



Mr I Barnes

Land at 29A Cemetery
Road
Hemingfield
Barnsley
S73 0PU

Phase I Desk Study

Ref: P17-00096
June 17

**Professional,
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Revision Record

Report Ref: P17-00096					
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Contents

1 Introduction	1
1.1 General Introduction	1
1.2 Objectives	1
1.3 Scope of Works	2
1.4 Limitations of the Report	2
2 Site History and Environmental Setting	3
2.1 Site Description	3
2.2 Site History from Mapping	4
2.3 Site Historical Overview	5
2.4 Geological Overview	6
2.5 Environmental Overview	8
2.6 Previous Investigations	8
3 Potential Contamination	9
3.1 Background	9
3.2 Development Proposal	9
3.3 Historical Land Use	9
3.4 Current Land Use	9
3.5 External Environmental Influences	9
3.6 Preliminary Risk Assessment	9
3.7 Sources	10
3.8 Pathways	12
3.9 Receptors	12
3.10 Preliminary Conceptual Site Model	13
4 Coal Mining Risk Assessment	14
5 Recommendations	15
5.1 Environmental	15
5.2 Geotechnical	15

1 Introduction

1.1 General Introduction

This Report presents the findings of a Phase I Desk Study of a site at 29A Cemetery Road, Barnsley, S73 0PU (Grid Reference: 439160, 401368) for Mr I Barnes.

The Desk Study (Phase I) comprised obtaining research/archive information from Emapsite, in the form of a GroundSure Report. The GroundSure Report provides the basic background information including Historical Ordnance Survey Plans, British Geological Survey Plans and Environment Agency Report (including Radon). This report presents the findings of this background information as it relates to the proposed end use of the site and considers the potential for contamination of the site. The Groundsure Report is attached as Appendix I.

1.2 Objectives

This Desk Study was conducted in order to formulate an opinion as to the potential for hazardous substances to exist on, at, or near the vicinity of the site which might affect the future development of the site, appropriate to the proposed end use of the site. It is understood that redevelopment of the site for residential purposes is proposed. The “vicinity” of the site for the purposes of this Report is defined as being located within an approximate 250m radius of the site.

The objectives of the Desk Study were aimed to determine:-

- The historical site usage, identifying any factors, based on the Archive Ordnance Survey Maps, which might give rise to the potential for hazardous substances to exist on, at, or near the vicinity of the site.
- The general ground conditions at the site, based on published Geological Maps, identifying any significant geotechnical conditions which might affect the future redevelopment of the site.
- Current operations undertaken within the site and in the immediate vicinity, based on the GroundSure database, which might give rise to the potential for hazardous substances to exist on, at, or near the vicinity of the site and which might affect the future redevelopment of the site.

1.3 Scope of Works

In order to meet the objectives, Met Engineers obtained research information from Emapsite, which includes data from the following sources: -

- Historical Ordnance Survey Plans
- British Geological Survey Plans and Radon Report
- Environment Agency Report
- Coal Authority Mining Information

This Report presents the findings of the Desk Study as related to the proposed end use of the site. The purpose of the Desk Study is to allow an opinion to be formulated as to the likely Geo Environmental conditions at the site and the potential implications for the end use. This report does not quantify those findings nor provide any recommendations for remedial works, mitigation or risk management.

1.4 Limitations of the Report

Mr I Barnes (the Client) has requested that a Phase I Geo-Environmental Site Assessment be undertaken in order to assess the suitability of the site for redevelopment. The Report is not a comprehensive site characterisation and should not be construed as such.

This Report has been prepared for the sole internal use and reliance of Mr I Barnes. The Report shall not be relied upon or transferred to any other parties without the express written authority of Met Engineers. If any unauthorised third party comes into possession of the Report, they rely on it at their own risk and the Met Engineers owes them no Duty of Care.

The findings and opinions conveyed via this Report are based on information obtained from a variety of sources as detailed within this Report and which Met Engineers, believes are reliable. Nevertheless, Met Engineers, cannot and does not guarantee the authenticity or reliability of the information it has relied upon. The information contained in this Report is to the best of our knowledge accurate at the date of issue, however, sub-surface conditions, including ground water levels, and may vary over time.

It is possible that the GroundSure Report may not include information from every information source. Assuming such further information sources actually exist, their information has not been considered in the formulation of these findings and opinions; this Report only considers the information contained within the GroundSure Report.

In preparing this Report it has been assumed that all past and present occupants and Third Parties have provided accurate information, especially relating to known or potential hazards. This Report does not identify deficiencies or mistakes in the information provided by the user/owner, or from any other source, except where obvious in the light of other information.

This Report is relevant at the date the report was written and should be read in the light of any subsequent changes in legislation, statutory requirement or industry practices.

The Report represents the technical findings and opinions of Met Engineers, and does not constitute any legal advice. As such, the advice of a Solicitor may also be required.

2 Site History and Environmental Setting

A detailed review of the published history, hydrological, geological and available environmental information has been carried out.

The area of land referred to as 'The Site' within this document is indicated in Appendix I.

2.1 Site Description

Site Address	Land at 29A Cemetery Road, Hemingfield, Barnsley, S73 0PU
Location	Grid Reference: 439160, 401368
Setting	The site is located in Hemingfield, approximately 6.4km south east of Barnsley. The site is roughly rectangular in shape and approximately 0.63 hectares (Ha) in size. It is accessed via an open entrance off Cemetery Road, adjacent to the bungalow number 29A. The site is predominantly covered by vegetation including grass, nettles and brambles with trees along the eastern and southern boundaries. There are a number of small abandoned brick buildings in the centre of the site and two hardstanding concrete areas. The previous use of these buildings is unknown. A vegetation covered mound is present in the west of the site. The south eastern part of the site is boggy and rushes and reeds were observed in this area. A pond was also noted in the southern corner of the site. This may limit future ground investigation works in this part of the site. Boundaries are formed by the garden fences of the adjacent residential properties along the north eastern, north western and south eastern boundaries. The south western boundary is formed by trees and overgrown bushes. The ground surface is uneven and generally slopes towards the south east. The adjacent land uses are residential houses with gardens to the north west, north east and south east. To the south west is a surface water stream and agricultural land.
Development Proposal	It is proposed to develop the site with residential houses and gardens. A proposed layout is included in Appendix IV.

2.2 Site History from Mapping

Year scale)	(map	Comment
1850 (1:10,560)		The site is undeveloped agricultural land with a stream flowing along the south western boundary. The surrounding area is predominantly agricultural with a number of small roads and farm buildings in the vicinity of the site.
1890-3 (1:2,500)		The site remains undeveloped with trees along the south eastern boundary and the stream shown off-site to the south west. A row of houses is present adjacent to the north western boundary. The village of Hemingfield is present to the north east with houses and Hemingfield Green approximately 50m to 70m north east and a church and school 250m north east. A smithy is located approximately 175m north.
1903 (1:2,500)		No significant change to the site. A railway with cuttings and a tunnel have been developed approximately 250m north west.
1930 (1:2,500)		No significant change to the site. A recreation ground (Miner's Welfare Recreation Ground) is now located approximately 50m north of the site and allotment gardens are shown 100m north west. Tennis courts are now present 150m north and the smithy is no longer shown.
1955 (1:1,250)		8N^o small buildings are now shown on the site and adjacent to the north eastern and south western boundaries. The use of these buildings is unknown. No significant change to the surrounding area.
1971 (1:1,250)		Additional buildings are now shown on the site, including the current residential building labelled 29A. No significant change to the surrounding area.
1978 (1:2,500)		Many of the on-site buildings in the centre of the site are no longer shown. No significant change to the surrounding area.
1993 (1:1,250)		Additional buildings have now been constructed in the centre of the site with one also in the east of the site. More buildings are now present on the land adjacent to the south western boundary.
1994 (1:1, 250)		No significant change to the site. Residential houses have now been constructed adjacent to the north eastern and south eastern boundaries of the site.
1854-2014		Those maps not specifically mentioned show no deviation from the observations made above.

2.3 Site Historical Overview

The site was undeveloped agricultural land prior to the construction of the buildings by 1955. Additional buildings were constructed by 1977 and some of these were later demolished. The previous use of these buildings is unknown however the site walkover indicates the remaining buildings are currently disused.

The surrounding area was predominantly agricultural land on the earliest historical maps. The residential area of Hemingfield has gradually expanded towards the site during the past century with houses now present adjacent to the site boundaries. A smithy was located 175m north from around 1890 to 1930 when a recreation ground and tennis courts were developed in this area. By 1903 a railway was constructed to the north west of the site which still remains.

2.4 Geological Overview

Geology	Artificial Ground – The Groundsure report doesn't identify any artificial ground beneath the site, however some Made Ground is anticipated on site based on the historical developments. 7N^o areas of artificial ground are identified within the Groundsure report, the nearest is infilled ground 12m east. Superficial Deposits – None recorded Bedrock Geology – Abbey Rock (sandstone) and Pennine Middle Coal Measures (mudstone, siltstone and sandstone). Faults – None recorded on site. Nearest 54m south west trending north west to south east. Coal Outcrops – Inferred coal seam outcropping in the southern corner of the site. 14N^o additional observed and inferred coal seams outcropping within 250m of the site.
Radon	<1% of properties in the area are above the radon action level. Therefore radon specific protection measures are not required for new buildings in accordance with BRE publication BR211.
Ground Workings	There are 4N^o areas of historical ground workings shown within 250m of the site. The nearest is an unspecified heap 145m north west. Others include a sewage works and cuttings located approximately 206m south, 212m north west and 241m west.
Mining	The site is within a Coal Mine Reporting Area therefore a Coal Report has been obtained from The Coal Authority, which can be found within Appendix III of this report. The Coal Authority confirm that the site is in a surface area that could be affected by mining in 6N^o seams of coal at 130m to 470m depth last worked in 1972. In addition the property is in an area where the coal authority believe there is coal at or close to the surface which may have been worked at some time in the past. The site is not affected by any present or planned underground mining however reserves of coal do exist in the area which may be worked at some time in the future. There are no mine entries within 20m of the site. The site is not affected by any past, present or future opencast mining. The Coal Authority have not received a claim for coal mine related subsidence for any property within 50m of the site since 1994. The property is in an area where notices to withdraw support were given in 1946, 1981 and 1983. The site is within a Development High Risk Area with regards to shallow coal mining, therefore a Coal Mining Risk Assessment has been carried out as part of this report and is presented in Section 4.

Natural Ground Subsidence	No natural ground subsidence problems are envisaged on the site. There is an area with significant potential for compressibility problems located 14m east. The Groundsure report states not to drain or dewater ground near the property without technical advice.
Boreholes	1No BGS borehole record is held for a position located 181m north of the site. This borehole (ref SE30SE129) shows light brown clayey sand and broken sandstone with bands of grey mudstone (from 1.52m to 1.67m) overlying dark grey firm to stiff seat earth with fragments of coal and ironstone (from 1.67m to 3.04m), brown clayey sand (3.04m to 3.35m) and brown sandy weathered mudstone with traces of iron and carbon staining (3.35m to 6.55m).

2.5 Environmental Overview

Historical Land Use	There are 6No potentially contaminative historical land uses shown within 250m of the site. The nearest is the smithy located 139m north from 1901. Others include tanks (5m south west), an unspecified heap (146m north west), sewage works (206m south), cuttings (210m north west), and a tunnel (242m north west).
Current Land Use	There are 2No potentially contaminative current industrial land uses shown within 250m of the site. These are electricity substations located 55m north east and 196m east.
Environmental Permits	There are no environmental permits shown within 250m of the site.
Pollution Incidents	There are no pollution incidents shown within 250m of the site.
Landfill Sites	There are no current or historical landfills shown within 250m of the site.
Waste Transfer & Processing Stations	There are no waste transfer and processing stations shown within 250m of the site.
Hydrogeology	The bedrock is classed as a Secondary A Aquifer. The site is not within a source protection zone. There are no ground water abstractions within the vicinity of the site.
Hydrology	There is a tertiary river located adjacent to the western boundary of the site. There are no surface water abstractions within 250m of the site.
Flooding	The site is not within a flood risk area.
Environmental Sensitivity	The site is in a nitrate vulnerable zone.

2.6 Previous Investigations

Met Engineers Ltd. are not aware of any other site investigations and no details of any have been provided.

3 Potential Contamination

3.1 Background

Current Environmental Legislation, in particular Part IIA of the Environmental Protection Act 1990, adopts a risk-based approach to the evaluation of contaminated sites, based on the proposed end use of the site. The commonly accepted approach is to adopt a Source-Pathway-Receptor model where the Source of the contaminant is examined in relation to potential Receptors (i.e. humans, controlled waters etc.) to determine if there is a Pathway (i.e. pollution linkage) connecting them. If any of these elements (i.e. contaminant, pathway or receptor) are absent or removed, then there is no risk.

3.2 Development Proposal

It is proposed to develop the site with residential houses and gardens. A proposed layout is included in Appendix IV.

3.3 Historical Land Use

The site was undeveloped agricultural land prior to the construction of the buildings by 1955. Additional buildings were constructed by 1977 and some of these were later demolished.

3.4 Current Land Use

The site is currently grass land with some abandoned buildings and hardstanding areas in the centre.

3.5 External Environmental Influences

There are a number of potentially contaminative current and historical land uses in the surrounding area. Historical land uses include a smithy located 139m north from 1901. Others include tanks (5m south west), an unspecified heap (146m north west), sewage works (206m south), cuttings (210m north west), and a tunnel (242m north west). Current land uses include electricity substations to the north and east. Contaminants from these land uses have the potential to have migrated on to the site through various pathways.

3.6 Preliminary Risk Assessment

In considering the potential for contamination, the information highlighted in this report has to be assessed utilising the source-pathway-receptor methodology. Should one of the three links be absent, the site cannot be considered contaminated under Part IIA of the Environmental Protection Act.

The risks identified in this report are perceived risks relative to the proposed end use. Actual risks can only be fully assessed after a robust and thorough intrusive investigation of the site. The preliminary conceptual risk assessment model undertaken for the site is detailed as follows:

3.7 Sources

Based on the evidence collated, the possible sources of contamination which potentially affect the site include:

	Activities	Contaminant Location On Site	Potential Contaminants	Likelihood of Contaminant being present on site	Comment
Historical Site Usage	Demolition of former buildings	Made Ground/ surface soil	Asbestos Polycyclic Aromatic Hydrocarbons (PAH) Total Petroleum Hydrocarbons (TPH) Heavy Metals	Moderate	Buildings on site from 1955 with additional buildings by 1977, some of these were subsequently demolished.
Current Site Usage	Existing buildings	Surface soils	Asbestos PAH TPH Heavy Metals	Moderate	Abandoned brick buildings remain on site. Unknown former use, potential presence of asbestos within building fabric unknown.
	Unspecified Mound	Made Ground/ surface soil	Land Gas Asbestos PAH TPH Heavy Metals	Moderate	Unspecified vegetated mound noted in the west of the site during the site walkover. Material unknown.
Historical Neighbours	Railway	Surface soil	Land Gas Asbestos PAH TPH Heavy Metals	Low	Railway constructed approximately 250m north west by 1903. Reduced likelihood of contaminants on site due to distance from site.
	Unspecified tank	Surface Soils/ bedrock	Land Gas PAH TPH Heavy Metals	Moderate	Unspecified tank recorded 5m south west. Contents and condition of any bunding unknown. Unknown whether this is underground or overground.
	Unspecified	Surface Soils/	Land Gas	Low/ Moderate	Unspecified heap recorded 146m

	Activities	Contaminant Location On Site	Potential Contaminants	Likelihood of Contaminant being present on site	Comment
	heap	bedrock	Asbestos PAH TPH Heavy Metals		north west. Potential for land gas to have migrated to the site. Likelihood of other contaminants migrating to site reduced due to distance.
	Sewage Works	Surface Soils/ bedrock	Land Gas PAH TPH Heavy Metals	Low	Sewage works approximately 200m south. Reduced likelihood of contaminants on site due to distance from site. No recorded pollution incidents.
	Ground workings/ cuttings	Surface Soils/ bedrock	Land Gas Asbestos PAH TPH Heavy Metals	Low	Cuttings 210 north west. Infilled ground not recorded.
Current Neighbours	Electricity substations	Surface Soils/ bedrock	Land Gas PAH TPH Heavy Metals Polychlorinated Biphenyls (PCBs)	Negligible	Substations present from 1971 approximately 55m and 195m east of the site. Likelihood reduced due to distance from site. No pollution incidents previously recorded.

The sources which are considered to have a moderate risk or greater of occurring on site have been assessed further as part of the Conceptual Site Model in Section 3.7 of this report

The list of possible contaminants has been based solely on the information identified by the GroundSure Report and the site walkover and therefore should not be considered exhaustive.

3.8 Pathways

The Potential main pathways specific to the probable future use of the site are:

Pathway	Pathway Present	Comments
Direct Contact with soil/ water	Yes	Potential for contact with soil/ water during future development works.
Incidental ingestion	Yes	Potential for ingestion of soils/ water during future development works.
Inhalation of soil dust/ asbestos fibres	Yes	Potential for inhalation of soil dust/ asbestos during future development works and ground disturbance.
Leaching/ migration of liquids	Yes	Potential for leaching to aquifer in areas to be developed with soft, vegetative cover.
Surface water run-off	Yes	Increased surface water run-off in proposed hard landscaped areas.
Migration/ emission/accumulation inhalation of land gas/ vapours	Yes	Migration and emission of land gas/ vapours possible, increased potential for accumulation in proposed buildings.
Plant uptake/ plant uptake followed by ingestion	Yes	Increased plant uptake in soft landscaped areas.

3.9 Receptors

The following site-specific receptors should be considered:

Receptor	Receptor Present	Comments
Site worker	Yes	Staff involved in construction and demolition works and underground utility works at the site.
Maintenance staff	Yes	Carrying out routine maintenance in the future (assumes workers will visit the site on an infrequent basis and will not carry out intrusive works).
Long term site user/ future resident	Yes	Long term site users/ future residents.
Off-site resident	Yes	Residential housing adjacent to the site.
Flora & Fauna	Yes	Flora on landscaped areas.
Aquifer	No	Bedrock is a Secondary A Aquifer, however there are no groundwater abstractions or source protection zones in the vicinity of the site.
Surface water	Yes	Tertiary river adjacent to the south western boundary.
Buildings & Infrastructure	No	Proposed building substructure/ services, drainage etc.

3.10 Preliminary Conceptual Site Model

Potential Source	Contaminants	Receptor	Pathway	Severity	Likelihood	Potential Risk
Soil based Contaminants (Solid)	Heavy Metals PAH TPH	Construction Workers Maintenance Workers End user	Direct contact with soil Ingestion of soils Inhalation of soil dust Inhalation of vapours (PAH/ TPH only)	Moderate	Low	Low/Moderate
		Off-site Resident	Inhalation of soil dust Inhalation of vapours (PAH/ TPH only)	Moderate	Very Low	Low
		Flora & Fauna	Plant uptake	Very Low	Low	Low
		Buildings & Infrastructure	Direct Contact with soil	Very Low	Low	Low
		Surface Water	Surface water run-off	Low	Moderate	Low/ Moderate
Soil based Contaminants (as Leachate)	Heavy Metals PAH TPH	Flora & Fauna	Plant uptake	Very Low	Low	Low
		Surface water	Leaching/ migration via groundwater	Low	Moderate	Low/ Moderate
Asbestos within building fabric	Asbestos Fibres	Construction Workers	Inhalation of asbestos fibres	High	High	High
Asbestos within Made Ground	Asbestos Fibres	Construction Workers Maintenance Workers End user	Inhalation of asbestos fibres	High	High	High
Land Gas		Construction Workers Maintenance Workers End user	Inhalation of gases	High	Low	Low/Moderate

Please see Appendix V for the matrix used to determine Risk.

Please note, the risks to off- site receptors from off-site sources (e.g Off-site landfill impacting off-site surface water stream) have not been assessed as part of this study.

4 Coal Mining Risk Assessment

The site is in a development high risk area and therefore the following coal mining risk assessment has been undertaken.

Coal Mining Issue	Yes	No	Discussion	Risk
Underground coal mining (recorded at shallow depths)	X		No records of shallow coal workings on the site. The property is in an area where notices to withdraw support were given in 1946, 1981 and 1983.	High
Underground coal mining (probable at shallow depths)	X		It is likely that coal seams are beneath the site at depths of less than 30m. This may have been worked at some time in the past.	High
Mine entries (shafts and adits)		X	There are no known mine entries or adits within 20m of the site.	Low
Coal mining geology (fissures)	X		There is an inferred coal seam outcropping on the site. There are a number of other coal seams outcropping in the vicinity of the site. No recorded damage due to geological faults or other lines of weakness that have been affected by coal mining.	Moderate
Record of past mine gas emissions or potential		X	No record made by the Coal Authority of mine gas emissions requiring action.	Low
Recorded coal mining surface hazard		X	There are no known coal mining surface hazards within close proximity to the site.	Low
Surface mining (opencast workings)		X	There are no known surface workings within close proximity to the site	Low

Coal seams are outcropping on the southern part of the site and in the general locality of the site. From the above discussion, it is likely that underground coal seams are present beneath the site at depths less than 30m. Therefore, the risk to the site from migration of crown holes towards the surface as a result of the collapse of unrecorded shallow coal workings is considered to be **HIGH**.

5 Recommendations

5.1 Environmental

A number of potential pollution linkages could exist within the site. An intrusive site investigation is recommended to confirm this potential.

The site investigation should cover the full site, as well as specifically targeting the area of the former buildings, and mound. A general range of contaminants should be tested for including Heavy Metals, Poly-aromatic Hydrocarbons, Total Petroleum Hydrocarbons Asbestos and Land Gas.

Following the site investigation, options for remediation, if required, can be evaluated. Any remedial measures undertaken will inevitably reduce the environmental risk to future ownership.

5.2 Geotechnical

It is likely that there will be Made Ground present at the surface of the site in the areas of the former buildings. Based on geological records superficial deposits are not expected beneath the site. It is anticipated that any Made Ground and topsoil will directly overlie Abbey Rock sandstone and Pennine Middle Coal Measures mudstone, siltstone and sandstone).

The intrusive investigation should confirm the immediate sub-surface soil conditions such that foundation recommendations can be made. A series of boreholes and/or trial pits should be undertaken to allow an assessment of the underlying strata. Suitable *in-situ* and laboratory geotechnical tests should be performed as part of the investigation.

The site is within a development high risk area with regards to shallow depth coal mining, therefore a coal mining risk assessment has been carried out as part of the Desk Study. The risk assessment has identified that underground coal seams are present beneath the site at depths less than 30m. Therefore, the risk to the site from migration of crown holes towards the surface as a result of the collapse of unrecorded shallow coal workings is considered to be **HIGH**. Site investigation comprising rotary open hole boreholes to 30m is recommended to confirm the depth of any shallow coal beneath the site.

Appendix I

Groundsure Report

Site Details:

29A Cemetery
Road, Hemingfield, Barnsley, S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: County Series

Map date: 1890-1892

Scale: 1:2,500

Printed at: 1:2,500



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

Surveyed N/A
Revised N/A
Edition 1890
Copyright N/A
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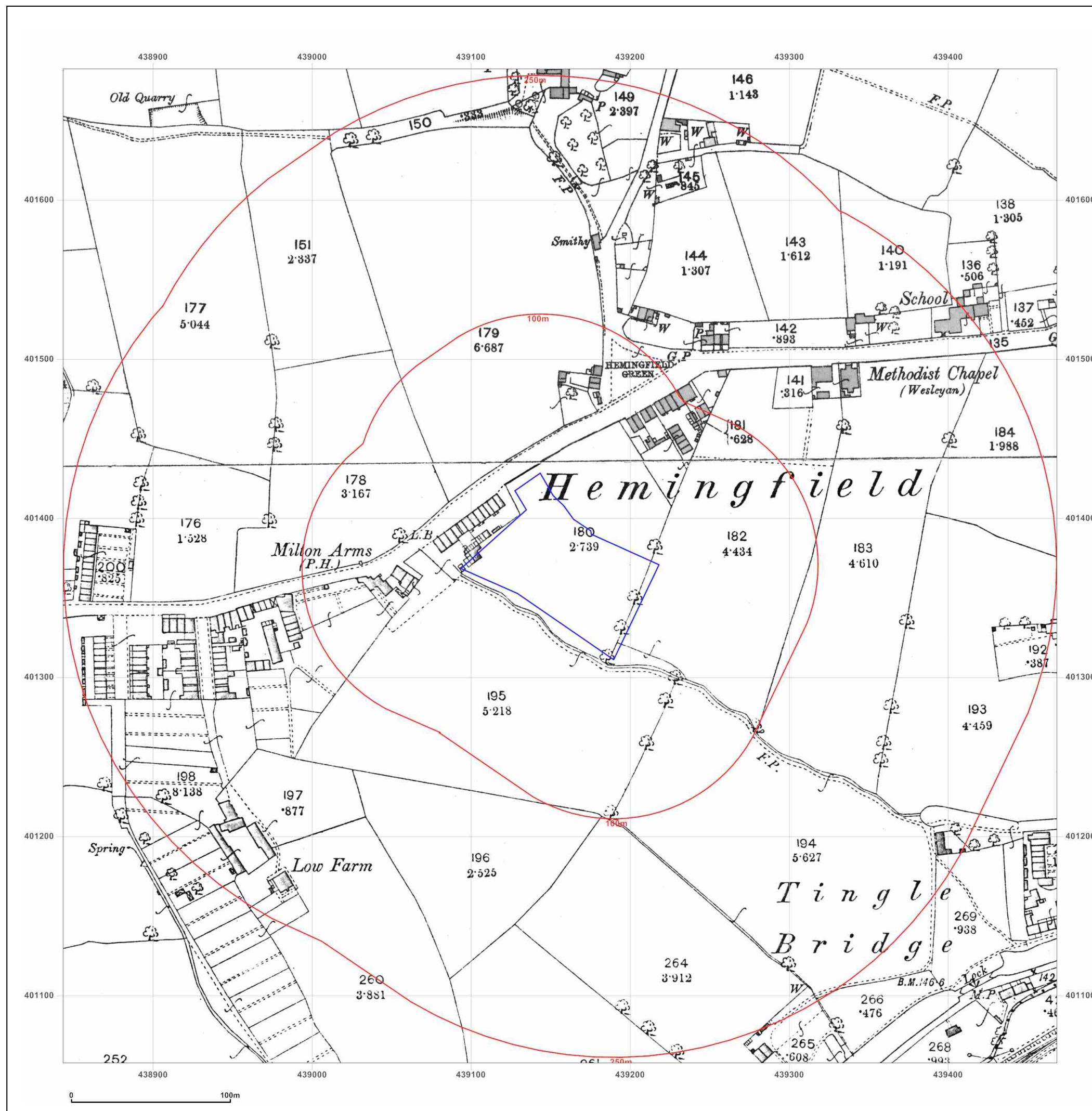


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Production date: 22 May 2017

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Site Details:

29A Cemetery
Road, Hemingfield, Barnsley, S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: County Series

Map date: 1903

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1901
Edition 1903
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Surveyed 1890
Revised 1901
Edition 1903
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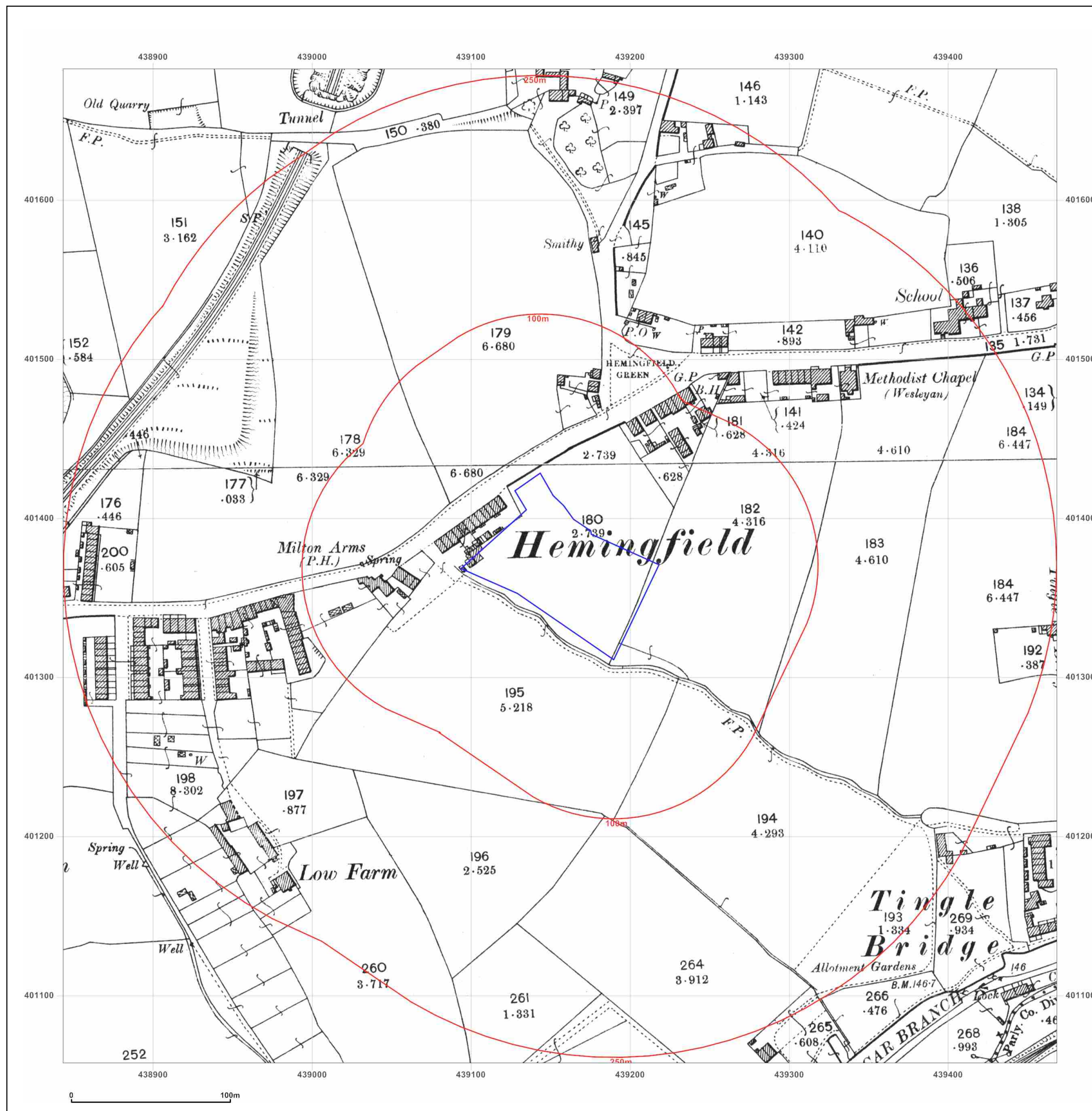


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Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: County Series

Map date: 1930

Scale: 1:2,500

Printed at: 1:2,500



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Revised 1928
Edition 1930
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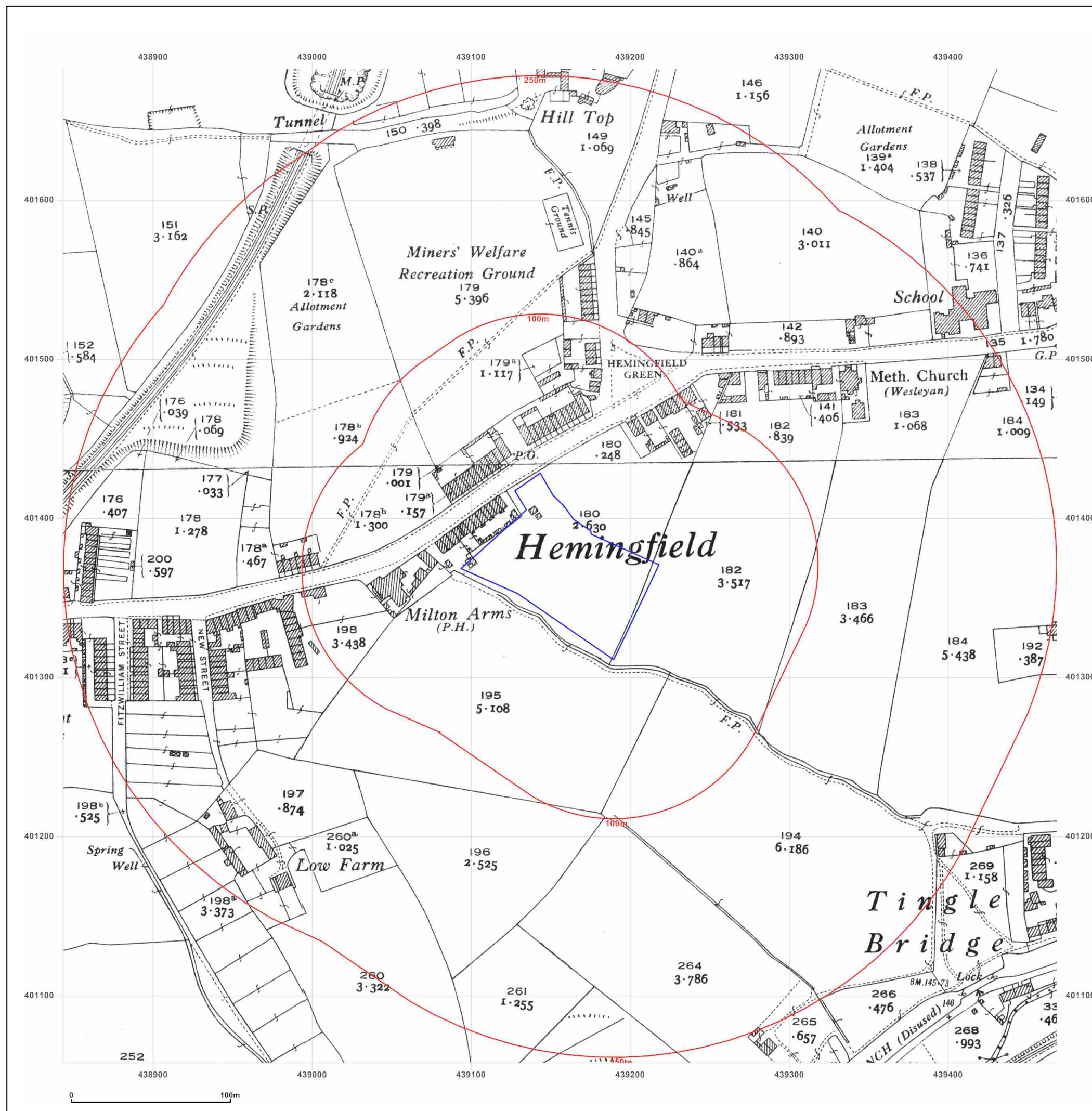


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Site Details:

29A Cemetery
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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1955

Scale: 1:1,250

Printed at: 1:2,000



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Site Details:

29A Cemetery
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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1956

Scale: 1:1,250

Printed at: 1:2,000



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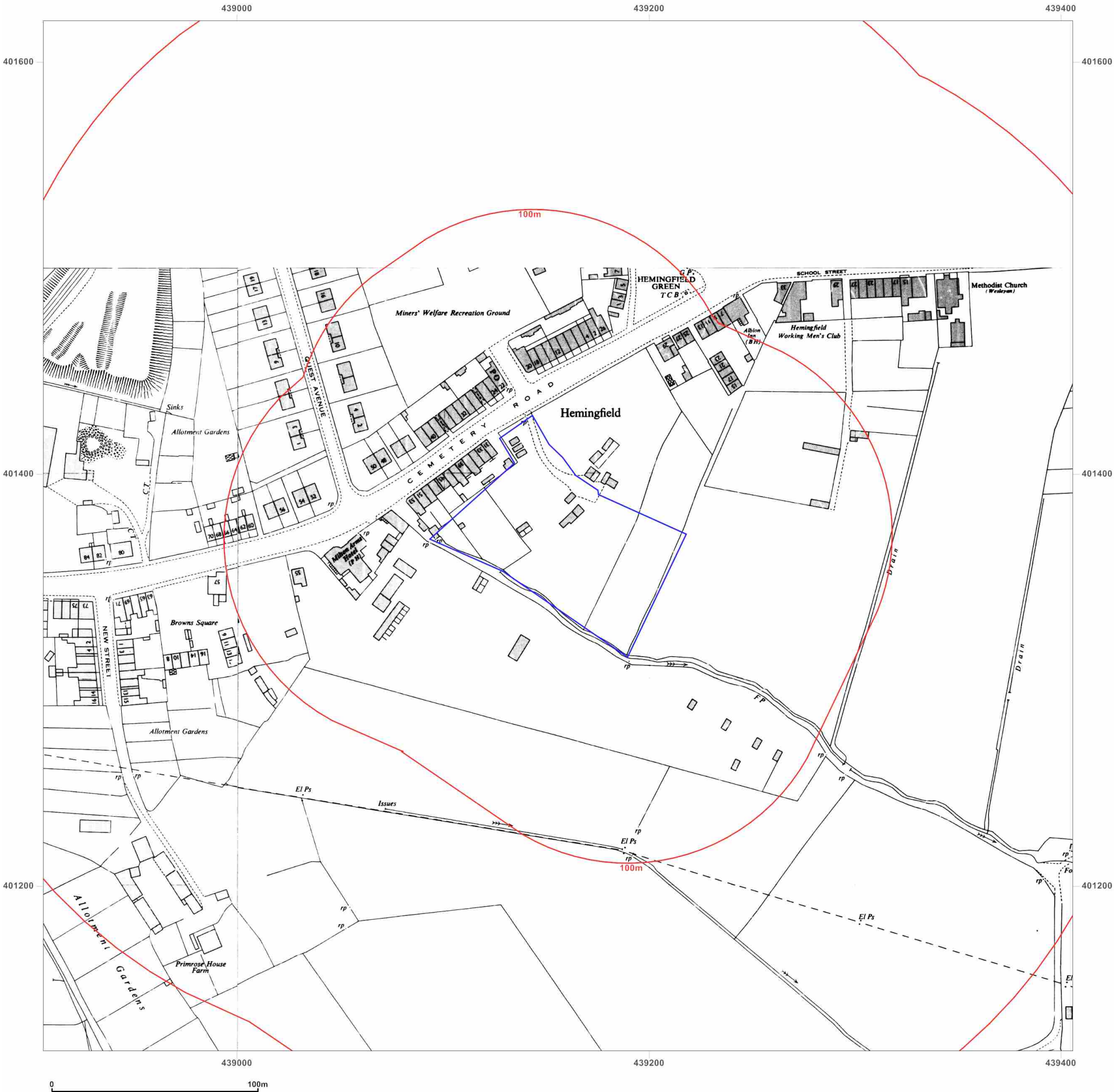


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29A Cemetery
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Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1961

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1955
Revised 1961
Edition N/A
Copyright 1962
Levelled 1959



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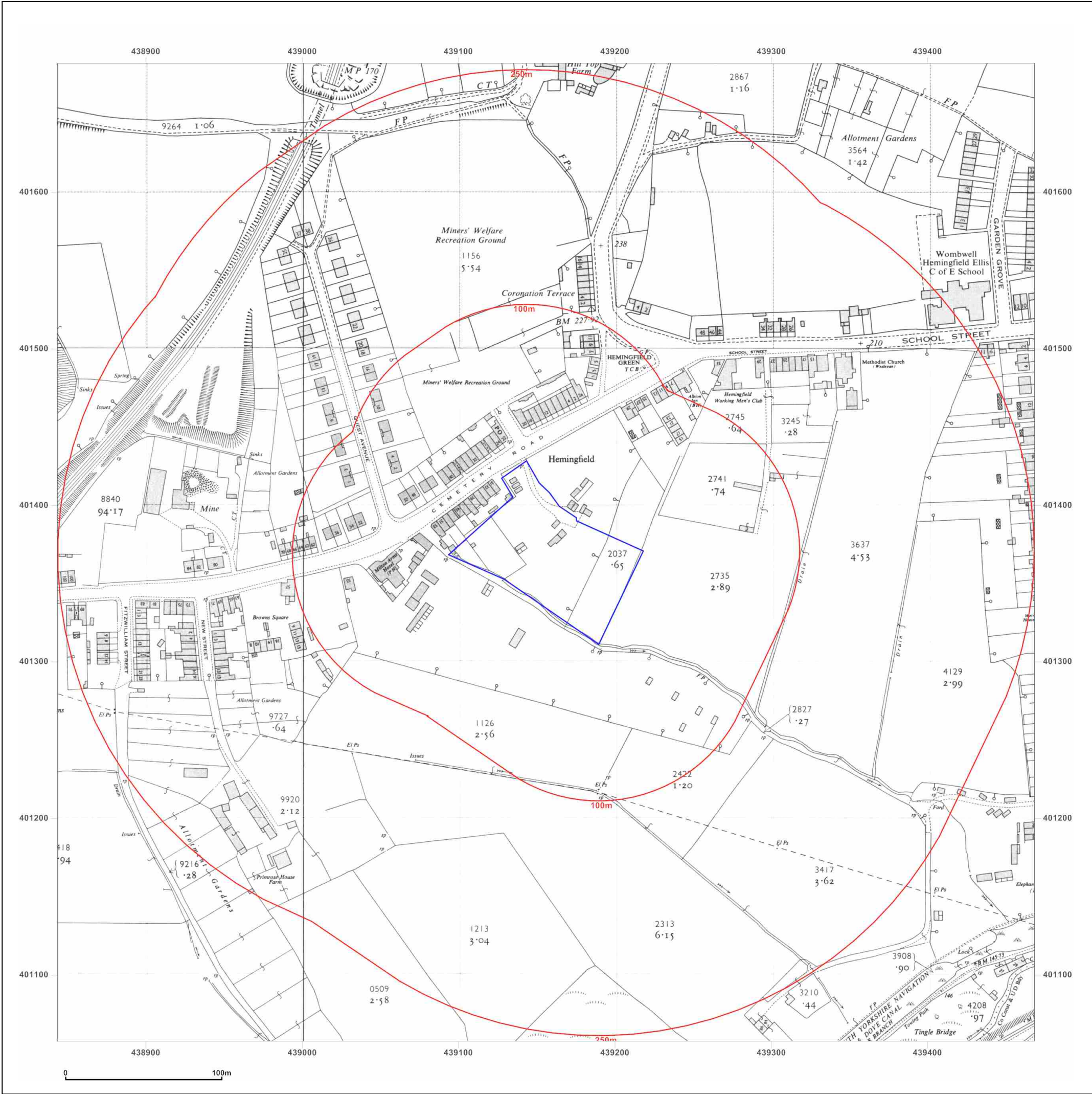


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Site Details:

29A Cemetery
Road,Hemingfield,Barnsley,S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1962

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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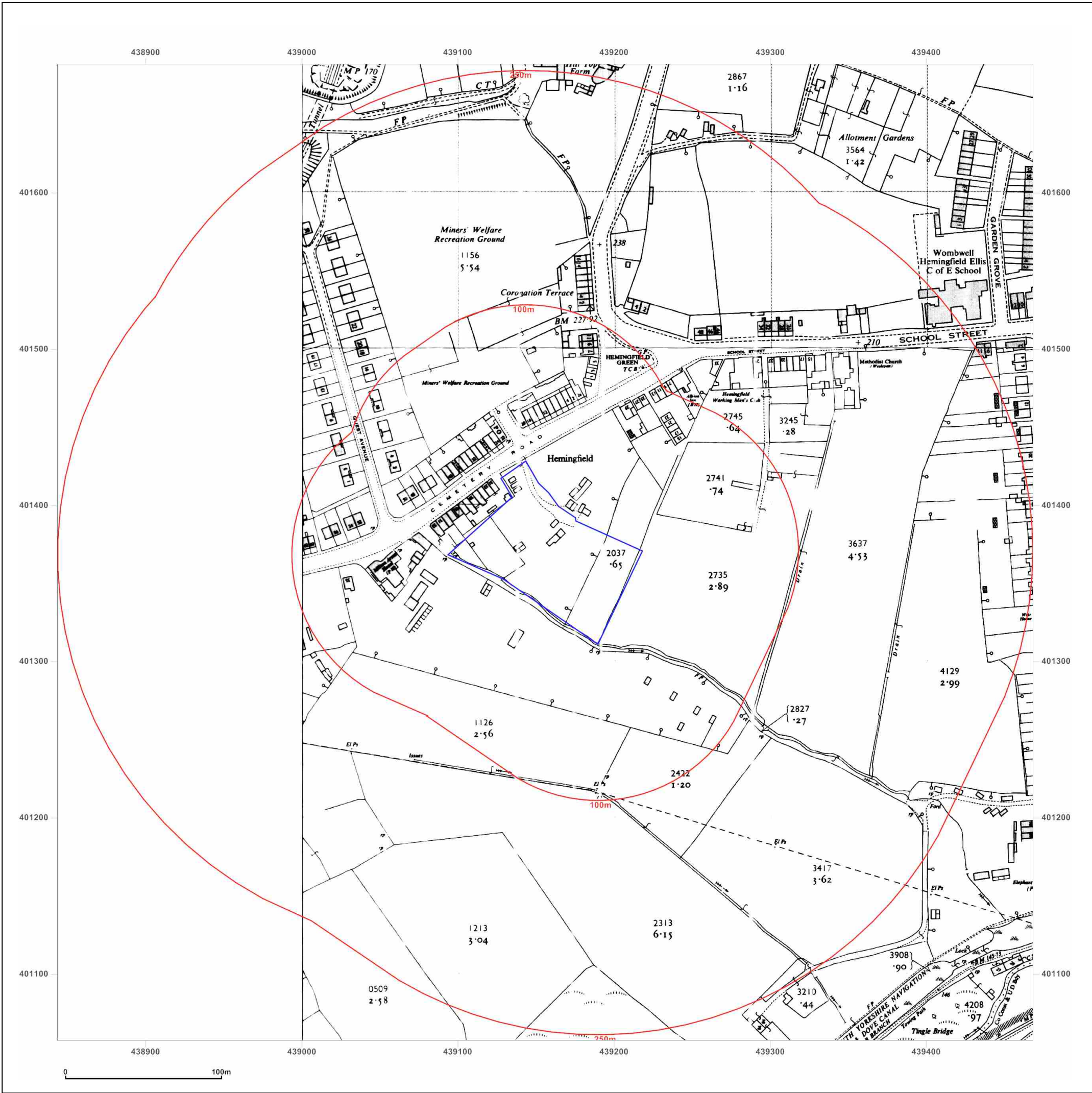


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Site Details:

29A Cemetery
Road,Hemingfield,Barnsley,S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1971

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1955
Revised 1971
Edition N/A
Copyright 1972
Levelled 1963



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Site Details:

29A Cemetery
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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1972

Scale: 1:1,250

Printed at: 1:2,000



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



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Site Details:

29A Cemetery
Road, Hemingfield, Barnsley, S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1978

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1978
Revised 1978
Edition N/A
Copyright 1978
Levelled N/A



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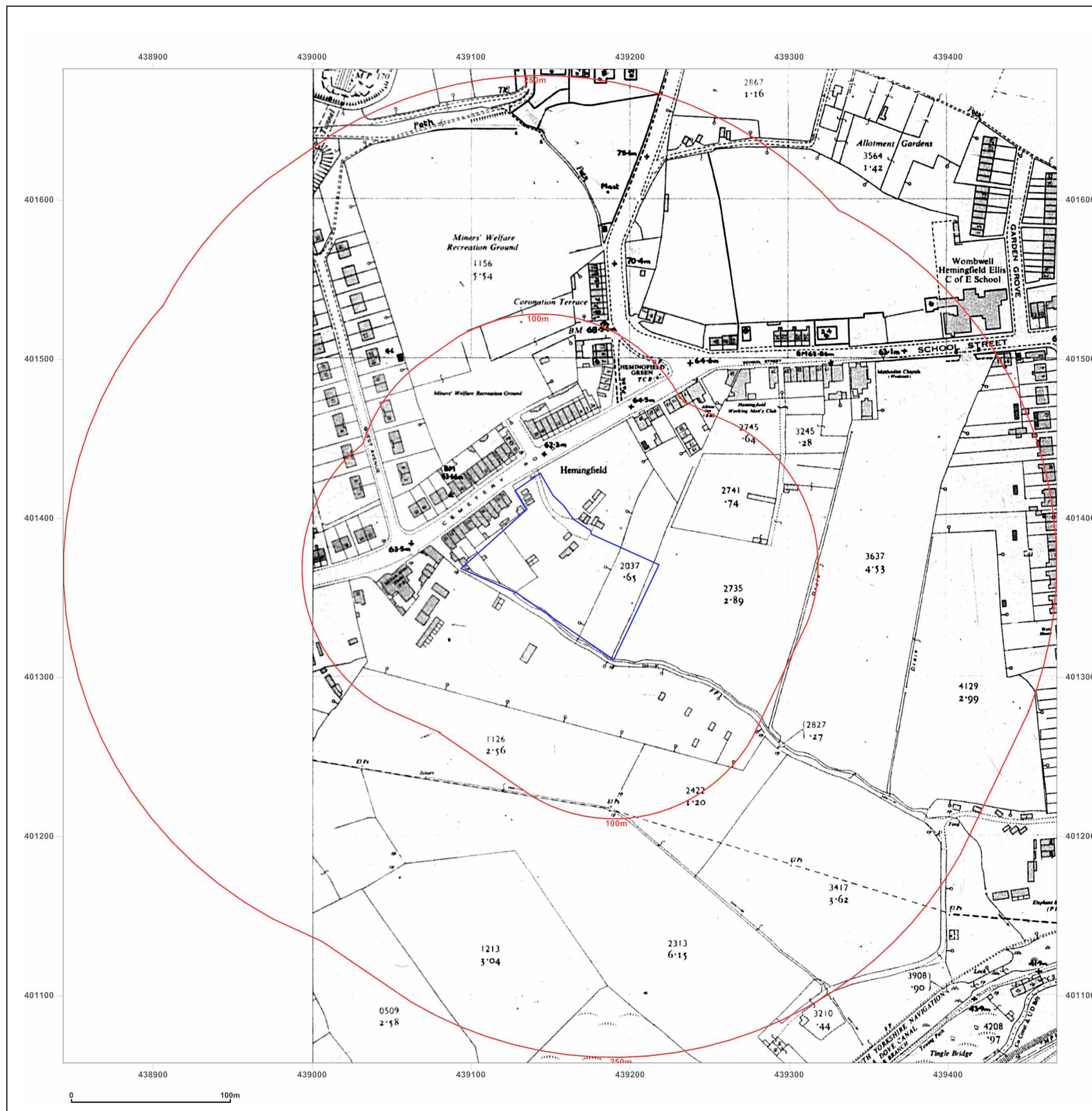


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Site Details:

29A Cemetery
Road,Hemingfield,Barnsley,S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid
Map date: 1993
Scale: 1:1,250
Printed at: 1:2,000



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

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

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Site Details:

29A Cemetery
Road,Hemingfield,Barnsley,S73
0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



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



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Site Details:

29A Cemetery
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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1994
Revised 1994
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Levelled N/A



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Site Details:

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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



Surveyed N/A
Revised N/A
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Site Details:

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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: National Grid

Map date: 1995

Scale: 1:1,250

Printed at: 1:2,000



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



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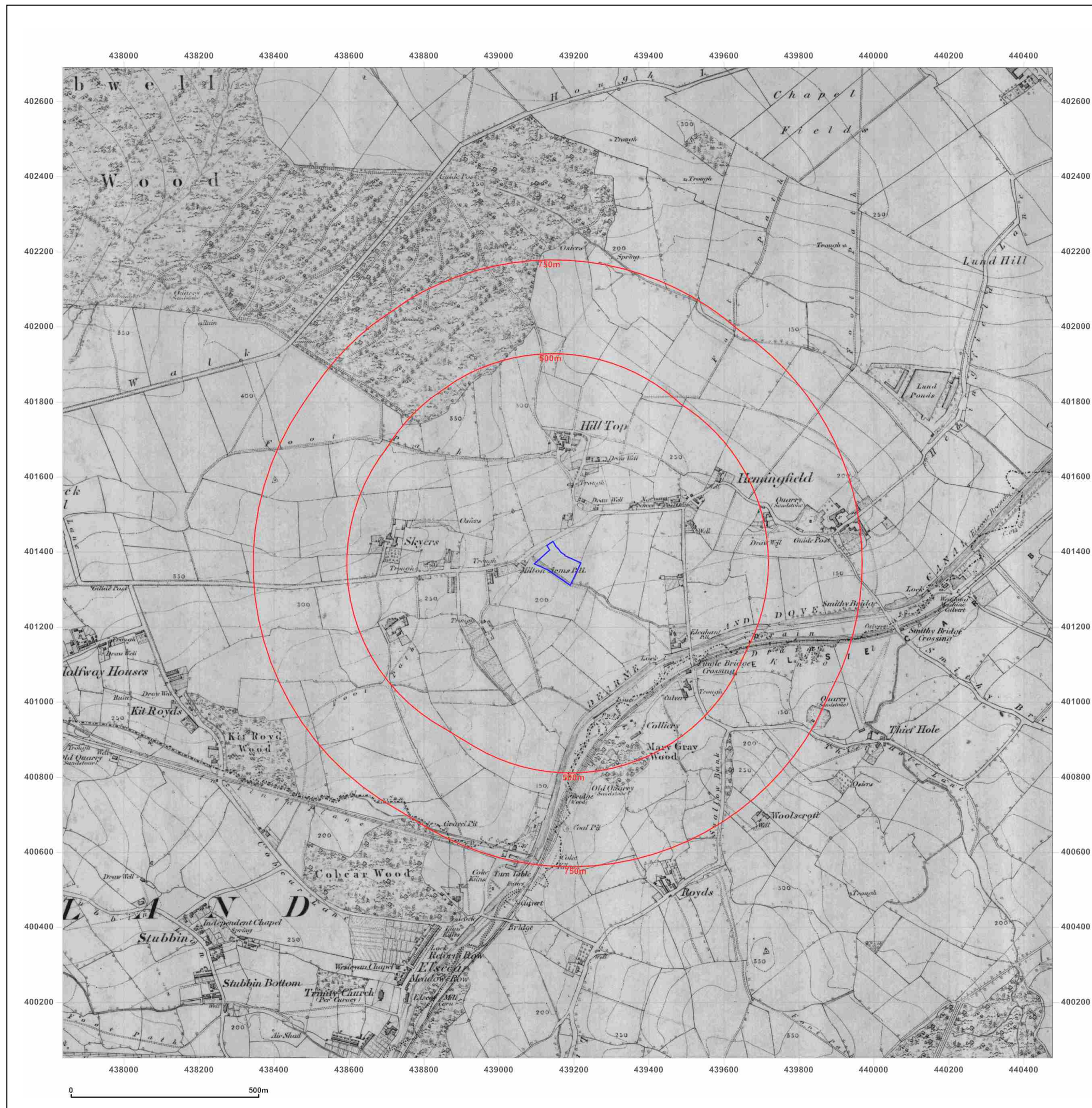
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Site Details:

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0PU

Client Ref: EMS_421655_563468
Report Ref: EMS-421655_563468
Grid Ref: 439156, 401370

Map Name: County Series

Map date: 1850

Scale: 1:10,560

Printed at: 1:10,560



Surveyed 1850
Revised N/A
Edition 1850
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