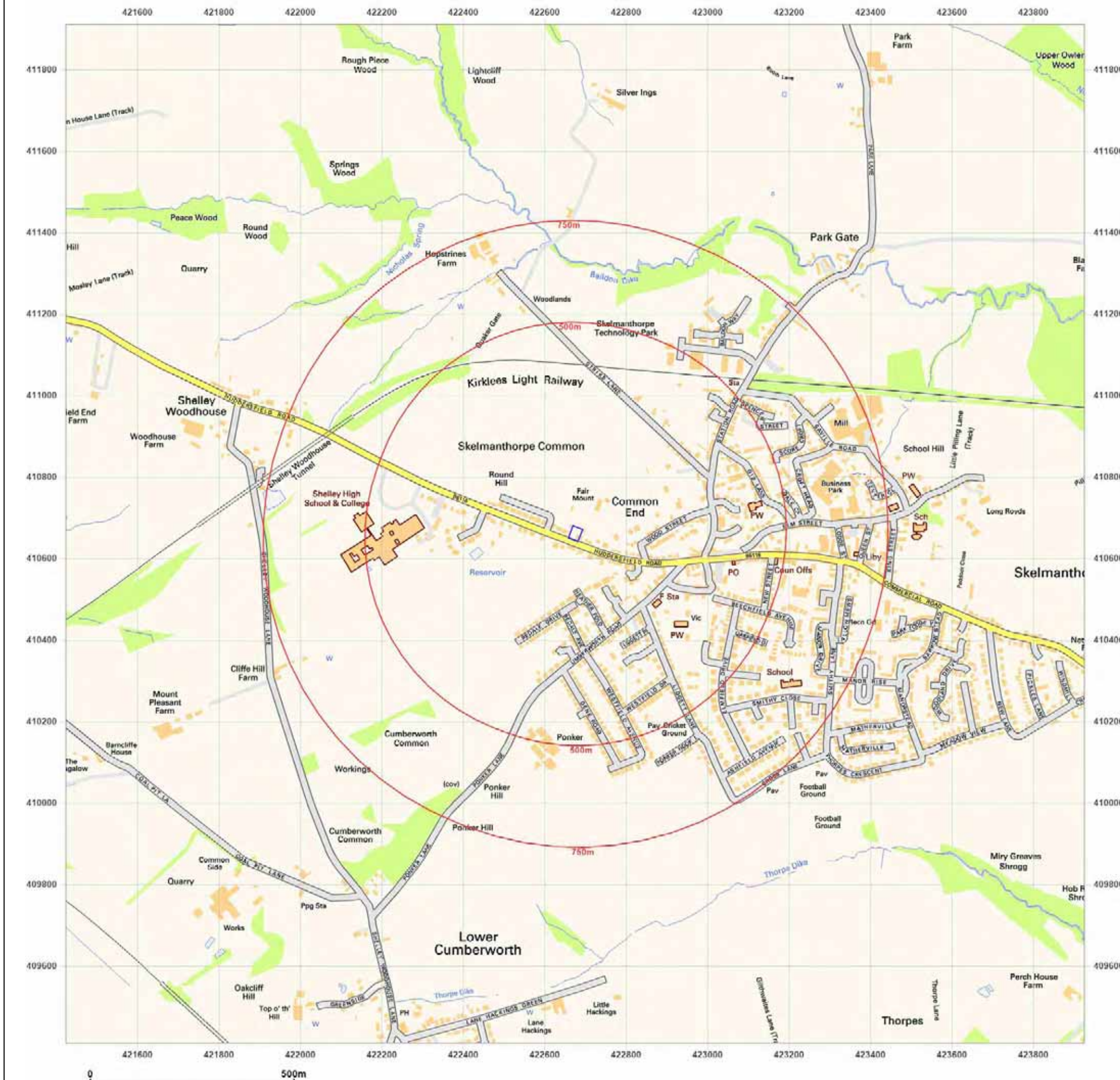


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Site Details:

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HUDDERSFIELD, HD8 9AS

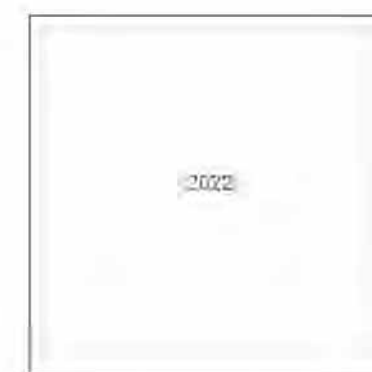
Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 2022

Scale: 1:10,000

Printed at: 1:10,000

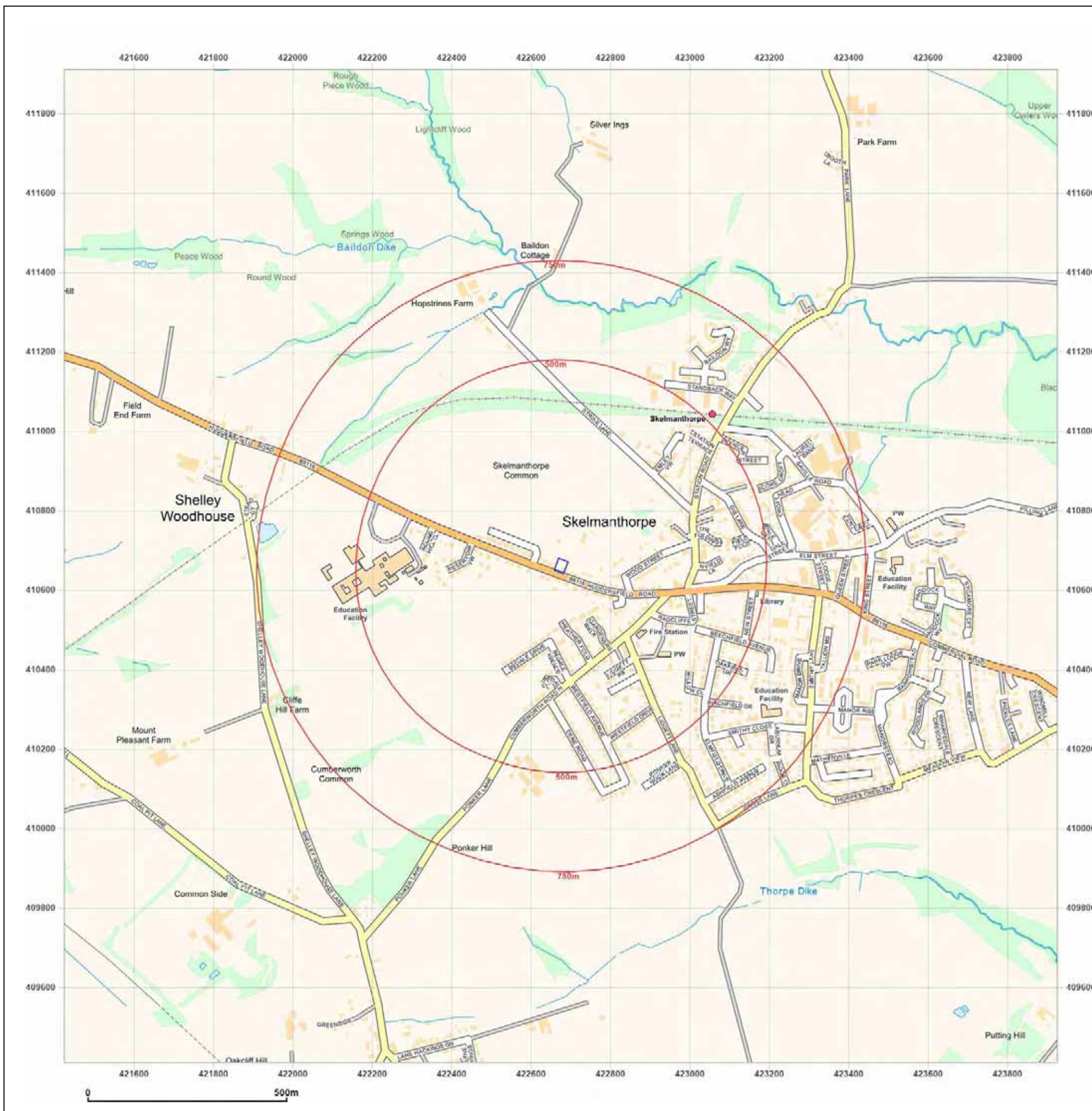


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1893

Scale: 1:2,500

Printed at: 1:2,500



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

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

Surveyed 1893
Revised 1893
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Copyright N/A
Levelled N/A

Surveyed 1893
Revised 1893
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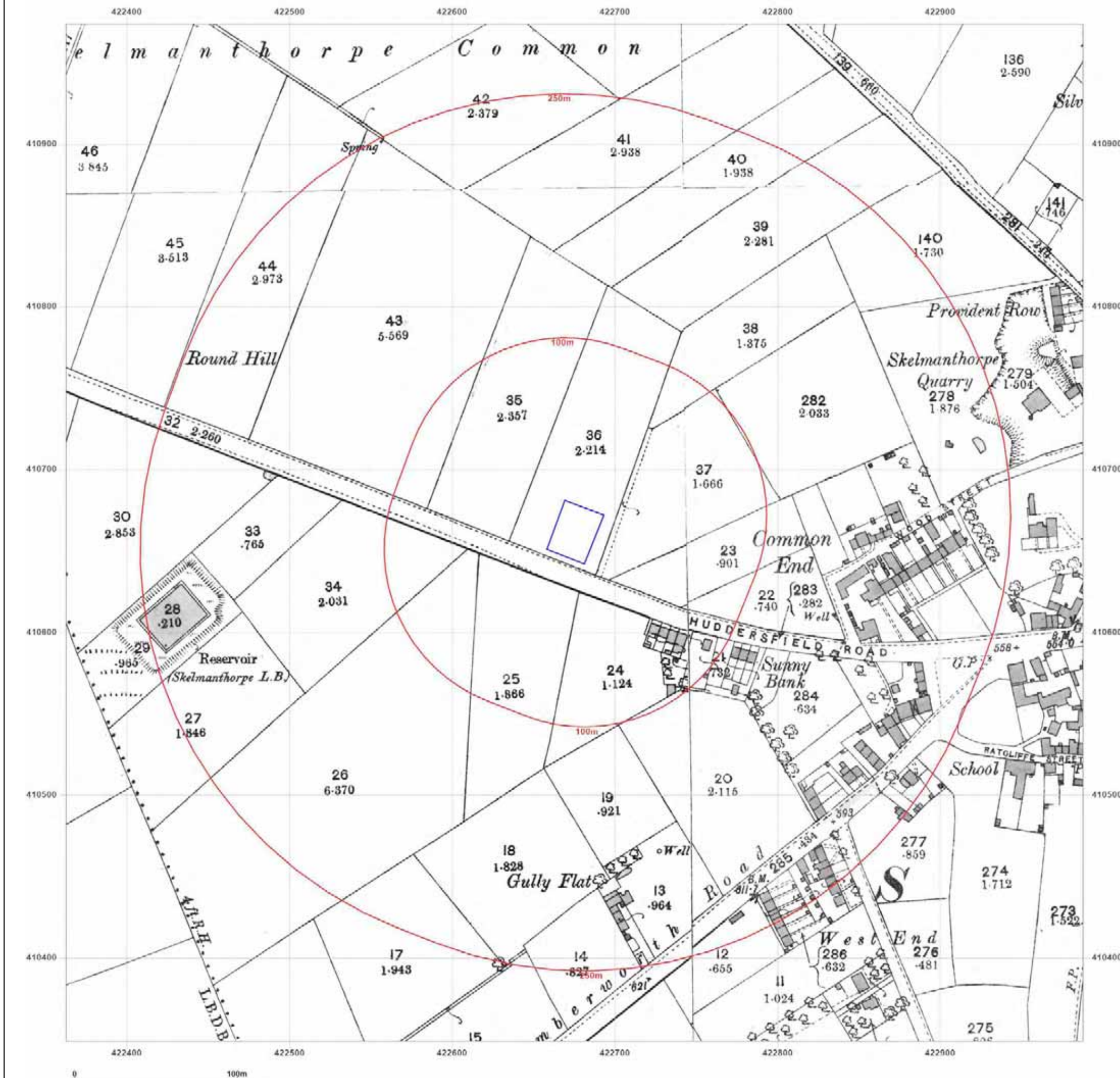


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Site Details:

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Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1906

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1906
Revised 1906
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1906
Revised 1906
Edition N/A
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Surveyed 1906
Revised 1906
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Surveyed 1906
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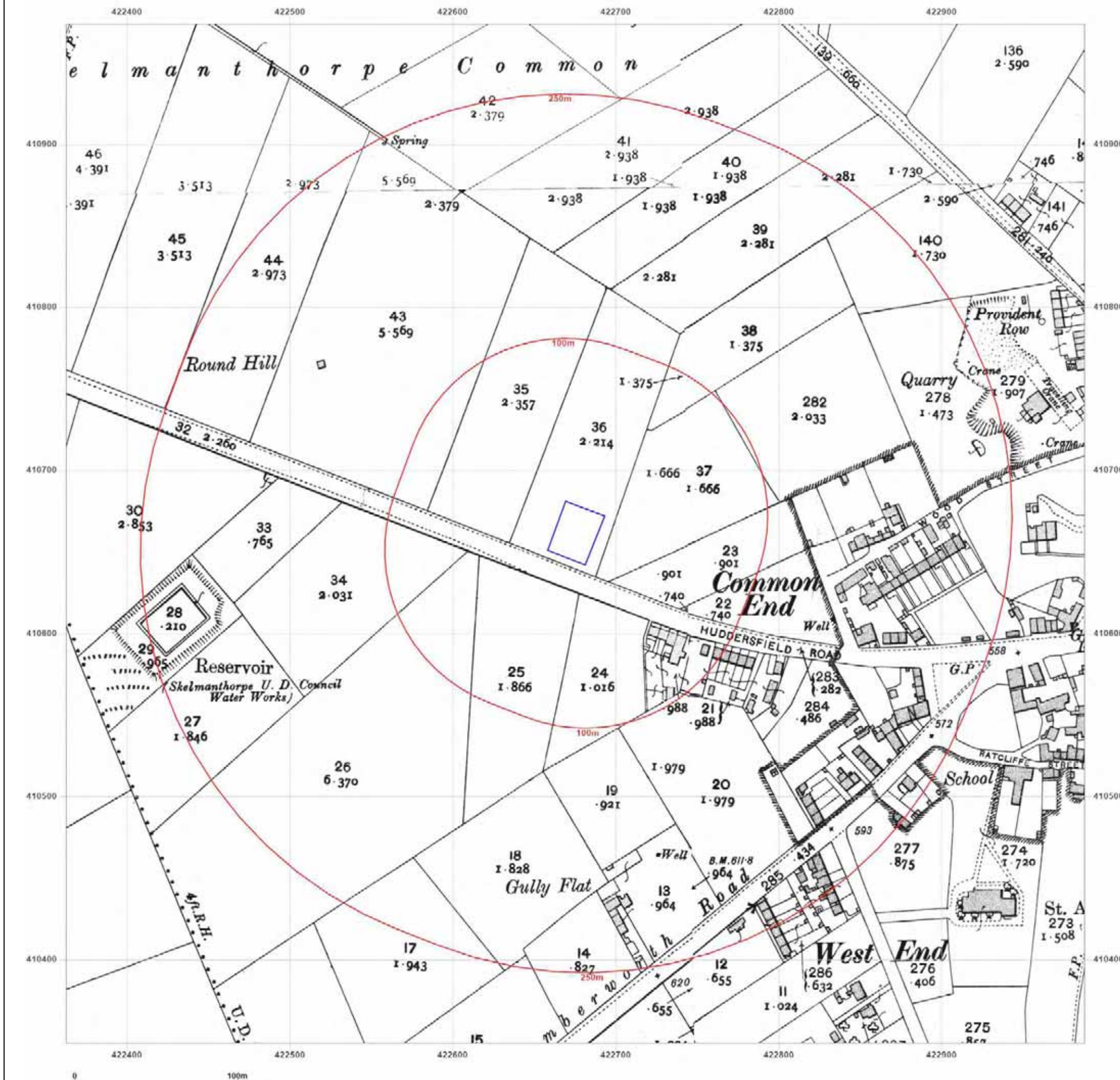


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: County Series

Map date: 1913-1916

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed N/A
Revised N/A
Edition 1916
Copyright N/A
Levelled N/A

Surveyed 1913
Revised 1913
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1913
Revised 1913
Edition N/A
Copyright N/A
Levelled N/A

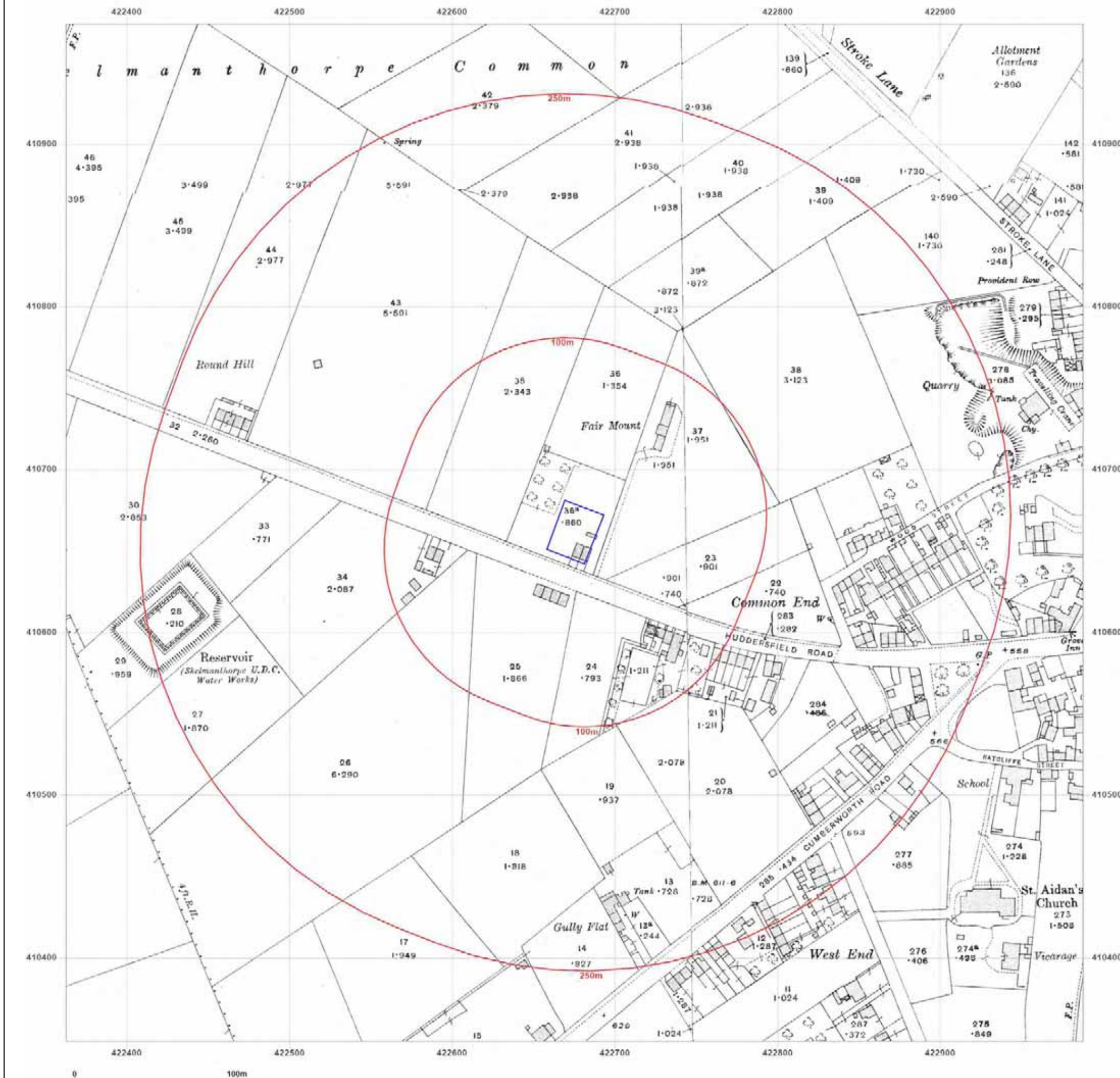


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Site Details:

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Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1960

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1959
Revised 1959
Edition N/A
Copyright 1980
Levelled 1930

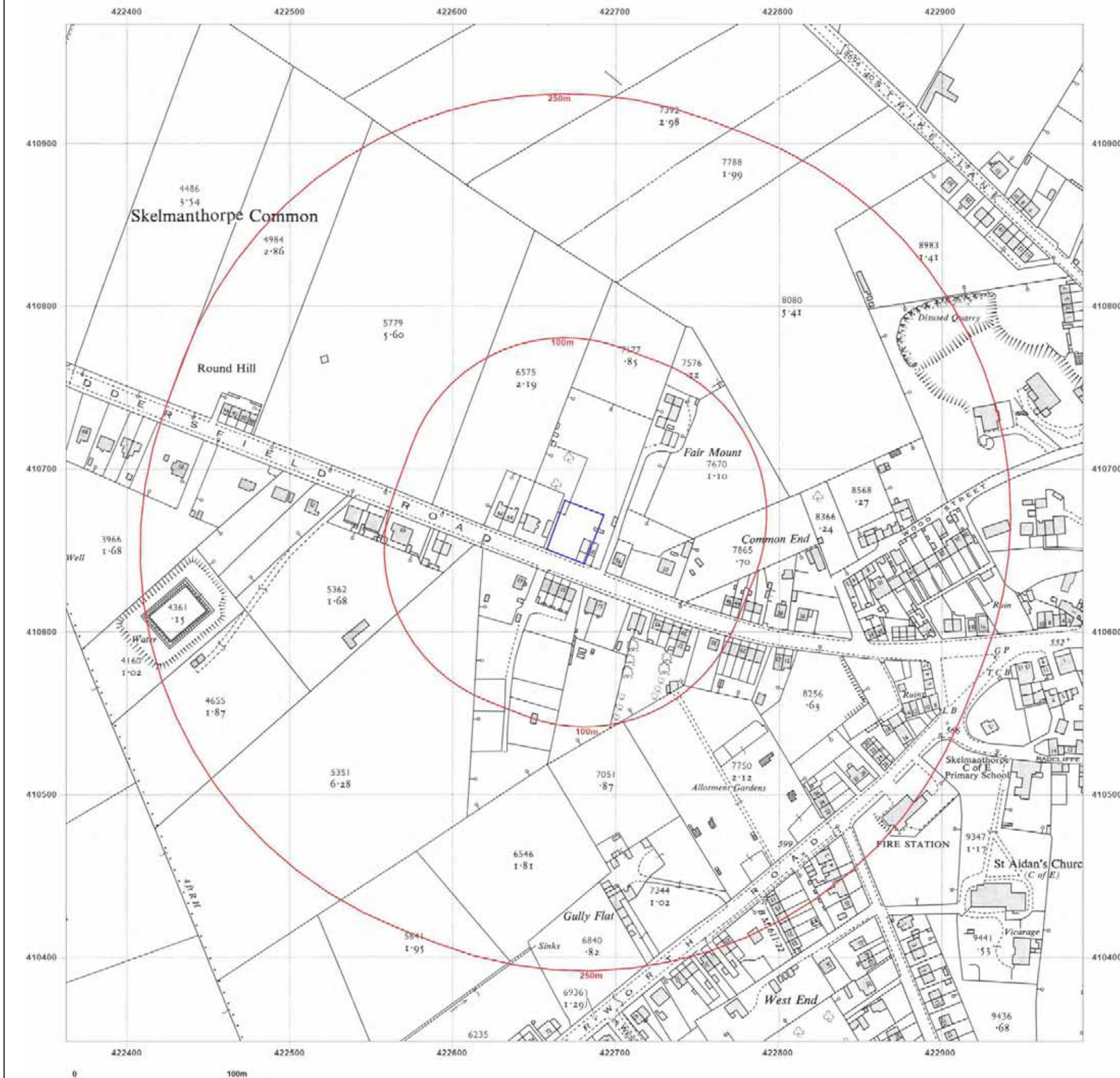


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Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1969
Revised 1969
Edition N/A
Copyright 1970
Levelled 1958

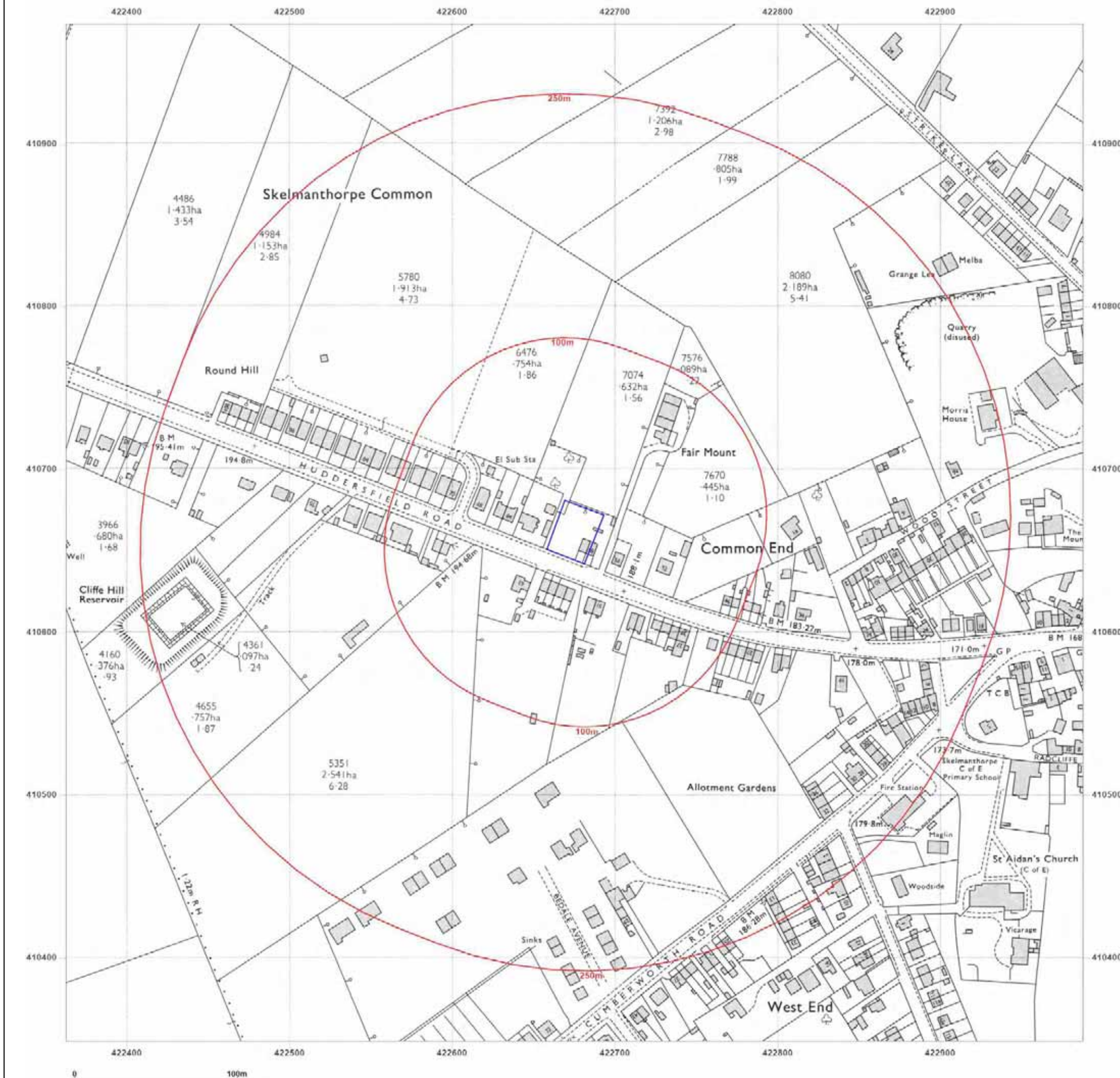


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Site Details:

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Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1974

Scale: 1:2,500

Printed at: 1:2,500



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

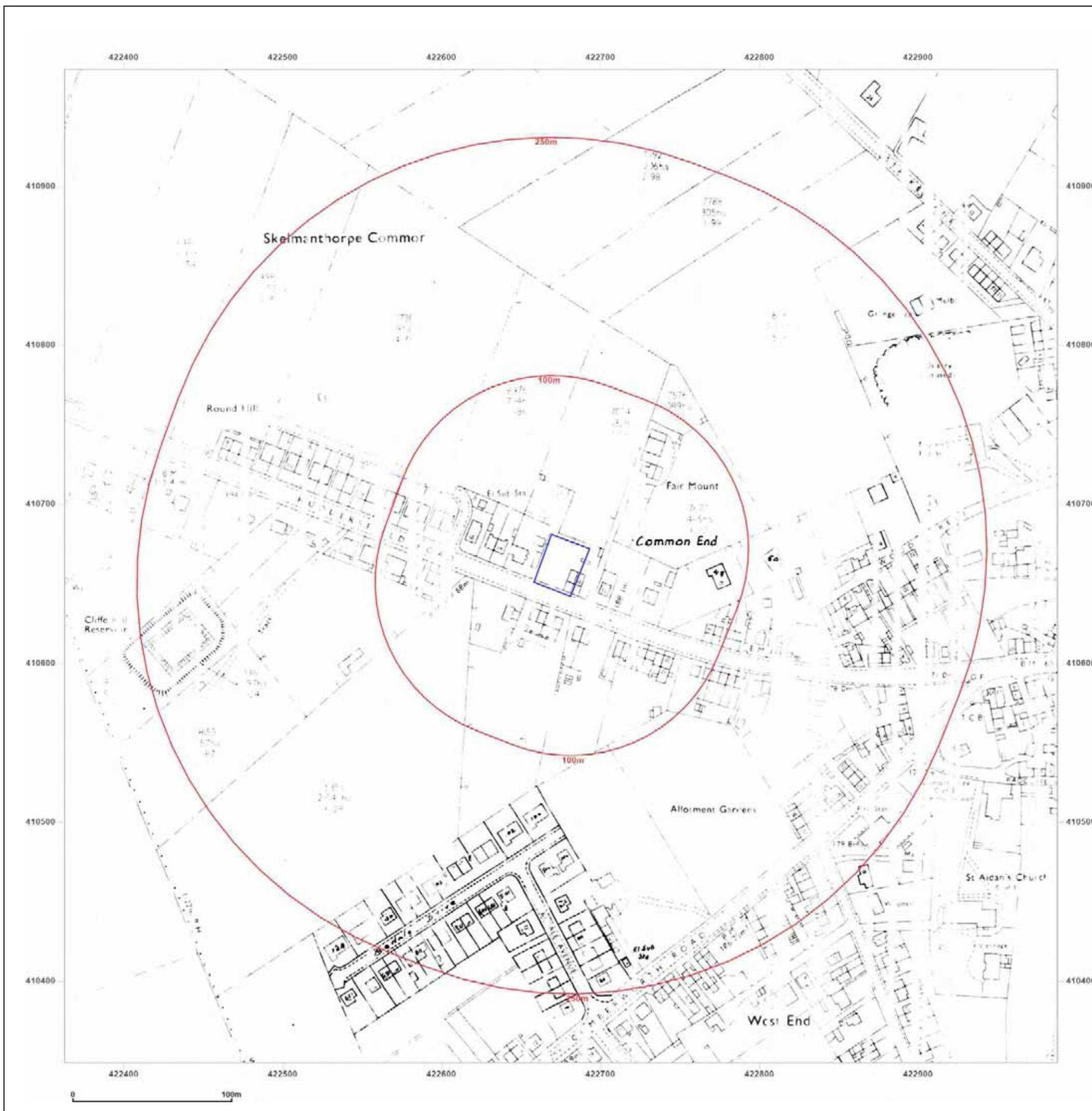


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1978

Scale: 1:2,500

Printed at: 1:2,500



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

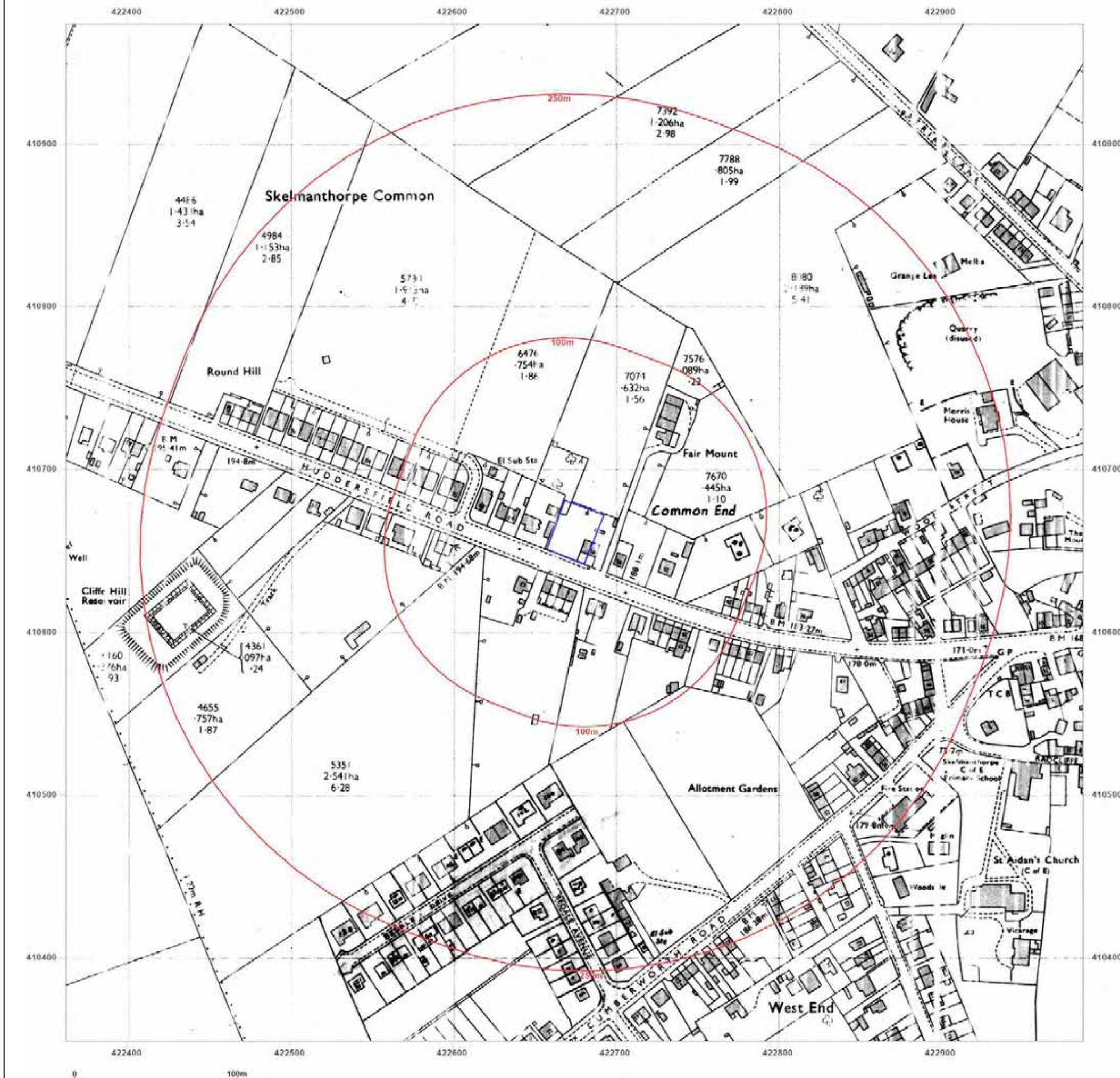


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Site Details:

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Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1987

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1958
Revised 1987
Edition N/A
Copyright 1987
Levelled 1958

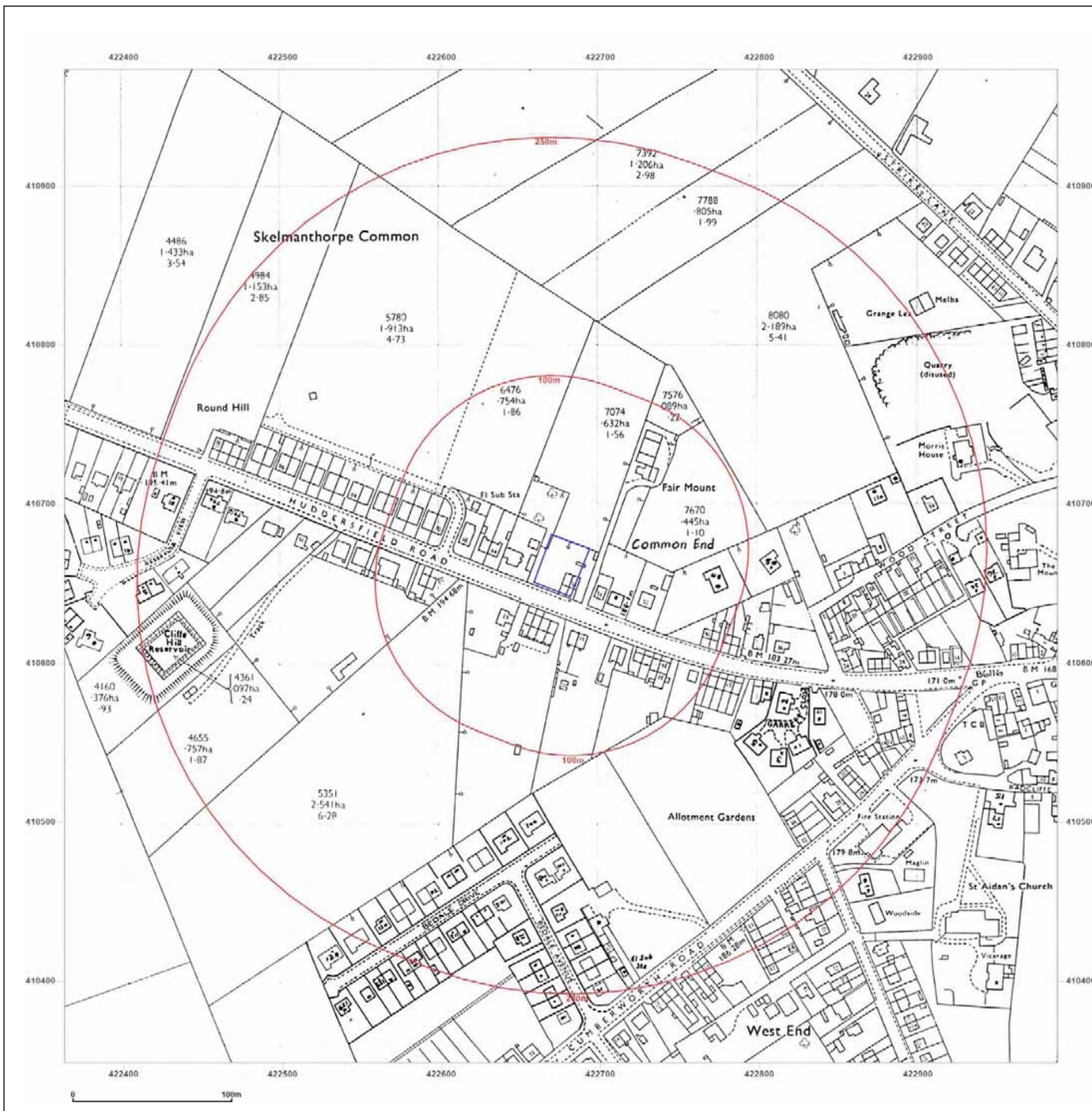


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1991

Scale: 1:2,500

Printed at: 1:2,500



Surveyed N/A
Revised 1989
Edition N/A
Copyright 1991
Levelled N/A

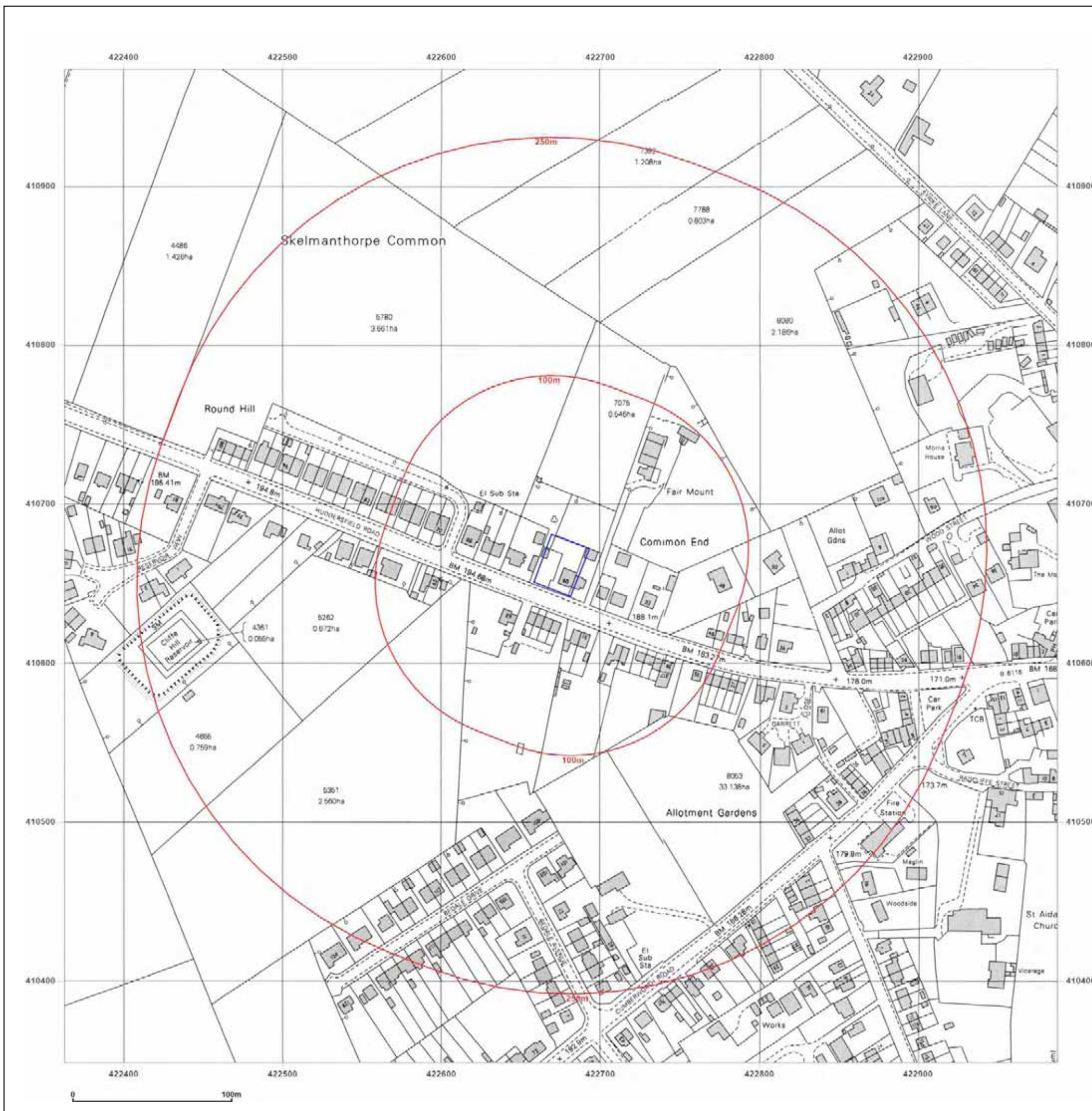


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: National Grid

Map date: 1992

Scale: 1:2,500

Printed at: 1:2,500



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

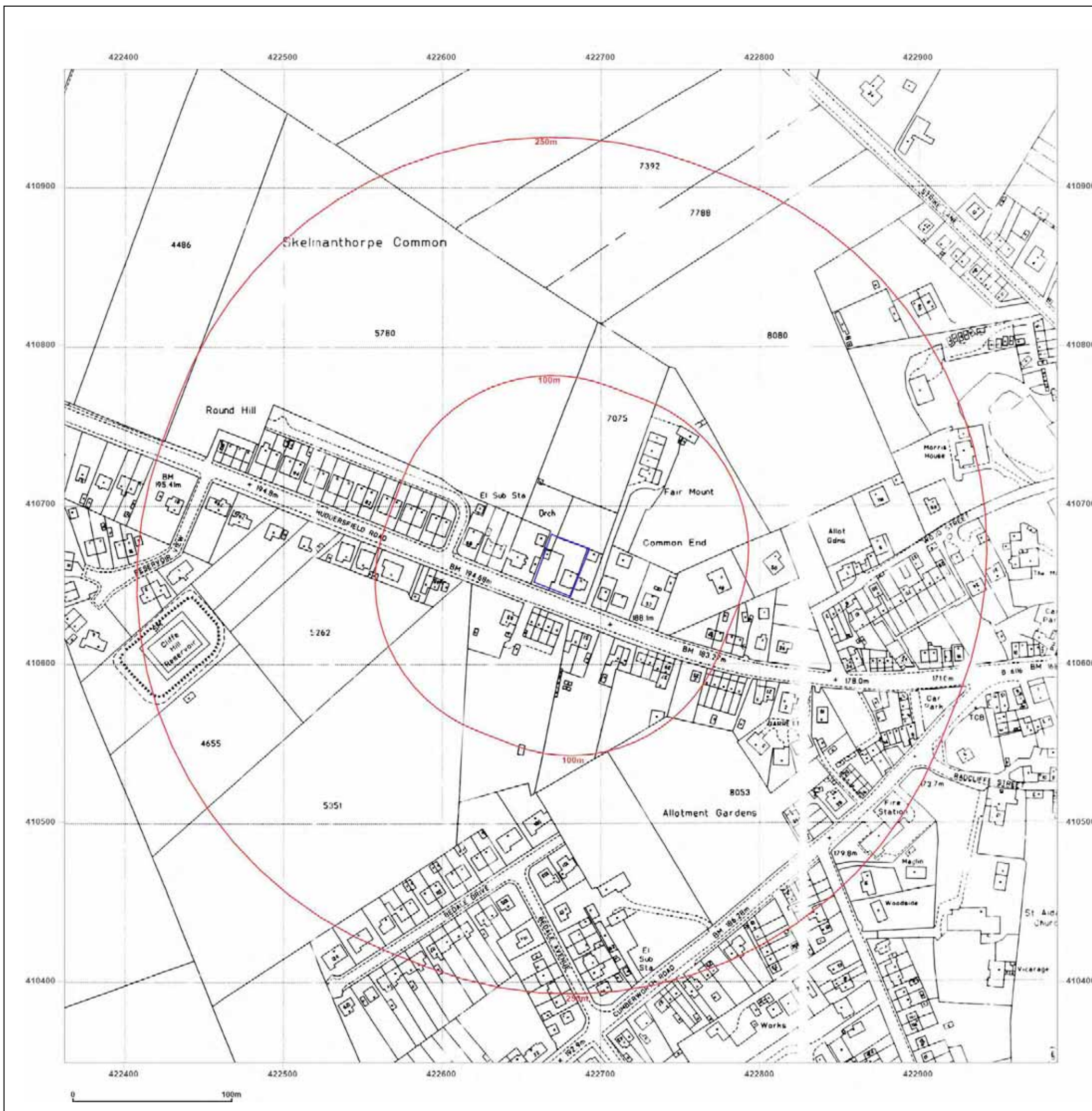


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Site Details:

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HUDDERSFIELD, HD8 9AS

Client Ref: brooke_7930
Report Ref: GS-8541039
Grid Ref: 422675, 410661

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



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