

Messrs MacFarlane

**Main Street,
Dechmont, West Lothian**

Mining Risk Assessment Report

May 2014

Messrs MacFarlane

**Main Street,
Dechmont, West Lothian**

Mining Risk Assessment Report

Date of Issue: May 2014

Report Status: First Edition

Project Reference: G2014/166

Prepared by: Craig MacNeil – Geo-Environmental Engineer

Reviewed by: Patrick Barry – Director

Mason Evans Partnership Limited
The Piazza
95 Morrison Street
GLASGOW
G5 8BE

CONTENTS

	PAGE NO
1.0 INTRODUCTION	1
1.1 General	1
1.2 General Methodology	1
1.3 Context	6
2.0 SITE LOCATION AND DESCRIPTION	7
2.1 Site Details	7
3.0 HISTORICAL BACKGROUND	8
3.1 General	8
3.2 Historical Background	8
4.0 SITE GEOLOGY AND MINING	9
4.1 General	9
4.2 Mining History	12
5.0 IDENTIFICATION AND ASSESSMENT OF SITE SPECIFIC COAL MINING RISKS	13
5.1 Risk Assessment	13
5.2 Conclusions	15

LIST OF DRAWINGS

	PAGE NO
Drawing No G2014/166/MRA/01 Site Location Plan	2
Drawing No G2014/166/MRA/02 Study Area	3
Drawing No G2014/166/MRA/03 Aerial Photograph of Study Area	4
Drawing No G2014/166/MRA/04 Proposed Development Layout	5
Drawing No G2014/166/MRA/05 Extract from Published Geological Map (Solid and Drift Geology), Published 1965	10
Drawing No G2014/166/MRA/06 Extract from Published Geological Map (Solid and Drift Geology), Published 1991	11
Drawing No G2014/166/MRA/07 Conjectured Site Area Potentially Underlain by Mineworkings at the Level of the Houston Coal	14

APPENDICES

Appendix A	Historical Ordnance Survey Map Records (dated 1856 to 2014)
Appendix B	The Coal Authority Report (Ref No. 51000516936003, dated 25 April 2014)
Appendix C	BGS Georeport (Report ID: GR_208664/1, dated 28 April 2014)
Appendix D	Historical Borehole Records Obtained from the British Geological Survey
Appendix E	Page Extracts from Relevant Mining Memoirs

1.0 INTRODUCTION

1.1 General

1.1.1 We understand that Messrs MacFarlane (the Client) are proposing residential development within a site to the immediate south of Main Street, Dechmont, West Lothian. In relation to the proposed development, Clarendon Planning and Development Ltd has commissioned a Mining Risk Assessment Report, on behalf of the Client, in support of the development. As a specialist geo-environmental consultancy firm with experience of impacts related to shallow mine-workings, we were subsequently requested to advise accordingly.

1.1.2 The site location and proposed development are shown on Drawing Nos G2014/166/MRA/01 to 04.

1.1.3 The purpose of the Mining Risk Assessment Report is to present a desk-based review of available information on the mining issues which are relevant to the site, and to identify and assess the risks to the proposed development from mining legacy.

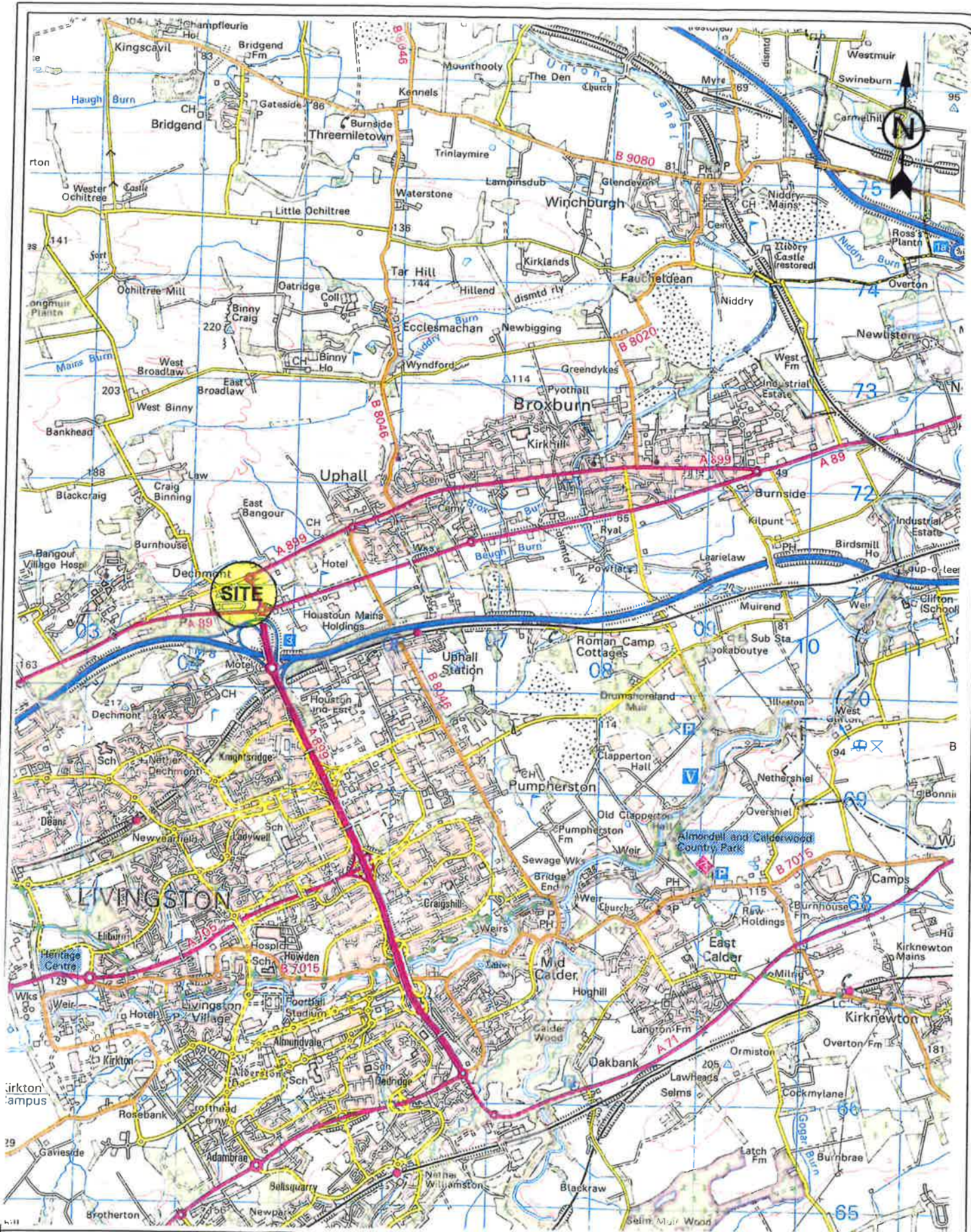
1.1.4 The object of the report is to demonstrate that the application site is, or can be made safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

1.1.5 This report provides the findings of our examinations of the site, which have been based on researches of available geological and mining maps, plans and other records. The scope of the investigations has been restricted to fulfil the necessary enquiry regarding the mining context of the site alone. Whilst in the course of our examinations we have identified other aspects of the geology relevant to the development, we anticipate that these will be considered in separate investigations dedicated to the wider geo-environmental impacts.

1.2 General Methodology

1.2.1 As described, our examinations involved researches of various published documents on the geological and historical background to the site and reference to The Coal Authority and the British Geological Survey on the past mining in the area. We have some familiarisation with the area and the geological sequence and this knowledge was allied to the findings of our enquiries.

1.2.2 In assessing the potential site impacts, we considered typical mine stability assessments criteria and have reviewed the area relative to our expectations of the geological conditions. Our confidence in the geology and the potential impacts of mining are discussed relative to the quality of the data available to us, with recommendations provided on the scope of future intrusive investigations (if relevant).



masevans
geo-environmental consultants

The Piazza, 95 Morrison Street, Glasgow, G5 8BE
t: 0141 420 2025 f: 0141 420 2057
e: mail@masevans.co.uk w: www.masevans.co.uk

client details:

MESSRS MACFARLANE
2 HOUSTON MAINS, DECHMONT
WEST LOTHIAN, EH52 6JY

project title: MAIN STREET
DECHMONT, WEST LOTHIAN

drawing title: SITE
LOCATION PLAN

project no:
G2014/166

drawing no:
G2014/166/MRA/RJ/F01

revision:

date:
14.05.14

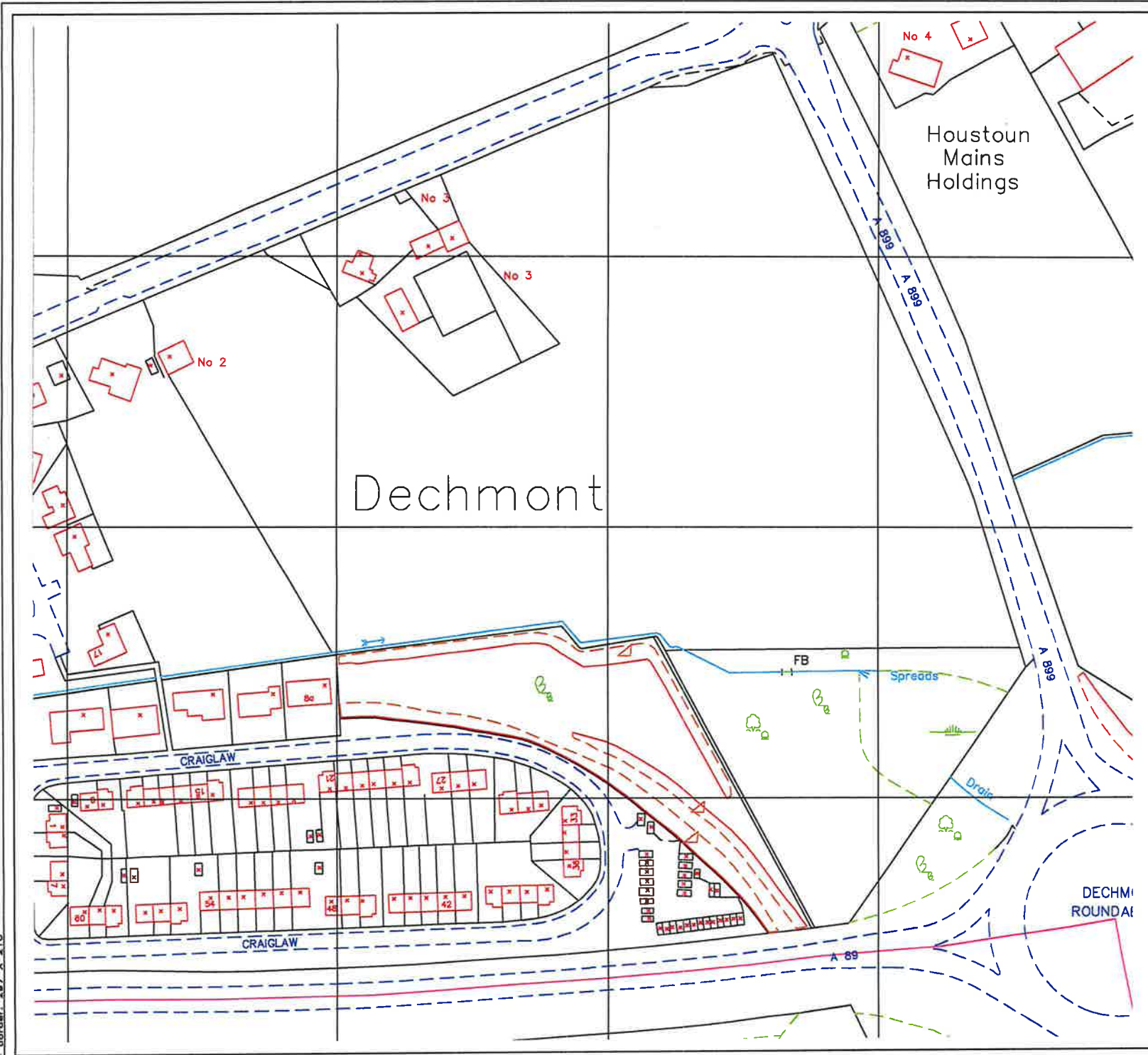
drawn by:
AC

approved by:

scale:
1:50,000

geotechnical • mining • environmental

glasgow • belfast • aberdeen



NOTES

REV	DATE	DETAILS

MESSRS MACFARLANE
 2 HOUSTON MAINS
 DECHMONT
 WEST LOTHIAN
 EH52 6JY

PROJECT TITLE
**MAIN STREET
 DECHMONT
 WEST LOTHIAN**

DRAWING TITLE
**STUDY
 AREA**

DRAWN BY AC	CHECKED BY	APPROVED BY	DATE 14.05.14	SCALE NTS
----------------	------------	-------------	------------------	--------------

PROJECT No. G2014/166	DRAWING No. G2014/166/MRA/R/F/02	REVISION
--------------------------	-------------------------------------	----------

mason evans 
 geo-environmental consultants

The Piazza, 95 Morrison Street, Glasgow, G5 8BE
 t: 0141 420 2025 f: 0141 420 2057
 e: mail@mason-evans.co.uk w: www.mason-evans.co.uk

geotechnical • mining • environmental glasgow • belfast • aberdeen

A4 border: 20/7 X 110



NOTES

REV	DATE	DETAILS
-----	------	---------

MESSRS MACFARLANE
 2 HOUSTON MAINS
 DECHMONT
 WEST LOTHIAN
 EH52 6JY

PROJECT TITLE
 MAIN STREET
 DECHMONT
 WEST LOTHIAN

DRAWING TITLE
 AERIAL
 PHOTOGRAPH

DRAWN BY	CHECKED BY	APP'D BY	DATE	SCALE
AC			14.05.14	NTS

PROJECT No.	DRAWING No.	REVISION
G2014/166	G2014/166/MRA/R/F/03	

mason evans 
 geo-environmental consultants

The Plaza, 95 Morrison Street, Glasgow, G5 8BE
 t: 0141 420 2025 f: 0141 420 2057
 e: mail@mason-evans.co.uk w: www.mason-evans.co.uk

A4: border - 247 - X - 21U

1.3 **Context**

- 1.3.1 It should be recognised that this report is prepared in accordance with current recommended practice and existing legislation. It is written in the context of the proposed residential development previously described. Should there be any alternative end-use, it would be prudent to consult us further to ensure the continued pertinence of the recommendations advised.

2.0 SITE LOCATION AND DESCRIPTION

2.1 Site Details

2.1.1 The summary details of the site as understood from supplied information (please note that no site visit has been undertaken) are as follows:

- Existing Site Name - Main Street, Dechmont, West Lothian
- Local Authority - West Lothian Council
- Site Area - approximately 5.57 Ha
- Location - The site is located to the east of Dechmont, to the immediate south of Main Street and to the immediate west of the A899.
- Current Usage - Undeveloped, unoccupied land with disused buildings in the north of the site.
- Topography - Conjectured to be generally flat lying.



(Plate 1: Site Location – courtesy of Google, 2014)

3.0 **HISTORICAL BACKGROUND**

3.1 **General**

3.1.1 An examination of the past history of a site can often provide valuable information in relation to potential constraints to its development. In this particular instance, our focus has been to establish evidence of any mining within the site or immediate environs. To facilitate these investigations, past copies of Ordnance Survey maps and other historical data were examined. It should be noted that considerable periods elapsed between successive Ordnance Survey map editions and the possibility that mining activities took place on the land in the intervening years and were not therefore recorded by the maps, cannot be discounted. In these circumstances, while we have tried to ascertain the complete record of the site history, the possibility that historical mining activities took place but were undisclosed by our researches, cannot be discounted.

3.2 **Historical Background**

3.2.1 During the course of our assessments, we examined available historical Ordnance Survey map records. Copies of the assessed Ordnance Survey map records are included for reference in Appendix A.

3.2.2 Map editions dated 1856, 1897, 1897-98, 1915-17, 1922, 1938-52, 1955, 1957-58, 1961-72, 1966-70, and 1976-95 were assessed and evidence of historical mining was noted as follows:

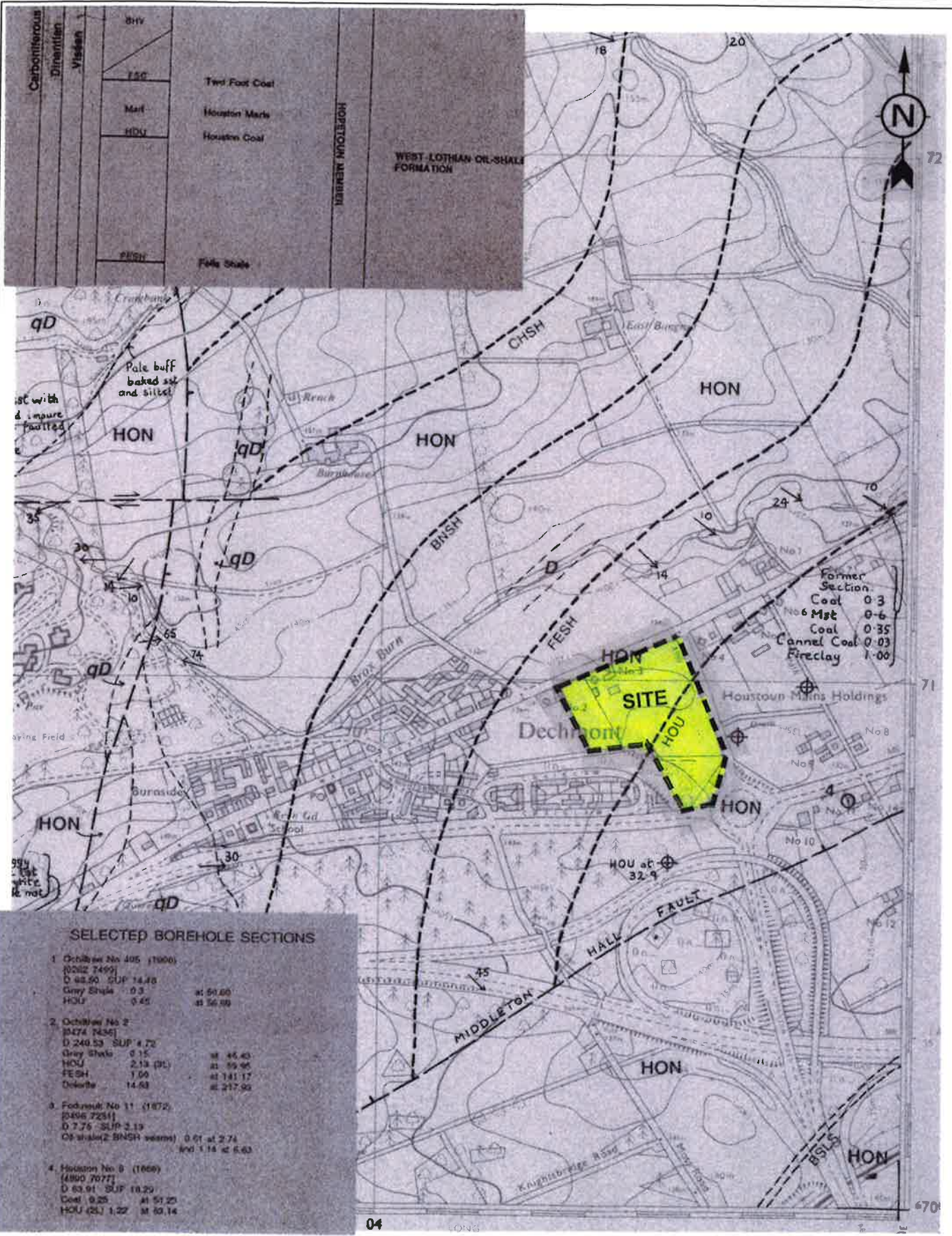
- Houston Colliery with old an old shaft, located approximately 740 m to the north east of the site close to Uphall (1856). Colliery is no longer noted on maps from 1897 onwards.
- Forkneuk shale pit located 1100 m to the north east to the north of Uphall (1897-1898).
- Uphall Oil Works located to the south of Uphall (1922).

3.2.3 In summary, a review of available historical Ordnance Survey maps has recorded no surface evidence of coal or other underground mining within the site boundaries. However, there was evidence of mining activities having taken place in the immediate and wider surrounding areas.

4.0 **SITE GEOLOGY AND MINING**

4.1 **General**

- 4.1.1 Researches of the British Geological Survey (BGS) maps and databases records that the site is underlain by glacial till (boulder clay), to depths of approximately 20 m (refer to historic bore No 4 as noted on Drawing No G2014/166/MRA/06).
- 4.1.2 The underlying rock strata is recorded as the Carboniferous aged Hopetoun Member of the West Lothian Oil-shale Formation, dipping to the south east (refer to Drawing Nos G2014/166/MRA/05 and 06). The Hopetoun Member typically consists of sedimentary units of sandstone, siltstone, mudstone, marls, ironstones and limestones, with coal and oil-shale seams.
- 4.1.3 In particular, the Houston Coal is recorded to outcrop below the central site area, the Fells Shale approximately 100 m to the north-west of the site boundary, the Broxburn Shale approximately 400 m to the north-west, the Champfleurie Shale approximately 650 m to the north west, and the Dunnet Shale approximately 950 m to the north west.
- 4.1.4 The Houston Coal is present at increasing depths below the central and south eastern areas of the site, and on the 1965 published map the outcrop is recorded as a solid line which indicates 'certainty' about location (refer to Drawing No G2014/166/MRA/05).
- 4.1.5 The 1991 published map (refer to Drawing No G2014/166/MRA/06) records an abandoned pit shaft approximately 40 m to the east of the site, with a second pit located approximately 200 m to the east of the site and a third abandoned pit located approximately 150 m to the south, in which the Houston Coal was noted at 32.9 metres depth.
- 4.1.6 Historical boreholes located within the site area (NT07SW9731/1, 2, 3 and 4 – refer to Appendix E) generally record sandy CLAY underlain by (boulder) CLAY to depths of 17 m to 20 m, underlain by sandstones and mudstones with ironstone and marl. There is no evidence within these boreholes of mining activities even though they were sunk to a maximum depth of 35 m.
- 4.1.7 Historical borehole records for the surrounding area also generally record sandy clay underlain by boulder clay, underlain by sedimentary strata. Borehole No NT07SW93 to the south east of the site records coaly blaes at a depth of 28 fathoms (50 m), whilst there is no evidence of mining activities within any of the other boreholes.



Carboniferous	Dinantian	81v		
		150	Two Foot Coal	
		Marl	Houston Marl	
	HOU	Houston Coal		
	Visean			
FESH		Fife Shale		

WEST LOTHIAN OIL-SHALE FORMATION

HOUTON MAINS

Former Section

Coal	0-3
Mgt	0-6
Coal	0-35
Canal Coal	0-03
Fireclay	1-00

SELECTED BOREHOLE SECTIONS

- Ochilwell No 405 (1000)
(0282 7499)
D 22.50 SUP 14.48
Gray Shale 0.3
HOU 0.45 at 50.60
at 56.89
- Ochilwell No 2
(0474 7436)
D 240.53 SUP 4.72
Gray Shale 0.15 at 44.43
HOU 2.13 (3L) at 59.95
FESH 1.00 at 141.17
Dolerite 14.63 at 217.92
- Fodrusult No 11 (1872)
(0496 7251)
D 7.75 SUP 3.13
OS shale (2 BNSH seams) 0.61 at 2.74
at 5.63
- Houston No 5 (1666)
(4890 7077)
D 83.91 SUP 10.29
Coal 0.25 at 51.25
HOU (2L) 1.22 at 60.14

A4 border: 277 x 190



The Piazza, 95 Morrison Street, Glasgow, G5 8BE
t: 0141 420 2025 f: 0141 420 2057
e: mail@masevans.co.uk w: www.masevans.co.uk

client details:							
MESSRS MACFARLANE 2 HOUSTON MAINS, DECHMONT WEST LOTHIAN, EH52 6JY							
project title:				drawing title:			
MAIN STREET DECHMONT, WEST LOTHIAN				EXTRACT FROM PUBLISHED GEOLOGICAL SURVEY MAP (SOLID & DRIFT GEOLOGY) PUBLISHED 1991			
project no:	drawing no:	revision:	date:	drawn by:	approved by:	scale:	
G2014/166	G2014/166/MRA/R/F/06		14.05.14	AC		1:10,560	

geotechnical • mining • environmental

glasgow • belfast • aberdeen

4.2 Mining History

- 4.2.1 Information relating to the thickness of underlying coal seams was obtained from the British Geological Survey (BGS), The Coal Authority, and old memoirs.
- 4.2.2 In our researches, we examined a report compiled by The Coal Authority (copy included in Appendix B). It confirms that the property is not within the zone of likely physical influence on the surface from recorded underground workings. **However, 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 in the past.** It also records that no known mine entries exist within the site or within 20 m of the boundary.
- 4.2.3 From our researches, we consider that the Houston Coal is the shallowest economic seam below the site. Utilising information recorded on the solid geological maps (refer to Drawing Nos G2014/166/MRA/05 and 06), it is considered that this coal underlies the central site area at very shallow depths below rockhead, and is present at increasing depth towards the south and south east of the site due to the recorded rock strata dip direction.
- 4.2.4 The BGS Georeport (refer to Appendix C) states that the Houston Coal can be 'up to 2 m thick' and 'is known to have been worked locally in the past'. There is no indication that the seam has been worked beneath the site, but the report states that the a borehole located 130 m to the north east of the site records Houston Coal 'waste' at depths of approximately 25 m (i.e. 5 m below rockhead) and that a BGS Geology for Land Use Planning map recorded old workings at an excavation approximately 100 m to the south west of the site.
- 4.2.5 The BGS report does not raise any concerns regarding mining activities at the level of any of the West Lothian oil shales.
- 4.2.6 We have also researched the following documents: (1) Economic Geology of Central Coalfield of Scotland, relating to this area – Area VI, Bathgate, Wilsontown, Fauldhouse, Shotts, Harthill, Armadale and Westercraigs, dated 1923, and (2) Memoirs of the Geological Survey Scotland, The Oil-Shales of the Lothians, dated 1912. The memoirs recount and verify that the Houston Coal has been worked in the area and records that the Houston Coal was "practically the lowest bed of workable coal in the Scottish Carboniferous system". The memoirs also state that it was 'formerly extensively wrought near the surface' but that the coal is 'pyritous, of inferior quality and on account of it's bad roof and soft pavement and the quantity of bales interbedded with it, has seldom in recent years proved remunerative'. Extracts from the memoirs are included in Appendix E.
- 4.2.7 There are no records of mine gas emissions requiring action by The Coal Authority within the boundary of the site (refer to information included in Appendix B).
- 4.2.8 There is no record of mine entries within the site, but several abandoned pit shafts are recorded in the surrounding area (refer to Drawing No G2014/166/MRA/06).

5.0 IDENTIFICATION AND ASSESSMENT OF SITE SPECIFIC COAL MINING RISKS

5.1 Risk Assessment

5.1.1 The table below has been derived from our researches, highlighting the risk relating to historical mineworkings at the proposed development area.

Table 1: Coal Mining Issues Risk Assessment

Coal Mining Issue	Yes	No	Risk Assessment
Underground mining (<i>Ref 2, 3 & 4</i>)	✓	×	Moderate – There are no workings recorded to underlie the site. However, the Houston Coal (up to 2 m thick) is recorded to outcrop below the site and there is evidence of this seam being worked in the wider area, so there is potential for shallow unrecorded workings below the central and southern site areas.
Mine entries (shafts and adits) (<i>Ref 1 to 4</i>)	×	✓	Low - Coal Authority has no record of mine entries within the site area. However, recorded mine entries are known to exist in the surrounding area.
Record of past mine gas emissions (<i>Ref 3</i>)	×	✓	Low
Surface mining (opencast workings) (<i>Ref 1 to 4</i>)	×	✓	Low

Ref 1: Ordnance Survey Historical Maps (Appendix A)

Ref 2: BGS Geological Map – NT07SW (Drawing No G2014/166/CMRA/04)

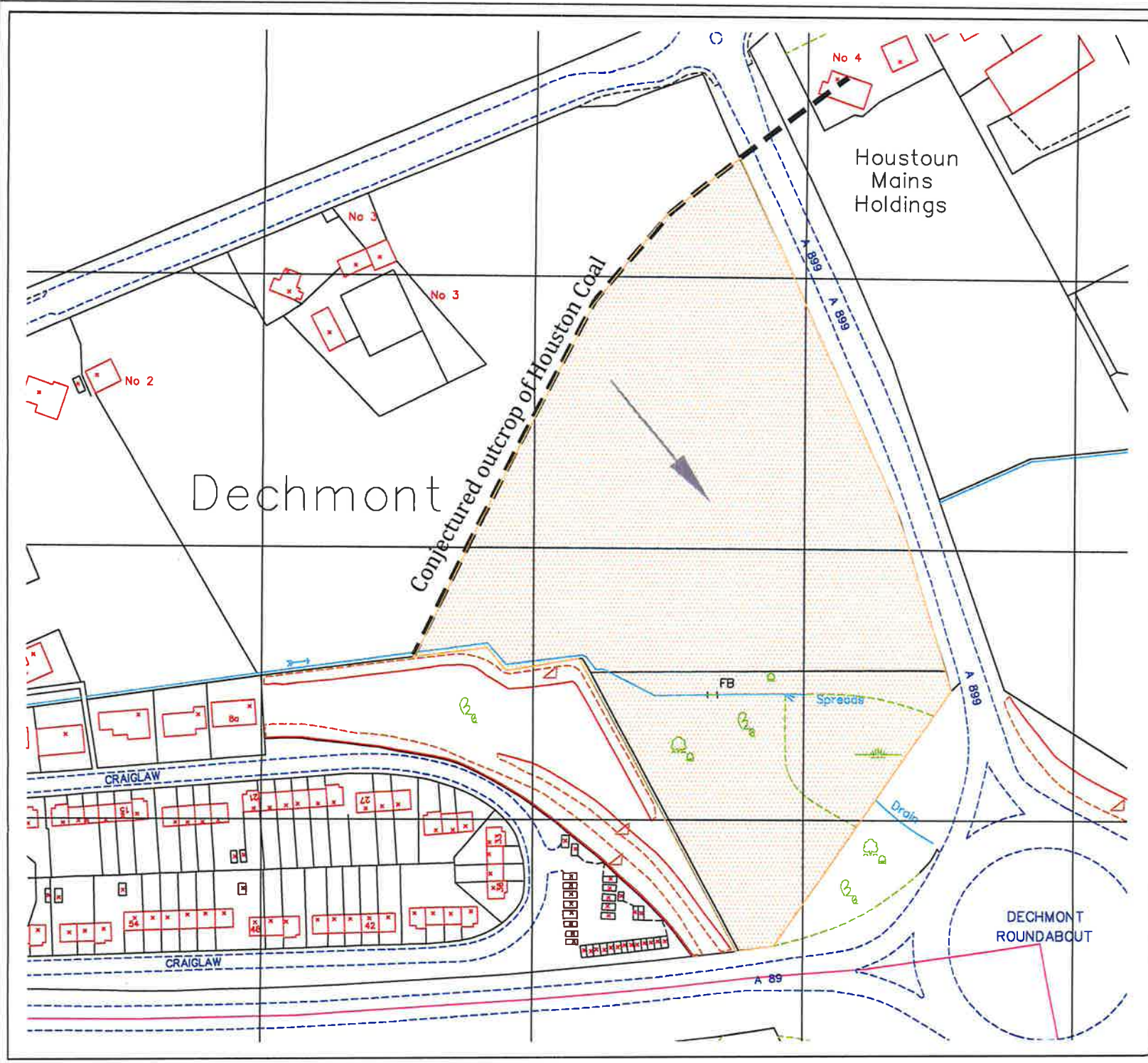
Ref 3: Coal Authority Report – Ref 51000516936003, dated 25 April 2014 (Appendix B)

Ref 4: BGS Georeport (No. GR_208664/1)

5.1.2 Our researches have indicated that there are no 'recorded' coal workings beneath the site, but that there is the potential for unrecorded workings to exist at the level of the Houston Coal.

5.1.3 We conjecture that the shallowest coal seam below the site is the Houston Coal, considered to be present at shallow depths below rockhead, below the central site area, becoming deeper in a southerly direction. There is no record of this seam having been worked beneath the site itself, but information obtained from the BGS and historical memoirs indicates that there are workings within the seam in the surrounding area and therefore the potential for shallow 'unrecorded' workings exists. Drawing No G2014/166/MRA/07 indicates the conjectured area of the site, underlain by potential mineworkings at the level of the Houston Coal, although if workings exist it is considered that only the central site area would potentially be subject to potential ground instability.

5.1.4 There are no recorded mine entries within the site, although several are noted in the immediate surrounding area (refer to Drawing No G2014/166/MRA/06 and Appendix C).



NOTES

- Conjectured outcrop location of the Houston Coal
- Recorded direction of rock strata dip
- Potential site area underlain by workings at the level of the Houston Coal

REV	DATE	DETAILS

MESSRS MACFARLANE
 2 HOUSTON MAINS
 DECHMONT
 WEST LOTHIAN
 EH52 6JY

PROJECT TITLE

**MAIN STREET
 DECHMONT
 WEST LOTHIAN**

DRAWING TITLE

CONJECTURED SITE AREA "POTENTIALLY UNDERLAIN"
 BY MINEWORKINGS AT THE LEVEL OF THE HOUSTON COAL

DRAWN BY AC	CHECKED BY	APPROVED BY	DATE 14.05.14	SCALE NTS
----------------	------------	-------------	------------------	--------------

PROJECT No. G2014/166	DRAWING No. G2014/166/MRA/R/F/07	REVISION
--------------------------	-------------------------------------	----------

maseonevans

geo-environmental consultants

The Plaza, 95 Morrison Street, Glasgow, G5 8BE
 t: 0141 420 2025 f: 0141 420 2057
 e: mail@maseonevans.co.uk w: www.maseonevans.co.uk

geotechnical • mining • environmental glasgow • belfast • aberdeen

5.2 Conclusions

- 5.2.1 In summary, we conclude that the central site area could be affected by unrecorded shallow mineworkings at the level of the Houston Coal, as supported by evidence of workings in the surrounding area. However, older strata such as the Fells Shale are not considered to present a risk to ground stability (below the northern site area) associated with historical mining activities.
- 5.2.2 In view of the uncertainties on the mining conditions at the site, information will be required through dedicated mineral investigations, within the central and south-eastern site areas.
- 5.2.3 Should the investigations confirm a site area to be unstable, treatment to secure the workings can be undertaken through conventional drilling and grouting, designed to stabilise building footprints. Usually treatment will be not required to address car parking areas or other hardstanding as any surface expressions are unlikely to present significant subsidence to such features within the proposed development.
- 5.2.4 Prior to the commencement of any investigations or treatment, permission will be required from The Coal Authority to penetrate coal seam(s). This is a standard (and legal) requirement in all coal mining investigations.
- 5.2.5 There are no records of mine entries within the site, although BGS maps show three abandoned pit shafts in the surrounding area; 40 m to the east, 200 m to the east and 150 m to the south of the site respectively. As in all areas of historical mining, the possible presence of unrecorded mine entries exists and vigilance should be maintained at all times, for such features, during any future site works.



Patrick Barry
Director

Appendix A

Historical Ordnance Survey Map Records (dated 1856 to 2014)

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
- Co. Boro. Bdy. (County Borough Boundary (England))
- Co. Burgh Bdy. (County Burgh Boundary (Scotland))
- R.D. Bdy. (Rural District Boundary)
- 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
- Glasshouse
- Sloping Masonry
- Direction of Flow of Water
- Shingle
- Sand
- Pylon
- Electricity Transmission Line
- Cutting
- Embankment
- Standard Gauge Multiple Track
- Standard Gauge Single Track
- 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)
- Ch (Church)
- CH (Club House)
- F E Sta (Fire Engine Station)
- FB (Foot Bridge)
- Fn (Fountain)
- GP (Guide Post)
- MP (Mile Post)
- MS (Mile Stone)
- Pol Sta (Police Station)
- PO (Post Office)
- PC (Public Convenience)
- PH (Public House)
- SB (Signal Box)
- Spr (Spring)
- TCB (Telephone Call Box)
- TCP (Telephone Call Post)
- W (Well)

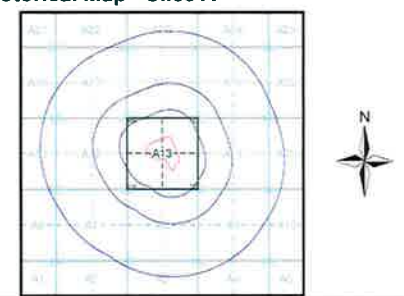
1:10,000 Raster Mapping

- Gravel Pit
- Rock
- Boulders
- Shingle
- Sand
- Slopes
- Refuse tip or slag heap
- Rock (scattered)
- Boulders (scattered)
- Mud
- Sand Pit
- Top of cliff
- Underground detail
- Narrow gauge railway
- Single track railway
- Multi-track railway
- County boundary (England only)
- District, Unitary, Metropolitan, London Borough boundary
- Civil, parish or community boundary
- Constituency boundary
- Area of wooded vegetation
- Non-coniferous trees
- Coniferous trees
- Positioned tree
- Coppice or Osiers
- Rough Grassland
- Heath
- Marsh, Salt Marsh or Reeds
- Flow arrows
- MHW(S) Mean high water (springs)
- MLW(S) Mean low water (springs)
- Electricity transmission line (with poles)
- Telephone line (where shown)
- BM 123 45 m. Bench mark (where shown)
- Point feature (e.g. Guide Post or Mile Stone)
- Glasshouse
- Important Building
- General Building

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Edinburghshire	1:10,560	1853	2
Linlithgowshire	1:10,560	1856	3
Edinburghshire	1:10,560	1895	4
Linlithgowshire	1:10,560	1897 - 1898	5
Edinburghshire	1:10,560	1908 - 1909	6
Historical Aerial Photography	1:10,560	1950	7
Linlithgowshire	1:10,560	1952	8
Ordnance Survey Plan	1:10,000	1957 - 1958	9
Ordnance Survey Plan	1:10,000	1957	10
Ordnance Survey Plan	1:10,000	1966	11
Ordnance Survey Plan	1:10,000	1970	12
Ordnance Survey Plan	1:10,000	1976	13
Ordnance Survey Plan	1:10,000	1983 - 1984	14
Ordnance Survey Plan	1:10,000	1991 - 1995	15
10K Raster Mapping	1:10,000	2006	16
Vector Map Local	1:10,000	2014	17

Historical Map - Slice A

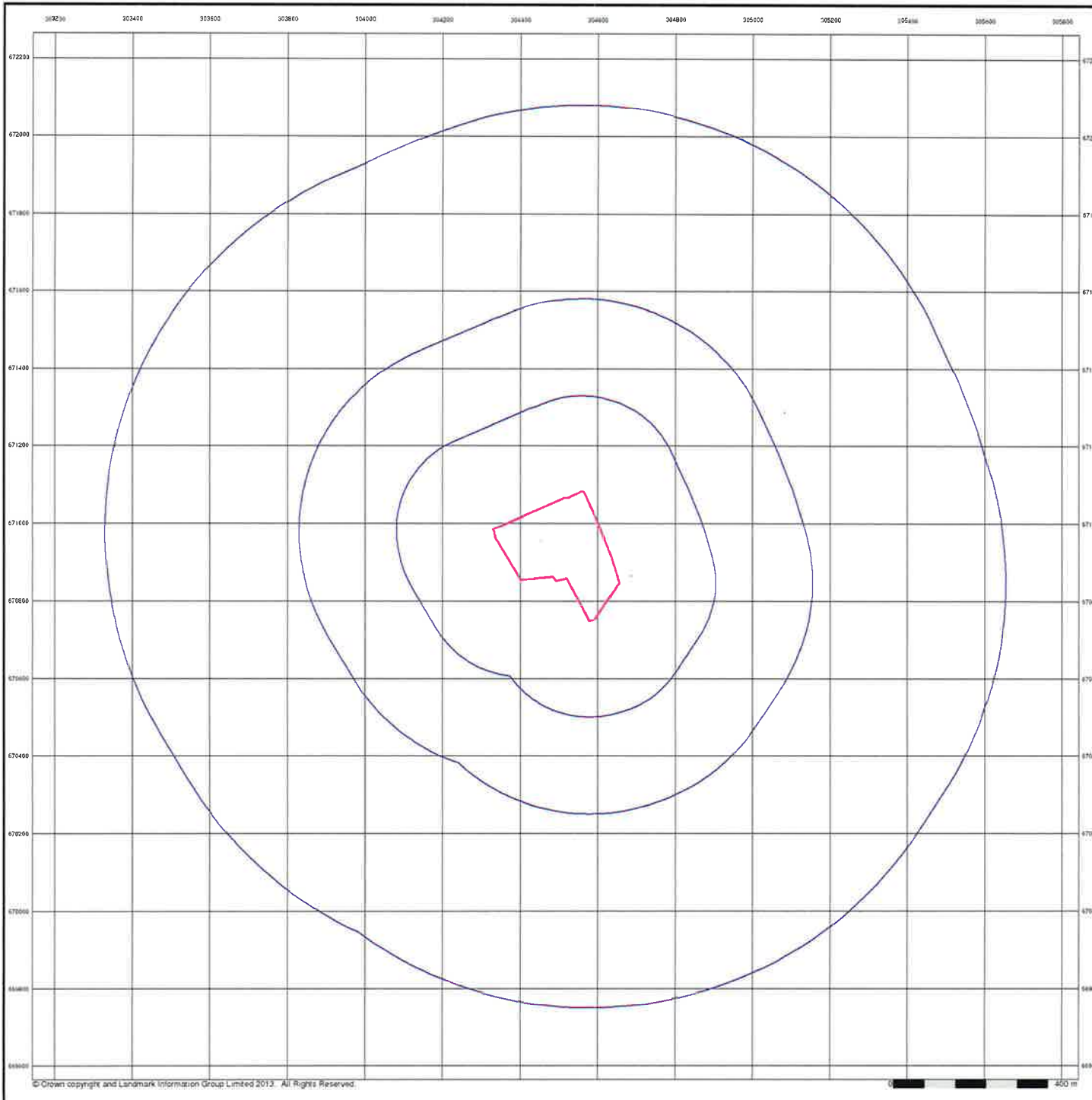


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



© Crown copyright and Landmark Information Group Limited 2013. All Rights Reserved.

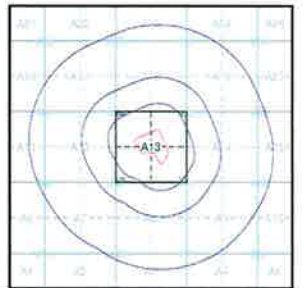
**Edinburghshire
Published 1853
Source map scale - 1:10,560**

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 1939, 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 culling 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)



Historical Map - Slice A

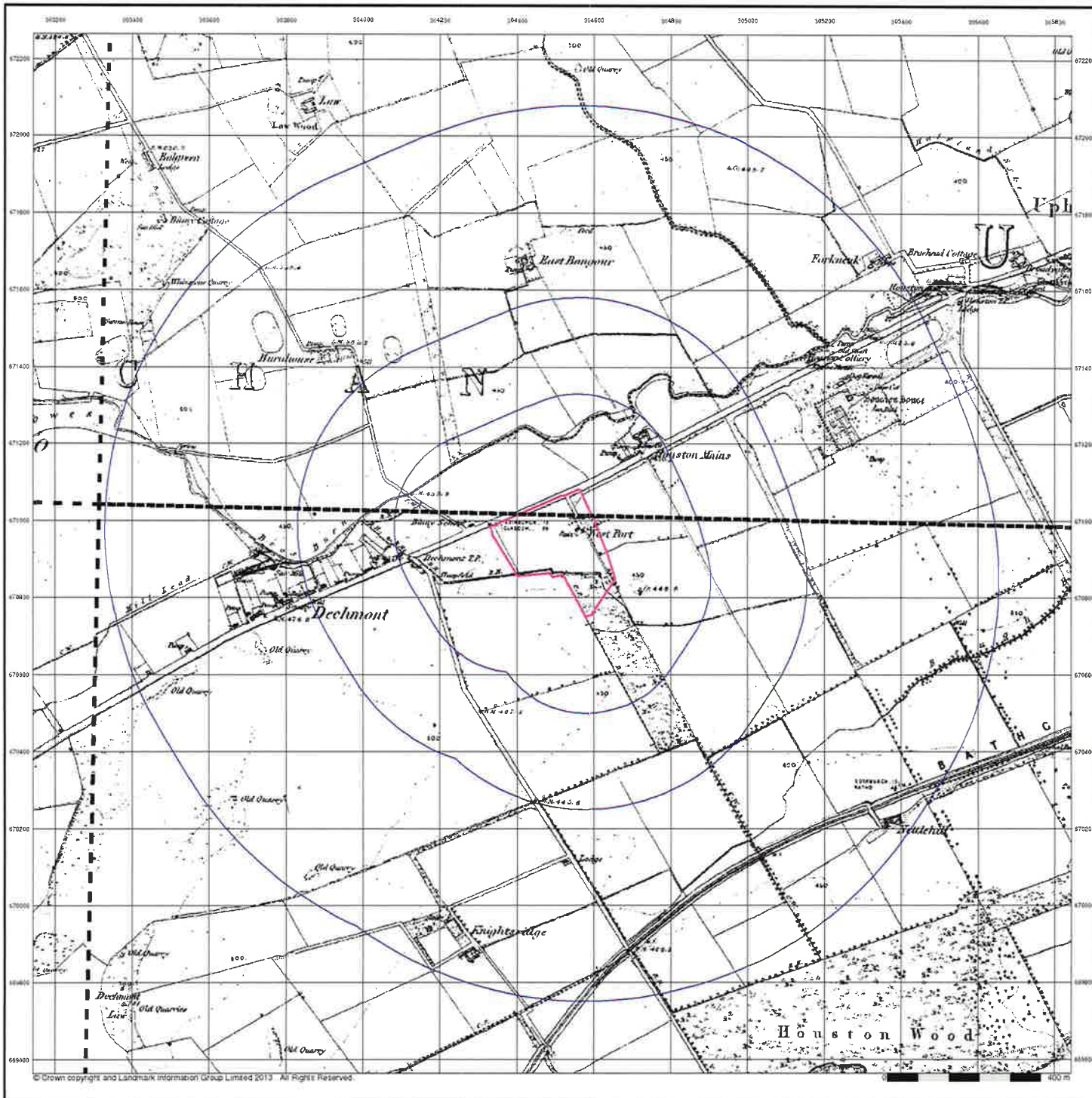


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



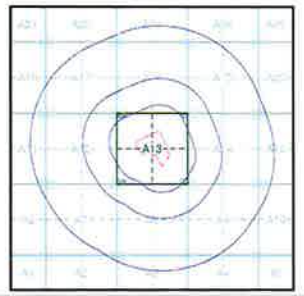
**Linlithgowshire
Published 1856
Source map scale - 1:10,560**

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)

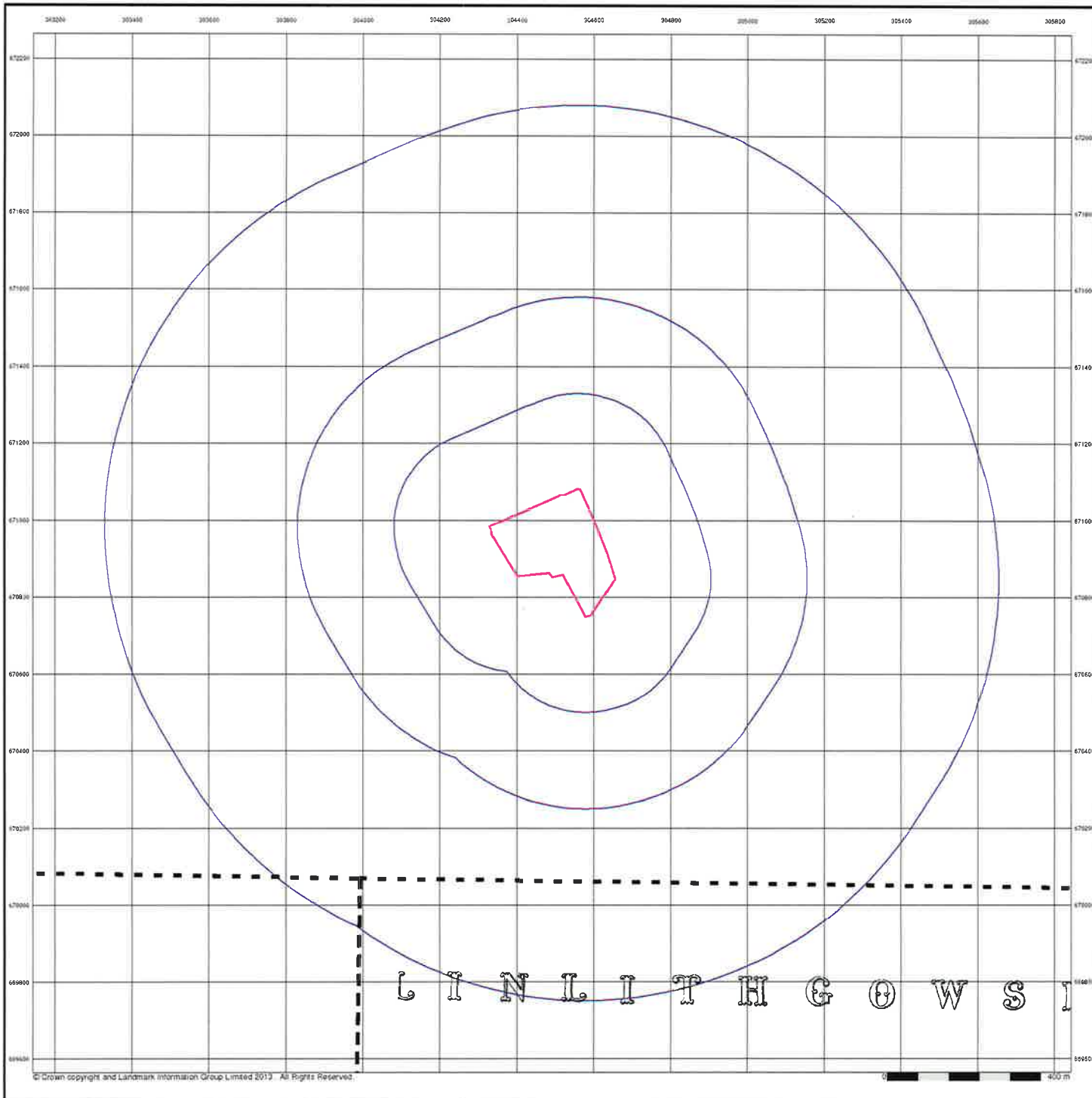
00500 1856 1:10,560	00600 1856 1:10,560
00900 1856 1:10,560	01000 1856 1:10,560

Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

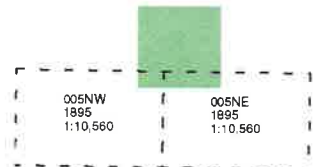
Site Details
 Site at 304460, 670950



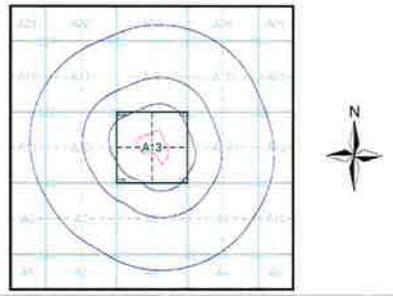
**Edinburghshire
Published 1895
Source map scale - 1:10,560**

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)



Historical Map - Slice A

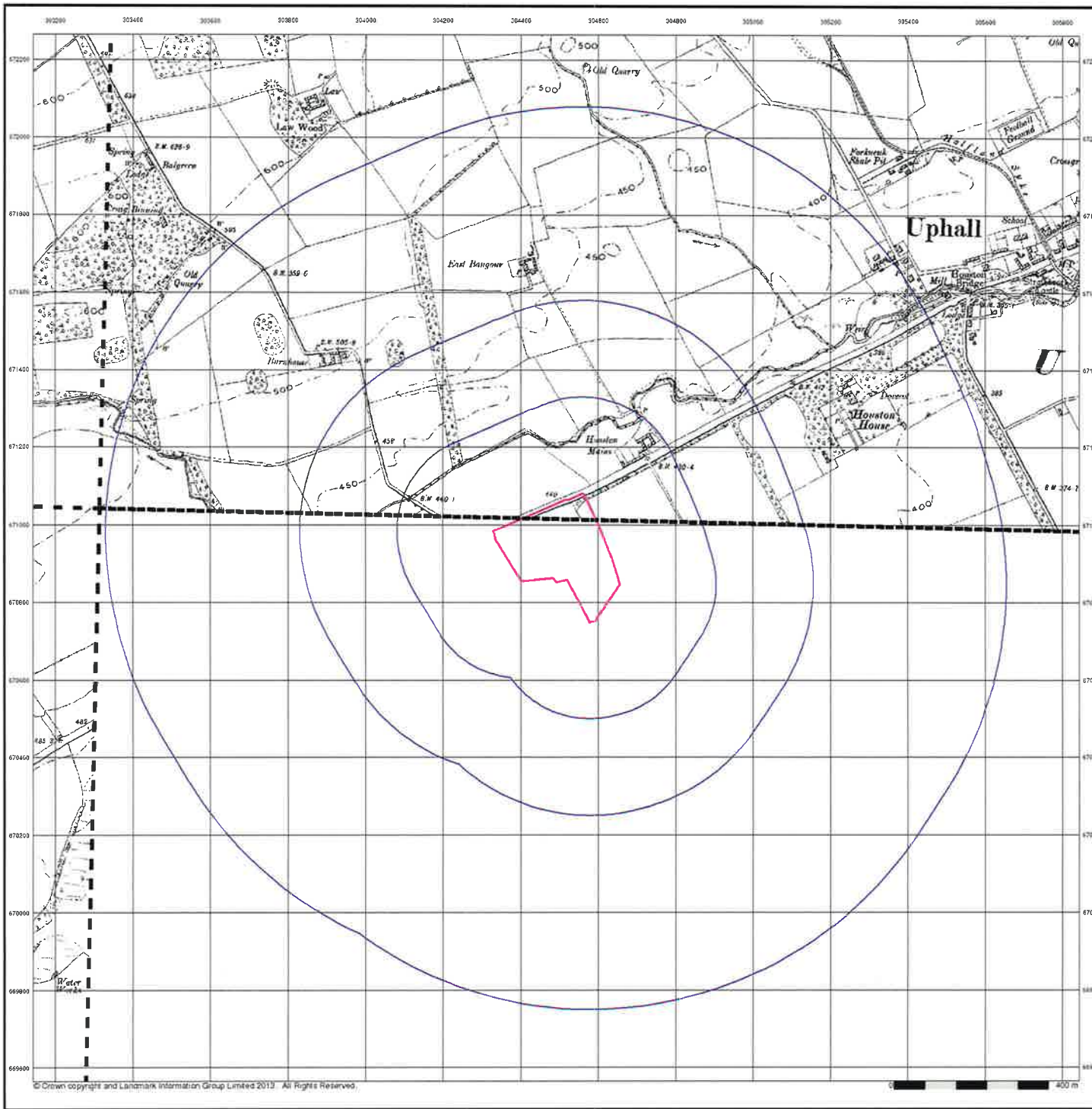


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



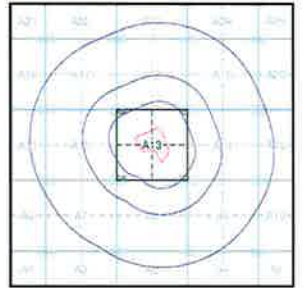
**Linlithgowshire
Published 1897 - 1898
Source map scale - 1:10,560**

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 1936, 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)

005SE 1897 1:10,560	006SW 1897 1:10,560
009NE 1898 1:10,560	010NW 1897 1:10,560

Historical Map - Slice A

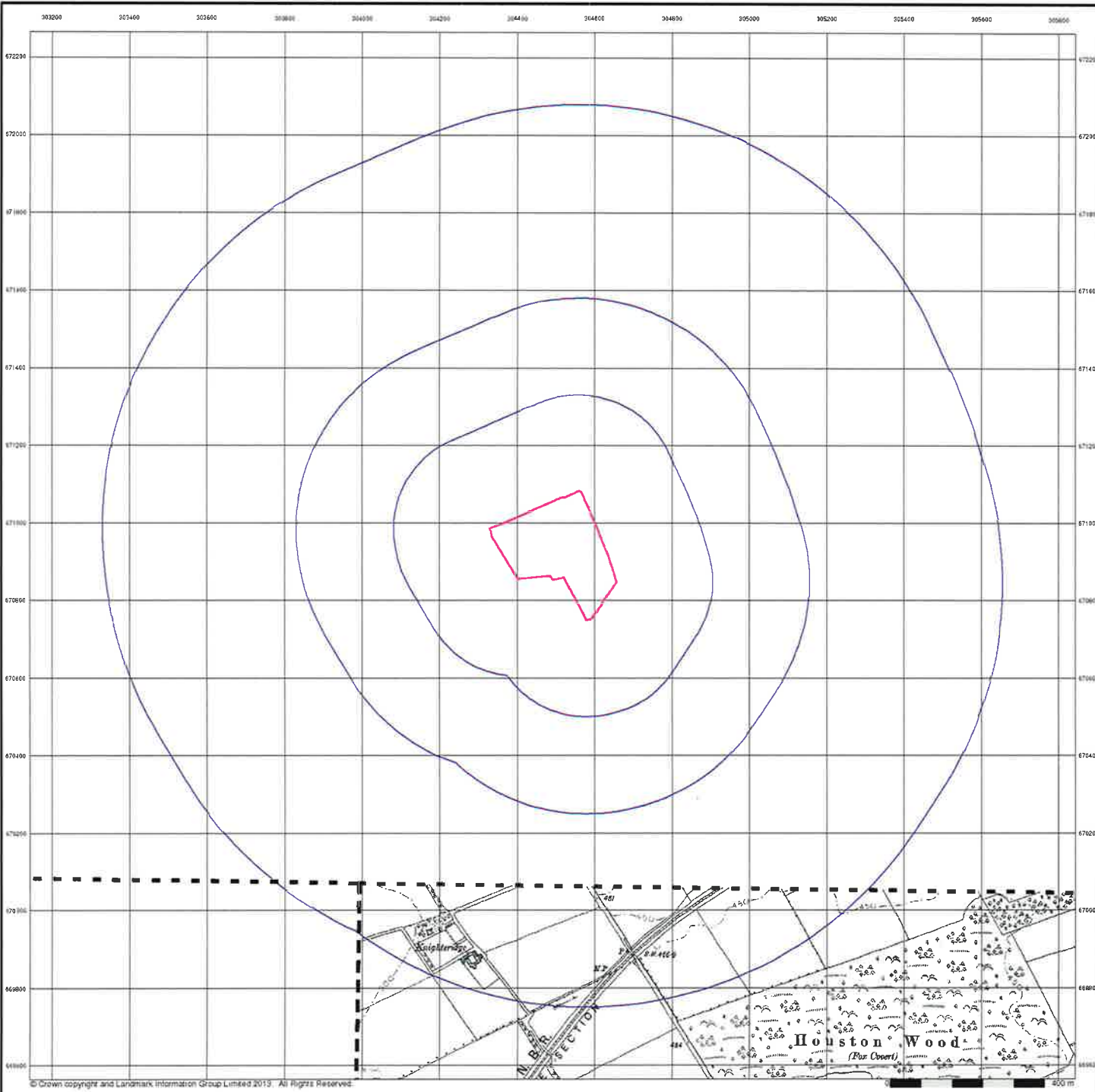


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



**Edinburghshire
Published 1908 - 1909**

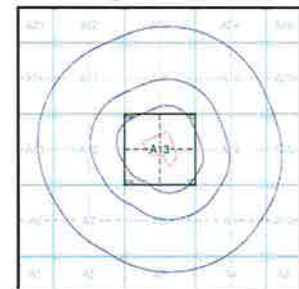
Source map scale - 1:10,560

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)

005NW 1909 1:10,560	005NE 1908 1:10,560
---------------------------	---------------------------

Historical Map - Slice A

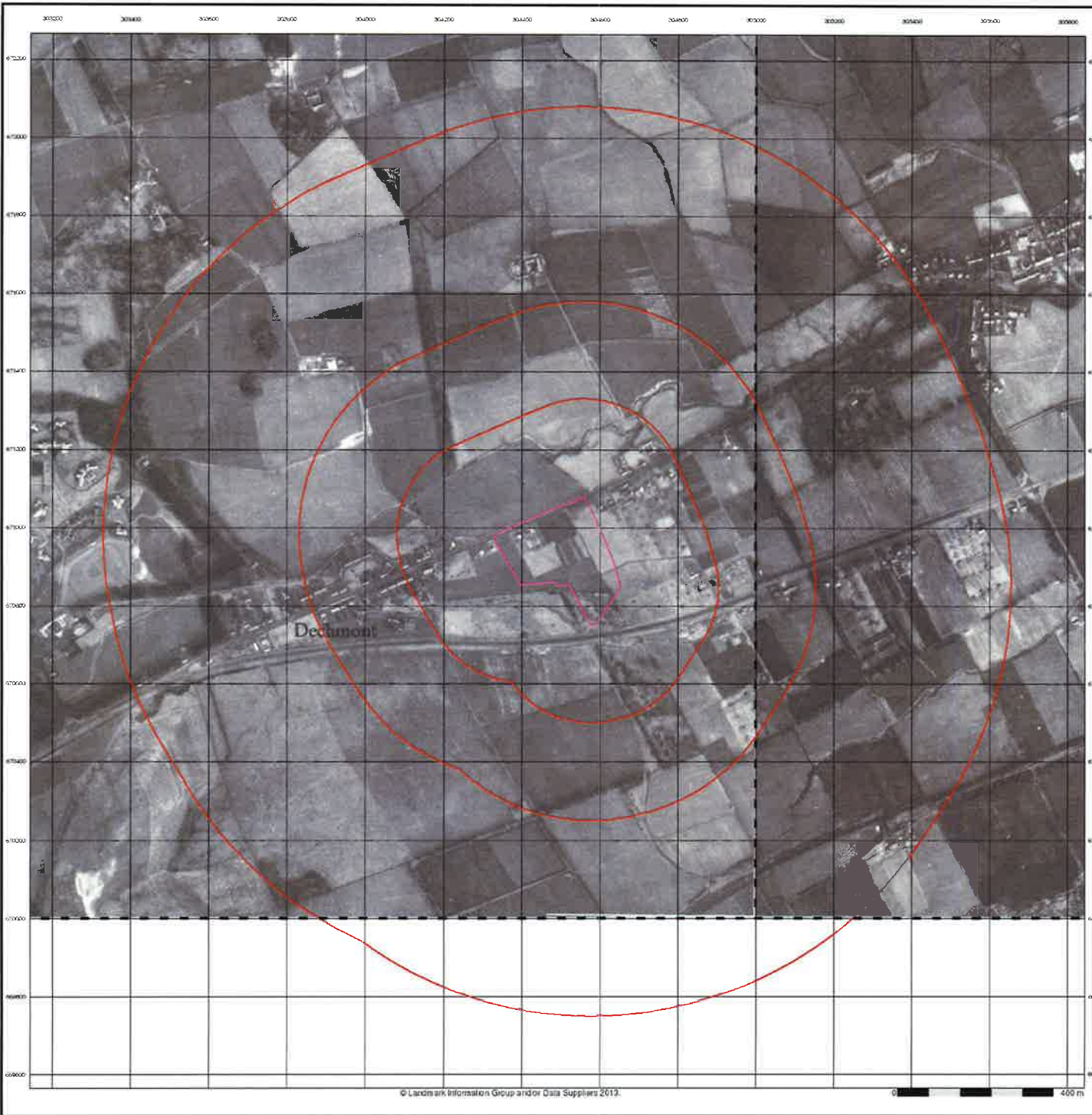


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



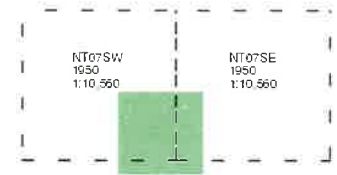
**Historical Aerial Photography
Published 1950**

Source map scale - 1:10,560

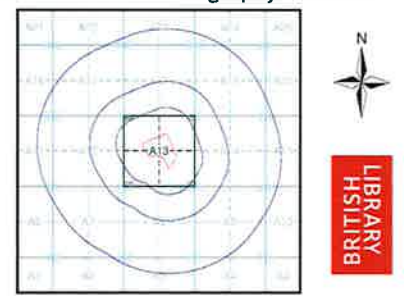
The Historical Aerial Photos were produced by the Ordnance Survey at a scale of 1:1,250 and 1:10,560 from Air Force photography. They were produced between 1944 and 1951 as an interim measure, pending preparation of conventional mapping, due to post war resource shortages. New security measures in the 1950's meant that every photograph was re-checked for potentially unsafe information with security sites replaced by fake fields or clouds. The original editions were withdrawn and only later made available after a period of fifty years although due to the accuracy of the editing, without viewing both revisions it is not easy to spot the edits. Where available Landmark have included both revisions.

© Landmark Information Group and/or Data Suppliers 2010.

Map Name(s) and Date(s)



Historical Aerial Photography - Slice A

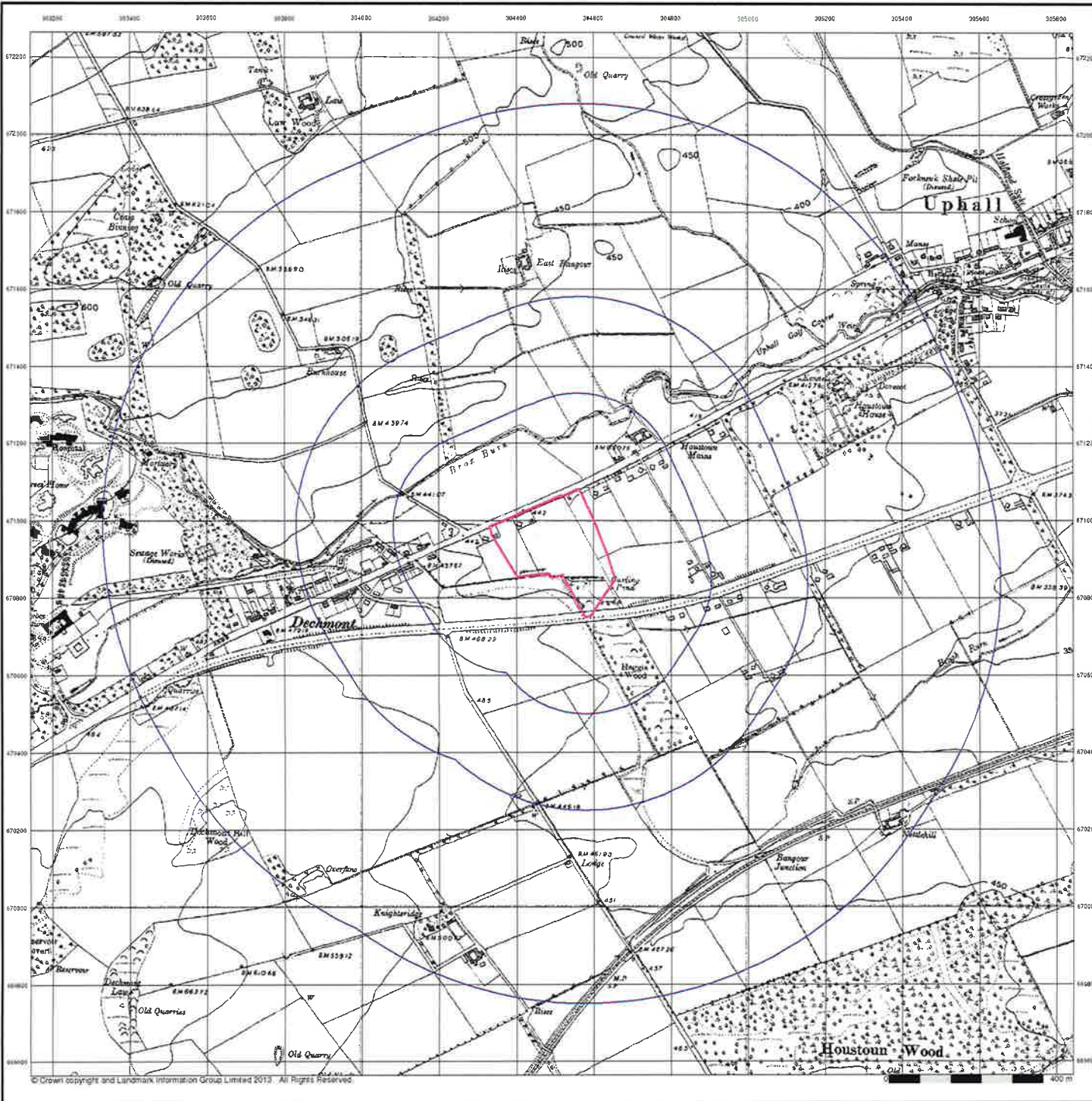


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

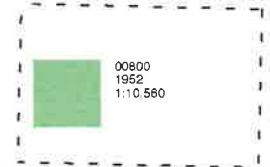
Site at 304460, 670950



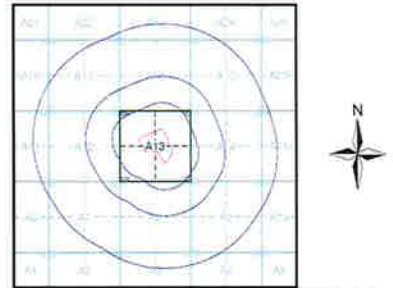
Linlithgowshire
Published 1952
Source map scale - 1:10,560

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)



Historical Map - Slice A

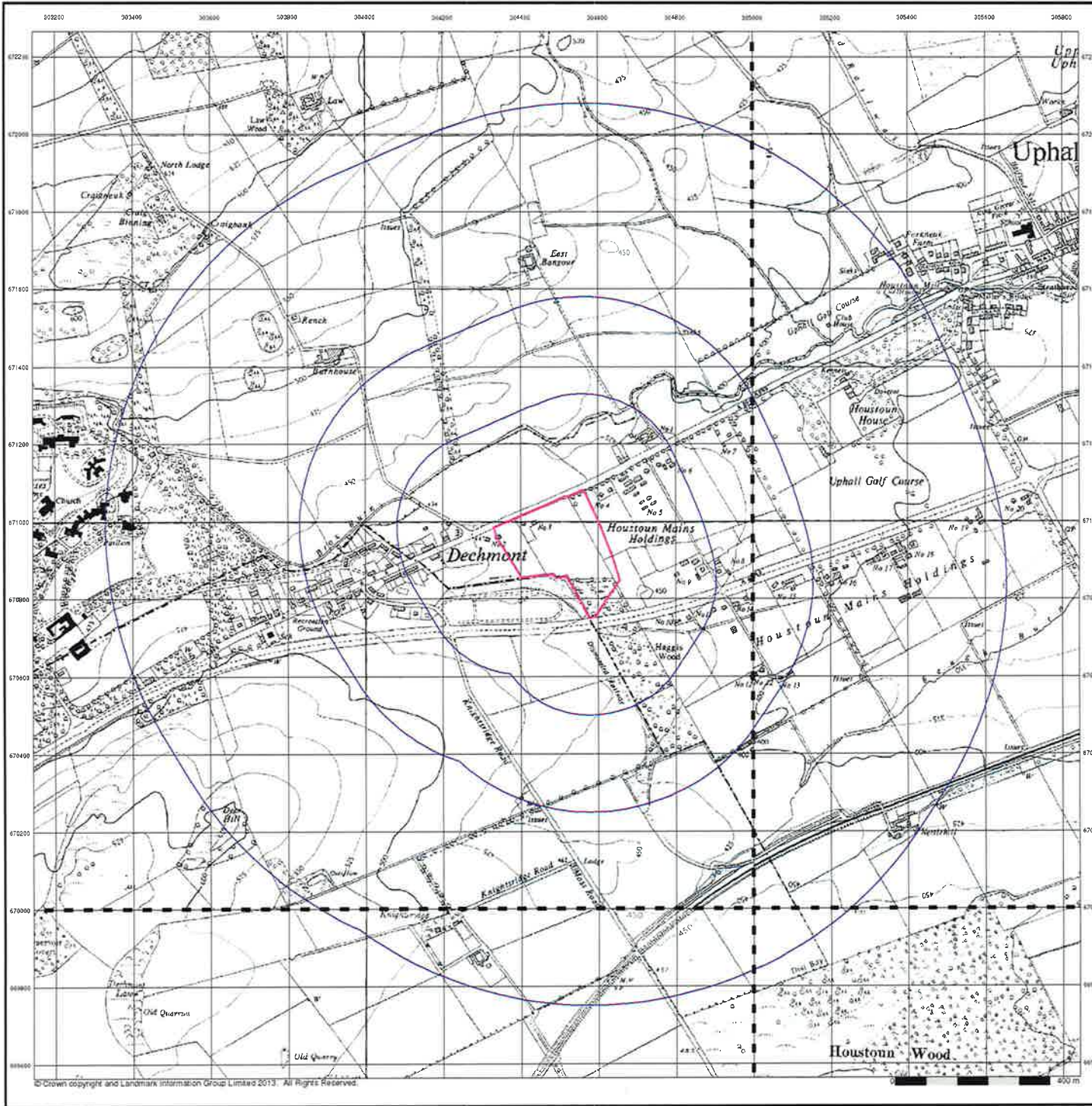


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



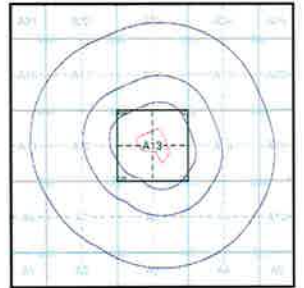
**Ordnance Survey Plan
Published 1957 - 1958
Source map scale - 1:10,000**

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)

NT07SW 1958 1:10,560	NT07SE 1956 1:10,560
NT06NW 1957 1:10,560	NT06NE 1957 1:10,560

Historical Map - Slice A

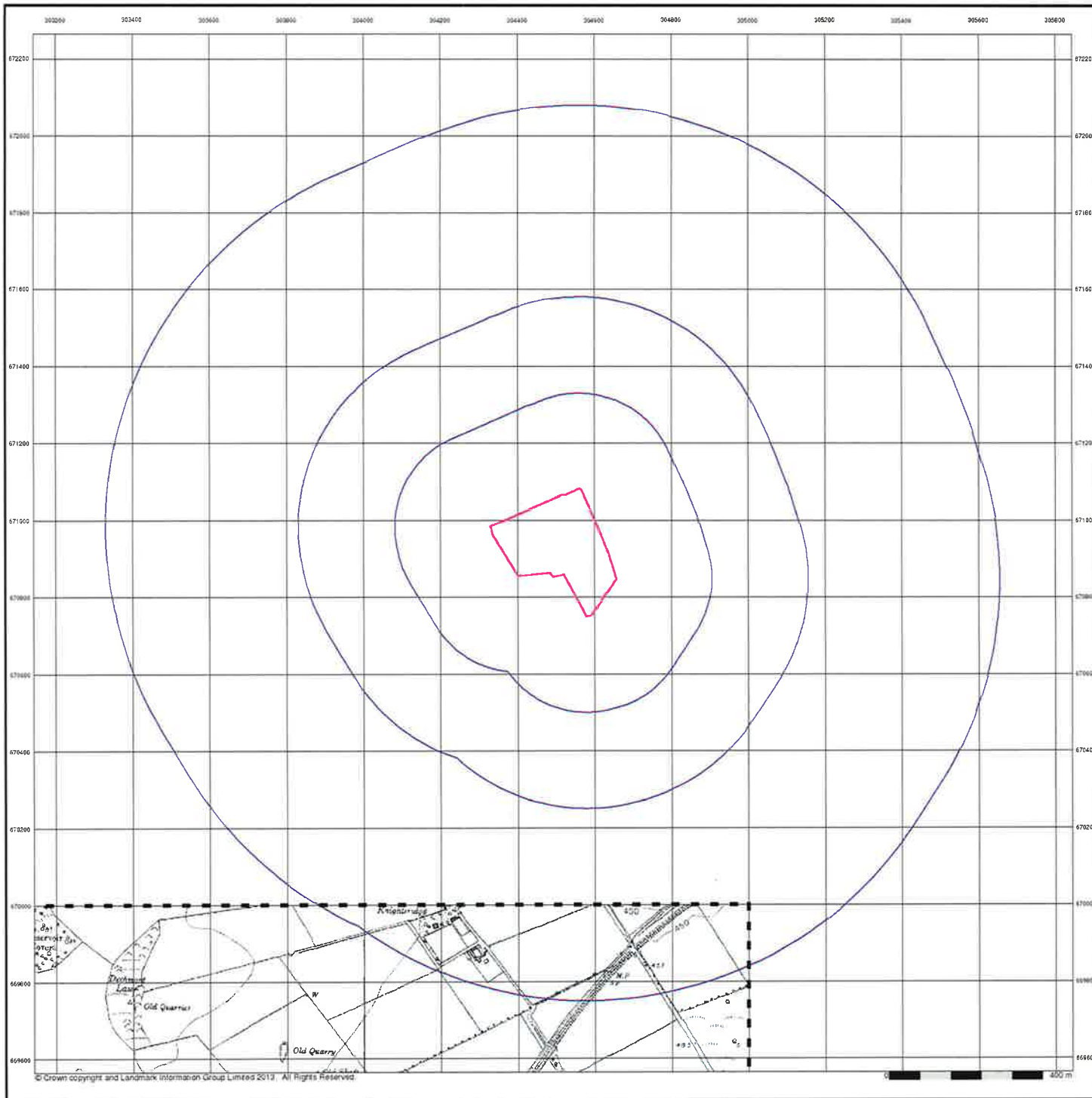


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

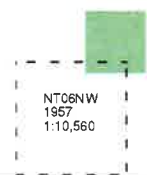
Site at 304460, 670950



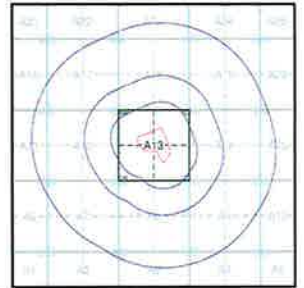
**Ordnance Survey Plan
Published 1957
Source map scale - 1:10,000**

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1954 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)



Historical Map - Slice A

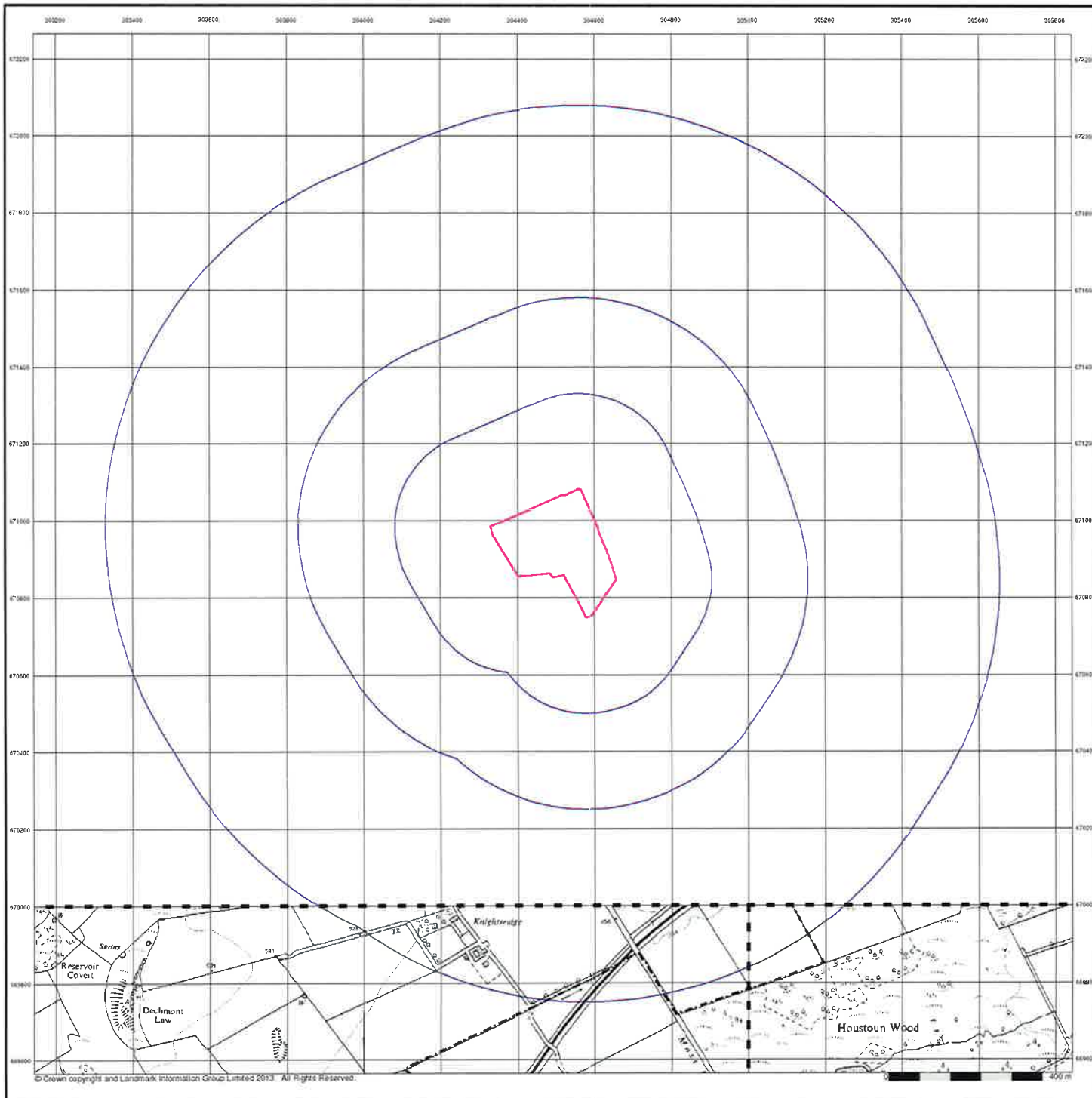


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

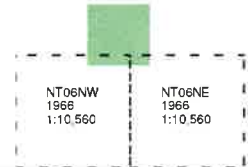
Site at 304460, 670950



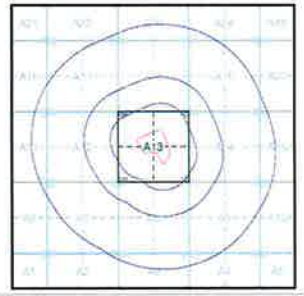
**Ordnance Survey Plan
Published 1966
Source map scale - 1:10,000**

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)



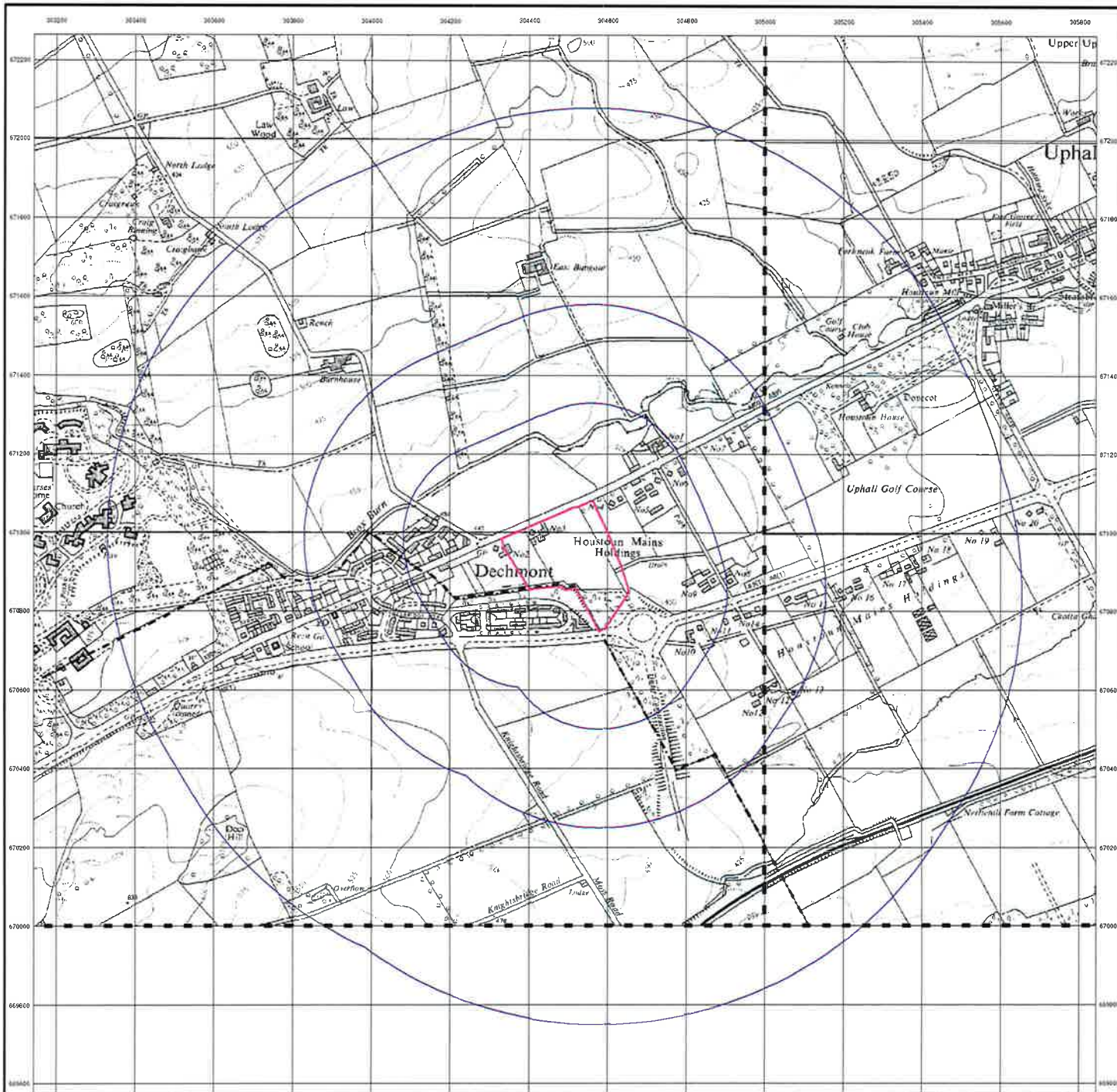
Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details
 Site at 304460, 670950

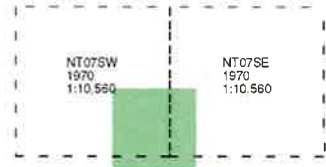
© Crown copyright and Landmark Information Group Limited 2013. All Rights Reserved.



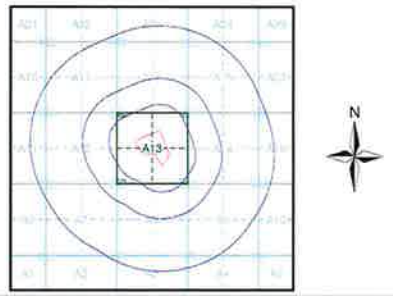
**Ordnance Survey Plan
Published 1970
Source map scale - 1:10,000**

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)

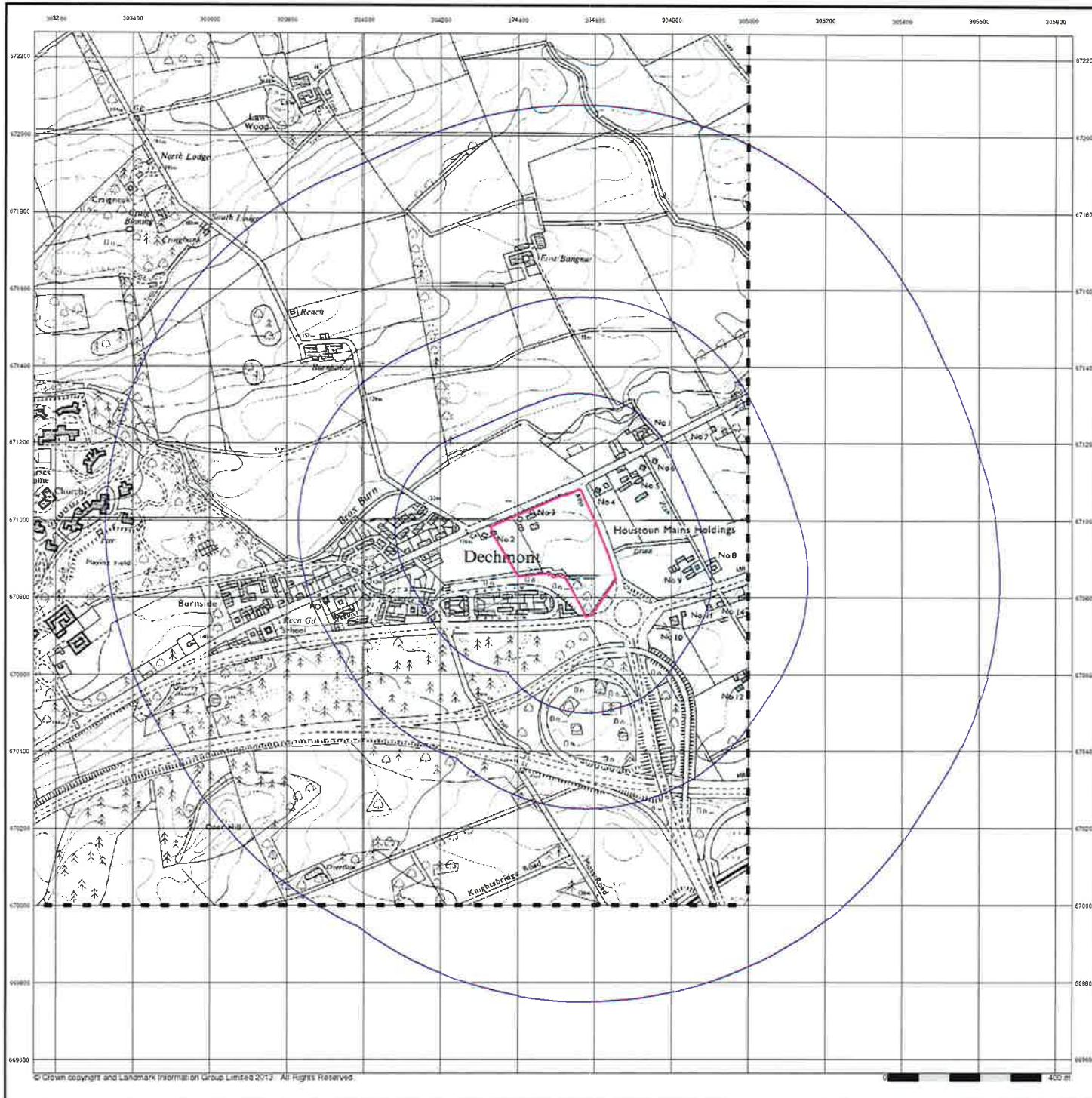


Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

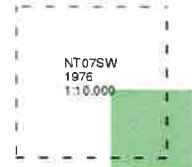
Site Details
 Site at 304460, 670950



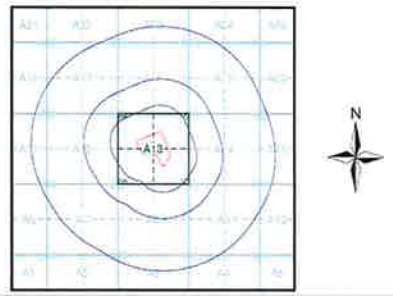
**Ordnance Survey Plan
Published 1976
Source map scale - 1:10,000**

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)

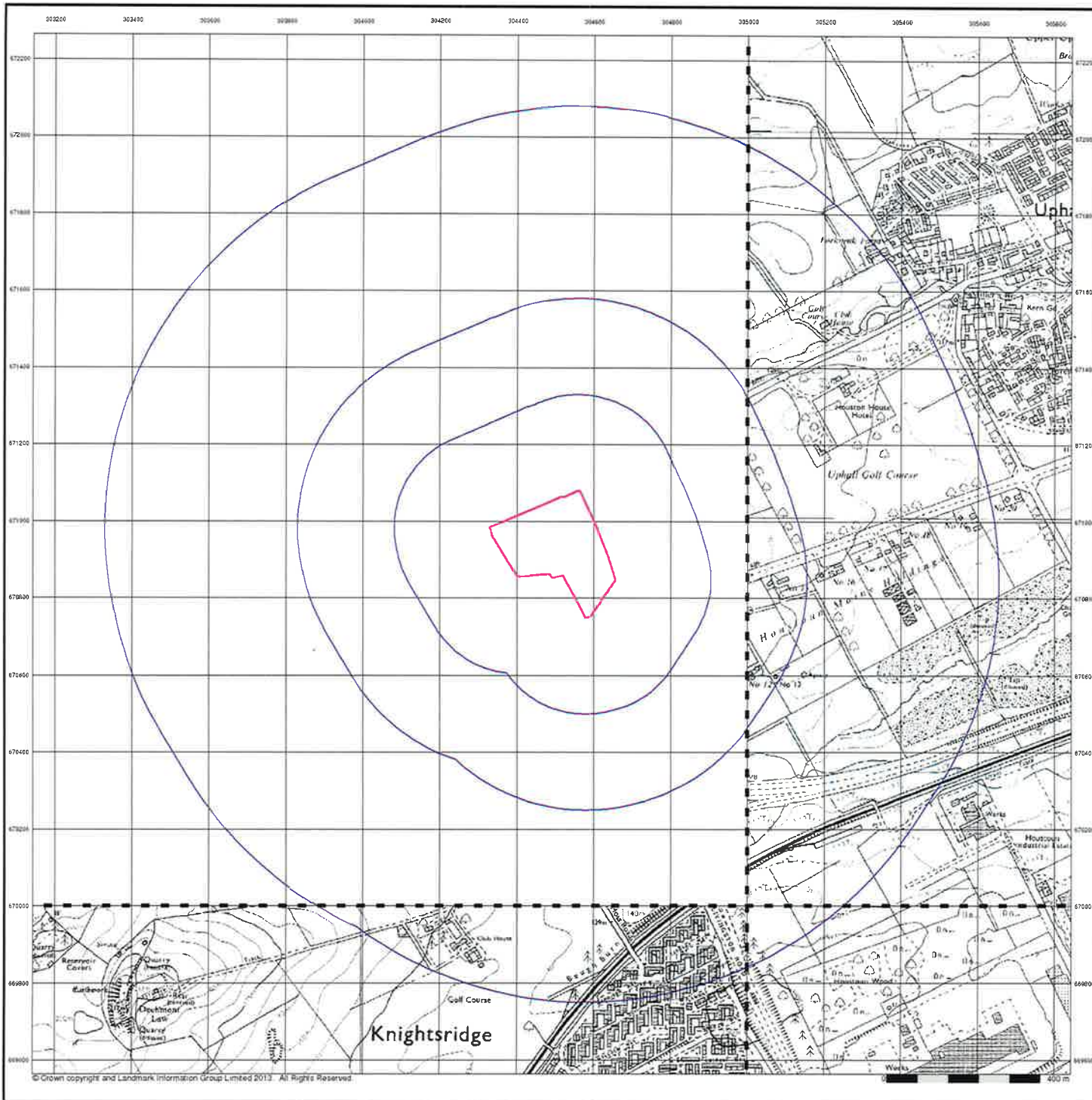


Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details
 Site at 304460, 670950



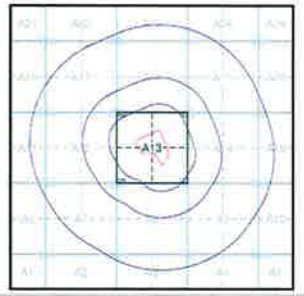
**Ordnance Survey Plan
Published 1983 - 1984
Source map scale - 1:10,000**

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)

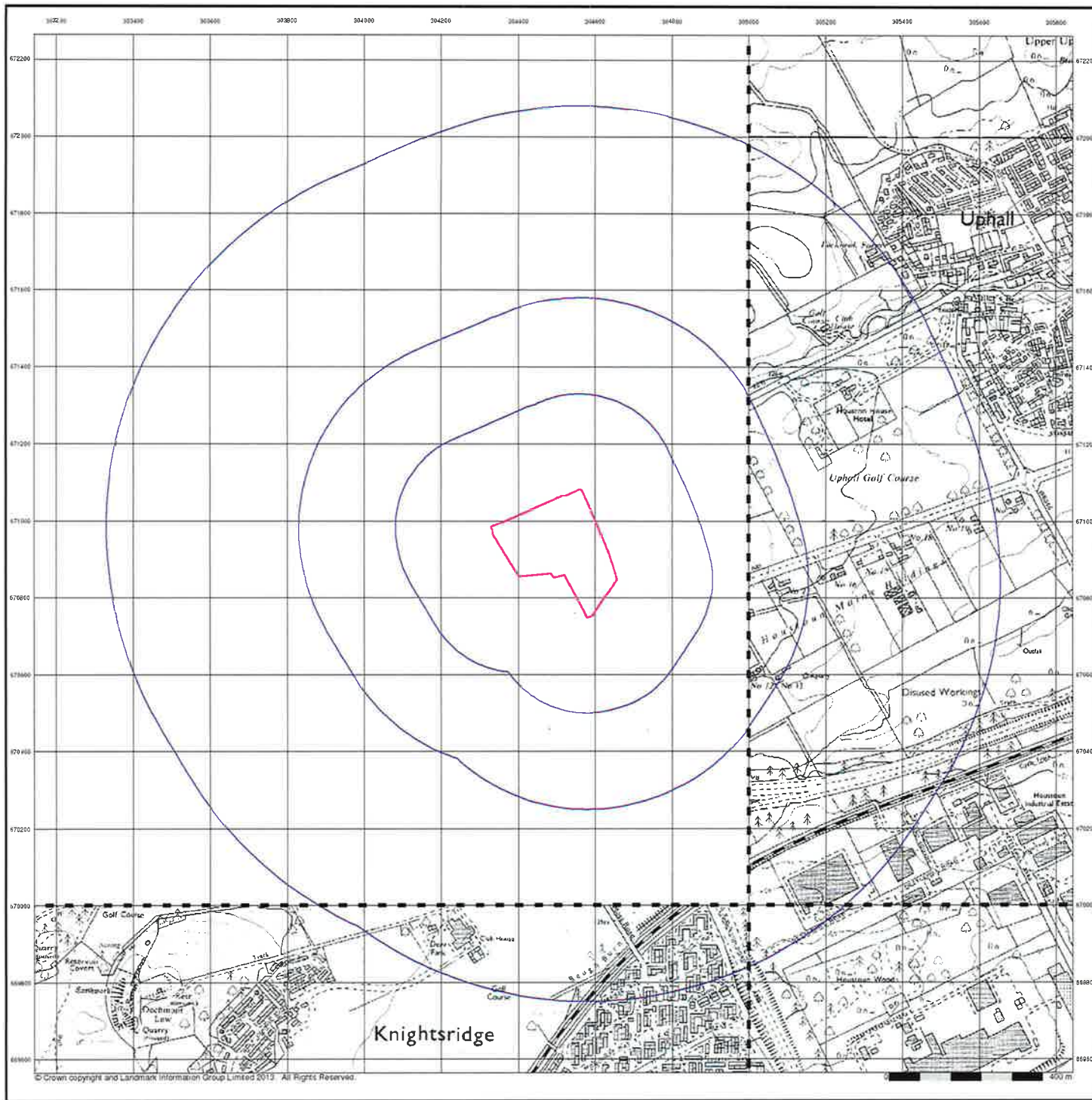
NT07SE	1983	1:10,000
NT06NW	1984	1:10,000
NT06NE	1984	1:10,000

Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details
 Site at 304460, 670950



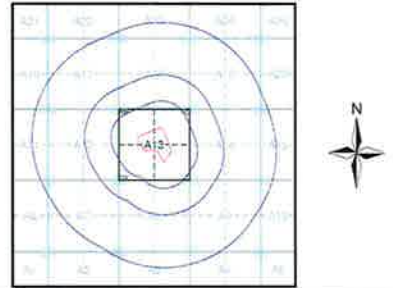
**Ordnance Survey Plan
Published 1991 - 1995
Source map scale - 1:10,000**

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 1838, 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)

	NT07SE	
	1995	
	1:10,000	
1		
NT06NW	NT06NE	
1992	1991	
1:10,000	1:10,000	

Historical Map - Slice A

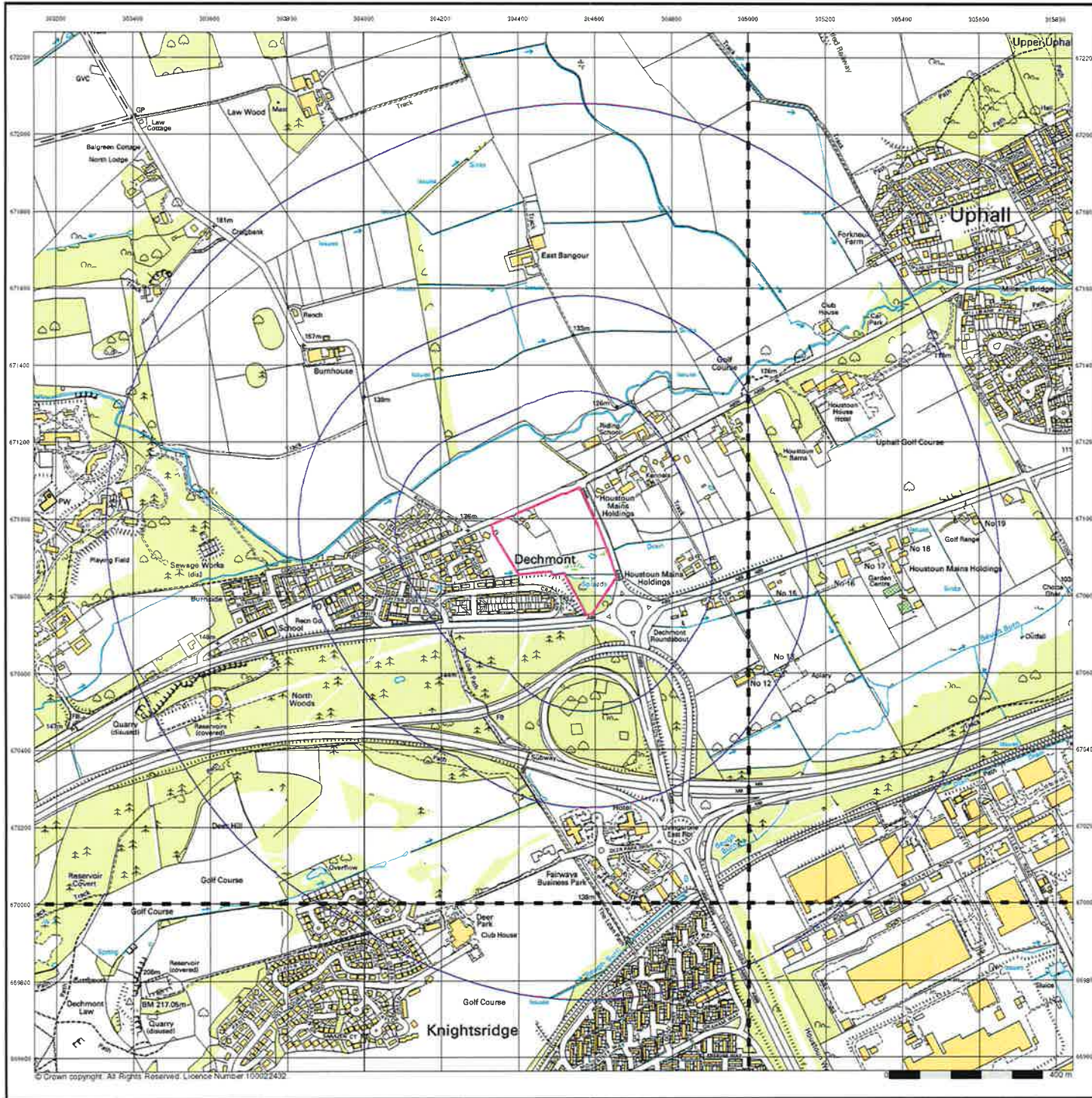


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details

Site at 304460, 670950



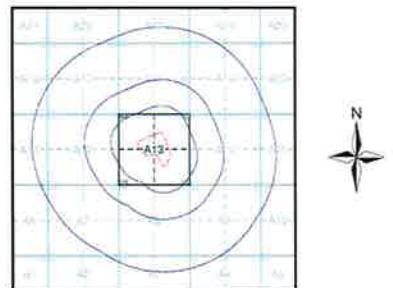
10k Raster Mapping
Published 2006
Source map scale - 1:10,000

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)

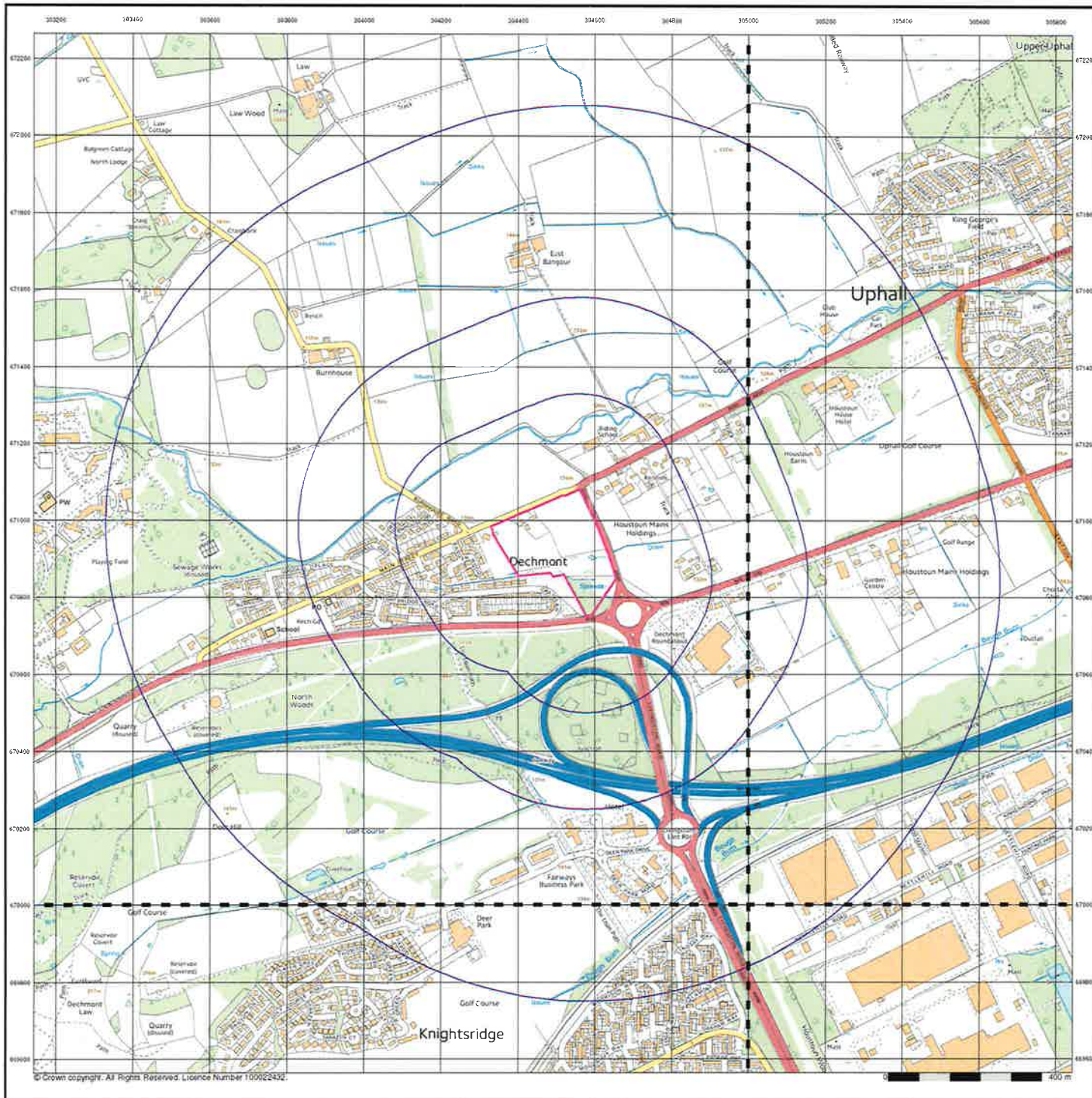
NT075W	NT075E
2006	2006
1:10,000	1:10,000
NT06NW	NT06NE
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details
 Site at 304460, 670950



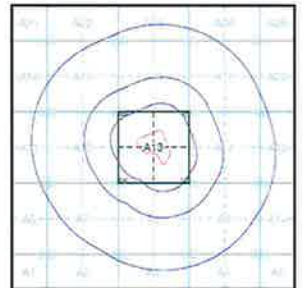
VectorMap Local
Published 2014
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10,000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)

NT07SW 2014 Variable	NT07SE 2014 Variable
NT06NW 2014 Variable	NT06NE 2014 Variable

Historical Map - Slice A



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 1000

Site Details
 Site at 304460, 670950

© Crown copyright. All Rights Reserved. Licence Number 10002432.

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 **Altitude at Trig. Station**
B.M. 325.9 **Bench Mark** **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)
County Burgh Boundary (Scotland)
Boundary Post or Stone **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** **T.** **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 **B.M.** **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
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**
EIP **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, W/T** **Water Point, Water Tap**
MS **Mile Stone** **W** **Well**
NTL **Normal Tidal Limit** **Wd Pp** **Wind Pump**

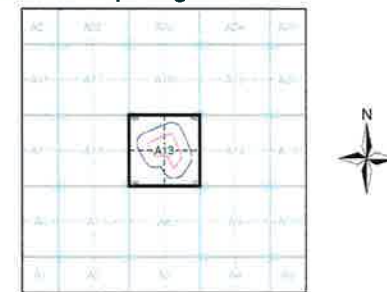
Large-Scale National Grid Data 1:2,500 and 1:1,250

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**
B.M. 231.6m **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**
Cla **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**
EIP **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, W/T** **Water Point, Water Tap**
MH **Manhole** **Wks** **Works (building or area)**
MP, MS **Mile Post or Mile Stone** **W** **Well**

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Linlithgowshire	1:2,500	1856	2
Linlithgowshire	1:2,500	1856	3
Linlithgowshire	1:2,500	1856	4
Linlithgowshire	1:2,500	1897	5
Linlithgowshire	1:2,500	1915	6
Ordnance Survey Plan	1:2,500	1855	7
Ordnance Survey Plan	1:2,500	1961 - 1972	8
Supply of Unpublished Survey Information	1:2,500	1975	9
Ordnance Survey Plan	1:2,500	1976	10
Additional SIMs	1:2,500	1990	11
Additional SIMs	1:2,500	1991	12
Large-Scale National Grid Data	1:2,500	1992	13
Large-Scale National Grid Data	1:2,500	1995	14
Large-Scale National Grid Data	1:2,500	1996	15
Large-Scale National Grid Data	1:2,500	1996	16

Historical Map - Segment A13

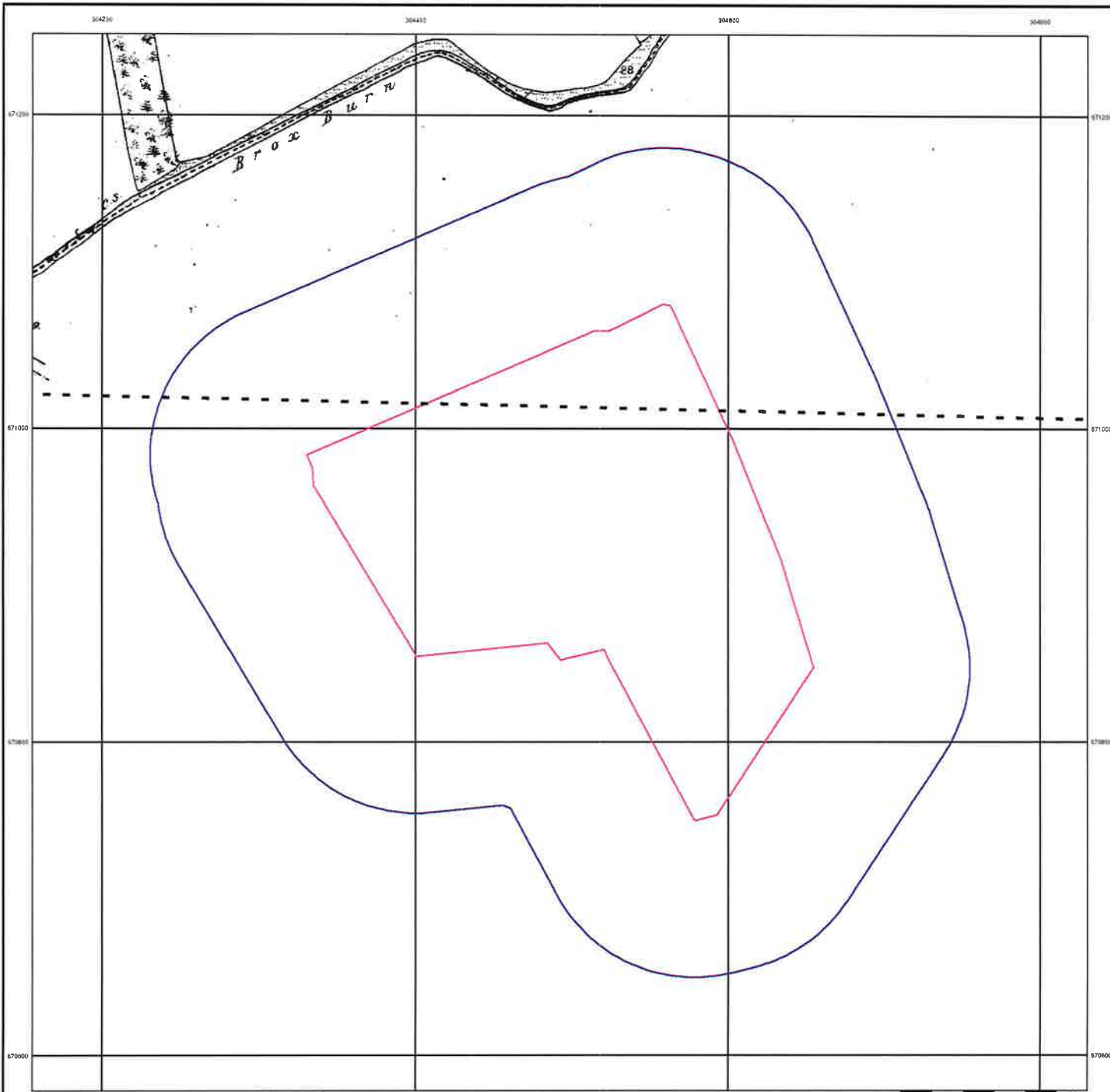


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

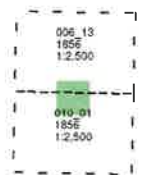
Site at 304460, 670950



**Linlithgowshire
Published 1856
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 1936, 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)

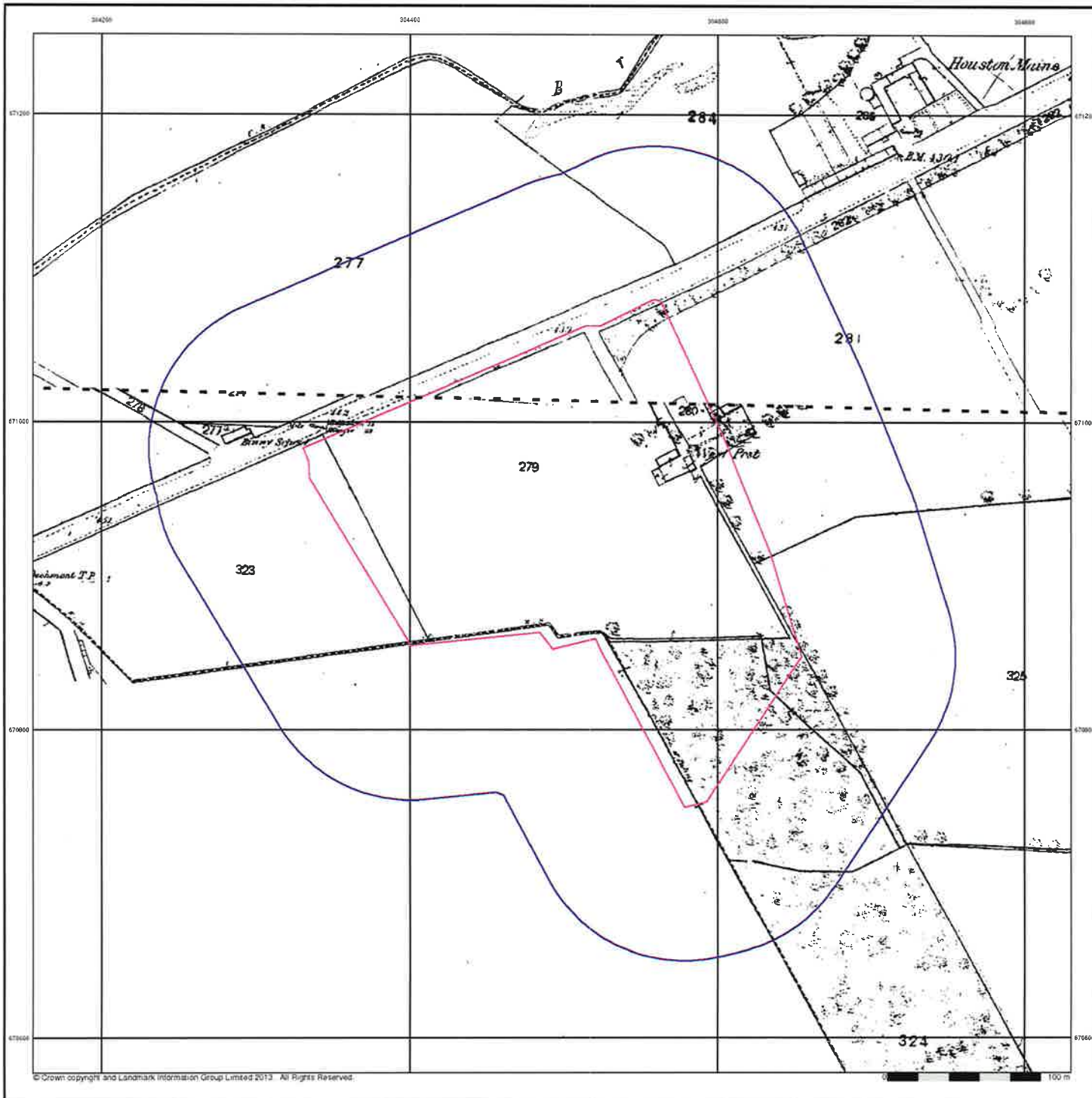


Historical Map - Segment A13



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

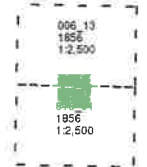
Site Details
 Site at 304460, 670950



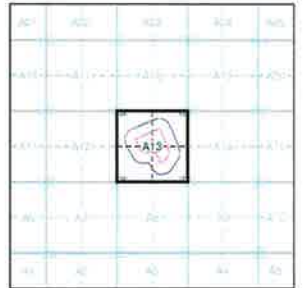
**Linlithgowshire
Published 1856
Source map scale - 1:2,500**

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 1936, 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

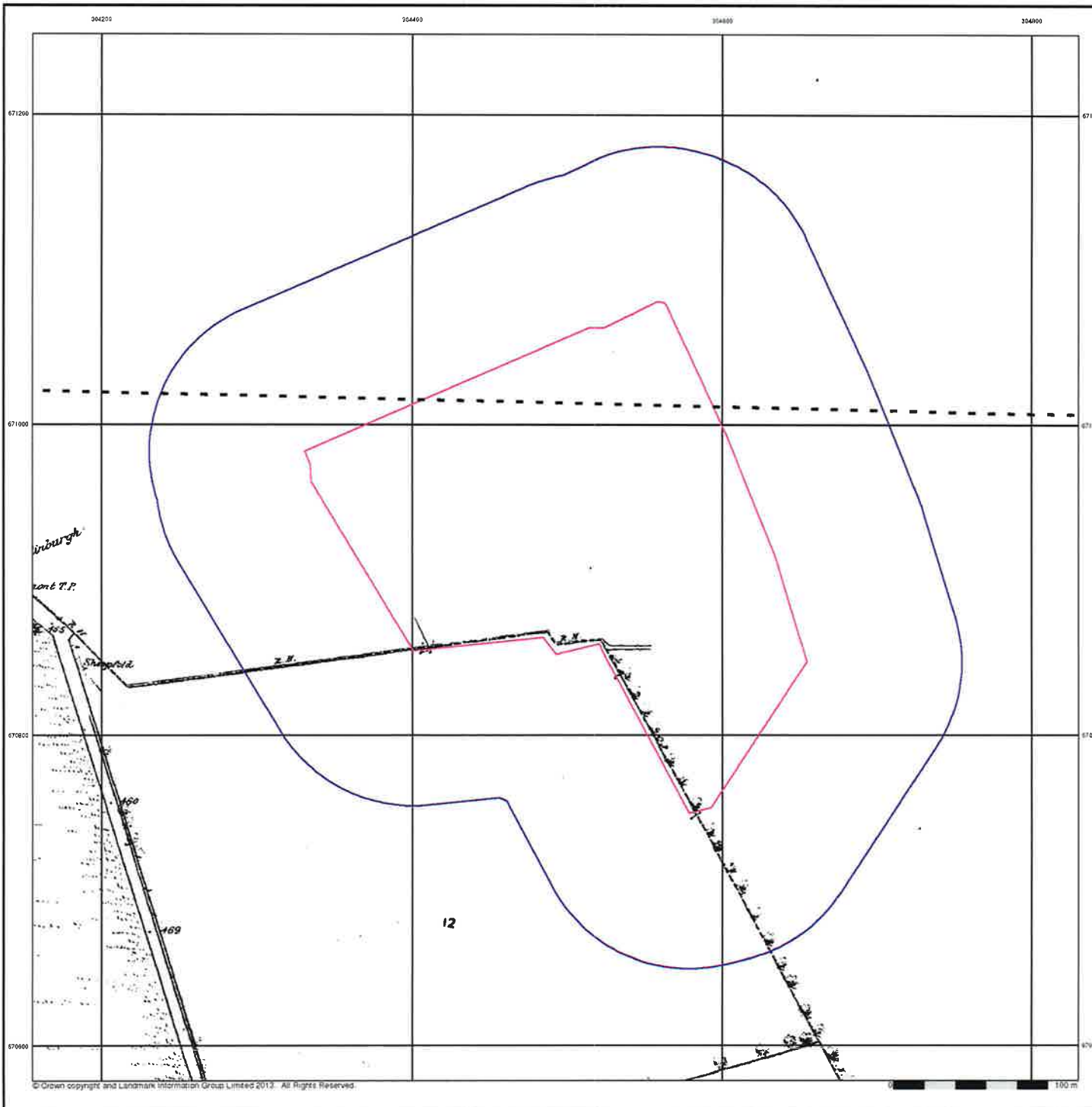


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950



**Linlithgowshire
Published 1856**

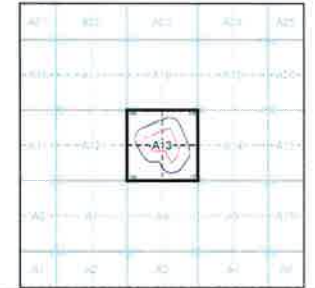
Source map scale - 1:2,500

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 1939, 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



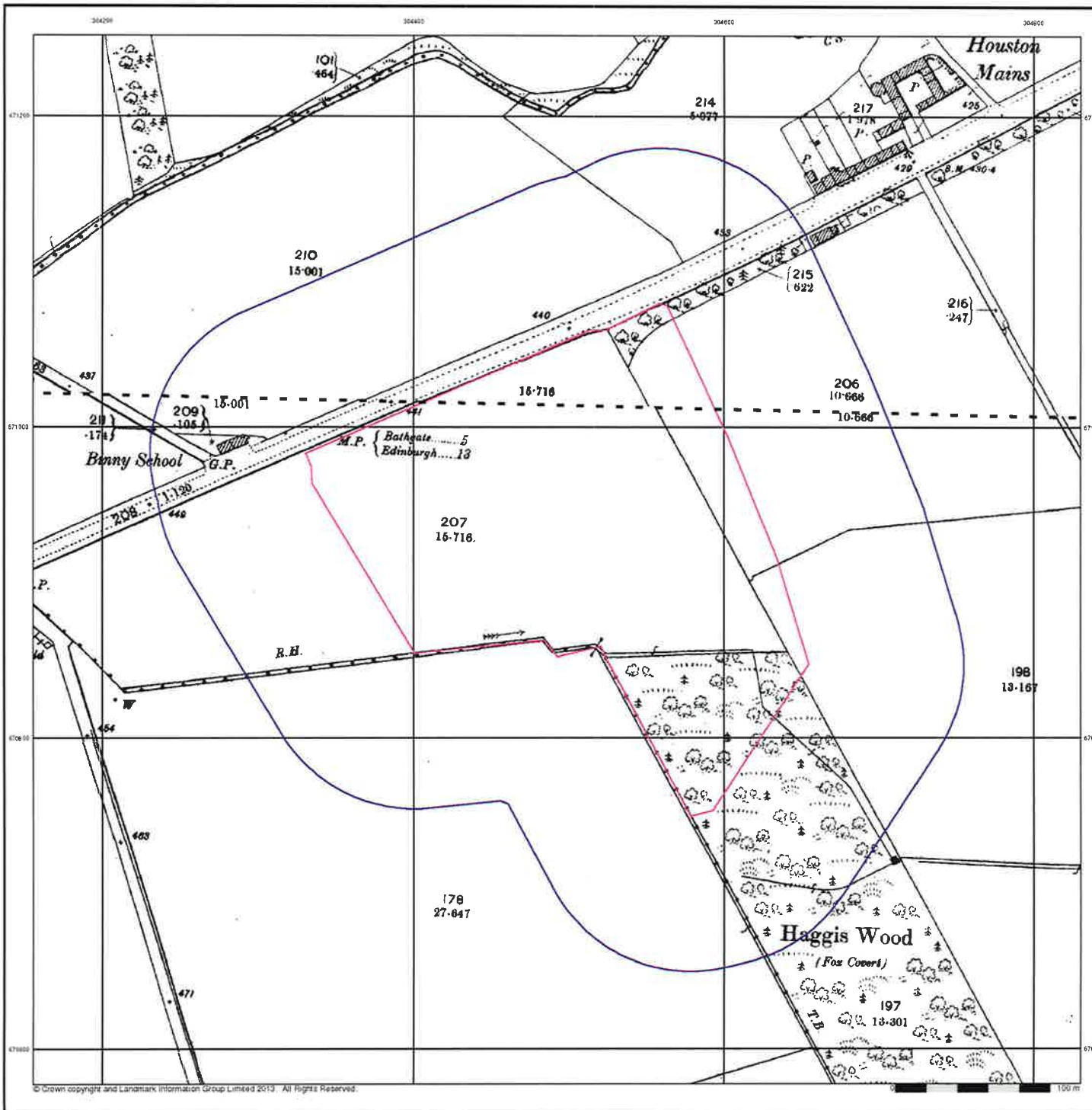
Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950

© Crown copyright and Landmark Information Group Limited 2013. All Rights Reserved.



**Linlithgowshire
Published 1897**

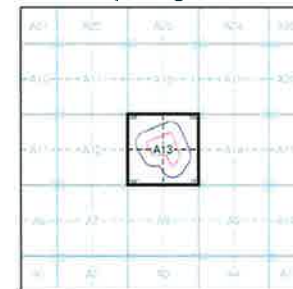
Source map scale - 1:2,500

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)

006-13
1897
1:2,500
013-01
1897
1:2,500

Historical Map - Segment A13

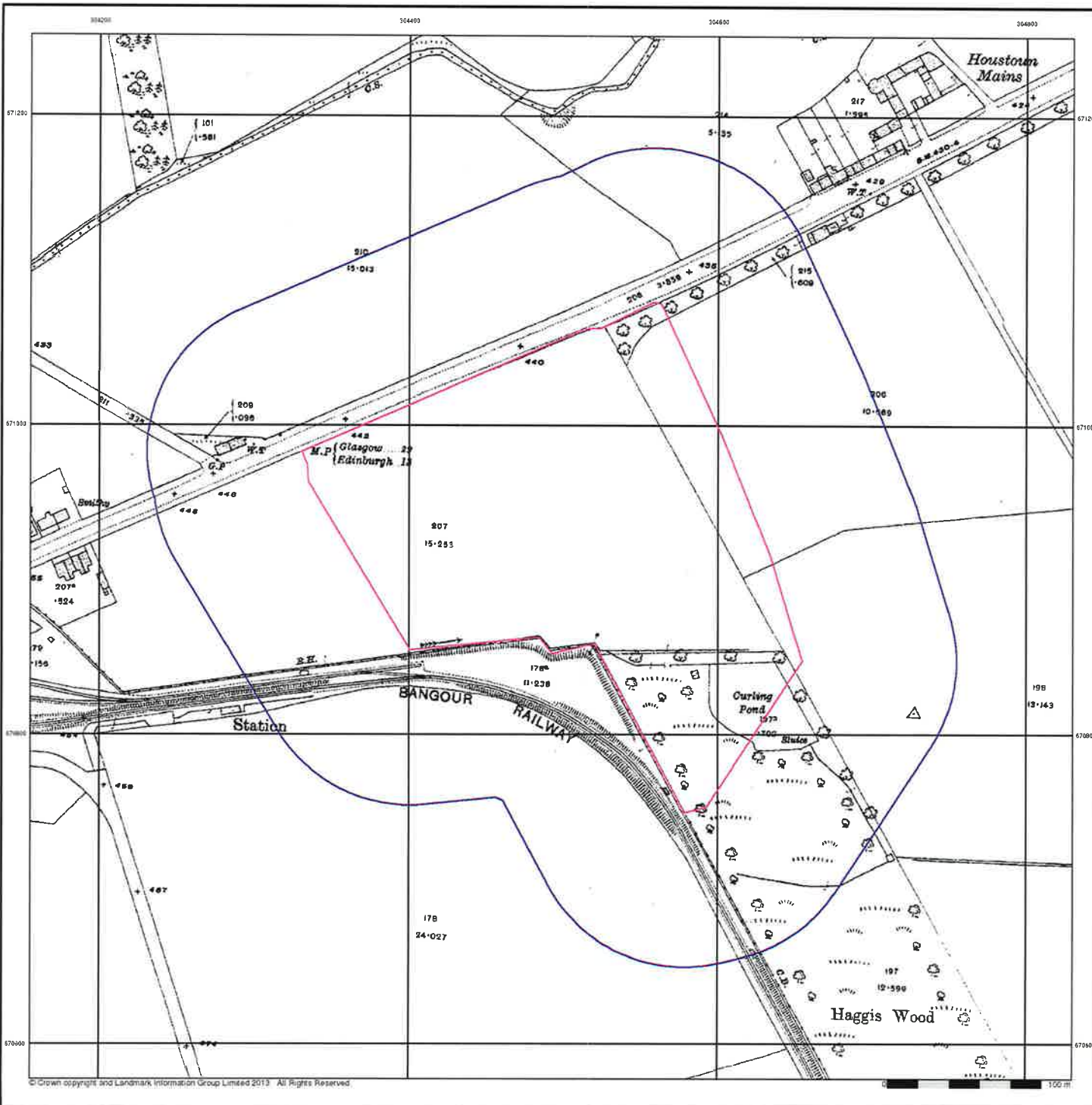


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

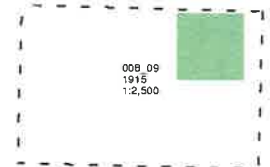
Site at 304460, 670950



**Linlithgowshire
Published 1915
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)

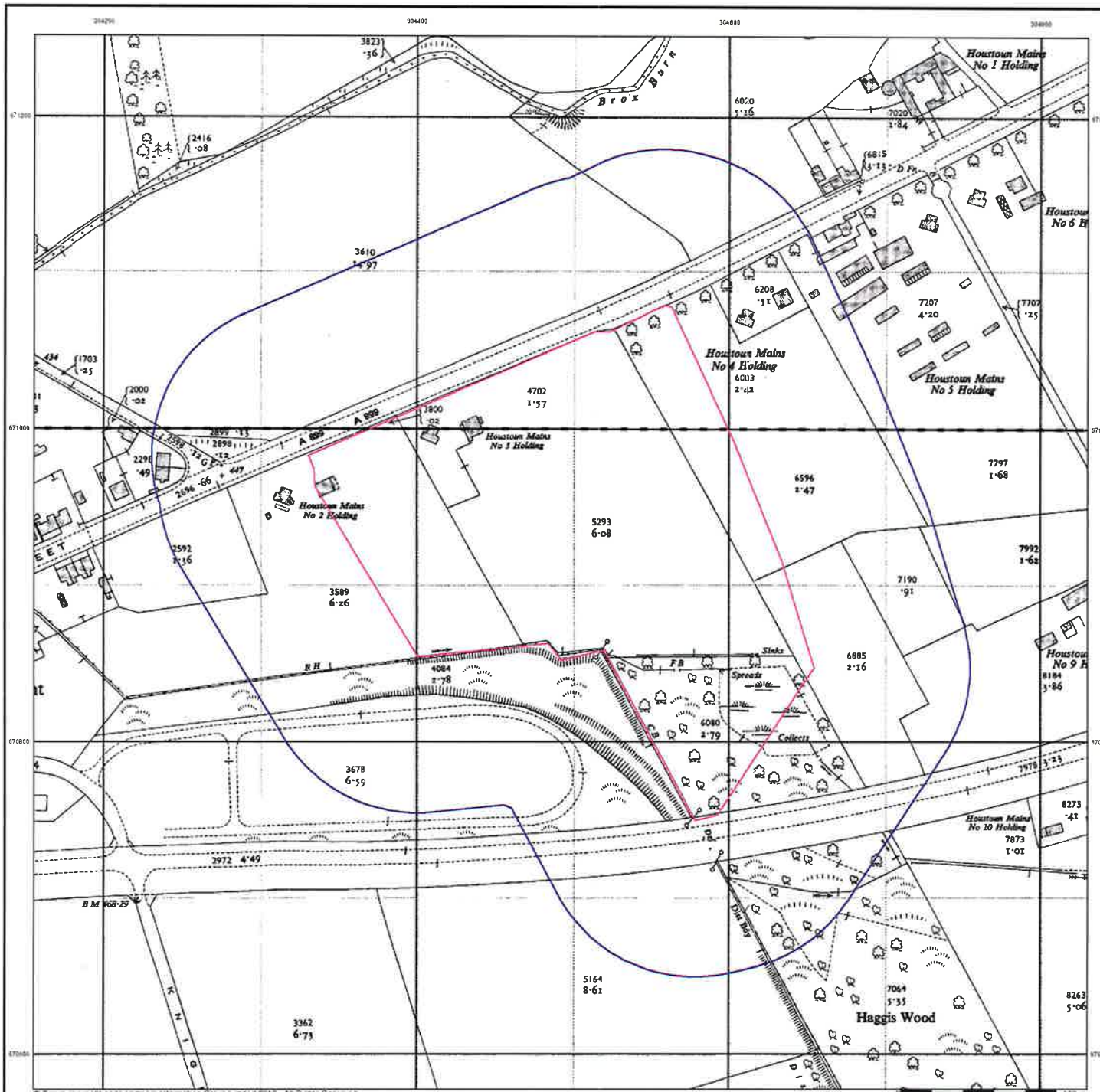


Historical Map - Segment A13



Order Details
 Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details
 Site at 304460, 670950



**Ordnance Survey Plan
Published 1955
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 1840s. 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)

NT0471	1955	1:2,500
NT0470	1955	1:2,500

Historical Map - Segment A13

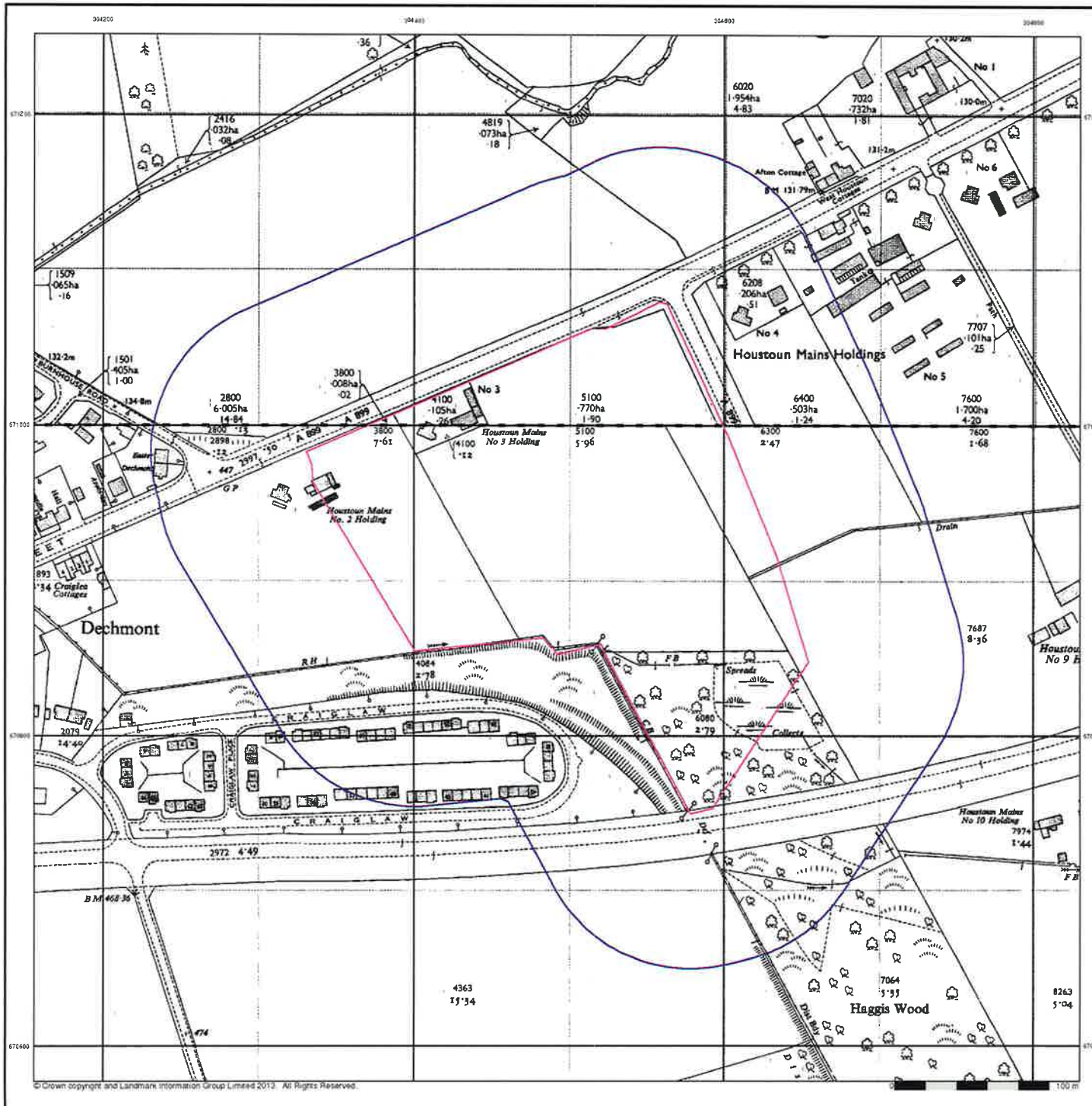


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950



**Ordnance Survey Plan
Published 1961 - 1972**

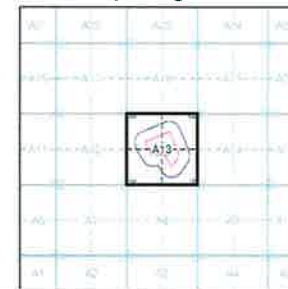
Source map scale - 1:2,500

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)

NT0471	1972	1:2,500
NT0470	1961	1:2,500

Historical Map - Segment A13

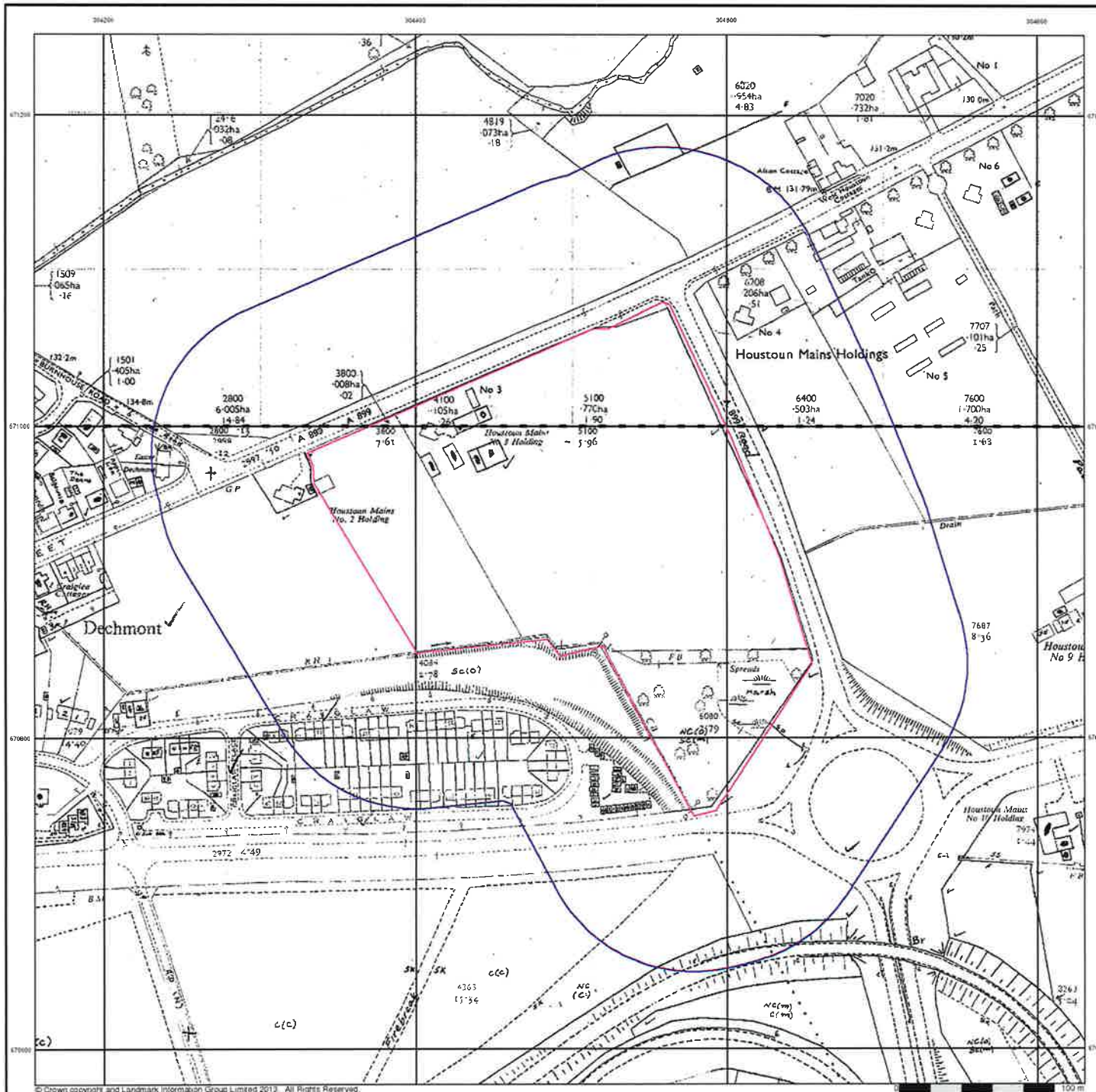


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

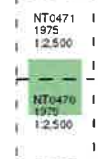
Site at 304460, 670950



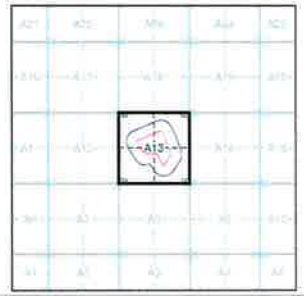
Supply of Unpublished Survey Information
Published 1975
Source map scale - 1:2,500

SUSI maps (Supply of Unpublished Survey Information) were produced between 1972 and 1977, mainly for internal use at Ordnance Survey. These were more of a 'work-in-progress' plan as they showed updates of individual areas on a map. These maps were unpublished, and they do not represent a single moment in time. They were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



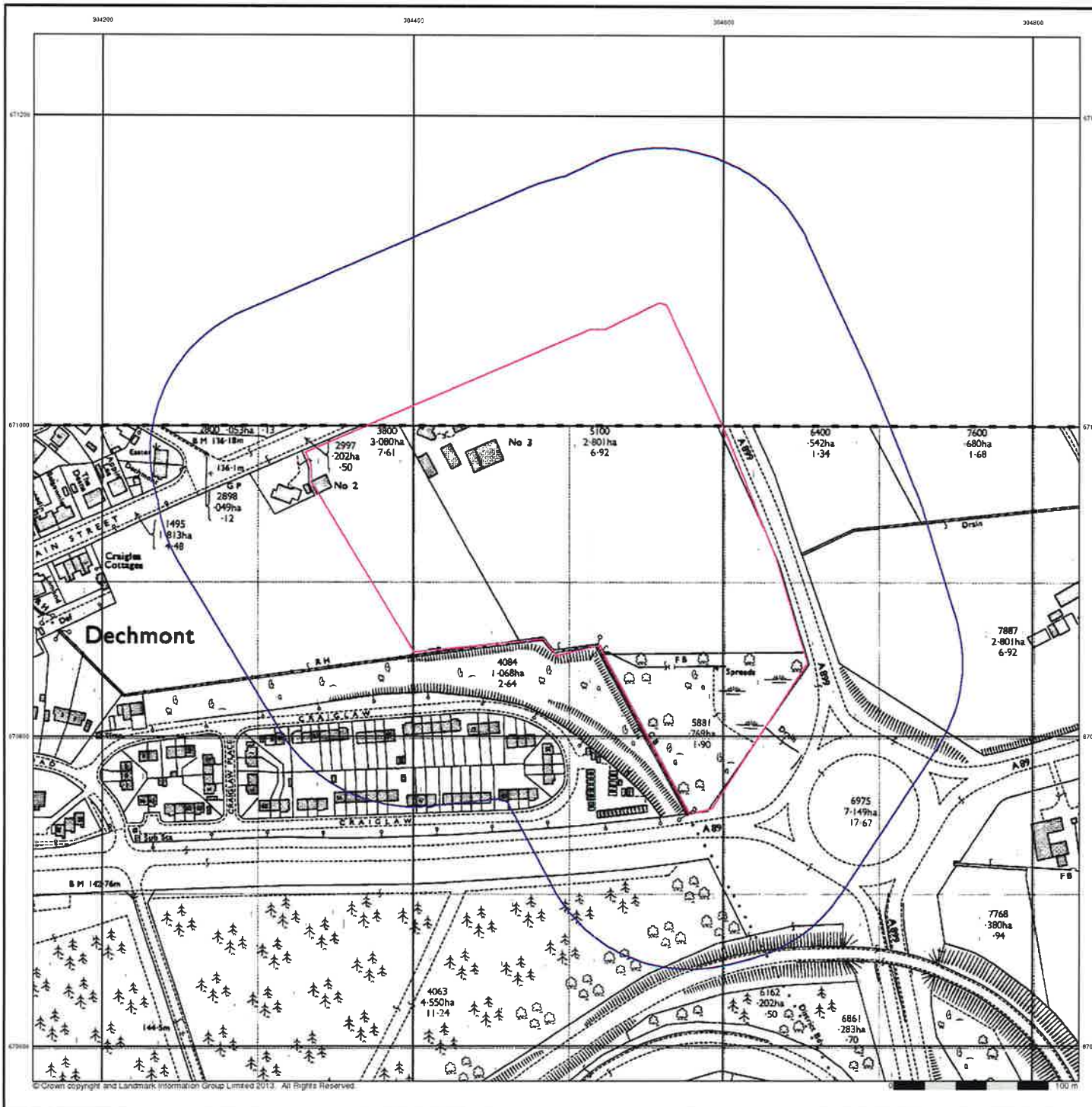
Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950

© Crown copyrights and Landmark Information Group Limited 2013. All Rights Reserved.

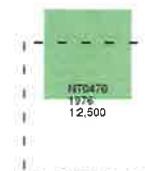


**Ordnance Survey Plan
Published 1976**

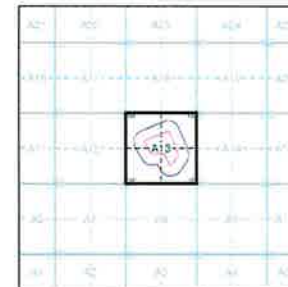
Source map scale - 1:2,500

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

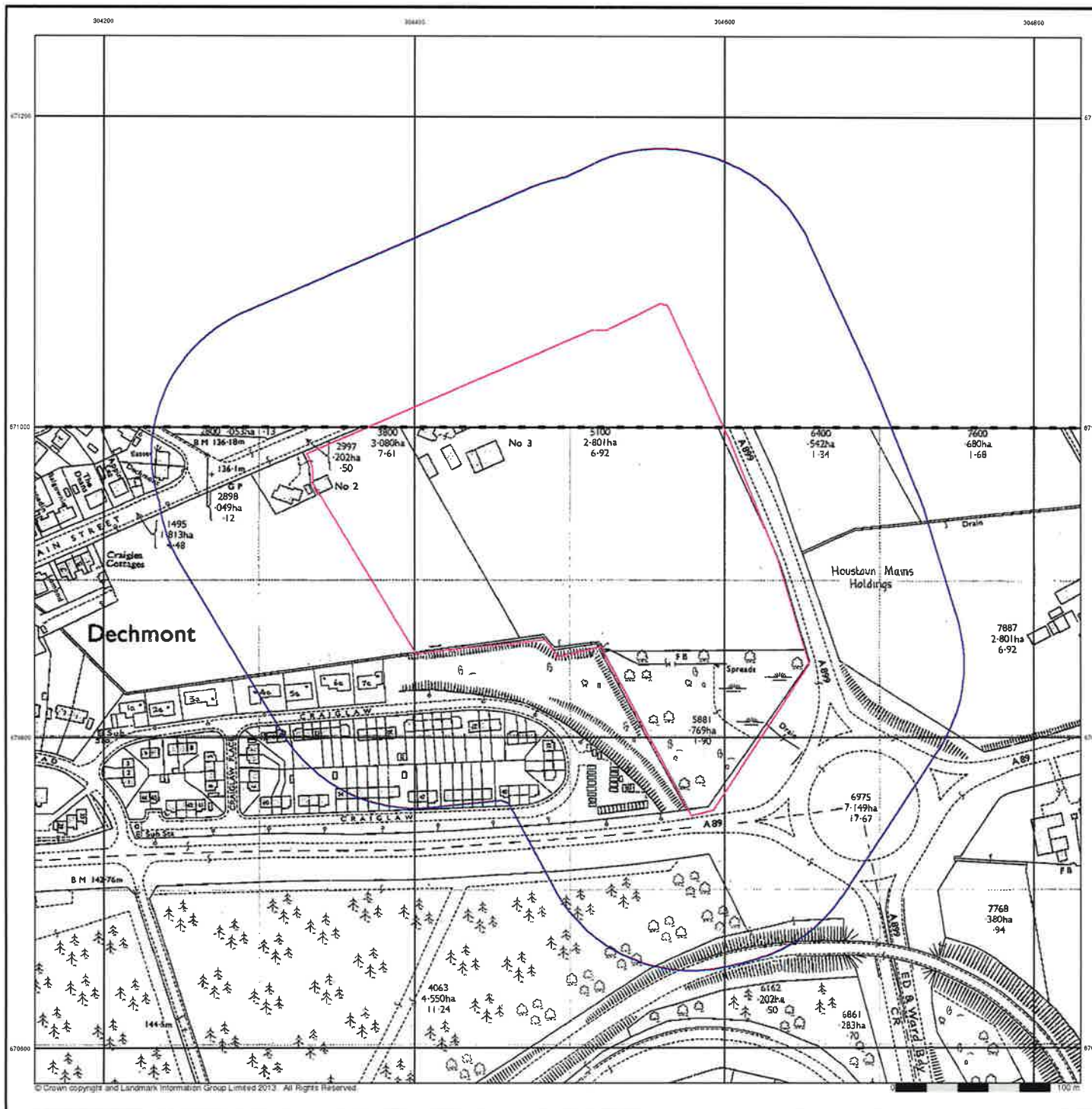


Order Details

Order Number: 55645951_1_1
Customer Ref: G2014/166
National Grid Reference: 304510, 670920
Slice: A
Site Area (Ha): 5.57
Search Buffer (m): 100

Site Details

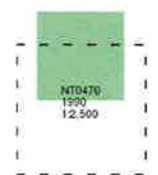
Site at 304460, 670950



**Additional SIMs
Published 1990
Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

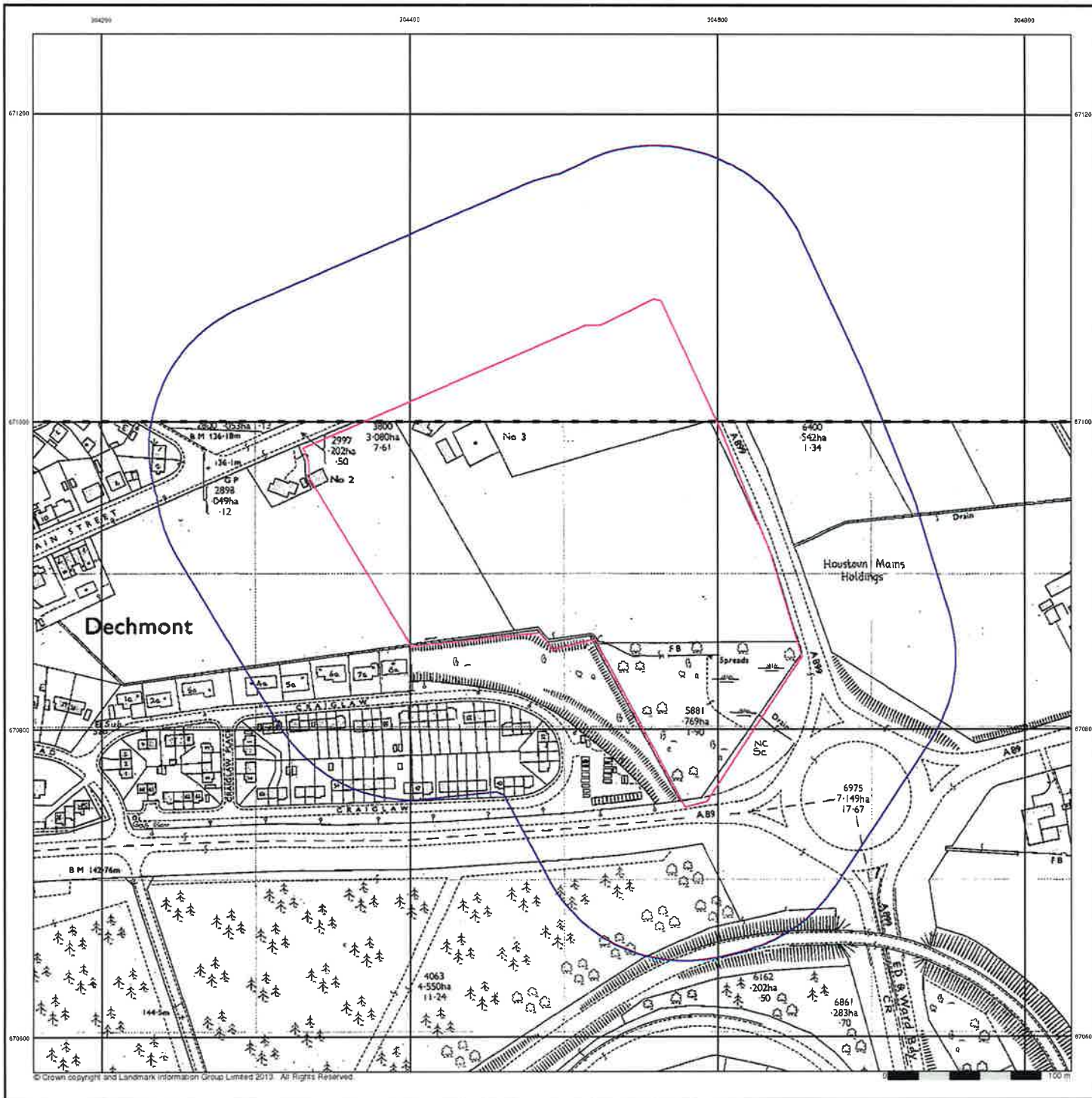


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

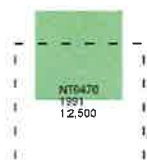
Site at 304460, 670950



**Additional SIMs
Published 1991
Source map scale - 1:2,500**

The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

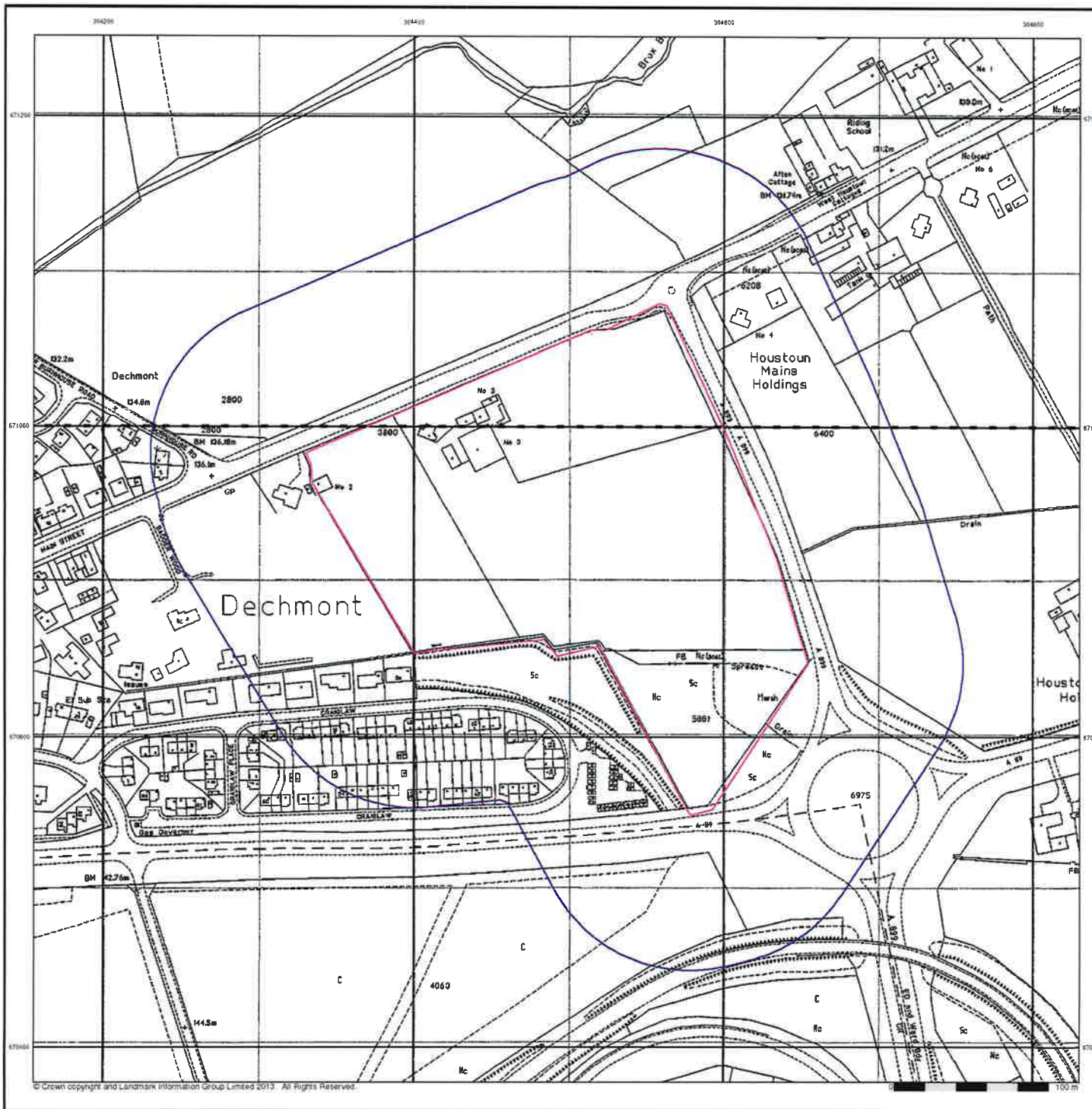


Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950



**Large-Scale National Grid Data
Published 1992**

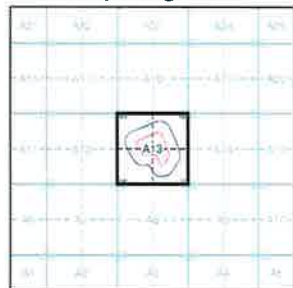
Source map scale - 1:2,500

'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)

NT0471	1992	1:2,500
NT0470	1992	1:2,500

Historical Map - Segment A13



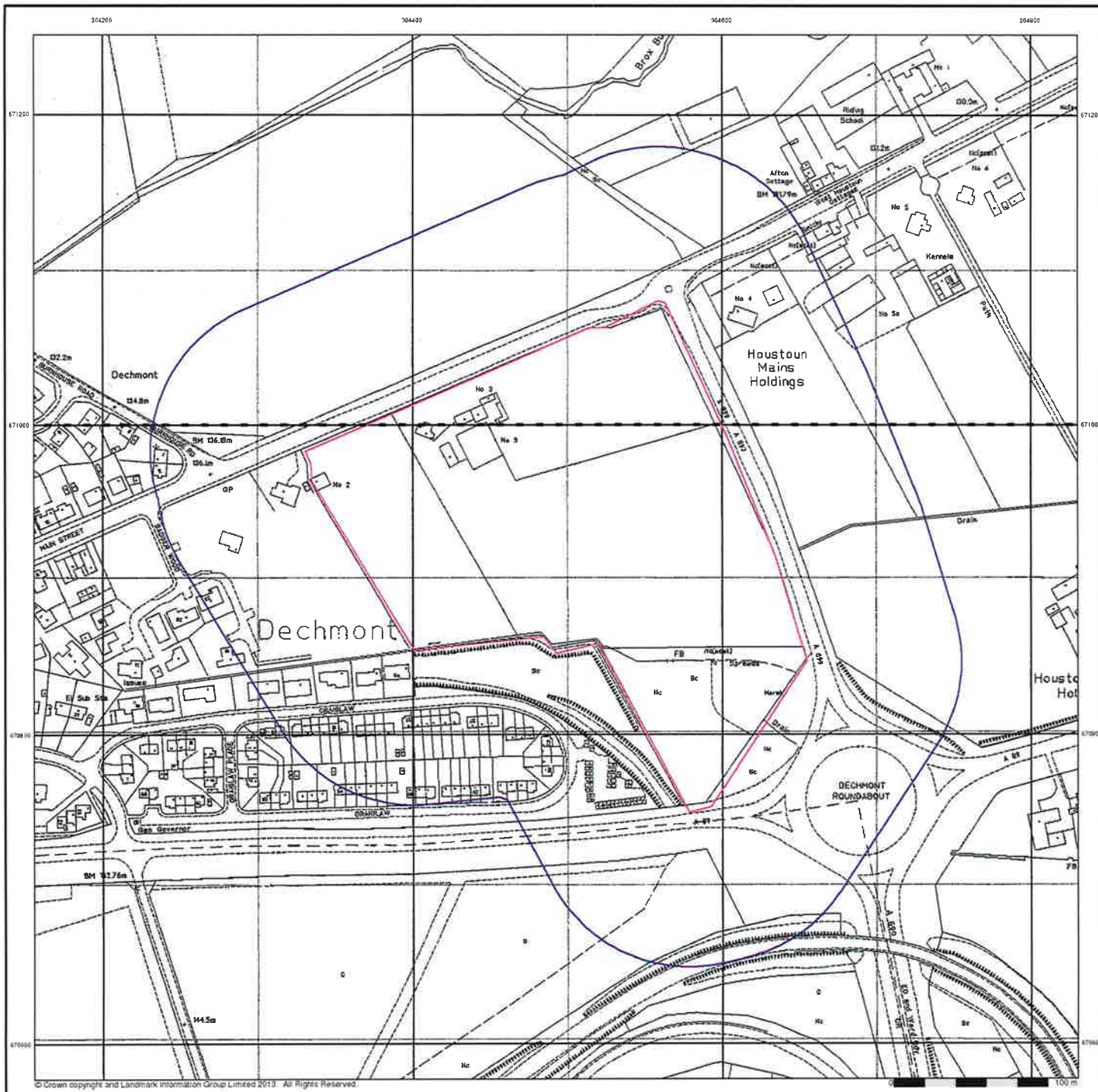
Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950

© Crown copyright and Landmark Information Group Limited 2013. All Rights Reserved.



**Large-Scale National Grid Data
Published 1995**

Source map scale - 1:2,500

'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)

NTC471	1995	1:2,500
NTC470	1995	1:2,500

Historical Map - Segment A13



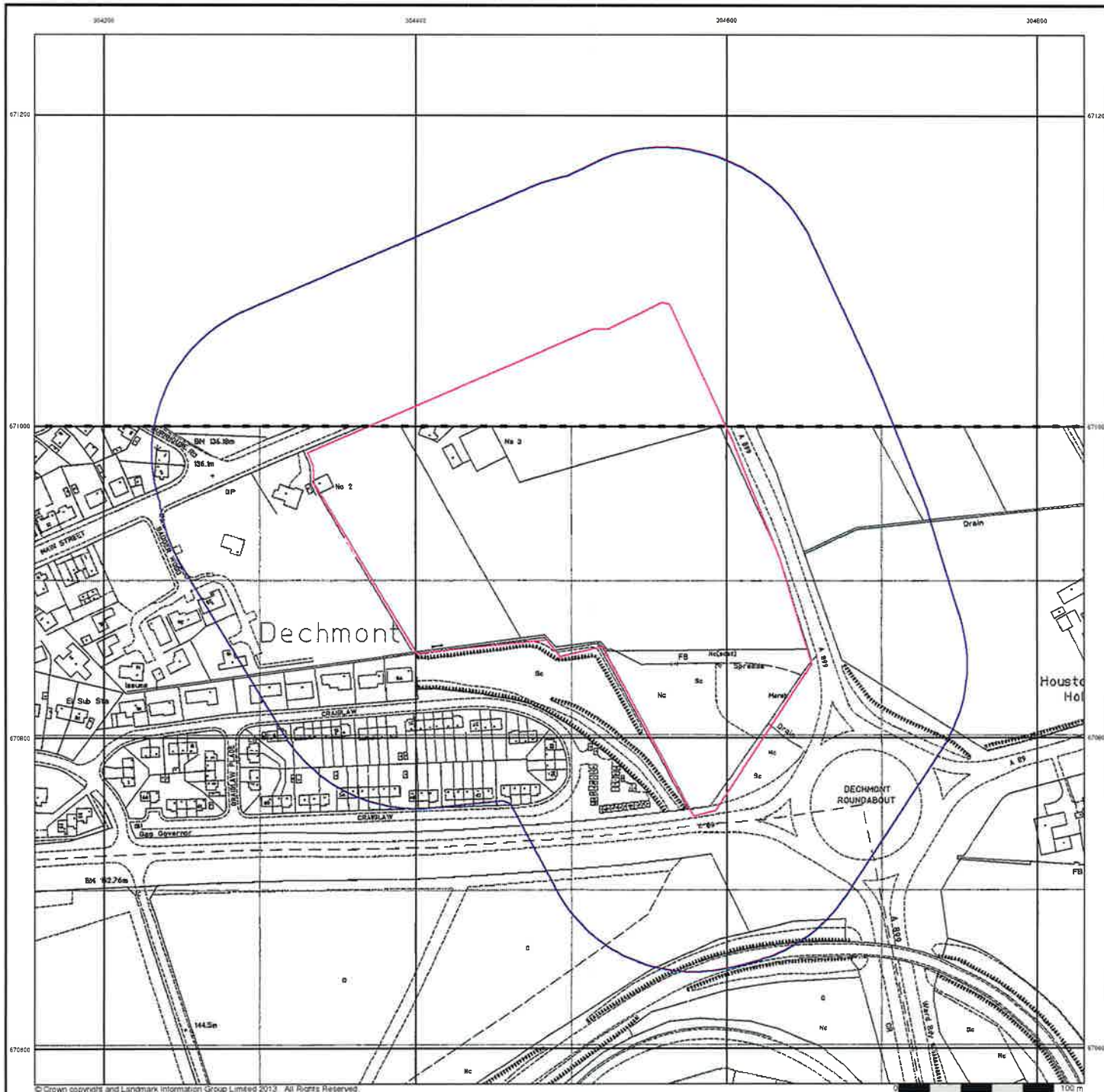
Order Details

Order Number: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950

© Crown copyright and Landmark Information Group Limited 2013. All Rights Reserved.

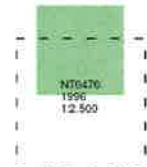


**Large-Scale National Grid Data
Published 1996**

Source map scale - 1:2,500

'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: 55645951_1_1
 Customer Ref: G2014/166
 National Grid Reference: 304510, 670920
 Slice: A
 Site Area (Ha): 5.57
 Search Buffer (m): 100

Site Details

Site at 304460, 670950

