SOLMEK



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PHASE 1 DESK STUDY

Park Street, Wombwell, Barnsley

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Revision	Date	Prepared By	Checked By
Final	January 2013	**P Finnimore** *Geotechnical Engineer*	**A Cutts** *Engineering Geologist*

1 EXECUTIVE SUMMARY

Site Address	Park Street, Wombwell, Barnsley S73 0HS
Site Description	The site is covered with overgrown grass and small shrubs. The north, west and eastern boundaries are marked with wooden and metal fencing and brick walls. The site drops from the west down to the east of the site by approximately 1 to 2m.
Site History	
On Site	The site was undeveloped until the constructed of Wombwell Park Street County Primary School in 1903, this remained until the demolition of the school in 2012, the site is now undeveloped.
Off Site	The surroundings have seen a number of commercial and residential developments.
Proposed End Use	Residential housing with soft landscaping.
Environmental Setting	The closest Waste Management Site or Landfill is located 121m northeast of the site and was highlighted as a Local Authority Landfill, little information was recorded
Landfill & Waste	
Regulated Industries	A Contemporary Trade Directory Entry is located on the site and is named Roger J Batty which is an MOT centre, this is now inactive.
Geology	The solid geology beneath the site is likely to comprise Middle Coal Measures and the drift deposits are shown to be weathered rock. The Swinton Pottery Coal Seam is shown to sub-crop 700m south and dip beneath the site. A fault runs from east to west through the site.
Mining	The mining report indicates that there seven known worked seams below the site, the shallowest is located at a depth of 142m and has a cross section of 147cm. Also possible ancient coal mining workings are located beneath the site, for no accurate plans or records which exist.
Hydrogeology	The solid geology is classified as a Secondary A Aquifer by the Environment Agency.
Hydrology	The nearest surface water feature is located 83m northeast.
Flooding	The site is not at risk of flooding.
Radon Gas	No radon protection measures are required for new buildings on site.
Preliminary Geotechnical Assessment	Given the expected ground conditions noted above, the use of traditional strip footings for the new structure is anticipated at present. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity.
Preliminary Contamination Assessment	The desk study has shown that the site is likely to have been exposed to contamination with construction/demolition waste from the former development the most likely source.
Potential Sources of Ground Gas	Underlying coal measures and deep made ground. Ground gas assessment is recommended.
Environmental Protection Act 1990	For the site to be designated as contaminated under Part 2A of the EPA 1990, a proven source-pathway-receptor linkage has to be present. No such linkage has yet been proven; however on site investigation works are proposed.
Risk Assessment	Based on the information contained in this report, it is the opinion of Solmek that the site represents a **low/medium** environmental risk.
Phase Two Recommendations	A series of small percussive boreholes to competent ground with insitu testing and samples taken for geotechnical and contamination testing. 2no 20m Rotary boreholes to investigate ancient unrecorded mine workings Ground gas pipes installed in the small percussive boreholes.

2 INTRODUCTION AND SCOPE OF INVESTIGATION

Solmek were instructed by Bernard Williams Associates to undertake a desk study on a parcel of land off Park Street, Wombwell, Barnsley. The site is outlined for residential development with soft landscaping.

The following steps may be required in the investigation and remediation of potentially contaminated land:

Phase 1: Desk Study
Phase 2: Intrusive Investigation
Phase 3: Remediation Statement
Phase 4: Validation Reports

Phases 1 and 2 are generally required in the redevelopment of most sites. Phases 3 and 4 are subject to the findings of the initial stages. This report represents Phase 1 of the site investigation.

The purpose of this Phase 1 Desk Study is to evaluate likely ground conditions and significant environmental issues at the site, and to plan the scope of subsequent phases of investigation.

This report may be regarded as a Preliminary Risk Assessment in accordance with the Environment Agency's guidance document *Model Procedures for the Management of Land Contamination* (CLR 11, 2004).

This Phase 1 Desk Study has been undertaken with due regard to current contaminated land guidance issued by the Royal Institution of Chartered Surveyors (RICS) together with BS 10175: 2001, *"Code of Practice for the Investigation of Potentially Contaminated Land"* and relevant sections of BS 5930: 1999, *"Code of Practice for Site Investigations"*.

The objectives of the investigation are as follows:

- To determine the land use history of the site from an inspection of available Historical Maps
- To determine the environmental setting of the site from available sources
- To determine whether past mining may have had an influence on the site
- To determine whether the site has previously been used for purposes that may have given rise to significant ground contamination
- To provide recommendations for further investigation.

3 SITE WALKOVER AND DESCRIPTION

3.1 General

The centre of the site is located at OS Grid Ref 440340, 402750 and covers an area of approximately 0.14Ha. The site is undeveloped land off Park Street, Wombwell, Barnsley.

The preliminary site inspection was undertaken on the 12th January 2013 and site photographs are presented in Appendix A.

3.2 Site Features

The desk study area comprised a roughly rectangular parcel of land which is located to the south of Park Street, Wombwell. The site is covered with overgrown grass and small shrubs. The northern, western and eastern boundaries are marked with wooden and metal fencing and brick walls. The site drops from the west down to the east of the site by approximately 1 to 2m.

There were no visual signs of contamination noted other than rubble during the site walkover however a number of service manholes were noted around the site.

3.3 Off Site Features

The site is set predominantly in a residential area with a school to the southwest of the site.

4 SITE HISTORY

In order to determine the history of the site, previous editions of Historical Maps and Ordnance Survey Plans were inspected. The Envirocheck Report is presented in Appendix B.

Table 1 presents a summary of the history of the area which includes plots from 1854 to 2012. The summary focuses on the historical land uses and changes relevant to the site and the proposed end use. Measurements are taken from the centre of the site and all distances quoted are approximate.

TABLE 1: SUMMARY OF SITE HISTORY

OS Map Edition	On-site Features	Off-site Features
1854-55 1:10,056	The site is located within agricultural land.	The surroundings to the south and west is mainly agricultural with the town of Wombwell located to the northwest of the site. A railway is located 250m north and a canal is located 100m in the same direction. A gravel pit is located 650m east of site.
1892-93 1:2,500	No changes noted.	Houses have been constructed 20m west, Wombwell Hall is located 20m east along with the site of Old Hall and Poplar Farm is located 10m south of the site. Gas Works are located 280m north of the site.
1903-06 1:2,500	A rectangular building (School) is present in the centre of the site.	An additional school building has been constructed 10m southwest with a number of small buildings located 10m southeast of the site.
1905-07 1:10,056	No changes noted.	Gravel pit to the east is no longer indicated on the map. An old coal pit is located 800m south, Cortonwood Colliery and Sewage Works are located 1.1km in the same direction. Glass bottle works are located 500m northwest and brick Works are located 500m northeast of site.
1930-31 1:10,560	No significant changes noted.	Houses have been constructed 200m southwest and 150m southeast of the site.
1931 1:10,560	No changes noted to the site.	Tramway Deport has been constructed 650m east and sewage works have been constructed 900m northeast of the site.
1938 1:10,560	No changes noted to the site.	Houses have been constructed 350m southeast of the site.
1956 1:10,000	No changes noted to the site.	Houses have been constructed 200m west of the site.
1962 1:2,500	The building is labelled Wombwell Park Street County Primary School.	School to the southwest is labelled as Further Education and Youth Centre, also a garage is located 50m southwest of the site.
1966-67 1:2,500	No changes noted to the site.	Houses have been constructed 250m southwest and a school has been constructed 450m southwest of the site.
1980 1:10,000	No changes noted to the site.	School has been extended within 300m of the site. The canal is now disused.
1982 1:1,250	No changes noted to the site.	The former school building to the southwest has been converted into works, houses to the west have been demolished and the site of Poplar Farm has been redeveloped into a depot. The footprint of the garage to the southwest has changed.
1989 1:10,000	No changes.	The former brick works is now labelled as a tip and the demolished houses to the west has been redeveloped with residential housing. An industrial area has been developed 500m north of the site.
1993 1:1,250	No changes noted to the site.	No significant change.
2006 1:10,000	No changes noted to the site.	A commercial site has been developed 200m northeast and an industrial estate has been developed 900m east of the site.
2012 1:10,000	The school has been demolished; an access road marks the southern boundary of the site.	The school has been rebuilt to the southwest of the site. housing on the southern part of the former school site.

Potential contamination sources identified via historical plans

The site was undeveloped until the construction of Wombwell Park Street County Primary School in 1903, this remained until the demolition of the school in 2012, the site is now undeveloped. Contamination from historical land uses are identified with construction/demolition waste the most likely source.

5 ENVIRONMENTAL SETTING

5.1 Information Sources

The environmental setting of the site was determined through reference to the following:

- Landmark Envirocheck Report (including historical map extracts)
- British Geological Survey (BGS) 1:50,000 scale sheet No 87 Barnsley solid and drift
- BRE Publication BR211 Radon: Guidance on Protective Measures for New Dwellings

5.2 Landfill and Waste

The closest BGS Recorded Landfill Site is located 526m northeast of the site which is named Park Hill Tip.

A historical Landfill Site is located 156m north of the site and is named Rear of Catholic Club. The first input date was December 1979.

A Local Authority Landfill is located 121m northeast of the site, however little information is recorded.

The closest Registered Landfill site is located 435m east of the site which is operated by V.H.E. Ltd for excavated soil and inert demolition waste.

The closest Waste Management Site is located 453m northeast of the site and is named Parkhill Landfill Site.

5.3 Regulated Industries

A Contemporary Trade Directory Entry is located on the site and is named Roger J Batty which is an MOT centre, this is now inactive. No active entries are located within 150m of the site.

The closest Local Authority Pollution Prevention and Control is in place 351m northwest of the site for Snazzys Dry Cleaners.

5.4 Geology

The solid geology beneath the site is likely to comprise Middle Coal Measures (Sandstone) of Upper Carboniferous Age. The drift deposits are not shown and are likely to comprise weathered rock.

The Swinton Pottery Coal Seam is shown to sub-crop 700m south and dip beneath the site. A fault runs from east to west through the site.

5.5 Mining & Quarrying

A coal mining search report for the site from David Bellis Consulting Surveyors dated, 9th January 2013 is presented in Appendix C.

The mining report indicates that there seven known worked seams below the site, the shallowest is located at a depth of 142m and has a cross section of 147cm and was extracted before 1939.

The mining report highlights that there are possible ancient coal mining workings beneath the site for which no accurate plans or records which exist. The report states that there are no known shafts or adits within 20m of the property.

The report also states that old workings are present but all settlement is likely to have completed long ago

The Envirocheck report highlights that the closest BGS Mineral site is located 415m northwest of the site which extracted sandstone using opencast methods, however operations have ceased along with all other entries within 1km.

5.6 Geological Hazards and Instability

The Envirocheck Report indicates that a very low risk is posed by collapsible ground and landslide stability hazards. No hazard is posed by compressible ground, shrinking/swelling clays, running sand or ground dissolution is noted.

5.7 Hydrogeology

Using the Environment Agency's Policy and Practice for the Protection of Groundwater the solid geology beneath the site is classified as a Secondary A Aquifer.

The soils on the site have a high leaching potential.

The site does not lie within a source protection zone.

5.8 Hydrology

The nearest surface water feature is located 83m northeast of the site.

The closest recorded Pollution Incidents to Controlled Waters is located 410m northwest of the site which resulted in a category 2 (significant incident).

5.9 Sensitive Land Use

An area of adopted Green Belt is located 211m northeast of the site.

The site lies within a Nitrate Vulnerable Zone.

5.10 Flooding

The site is not at risk of flooding.

5.11 Radon Gas

In accordance with the procedure described in BRE Publication BR211 *Radon: Guidance on Protective Measures for New Dwellings*, no radon protection measures are required for new buildings on the site.

6 CONCEPTUAL SITE MODEL

6.1 General

Based on the information presented in the preceding Sections, and in accordance with the CLR11 guidance noted in Section 1, a Preliminary Conceptual Site Model has been produced.

The main features of the model are discussed in the following sections together with preliminary recommendations where appropriate.

6.2 Likely Ground Conditions

It is expected that, based on available information, ground conditions are likely to comprise relatively shallow made ground which is expected to be the deepest in line with the footings of the former building

and is likely to comprise demolition rubble. Superficial deposits are expected to comprise weathered rock, sandy clays or clayey sands.

6.3 Potential Buried Obstructions

Potential obstructions are from the former building; obstructions may include footings and flooring from the former buildings.

6.4 Preliminary Geotechnical Assessment

Given the expected ground conditions noted above, the use of traditional strip footings for the new structure is anticipated at present. Where loose made ground or soft/loose natural deposits are encountered, foundations will need to be taken through the made ground/disturbed ground into underlying natural strata of adequate bearing capacity.

6.5 Mining Assessment

The mining report highlights that there are possibly ancient coal mining workings beneath the site for which no accurate plans or records which exist). The ancient workings could be within the Swinton Pottery Coal Seam as this sub crops to the south of site, which may affect the integrity of the proposed structure. It is recommended that a site investigation is carried out. This should comprise a series of two open holes rotary boreholes drilled to 20m depth and located around the footprint of the proposed development. This would determine the exact depth and thickness of the seam along with details of any voided areas present from workings

6.6 Preliminary Contamination Assessment

The desk study has shown that the site is likely to have been exposed to contamination with construction/demolition waste from the former development the most likely source.

In view of the current site uses, chemical contamination testing is considered necessary. The following chemical testing suite should be considered for selected soil samples:

TABLE 2: POTENTIAL PRIORITY CONTAMINANTS

Inorganic Contaminants	Organic Contaminants
Arsenic, Boron, Cadmium, Chromium, Lead, Mercury, Nickel, Zinc, Selenium, Free Cyanide, Soluble Sulphate, pH, asbestos	Phenol

It should be noted that the above potential contaminants are considered to be commonly associated with the specified past land uses of the site, and adjacent land use. Risk assessment should be undertaken for contamination identified during intrusive investigation.

Potential pathways which link the potential contaminants to end users of the site and controlled waters (receptors) include the following:

- Ingestion of soil (outdoors) / dust (indoors)
- Skin contact with soil (outdoors) / dust (indoors)
- Inhalation of dust (outdoors and indoors)
- contamination via buried water pipes
- Surface water run-off, including via existing drainage infrastructure
- Downward infiltration of leachable contaminants to groundwater

6.7 Potential Sources of Ground Gas

Ground gases such as carbon dioxide and methane can be classed as a form of contamination. Potential sources of ground gases include:

- Made Ground
- Quarries, Infilled Clay Pits & Infilled Ponds
- Underlying Natural Strata (alluvium, peat and chalk)
- Petrol re-fuelling sites (which also includes Volatile Organic Compounds)
- Landfill (on and off-site)
- Coal measures

Based on historical map evidence and consideration of the sites environmental setting the table below shows a preliminary comparison of *consequence* against *probability* where ground gas is considered a potential threat to human health.

TABLE 3: POTENTIAL GROUND GAS POLLUTION LINKAGES

Potential Sources	Potential Pathway	Receptor
Hazardous mine gases from Coal Measures strata (CO_2, CO and CH_4).	Ingress and Accumulation into buildings from vertical and horizontal migration	Future users of site are likely to include adults and children. Construction workers (in particular utility workers).
Made ground is expected (CO_2, CO and CH_4).	Ingress and Accumulation into buildings from vertical and horizontal migration	
Preliminary Comparison of Consequence verses Probability		
	Classification	**Justification**
Probability *(Based on Table 8.1, CIRIA C665, 2007)*	LOW LIKELIHOOD	Site is located within a coal mining area.
		Possible ground gas from made ground
Consequence *(Based on Table 8.2, CIRIA C665, 2007)*	MEDIUM	Residential housing is proposed
	Risk	**Details**
Consequence vs. Probability *(Based on Table 8.3, CIRIA C665, 2007)*	LOW-MODERATE RISK	It is possible that harm could arise to a designated receptor from an identified hazard. Investigation is required to clarify the risk and remedial works may be required in the long term. *(Based on Table 8.4, CIRIA C665, 2007)*

6.8 Risk Assessment for Contaminated Land

As part of this Phase 1 Desk Study, a preliminary conceptual model and risk assessment is produced. This assessment should be revised following the Phase 2 Site Investigation outlining a qualitative risk assessment. Should there be unacceptable risks to the various receptors/end-users following the Phase 2 works, then a remediation strategy may be required to outline measures to satisfy Part 2A of the Environmental Protection Act (1990). The above measures are inline with CLR11 – Model Procedures.

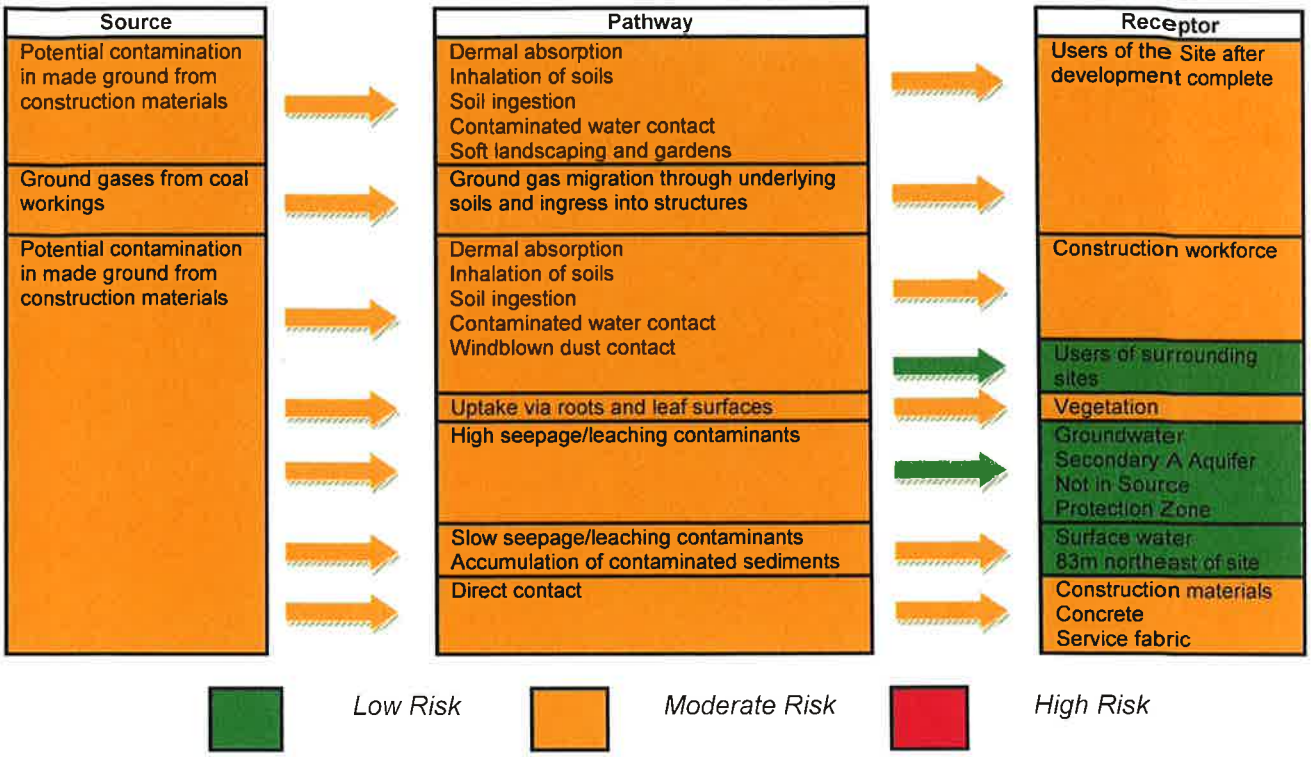
The results of the chemical contamination testing as part of the Phase 2 investigation should be compared to a series of Generic Assessment Criteria (GAC) for a residential development with plant up-take based on the current CLEA model.

6.9 Conceptual Site Model

The conceptual model collates the salient aspects of the site to form a model which should enable comparison after fieldwork and testing. This model identifies the potential pollution linkages that may influence the proposed development and geotechnical considerations.

The risk ratings are based on the current potential liabilities and likely potential future liabilities. The risks posed by the geotechnical and contamination aspects of the site will be revised following site works, and any mitigating action required added.

TABLE 4: PRELIMINARY CONCEPTUAL MODEL



7 PROPOSED PHASE TWO INTRUSIVE WORKS

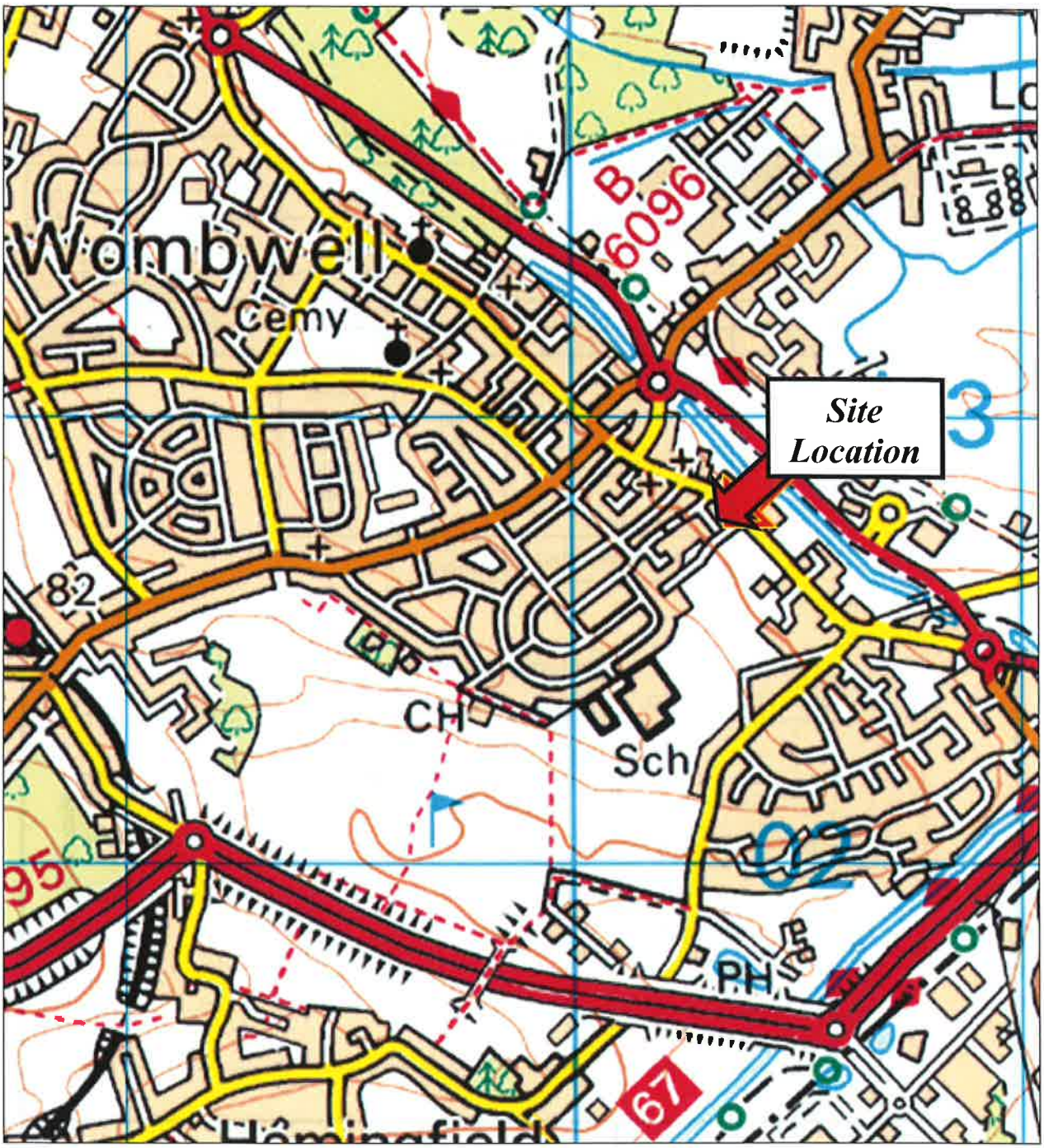
A Phase 2 Site Investigation should be undertaken to verify the assumptions made in the Preliminary Conceptual Site Model and to provide data for foundation design.

An outline ground investigation strategy is summarised below, based on the preliminary conceptual site model and information obtained during the desk study.

TABLE 5: SITE INVESTIGATION RECOMMENDATIONS

Proposed method of investigation	Purpose	Comments
Hand dug trial pits	Hand dug trial pits to 1.2m to ensure positions are clear of underground services.	To be undertaken prior to the drilling of all boreholes.
A series of percussive boreholes to competent natural ground or rockhead.	To determine shallow ground conditions. To collect soil samples for geotechnical and chemical testing. To observe soils profile, localised variations in materials and presence of groundwater.	Ensure positions are CAT scanned and service plans inspected prior to excavation. Hand vanes to be taken in cohesive deposits. SPT samples in granular strata and rock head. Disturbed and jar samples to be undertaken for chemical testing.
2 Rotary Boreholes to 20mbgl.	To investigate ancient unrecorded mine workings highlighted in the mining report.	To be performed within the footprint of proposed building.
Gas/groundwater monitoring	To observe standing groundwater levels and to allow measurements to be made of hazardous gases.	Monitoring to be undertaken following site works on a minimum of three occasions.
Chemical testing	To allow the potential risks identified within the conceptual model to be addressed.	Chemical soils testing to include metals, semi-metals and non-metals along with asbestos.
Geotechnical Testing	To confirm material properties. To provide concrete classification of materials.	Tests may include sulphate and pH, moisture content, atterberg tests, triaxial and particle size distribution tests. Further tests may be required depending on the materials encountered.

Appendix A
Drawings & Photographs



Client:	Bernard Williams Associates
Project:	Park Street, Wombwell, Barnsley
Title:	Site Location Map
DRG No:	Figure 1
Date	January 2013

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Client:	Bernard Williams Associates
Project:	Park Street, Wombwell, Barnsley
Title:	Current Site Plan
DRG No:	Figure 2
Date	January 2013

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Plate 1: View north from the southeast of the site



Plate 2: View northwest from the southeast of the site.

Client:	Bernard Williams Associates
Project:	Park Street, Wombwell, Barnsley
Title:	Plates 1 & 2
DRG No:	Figure 3
Date	January 2013

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Plate 3: View north from the centre of the site.

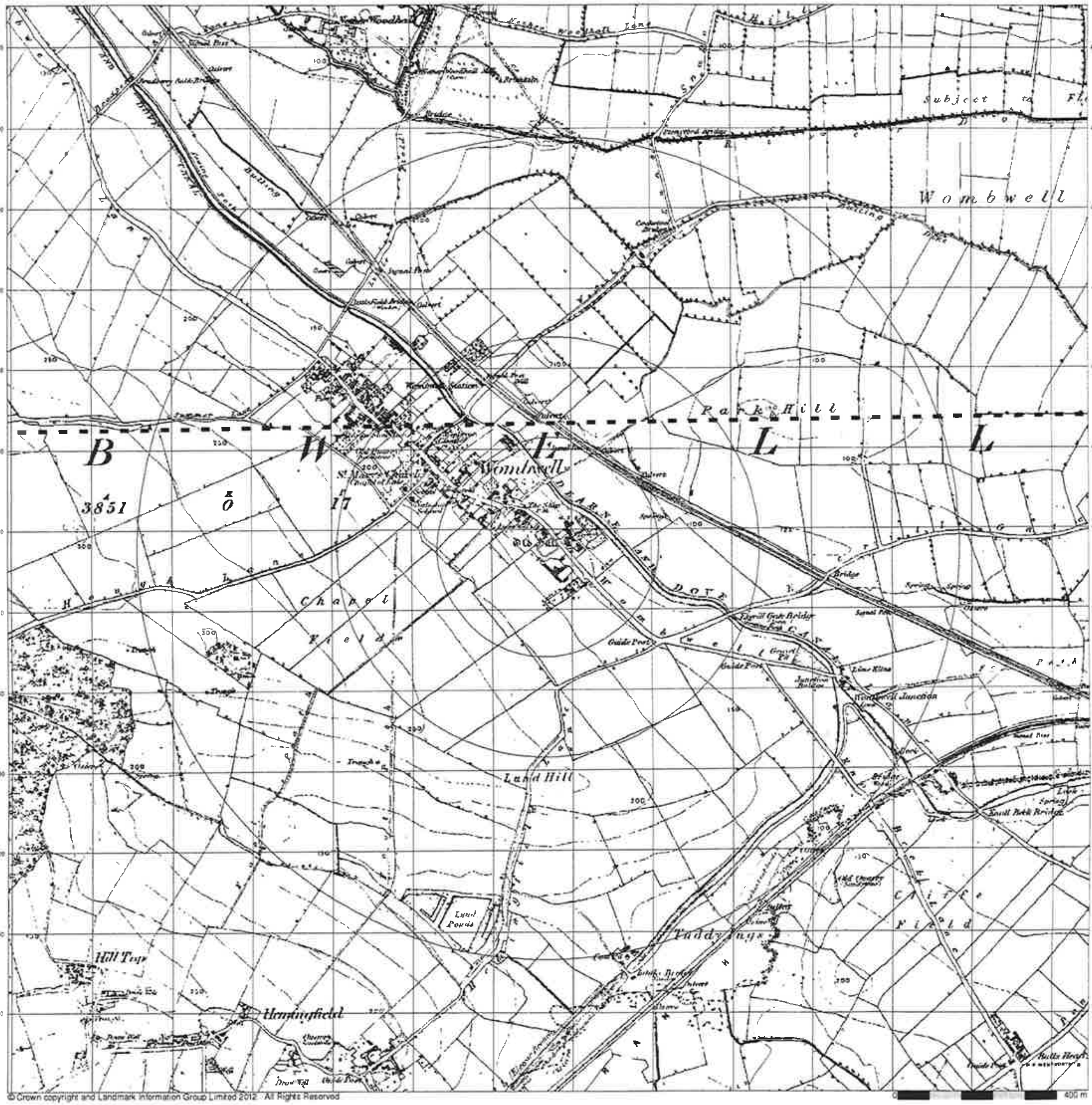


Plate 4: View west from the centre of the site.

Client:	Bernard Williams Associates
Project:	Park Street, Wombwell, Barnsley
Title:	Plates 3 & 4
DRG No:	Figure 4
Date	January 2013

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Appendix B
Historical Maps



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Envirocheck®

Yorkshire
Published 1854 - 1855
Source map scale - 1:10,560

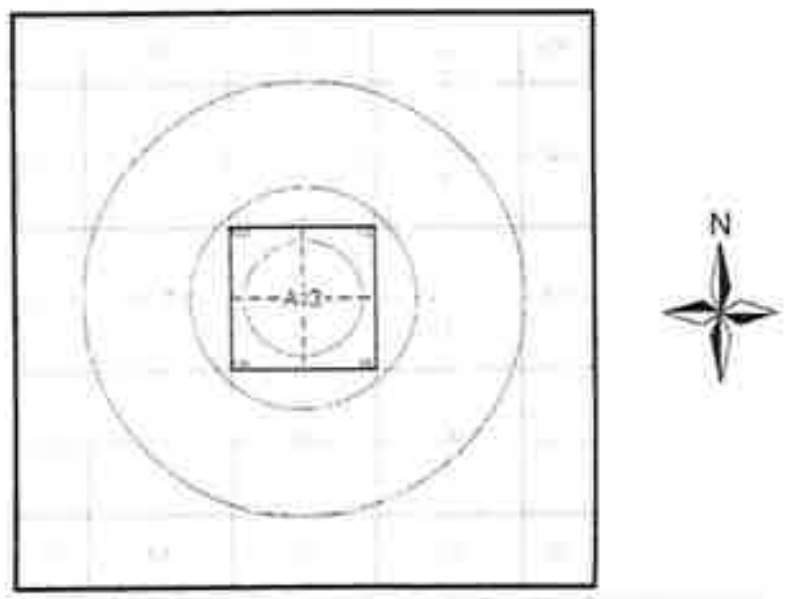
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

27500
1854
1:10,560

28300
1855
1:10,560

Historical Map - Slice A



Order Details

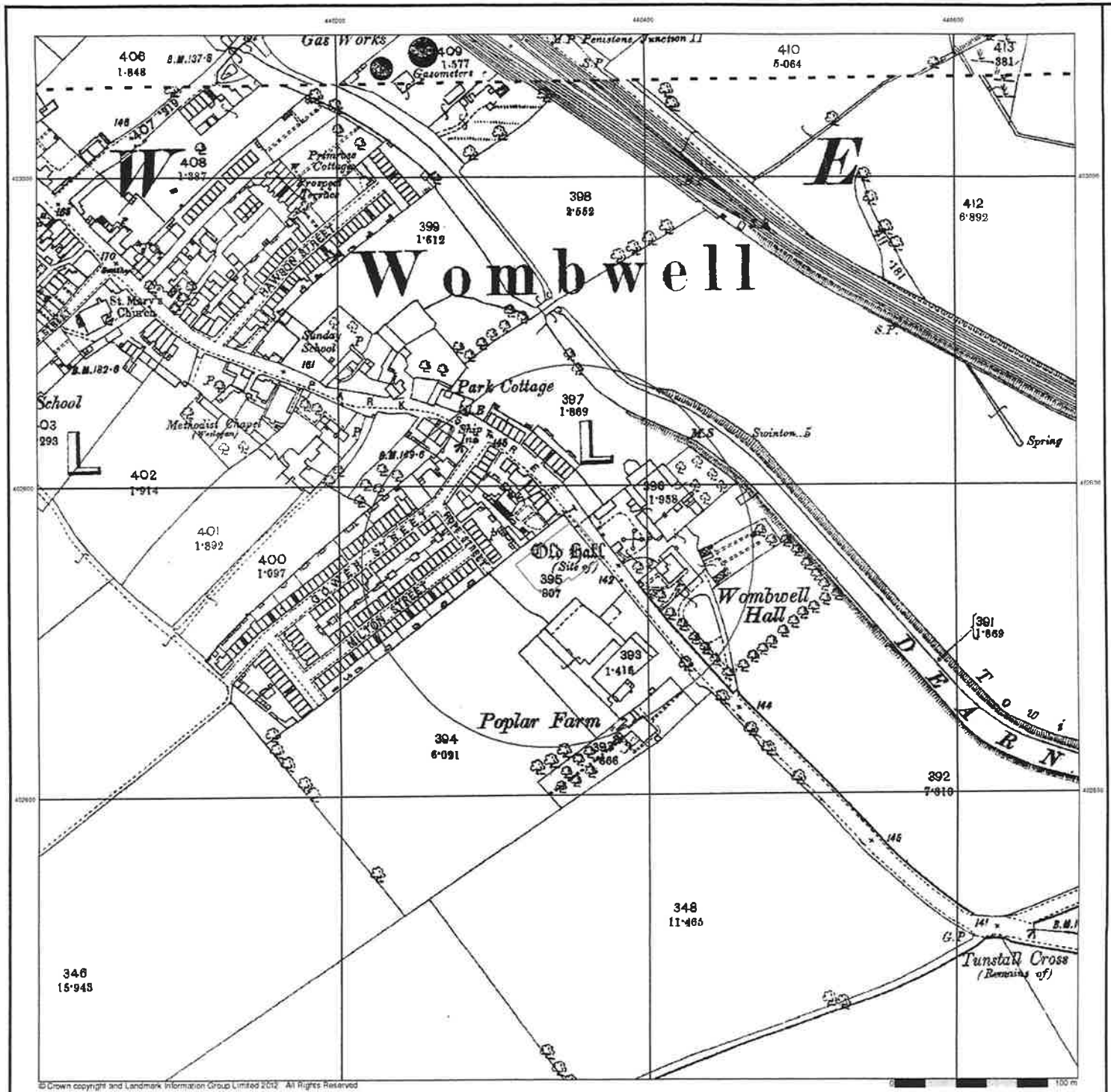
Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
Search Buffer (m):	1000

Site Details

Park Street, Wombwell, BARNSLEY, South Yorkshire, S73 0HS

Landmark®

Tel 0844 844 9952
Fax 0844 844 9951
Web www.envirocheck.co.uk



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Envirocheck®

Yorkshire
Published 1892 - 1893
Source map scale - 1:2,500

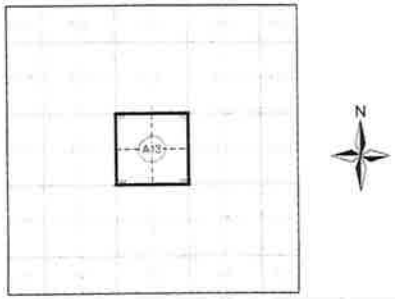
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

275_14
1893
1:2,500

283_02
1892
1:2,500

Historical Map - Segment A13



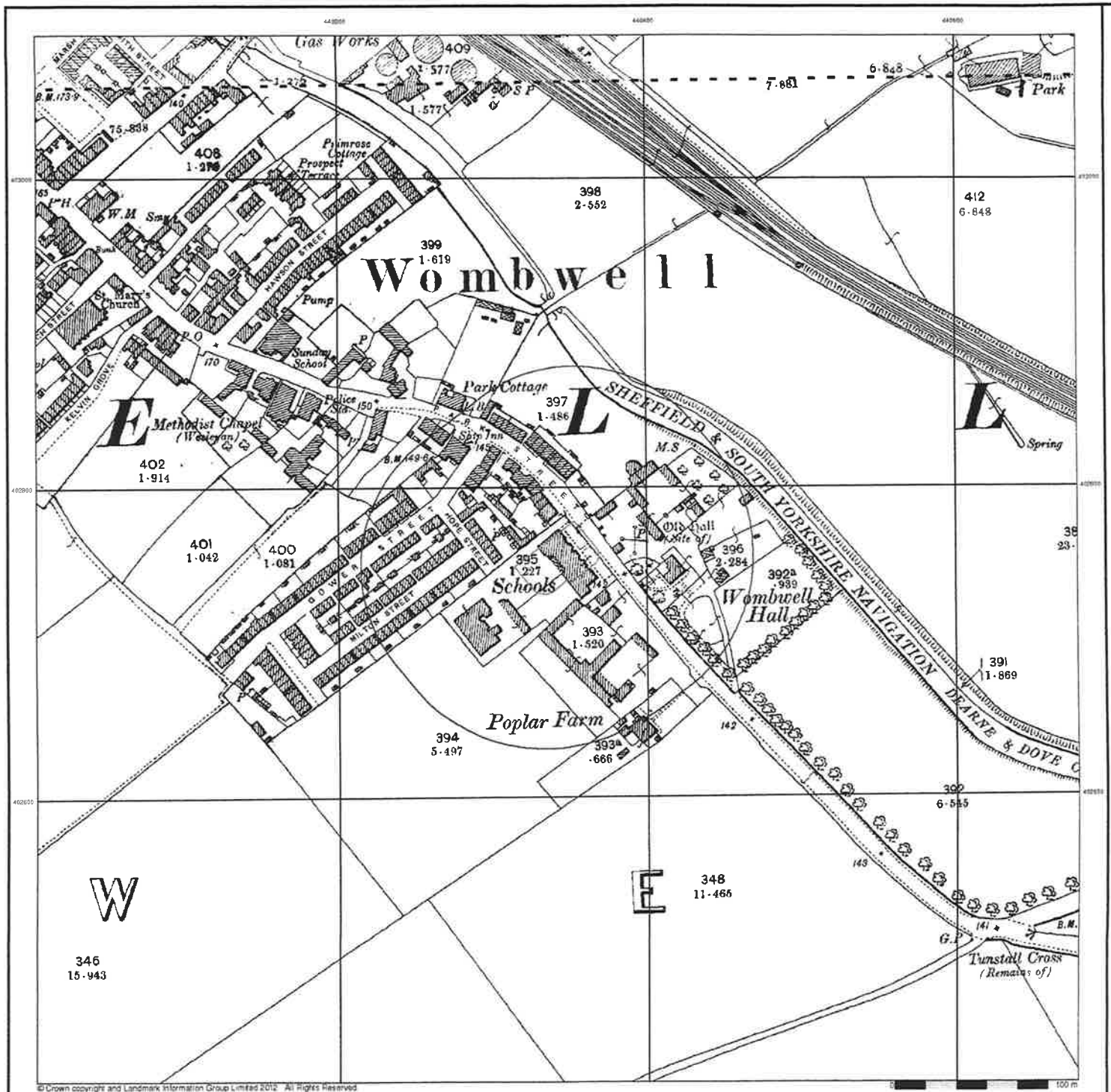
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National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
Search Buffer (m):	*100*

Site Details

Park Street, Wombwell, BARNSLEY, South Yorkshire, S73 0HS

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Tel 0844 844 9952
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Web www.envirocheck.co.uk



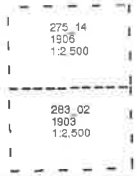
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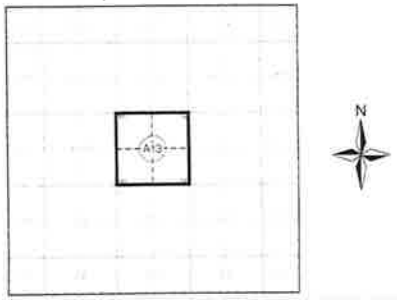
Yorkshire
Published 1903 - 1906
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



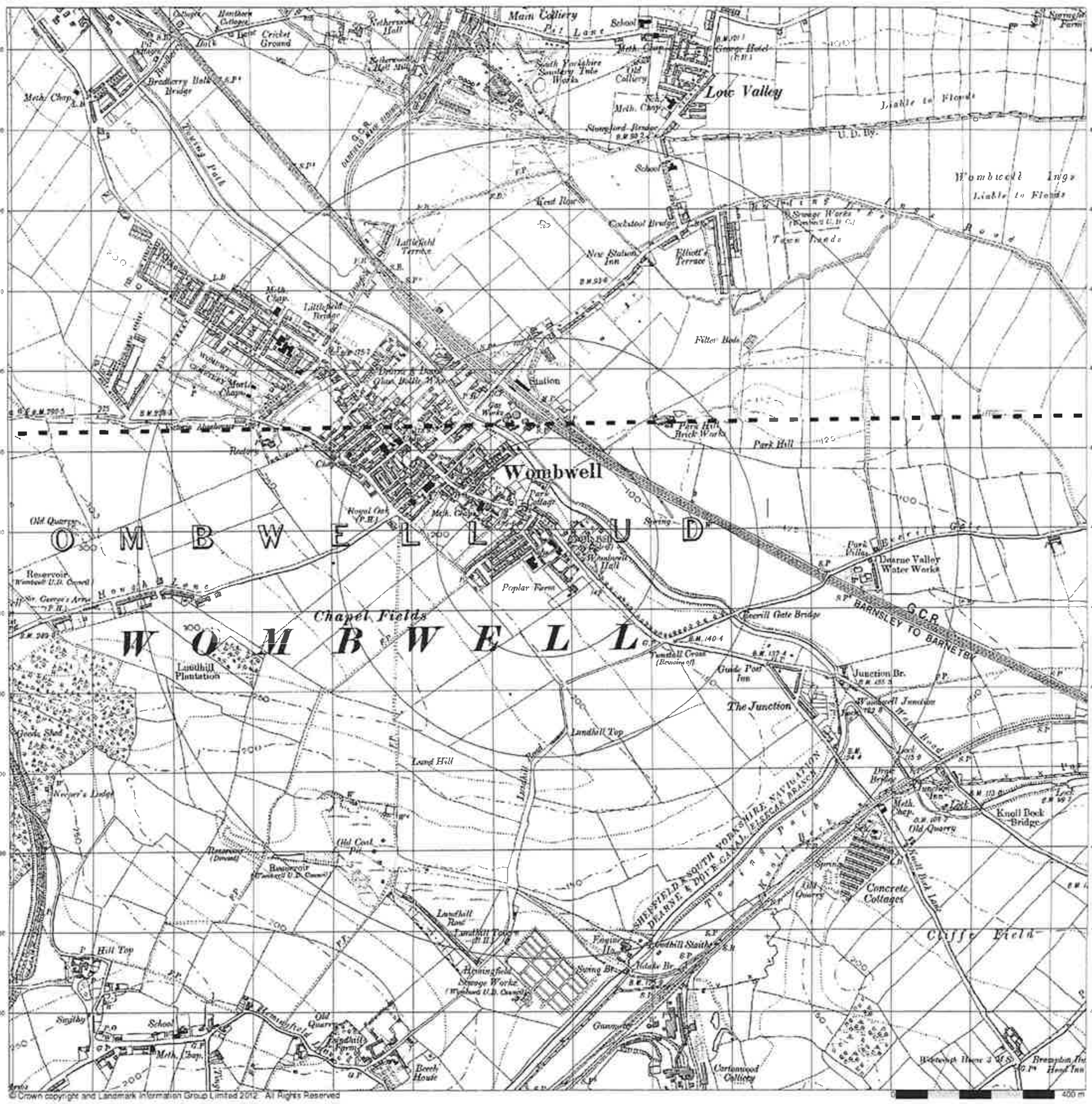
Order Details

Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
Search Buffer (m):	100

Site Details

Park Street, Wombwell, BARNSLEY, South Yorkshire, S73 0HS

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Envirocheck®

Yorkshire

Published 1905 - 1907

Source map scale - 1:10,560

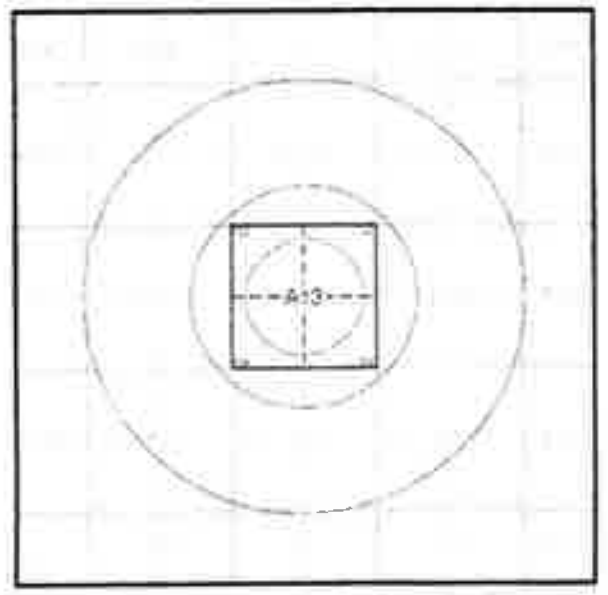
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

275SW
1907
1:10,560

283NW
1905
1:10,560

Historical Map - Slice A



Order Details

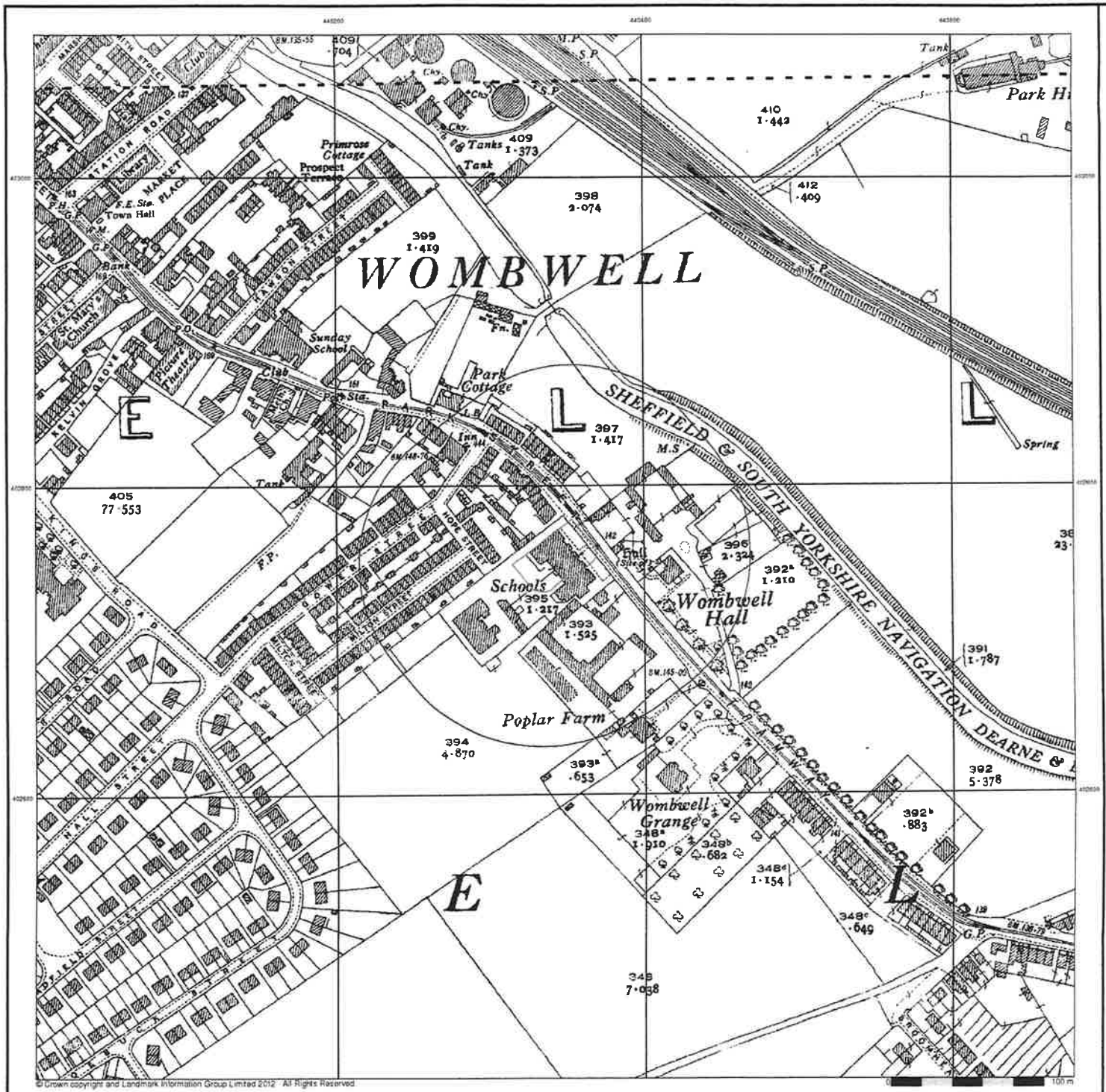
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Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
Search Buffer (m):	1000

Site Details

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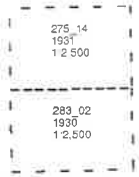


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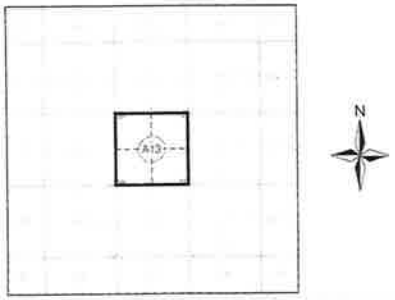
Yorkshire
Published 1930 - 1931
Source map scale - 1:2,500

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



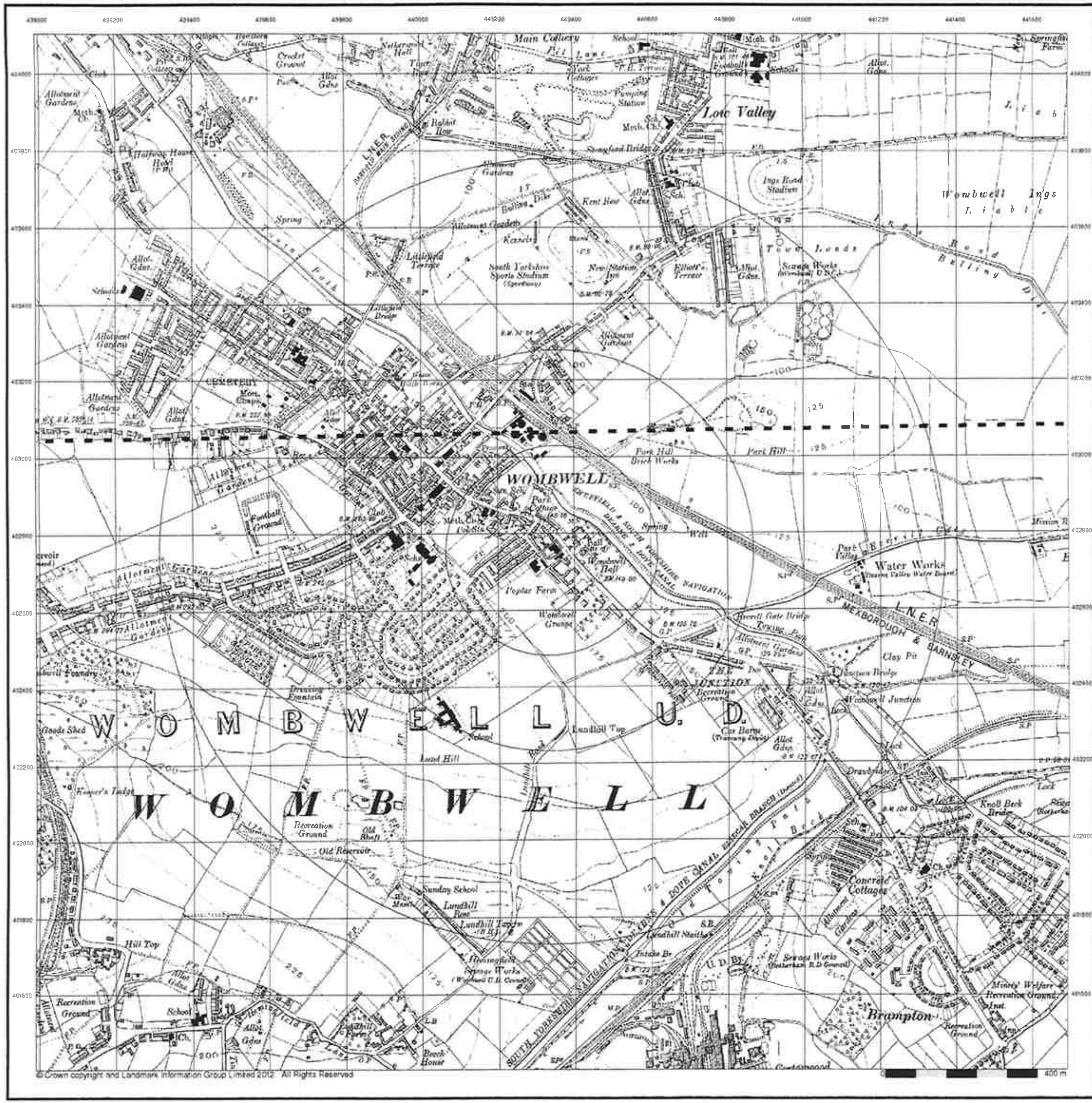
Order Details

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Search Buffer (m):	100

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Yorkshire

Published 1931

Source map scale - 1:10,560

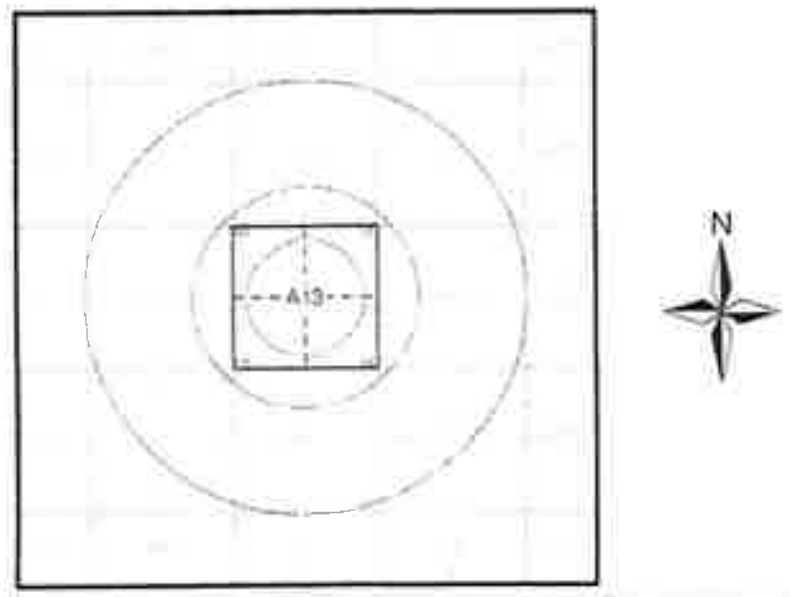
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every **10 years or so for urban areas.**

Map Name(s) and Date(s)

275SW
1931
1:10,560

283NW
1931
1:10,560

Historical Map - Slice A



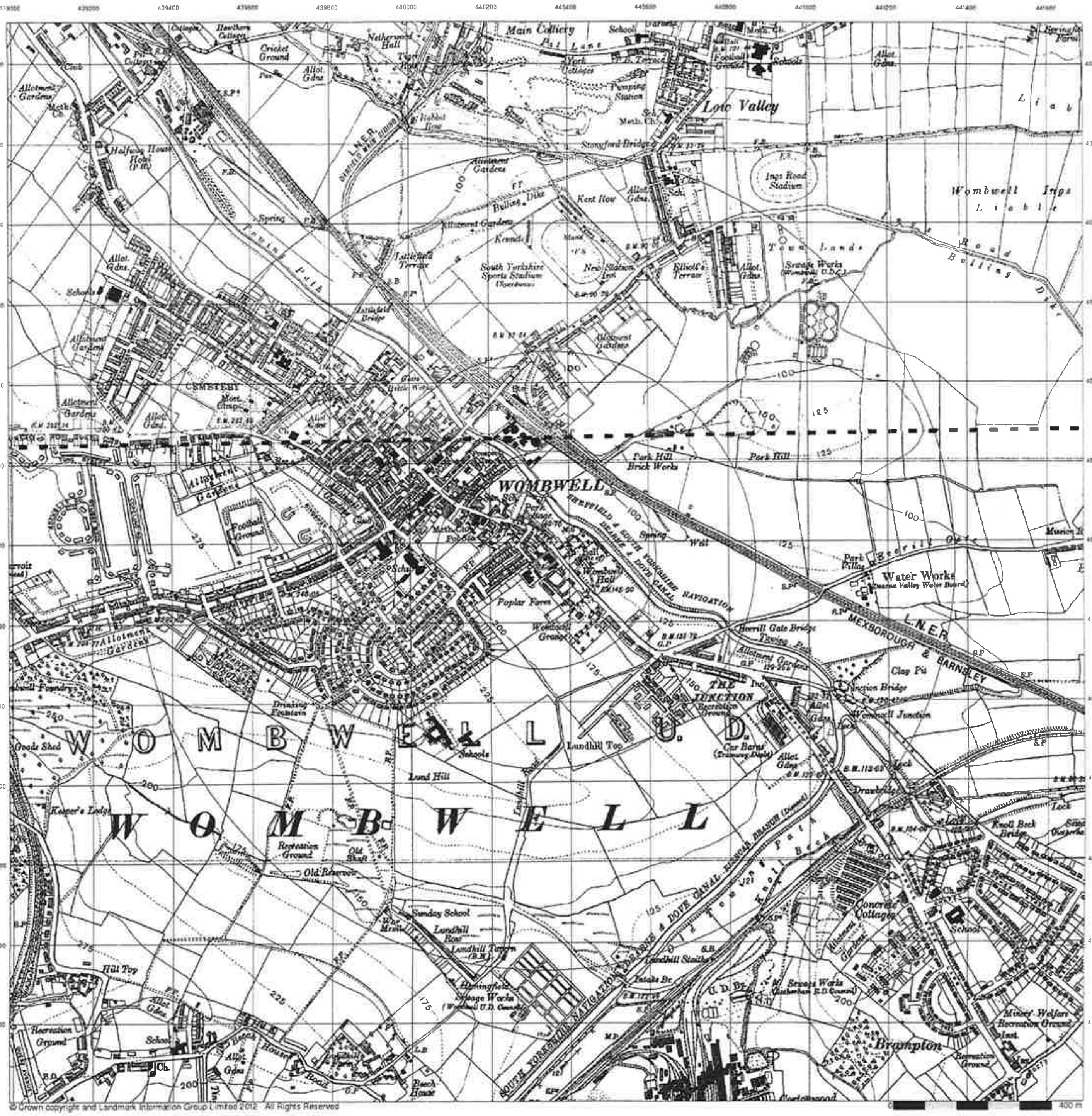
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Yorkshire

Published 1938

Source map scale - 1:10,560

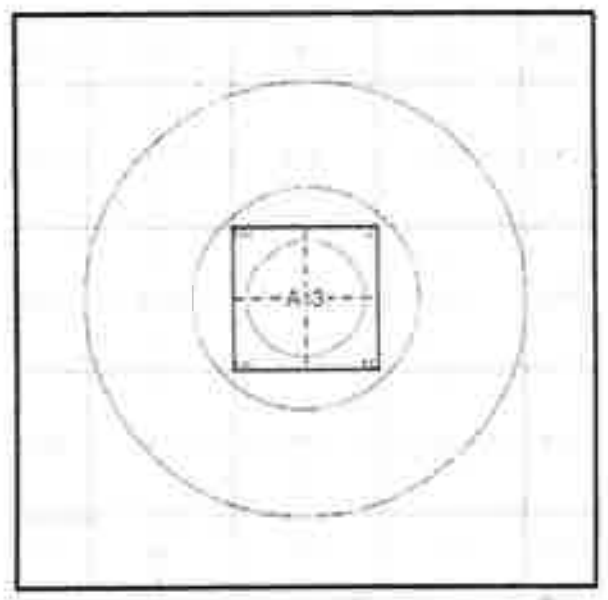
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Map Name(s) and Date(s)

275SW
1938
1:10,560

283NW
1938
1:10,560

Historical Map - Slice A



Order Details

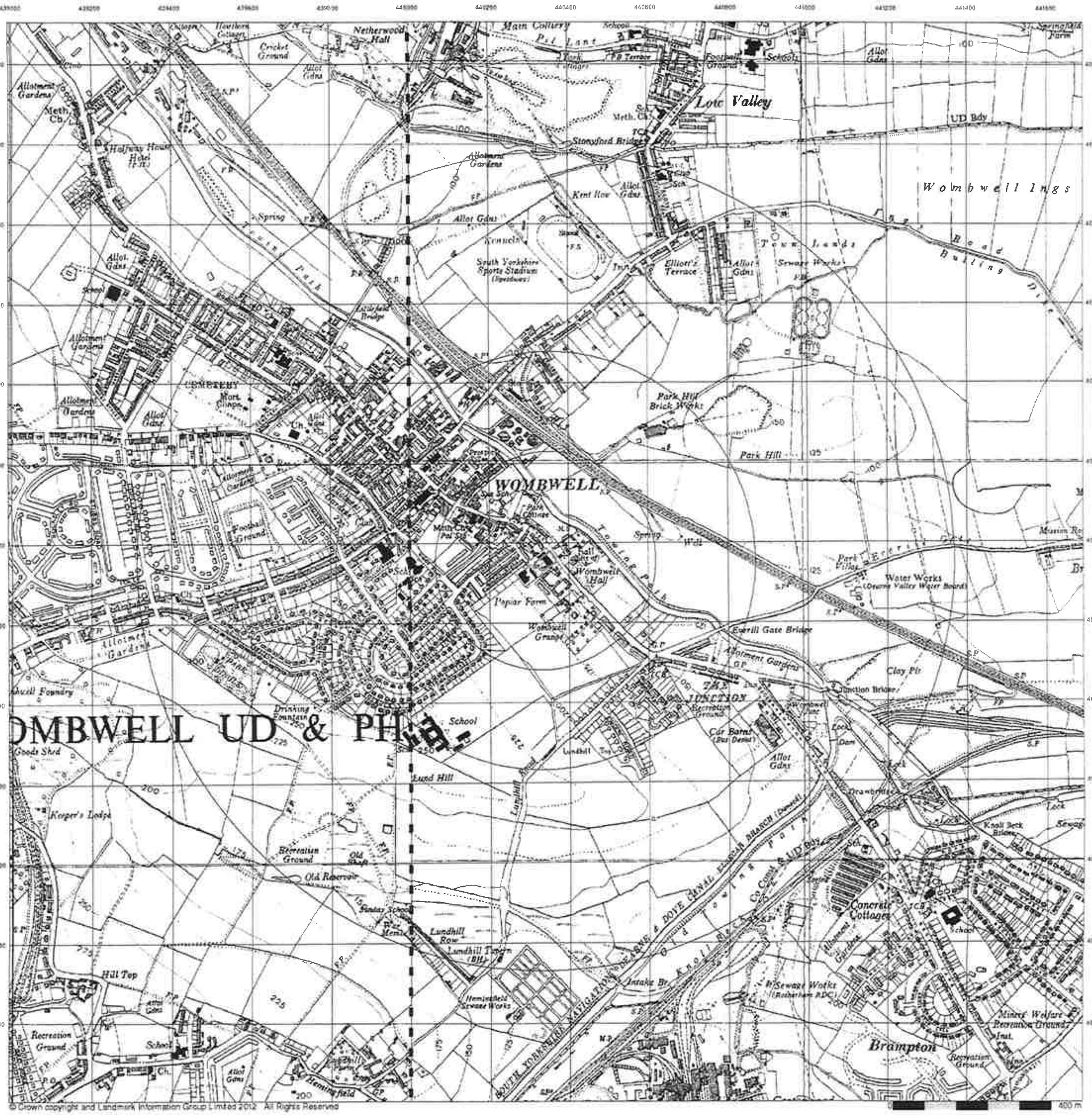
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Site Area (Ha): 0.14
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Ordnance Survey Plan

Published 1956

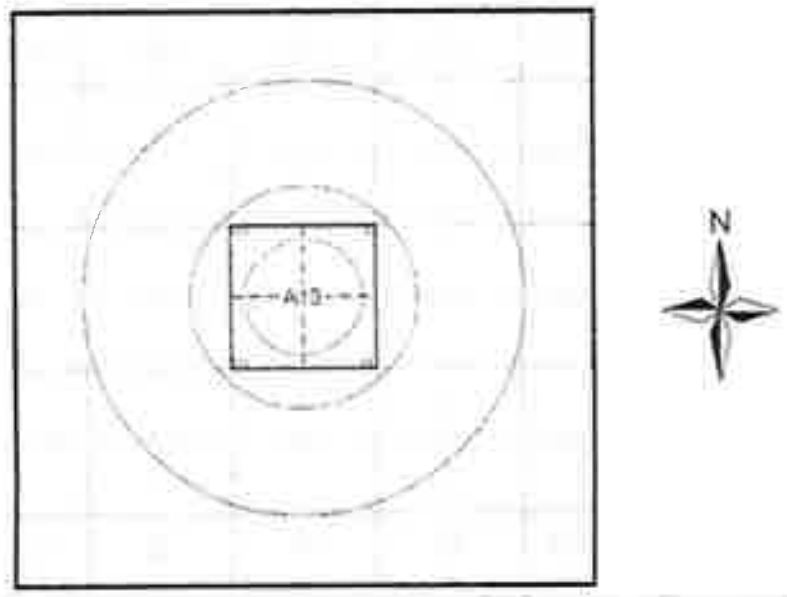
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30SE	SE40SW
1956	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

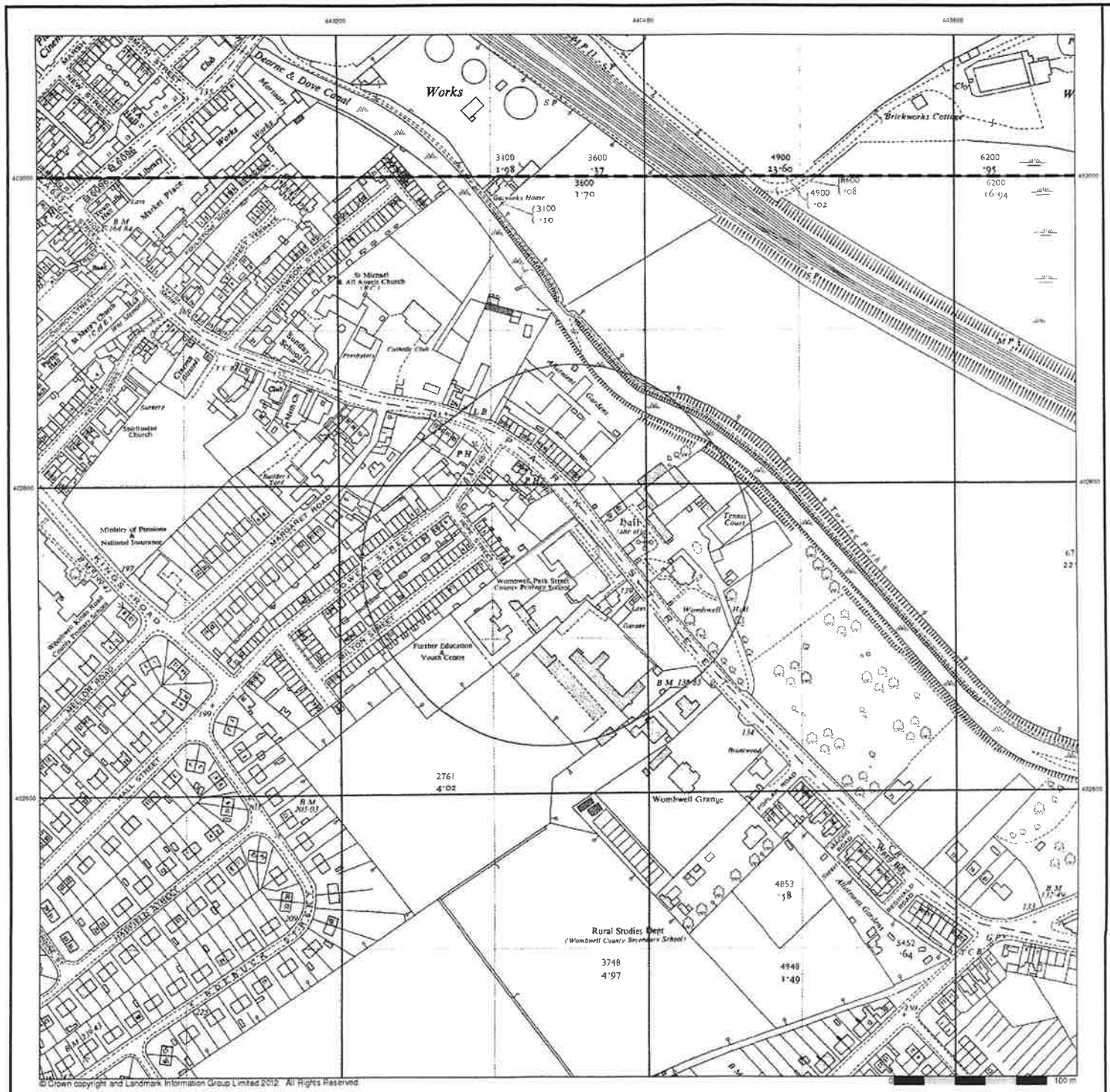
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Search Buffer (m): 1000

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Ordnance Survey Plan
Published 1962
Source map scale - 1:2,500

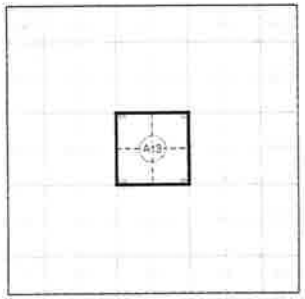
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

SE4003
1962
1:2,500

SE4002
1962
1:2,500

Historical Map - Segment A13



Order Details

Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
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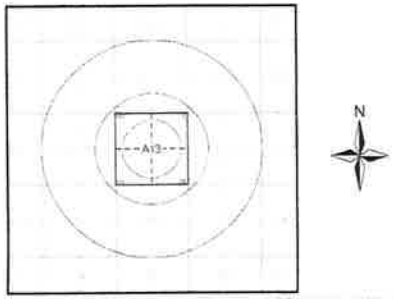
Ordnance Survey Plan
Published 1966 - 1967
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30SE	SE40SW
1966	1967
1:10,560	1:10,560

Historical Map - Slice A



Order Details

Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
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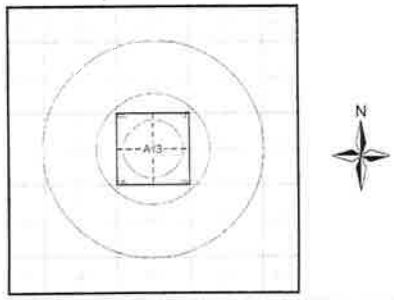
Ordnance Survey Plan
Published 1980
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30SE	SE40SW
1980	1980
1:10,000	1:10,000

Historical Map - Slice A



Order Details

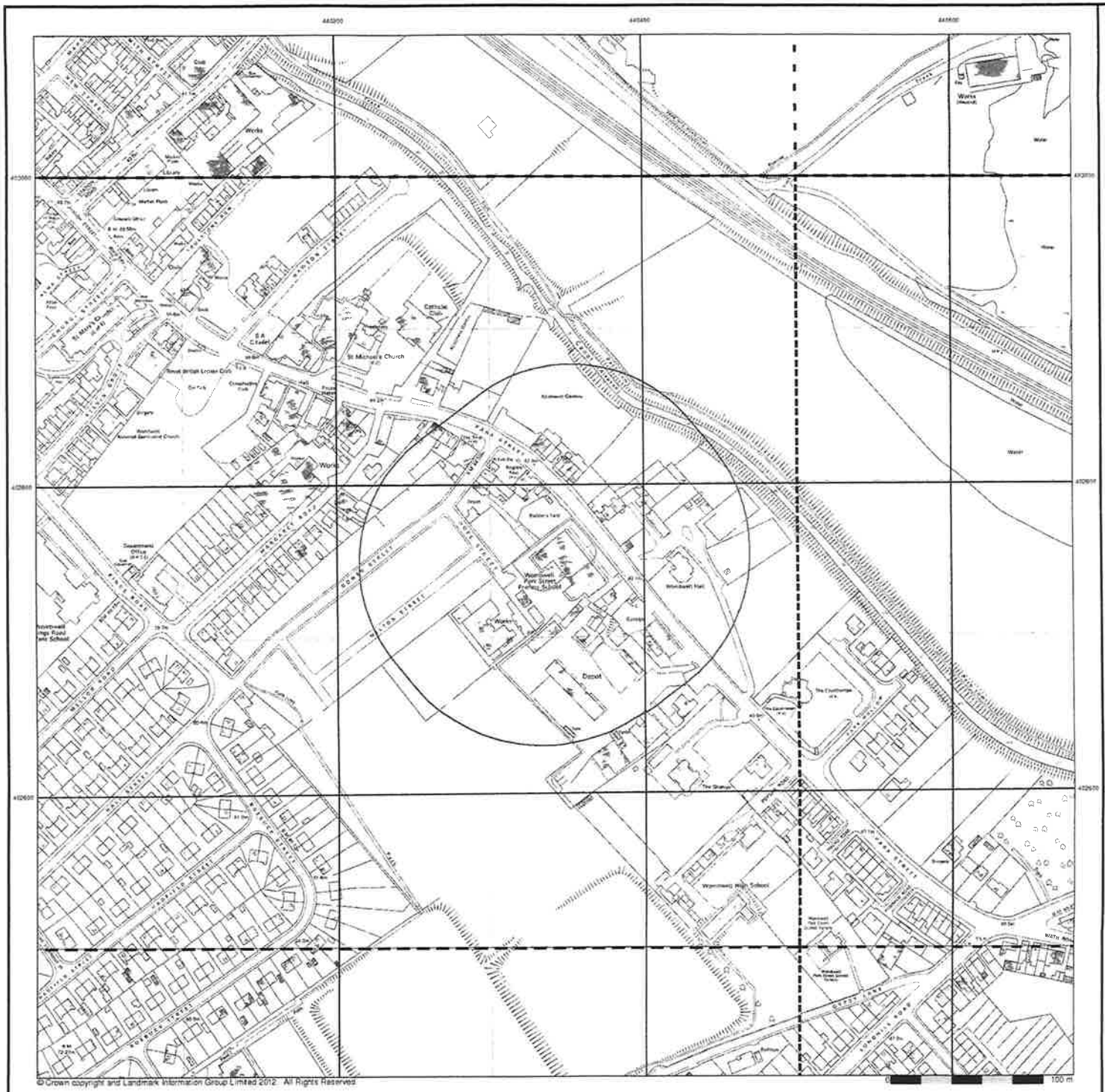
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Ordnance Survey Plan
Published 1982
Source map scale - 1:1,250

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. The published date given below is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

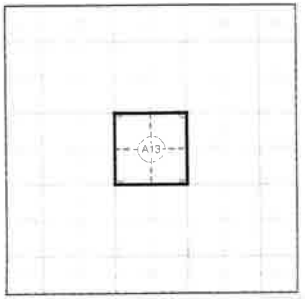
Map Name(s) and Date(s)

SE4003SW SE4003SE
1982 1982
1:1,250 1:1,250

SE4002NW SE4002NE
1982 1982
1:1,250 1:1,250

SE4002SW SE4002SE
1982 1982
1:1,250 1:1,250

Historical Map - Segment A13



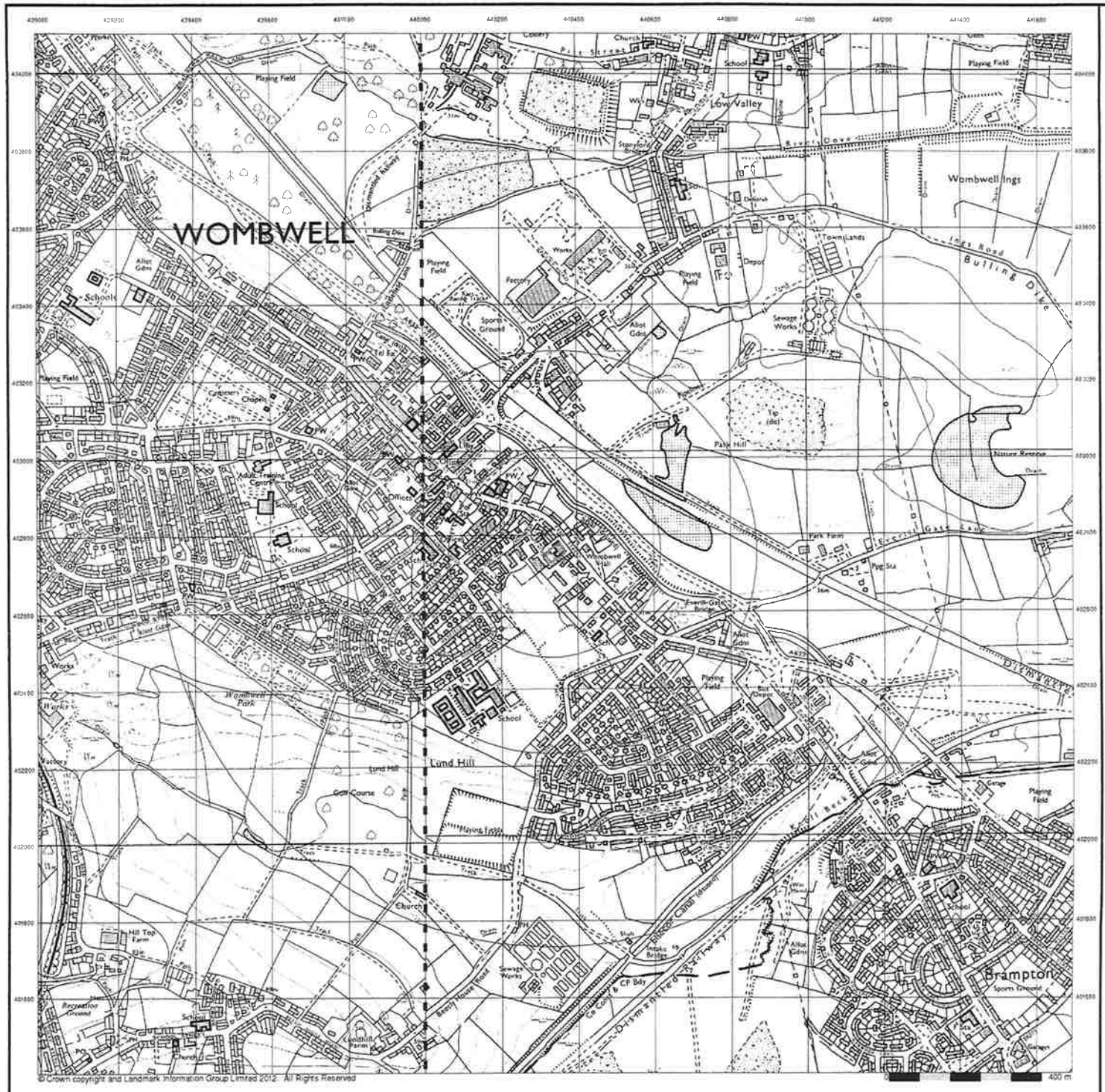
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Search Buffer (m):	100

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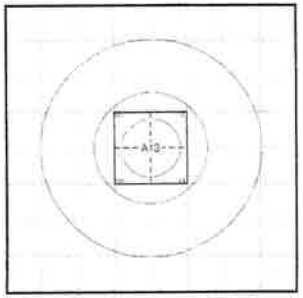
Ordnance Survey Plan
Published 1989
Source map scale - 1:10,000

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some years later than the surveyed date. Before 1938, all OS maps were based on the Cassini Projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas. In the late 1940's, a Provisional Edition was produced, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30SE 1989 1:10,000	SE40SW 1989 1:10,000

Historical Map - Slice A



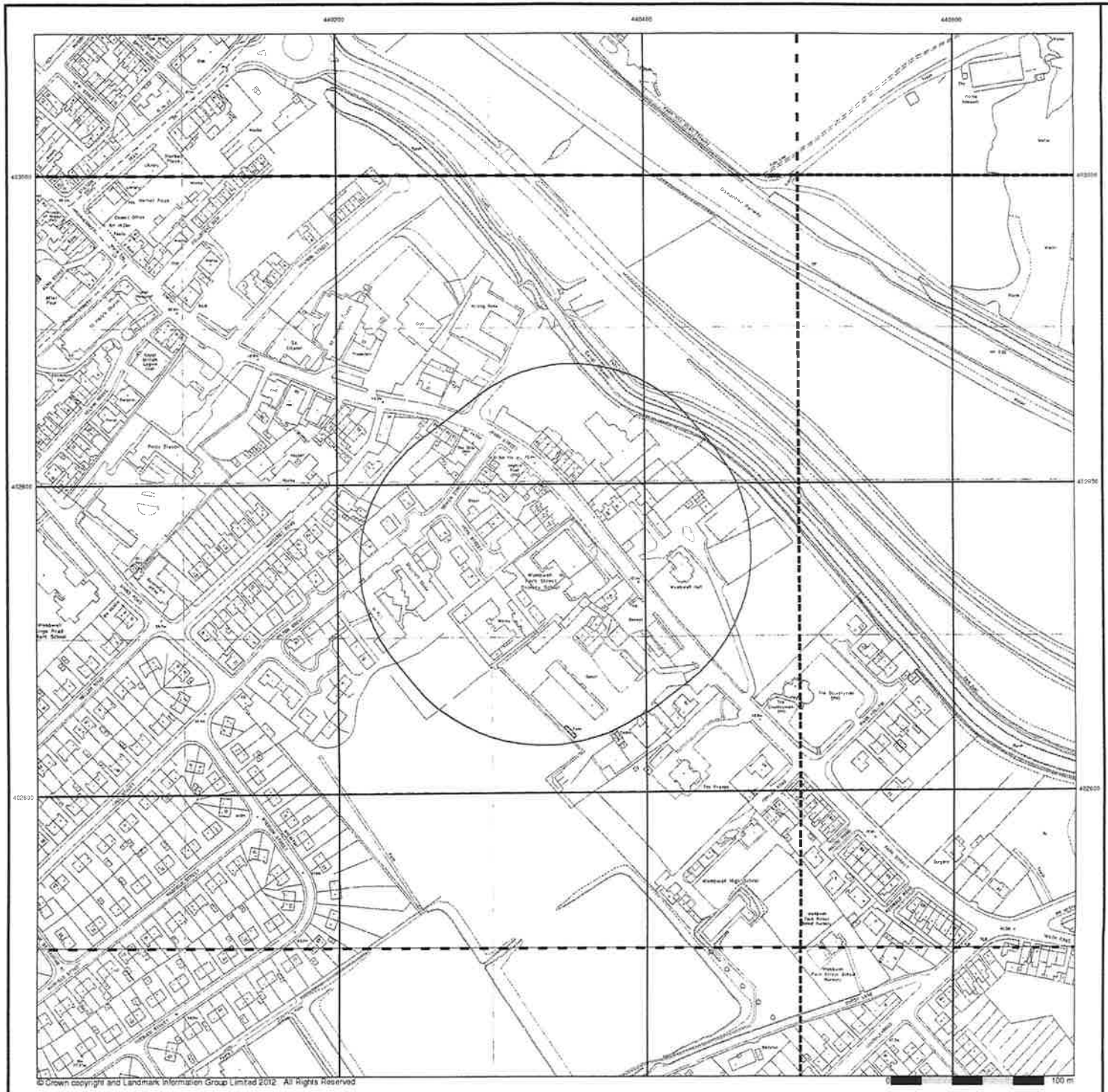
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Slice:	A
Site Area (Ha):	0.14
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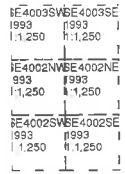
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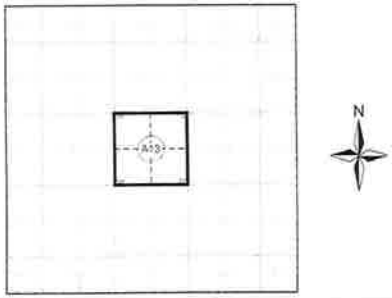
Large-Scale National Grid Data
Published 1993
Source map scale - 1:1,250

'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
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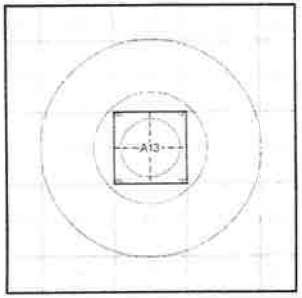
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SE30SE 2006 1:10,000	SE40SW 2006 1:10,000

Historical Map - Slice A



Order Details

Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
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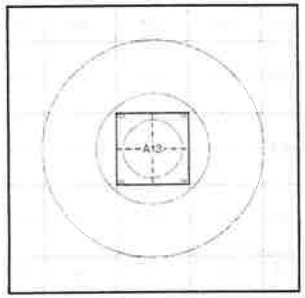
10k Raster Mapping
Published 2012
Source map scale - 1:10,000

The historical maps shown were produced from the Ordnance Survey's 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks and paths. Road names are also included together with the relevant road number and classification. Boundary information depiction includes county, unitary authority, district, civil parish and constituency.

Map Name(s) and Date(s)

SE30SE 2012 1:10,000	SE40SW 2012 1:10,000

Historical Map - Slice A



Order Details

Order Number:	43395740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Co. Burgh Bdy
Rural District Boundary
RD. Bdy.
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Electricity Transmission Line
Pole
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Standard Gauge Single Track
Road Under
Road Over
Level Crossing
Foot Bridge
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

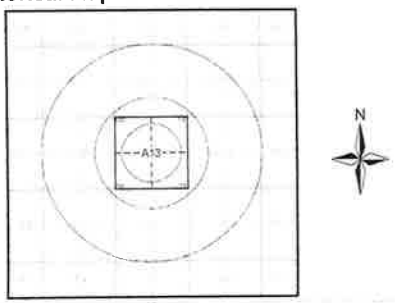
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community boundary
District, Unitary, Metropolitan, London Borough boundary
Constituency boundary
Area of wooded vegetation
Non-coniferous trees
Non-coniferous trees (scattered)
Coniferous trees
Coniferous trees (scattered)
Positioned tree
Orchard
Coppice or Osiers
Rough Grassland
Heath
Scrub
Marsh, Salt Marsh or Reeds
Water feature
Flow arrows
Mean high water (springs)
Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
Bench mark (where shown)
Triangulation station
Point feature (e.g. Guide Post or Mile Stone)
Pylon, flare stack or lighting tower
Site of (antiquity)
Glasshouse
General Building
Important Building

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1854 - 1865	2
Yorkshire	1:10,560	1893	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1905 - 1907	5
Yorkshire	1:10,560	1931	6
Yorkshire	1:10,560	1938	7
Yorkshire	1:10,560	1938 - 1948	8
Yorkshire	1:10,560	1948	9
Ordnance Survey Plan	1:10,000	1956	10
Ordnance Survey Plan	1:10,000	1966 - 1967	11
Ordnance Survey Plan	1:10,000	1980	12
Ordnance Survey Plan	1:10,000	1989	13
10K Raster Mapping	1:10,000	2006	14
10K Raster Mapping	1:10,000	2012	15

Historical Map - Slice A



Order Details

Order Number:	4339740_1_1
Customer Ref:	S130108
National Grid Reference:	440340, 402750
Slice:	A
Site Area (Ha):	0.14
Search Buffer (m):	1000

Site Details

Park Street, Wombwell, BARNSLEY, South Yorkshire, S73 0HS

Landmark
Tel 0844 844 9952
Fax 0844 844 9951
Web www.envirocheck.co.uk

Historical Mapping Legends

Ordnance Survey County Series and Ordnance Survey Plan 1:2,500

Quarry
Gravel Pit
Sand Pit
Clay Pit
Shingle
Refuse Heap
Sloping Masonry
Flat Rock
Marsh
Reeds
Osiers
Rough Pasture
Furze
Wood
Mixed Wood
Brushwood
Orchard
Fir
Ford
Stepping Stones
Ferry
Waterfall
Lock
Trig. Station
507 Altitude at Trig. Station
B.M 325·9 Bench Mark
342 Surface Level
Arrow denotes flow of water
Antiquities (site of)
Cutting
Embankment
Railway crossing Road
Level Crossing
Road crossing Railway
Railway crossing River or Canal
Road over single stream
Road over River or Canal

County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
County Borough Boundary (England)
Co. Boro. Bdy.
County Burgh Boundary (Scotland)
Co. Burgh Bdy.

M P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	Sl.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

Ordnance Survey Plan, Additional SIMs and Supply of Unpublished Survey Information 1:2,500 and 1:1,250

Inactive Quarry, Chalk Pit or Clay Pit
Active Quarry, Chalk Pit or Clay Pit
Rock
Boulders
Cliff
Slopes
Top
Roofed Building
Glazed Roof Building
Sloping Masonry
Archway
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Bench Mark
Antiquity (site of)
Cave Entrance
Triangulation Station
Electricity Pylon
Electricity Transmission Line

County Boundary (Geographical)
County & Civil Parish Boundary
Civil Parish Boundary
Admin. County or County Bor. Boundary
L B Bdy
London Borough Boundary
Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

Large-Scale National Grid Data 1:2,500 and 1:1,250

Cliff
Slopes
Top
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Positioned Boulder
Scree
Non-Coniferous Tree (surveyed)
Coniferous Tree (surveyed)
Non-Coniferous Trees (not surveyed)
Coniferous Trees (not surveyed)
Orchard Tree
Scrub
Bracken
Coppice, Osier
Reeds
Marsh, Saltings
Rough Grassland
Heath
Culvert
Direction of water flow
Triangulation Station
Antiquity (site of)
Electricity Transmission Line
Electricity Pylon
BM 231.60m Bench Mark
Buildings with Building Seed
Roofed Building
Glazed Roof Building

Civil parish/community boundary
District boundary
County boundary
Boundary post/stone
Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

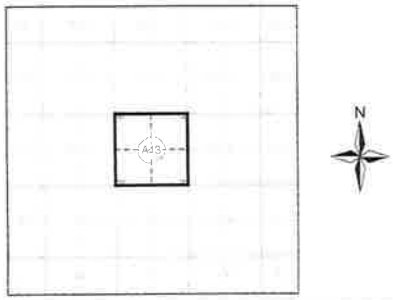
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governor	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

Envirocheck®

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892 - 1893	2
Yorkshire	1:2,500	1903 - 1906	3
Yorkshire	1:2,500	1930 - 1931	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1969	6
Ordnance Survey Plan	1:1,250	1982	7
Additional SIMs	1:1,250	1985 - 1987	8
Large-Scale National Grid Data	1:1,250	1993	9
Large-Scale National Grid Data	1:1,250	1993 - 1995	10

Historical Map - Segment A13



Order Details

Order Number: 43395740_1_1
Customer Ref: S130108
National Grid Reference: 440340, 402750
Slice: A
Site Area (Ha): 0.14
Search Buffer (m): *100*

Site Details

Park Street, Wombwell, BARNSLEY, South Yorkshire, S73 0HS

Landmark
Tel 0844 844 9952
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Web www.envirocheck.co.uk

Appendix C
Envirocheck Report