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Hensingham House, Whitehaven

Phase 1 Desk Study

Thomas Milburn (Property) Limited



Contents

1	Introduction	1
1.1	<i>Terms of Reference</i>	1
1.2	<i>Desk Study Requirements</i>	1
1.3	<i>Sources of Information</i>	2
2	The Site	2
2.1	<i>Site Location</i>	2
2.2	<i>Site Description</i>	2
3	Development Proposals	4
3.1	<i>Structures</i>	4
4	Ground Conditions	4
4.1	<i>Geology</i>	4
4.2	<i>Hydrogeology</i>	5
4.3	<i>Coal Mining</i>	5
5	Site History	5
5.1	<i>Historical Maps</i>	5
6	Environmental Data	6
6.1	<i>Flooding</i>	6
6.2	<i>Landfill and Waste</i>	6
6.3	<i>Radon</i>	7
6.4	<i>Environmental Designations</i>	7
7	Hazard Assessment	7
7.1	<i>Sources</i>	7
7.2	<i>Pathways and Receptors</i>	8
7.3	<i>Conceptual Model and Qualitative Risk Assessment</i>	8
7.4	<i>Contaminant Source: Farmyard Activities</i>	9
7.5	<i>Contaminant Source: Asbestos Fibres</i>	12
7.6	<i>Uncertainties</i>	12

8	Summary and Recommendations	12
	8.1 Summary	12
	8.2 Recommendations	13
	 Figures	
1	Site Location Map	
2	Site Plan	
3	Phase 1 Development Proposals	
4 - 7	Site Photographs	
	 Appendices	
A	Development Proposals	
B	Historical Ordnance Survey Maps	
C	Groundsure Enviro Insight Report	
D	Radon Report	
E	Risk Assessment Method	

1 Introduction

1.1 Terms of Reference

- 1.1.1 At the request of David Shankland, and on behalf of Thomas Milburn (Property) Ltd, a Phase 1 Desk Study has been undertaken for the redevelopment of Hensingham House, Whitehaven.
- 1.1.2 The redevelopment of Hensingham House is the first of three phases of development. Phases 2 and 3 extend to undeveloped areas to the west of the house and will be the subject of separate desk studies.

1.2 Desk Study Requirements

- 1.2.1 The UK approach to managing contaminated land is risk-based. Risk management principles underlie the legislative requirements of Part IIA of the Environmental Protection Act and the 'suitable for use' approach used in planning and development control.
- 1.2.2 The process of identifying, estimating and evaluating the risks associated with contaminated land was originally described in the Model Procedures for the Management of Contaminated Land (Environment Agency 2004). This has now been replaced with new guidance from the Environment Agency in the form of the online publication 'Land Contamination Risk Management' (LCRM) which was first published on the gov.uk website in October 2020. LCRM describes three tiers of risk assessment comprising (i) Preliminary Risk Assessment, (ii) Generic Quantitative Risk Assessment and (iii) Detailed Quantitative Risk Assessment. The desk study forms part of the preliminary risk assessment (Tier 1), the aim of which is to identify and assess potential hazards that could be present on a particular site.
- 1.2.3 The steps involved in the desk study are described below, and are based on the concept of identifying a pollutant linkage that connects a pollutant *source*, via a *pathway* to a *receptor* (for example people, buildings, rivers):
 - (i) Gathering of information about a site to determine its industrial past, or discover other uses or location-specific factors that might have led to contamination, and to obtain other physical information including geology and hydrogeology.

- (ii) Identification of contaminants associated with former uses of the site or its geographical location, and the development of a list of those to be investigated.
- (iii) Identification of receptors that could be at risk from exposure to contaminants.
- (iv) Identification of pathways through which exposures could occur.
- (v) Development of a conceptual model describing plausible pollutant linkages.
- (vi) Hazard assessment.

1.3 Sources of information

1.3.1 The desk study is based on the following sources of information;

- Historical Ordnance Survey Maps (Appendix B)
- Groundsure Enviro and Geo Insight Report (Appendix C)
- Site visit 16th December 2021

1.3.2 The source information, including the historical maps and the Groundsure report, cover all three phases of the Hensingham development.

2 The Site

2.1 Site Location

2.1.1 The site is located on the west side of Egremont Road in Hensingham which is 1.2 miles south-east of Whitehaven town centre (Figure 1). The national grid reference of the site is NX 985 167, and the postcode is CA28 8QB.

2.2 Site Description

2.2.1 The Phase 1 site forms a square shaped plot of 45 m x 45 m with an extra rectangular shaped parcel of land adjoining the north west corner measuring 20 m (east to west) x 15 m (north to south) (Figure 2).

- 2.2.2 The site is bounded to the east by Egremont Road. The western site boundary, although not currently defined, runs through the former garden areas of the residential properties that are being redeveloped. The southern site boundary is shared with a detached residential property (Georgian House). The northern site boundary is shared with adjoining residential buildings and the southern side of Hensingham Court.
- 2.2.3 The main part of the site can be divided into two halves with residential buildings to the east and garden areas to the west. The adjoining plot to the north west is largely undeveloped, but includes a storage barn on the east side. Photographs of the site are included in Figures 4 – 7.
- 2.2.4 The residential buildings comprise two large Georgian or early Victorian two-storey dwellings, with the northern property divided into a number of individual flats. At the time of the site visit in December 2021 renovation work was currently under way with builders working on all parts of the residential buildings.
- 2.2.5 With reference to the current site plan in Figure 2, it is evident that some demolition work had already been undertaken including the six lock-up garages on the west side of the site (actually part of the Phase 2 development site), an extension on the south elevation of Hensingham House (west end) and older infill extensions on the east side of the south elevation. Scaffolding had been erected across the full width and height of the south elevation (Photos 1 and 2, Figure 4).
- 2.2.6 The north end of the garden area was currently being used by the builders as a waste storage area, which included a skip with stockpiles of demolition and waste materials (brick, masonry, concrete, cement, and mortar) (Photos 3 and 4, Figure 5).
- 2.2.7 The adjoining plot to the north west is separated from the garden area by brick and masonry walls. The enclosed area is densely overgrown with brambles, shrubs and small trees. On the east side of this plot there is a two-storey semi-detached storage barn with a pitched slate roof. The west gable of the barn is heavily overgrown with mature trees and ivy, and access into the barn could not be gained. A faded sign on the north elevation of the barn indicates that it had been used as a builder's workshop. The access into Hensingham Court alongside the north elevation of the barn is fenced off with galvanized steel fencing (Photos 6 and 7, Figures 6 and 7).

- 2.2.8 Land use in the vicinity of the site is residential to the north, south and east, with untended and overgrown agricultural grazing land to the west. Although the site is situated on a west facing slope, ground levels at the site itself are generally level and stand at an elevation of approximately 88 m OD.
- 2.2.9 An unmetalled track provides vehicular access to the site from Egremont Road.

3 Development Proposal

3.1 Structures

- 3.1.1 The current development plan provided by the Architect for all three phases of development is included in Appendix A. An extract from this plan is given in Figure 3 to illustrate the proposals for Phase 1. This shows Hensingham House and Hensingham Hall being remodelled to provide three residential units with associated car parking and garden areas. The existing and proposed elevations drawing shows how the eastern half of the development will be further subdivided to provide two additional units, House 4 and 5, fronting onto Egremont Road. The existing access will be improved and extended to the north end of the plot to provide a turning area.

4 Ground Conditions

4.1 Geology

- 4.1.1 The 1:50,000 scale geological map (British Geological Survey, Sheet 28, Whitehaven 2004) shows the site to be underlain by mudstones, siltstones and sandstones of Carboniferous age belonging to the Hensingham Grit Formation. There are thin coal seams within this formation, and one such seam, the Bedlam Gill Coal, crops out across the southern part of the site. An east-west trending fault displaces the strata so that on the north side of the fault the Bedlam Gill Coal seam passes beneath the site dipping westwards at a depth of about 20 m.
- 4.1.2 The geological drift map shows the rock strata to be overlain by superficial deposits of glacial till (boulder clay).
- 4.1.3 The borehole archive of the British Geological Survey has been examined, but there are no records of any boreholes drilled on

or close by to the site.

4.2 Hydrogeology

- 4.2.1 The nearest controlled water to the site is an unnamed stream, which flows westwards down the narrow stream valley adjacent to the northern site boundary. Another stream, Snebra Beck, follows a similar route and lies 100 m beyond the northern site boundary (page 40 Appendix C).
- 4.2.2 There are no groundwater source protection zones within the study area. The aquifer designation for the bedrock is 'Secondary A' (formerly classified as minor aquifers), and the designation for the superficial materials is 'Secondary Undifferentiated' (formerly classified as minor or non-aquifer). The groundwater vulnerability classification for the site is 'high'.

4.3 Coal Mining

- 4.3.1 The geological map shows the Bedlam Gill coal seam dipping westwards beneath the northern half of the site. However, the Coal Authority interactive map indicates that the site is not within a development high risk area. There are no mine entries, and no past shallow coal mine workings or probable shallow coal mine workings within influencing distance of the site. The Bedlam Gill Coal is part of the Hensingham Group which lies beneath the productive Coal Measures. The geological memoir (Akhurst et.al., 1997, Geology of the West Cumbria District) states that the coal seams in the Hensingham Group are generally only a few centimetres thick. It is therefore unlikely that there would be any mining related hazards in connection with this coal seam.

5 Site History

5.1 Historical Maps

- 5.1.1 Historical Ordnance Survey maps at 1:2,500 scale dating back to 1865 have been obtained to provide an interpretation of site history (Appendix B).
- 5.1.2 The earliest map of 1865 shows Hensingham House and the adjacent buildings to be largely present in their current

configuration. Boundary lines in the western garden area divide the plot north to south into three parts. Subsequent map editions help to distinguish these parts into Hensingham Hall Farm to the north, the central part as Hensingham Hall, and the southern part as Hensingham House. These names for the three plots will be used in this report irrespective of some ambiguity in the different map editions.

- 5.1.3 The subsequent editions of 1899, 1925 and 1945 show few significant changes, although St John's Church is first shown on the adjacent site to the south on the map of 1925.

- 5.1.4 More significant changes to the properties are shown on the map of 1973 which shows;

a row of six lock-up garages on the west side of Hensingham Hall

a new vehicular access for Hensingham Hall coming from the south off Egremont Road

an extension on the south elevation of Hensingham House

a passageway giving pedestrian access to the central courtyard in Hensingham Hall.

The new garages would indicate that Hensingham Hall had at this stage been divided up into flats.

- 5.1.5 The residential house on the neighbouring plot to the south, Georgian House, is first shown on the map of 1994.

6 Environmental Data

6.1 Flooding

- 6.1.1 The Groundsure Enviro Insight report (Appendix C) indicates the site does not stand within an area at risk from river flooding (pages 44 and 46 Appendix C). Similarly, there is no risk of surface water flooding (page 48, Appendix C). The groundwater flooding risk is classified as 'low' (page 50, Appendix C).

6.2 Landfill and Waste

- 6.2.1 The Groundsure Enviro Insight report (Appendix C) identifies one historical landfill site within influencing distance of the site (< 250 m). The landfill was 120 m north of the site and was licenced to Eden Construction Ltd for the deposition of inert

waste from 1991 to 1993. The other historical landfills identified in the Groundsure report form part of the Hensingham Open Space 350 m to the east of the site and are considered to be beyond influencing distance.

6.3 Radon

- 6.3.1 The Building Research Establishment (BRE) offers guidance on the requirements for new buildings to manage the hazards from naturally occurring radon gas. Three levels of radon protection are recommended, which are referred to as 'full', 'basic', or 'none required'. The maps in the BRE guidance indicate that the site stands within a 1 kilometre square where the probability of the property being above the action level is between 10 % and 30%. However, a more refined assessment based on postcode addresses has been obtained from the UK Health Security Agency, and this report concludes that the radon risk is between 1% and 3%, for which no radon protection measures are required (Appendix D).

6.4 Environmental Designations

- 6.4.1 Reference to the MAGIC website (Multi Agency Geographic Information for the Countryside, www.magic.defra.gov.uk) has been made to identify any nearby environmentally sensitive sites. There are no significant environmental designations within the site area, for example sites of special scientific interest (SSSI) or special areas of conservation (SAC). However, the development site does stand within a conservation area, which may have a bearing on architectural aspects of planning approval.

7 Hazard Assessment

7.1 Sources

- 7.1.1 The activities undertaken on or adjacent to the site that may act as potential historical or current sources of environmental hazard are shown in Table 1. These include farming related hazards in connection with Hensingham Hall Farm, and the barn's later use as a builder's workshop. Consideration has also been given to the potential release of asbestos fibres from the refurbishment work.

- 7.1.2 The inert landfill site licensed by Eden Construction between 1991 and 1993 is not considered to be a landfill gas hazard. The wastes are most likely to have been surplus earthworks materials from nearby road construction projects. Whilst it is possible that organic gas producing wastes may have been deposited, in contravention of the licence, the volume of any illegal deposited waste is unlikely to pose a significant hazard.

Table 1 Potential Contaminant Sources and Hazards

	Source	Hazard
historical		
off-site	none	none
on-site	farmyard activities, and builder's workshop	pesticides, farmyard slurry, silage leachate, motor vehicle products
current		
off-site	none	none
on-site	demolition activities	accidental release of asbestos fibres

7.2 Pathways and Receptors

- 7.2.1 Four pollutant receptor groups have been identified for the site, and these are listed in Table 2 together with the pathways through which they may be linked to the pollutant sources.

7.3 Conceptual Model and Qualitative Risk Assessment

- 7.3.1 A preliminary conceptual model of pollutant linkages is given in Table 3, together with a qualitative risk assessment for each linkage. The risk assessment uses the method of risk evaluation set out in CIRIA 552 'Contaminated Land Risk Assessment'. The scale of risk is determined from a matrix that combines the *consequence* of a hazard with the *likelihood* of the event happening. Details of the assessment method are included in

Appendix E. The risk assessment for each pollutant linkage is discussed in the following paragraphs.

Table 2 Pollutant Receptors and Pathways

Receptors	Pathways
human health	
• redevelopment construction workers • future site users	inhalation, ingestion, skin contact
water environment	
• surface water • groundwater	runoff, infiltration, groundwater flow
flora and fauna	
• garden areas	root uptake
built environment	
• buildings and services	vapour intrusion to water supply pipes. direct contact with contaminated soil and groundwater

7.4 Contaminant Source: Farmyard Activities

- 7.4.1 Old maps identify the northern part of the site to have been a farmhouse, and the storage barn also indicates that it had been used as a builder's workshop.
- 7.4.2 The following potential sources of contaminated land can be associated with agricultural buildings, and with the barn's possible use as a builders workshop:

- products associated with fuelling, servicing and repair of mechanised plant, for example, petrol, diesel, oil, brake fluids, anti-freeze, battery acid etc.
- pesticides
- farmyard slurry
- silage leachate
- wood preservatives

7.4.3 Six potential pollutant linkages have been identified for these sources, which include human health receptors (construction workers and future residents), controlled waters (infiltration to surface waters and groundwater), root uptake in garden areas, vapour intrusion of water supply pipes, and direct contact with building foundations.

7.4.4 In terms of the risk assessment, the consequence for construction workers is assessed as *minor* since it is likely that any hazard can be managed with personal protective clothing. However, the consequence for future residents is assessed as *medium* because the contaminant concentrations in the topsoils for example could exceed the generic assessment criteria. The consequence for garden areas is assessed as *minor*, where, for example, local die-back of some plants could occur. The consequence for controlled waters is assessed as *mild* where pollution of a non-sensitive water resource could occur. The consequence for buildings, services and water supply pipes is assessed as *mild*, where there could be damage to the building fabric, or tainting of the water supply.

7.4.5 The probability classification for the six pollutant linkages is classified as *unlikely*. This is based on the following considerations;

- small scale of the farmyard
- limited vehicular access to the barn, both from the road and into the barn
- state of dereliction indicating recent inactivity

The walk-over survey found the former farmyard area of the site to be heavily overgrown and there was clearly no evidence of die-back and no other evidence of significant hazards from agricultural plant and associated activities.

7.4.6 Six pollutant linkages have been identified for the sources based on farmyard activities, and the resulting risk classifications vary between *very low* and *low risk*.

Table 3 Pollutant Linkages and Risk Evaluation

Source	Pathway	Receptor	Consequence	Probability	Risk classification
pesticides, farmyard slurry, silage leachate, motor vehicle products	ingestion, skin contact, inhalation	human health (construction workers)	minor	unlikely	very low risk
		human health (residents)	medium	unlikely	low risk
	infiltration	surface water and groundwater	mild	unlikely	very low risk
	root uptake	garden areas	minor	unlikely	very low risk
	vapour intrusion	water supply pipes	mild	unlikely	very low risk
	building foundations	direct contact	mild	unlikely	very low risk
asbestos fibres	inhalation	human health (construction workers)	minor	low likelihood	very low risk
		human health (residents)	medium	low likelihood	moderate/low risk

7.5 Contaminant Source: Asbestos Fibres

- 7.5.1 The current redevelopment and demolition works may potentially have released asbestos fibres from insulating materials for example. (No asbestos cement roofing sheets were noted).
- 7.5.2 In terms of the risk assessment for asbestos fibres, the consequence for construction workers is assessed as *minor* since it is likely that any hazard can be managed with personal protective clothing. However, the consequence for future residents is assessed as *medium* because asbestos fibres could be entrained in the topsoils later re-used for garden areas.
- 7.5.3 The probability classification for these two pollutant linkages is classified as *low likelihood*, and the resulting risk classifications are *very low risk* for construction workers and *moderate/low risk* for future residents.

7.6 Uncertainties

- 7.6.1 There remains the possibility that some previous occupation of the site has not been identified, which could lead to unforeseen ground contamination. It is therefore recommended that professional advice be sought if evidence of land contamination is encountered during construction.

8 Summary and Recommendations

8.1 Summary

- 8.1.1 The desk study has identified two potential sources of contamination relating to historical and current activities at the site. These potential sources are contamination from historical farmyard activities and processes in the north-western corner of the site, and accidental release of asbestos fibres from current refurbishment and demolition activities at the site.
- 8.1.2 Eight pollutant linkages have been identified in relation to the potential sources, and the qualitative risk assessment has assessed the risks to vary between *very low risk* and *moderate/low risk*.
- 8.1.3 The desk study completes Tier 1 of the Land Contamination

Risk Management guidelines, comprising hazard identification and hazard assessment. Further investigation, leading to Tier 2 Risk Estimation and Evaluation, is normally required where *moderate, high, or very high* risks are identified.

8.2 Recommendations

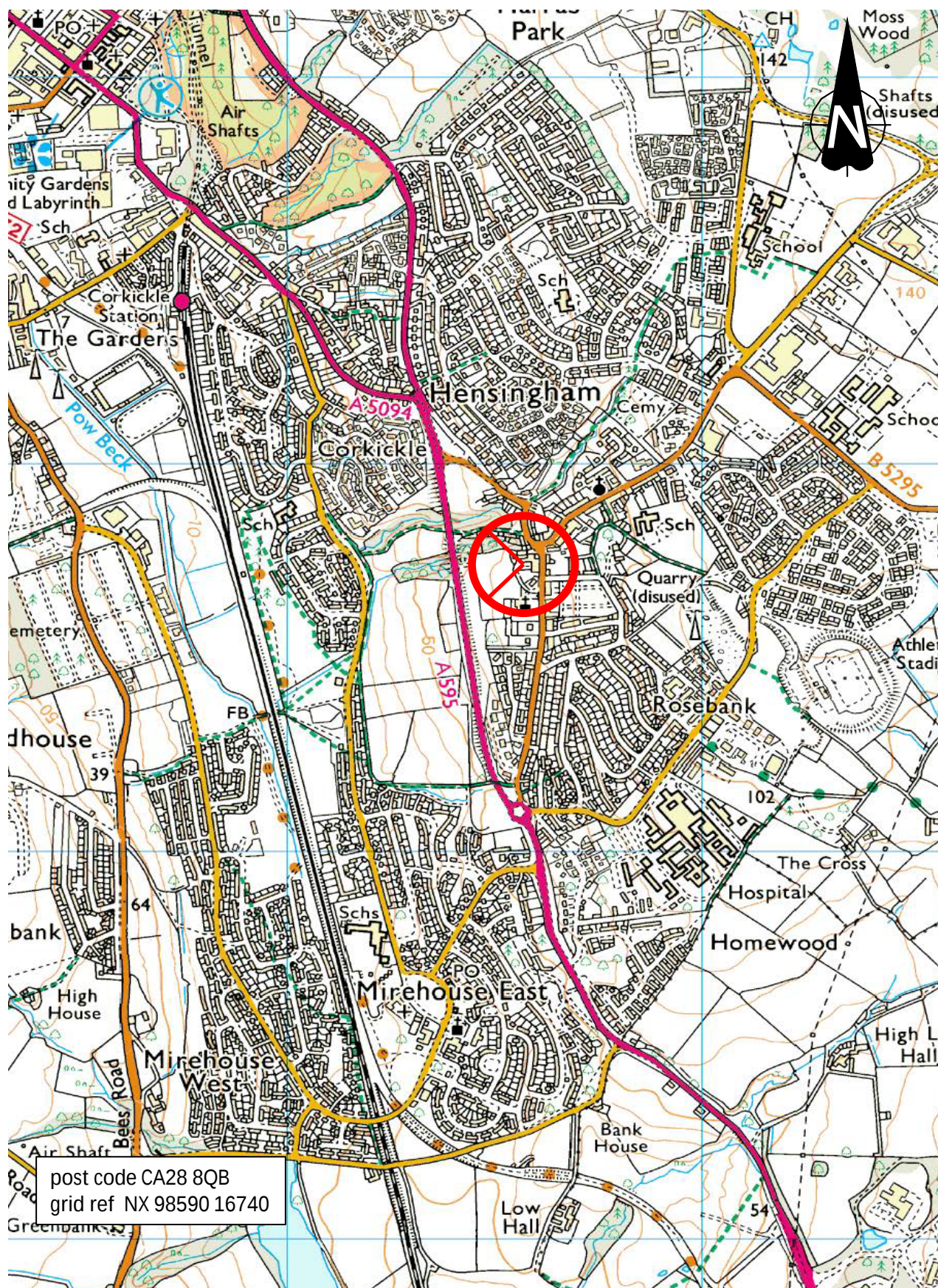
- 8.2.1 The risk classifications for most of the pollutant linkages vary between *very low* and *low risk*, and therefore no further investigation is deemed necessary. However, a *moderate/low* risk has been determined for the pollutant linkage connecting accidental release of asbestos fibres with future residents. Further investigation is not considered practical or informative at this stage when redevelopment work is still in progress. However, it is recommended that the topsoils laid down in the garden areas be tested and checked for common contaminants such as PAH and asbestos.
- 8.2.2 There remains a potential risk of contamination from unrecorded activities and we therefore recommend that the developers should seek professional assistance if they encounter significant quantities of unforeseen Made Ground materials, or if they find evidence (visual or olfactory) of soil or groundwater contamination.
- 8.2.3 No soils should be removed from the site or brought to the site without approval from the statutory authorities.

For and on behalf of Meridian Geoscience Ltd
20 January 2022



Richard Lote
BSc, MSc, FGS, CGeol

Figures



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project Hensingham House, Whitehaven
 client Thomas Milburn (Property) Ltd
 drawing Site Location Map

scheme 1661
 scale nts
figure 1



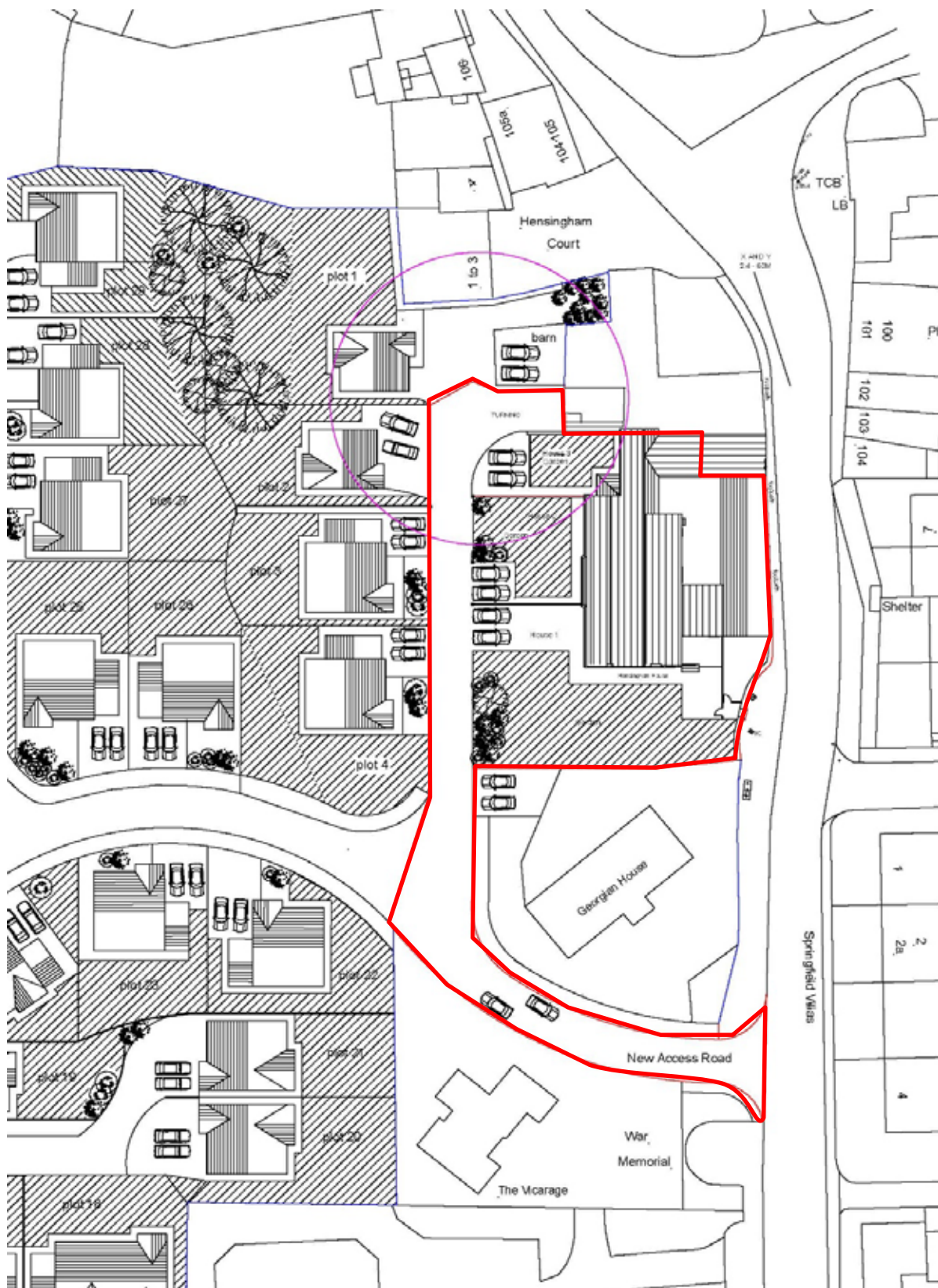




Photo 1: View from access road looking towards south elevation.



Photo 2: South elevation of Hensingham House.



Photo 3: West elevation of Hensingham Hall. (Hensingham House obscured by tree on right).



Photo 4: View looking towards north end of site.



Photo 5: East elevation along Egremont Road.



Photo 6: View from Hensingham Court looking south-westwards towards west end of Hensingham Hall Farm barn.



Photo 7: View looking eastwards along northern site boundary towards Hensingham Court.

Appendix A

Development Proposals

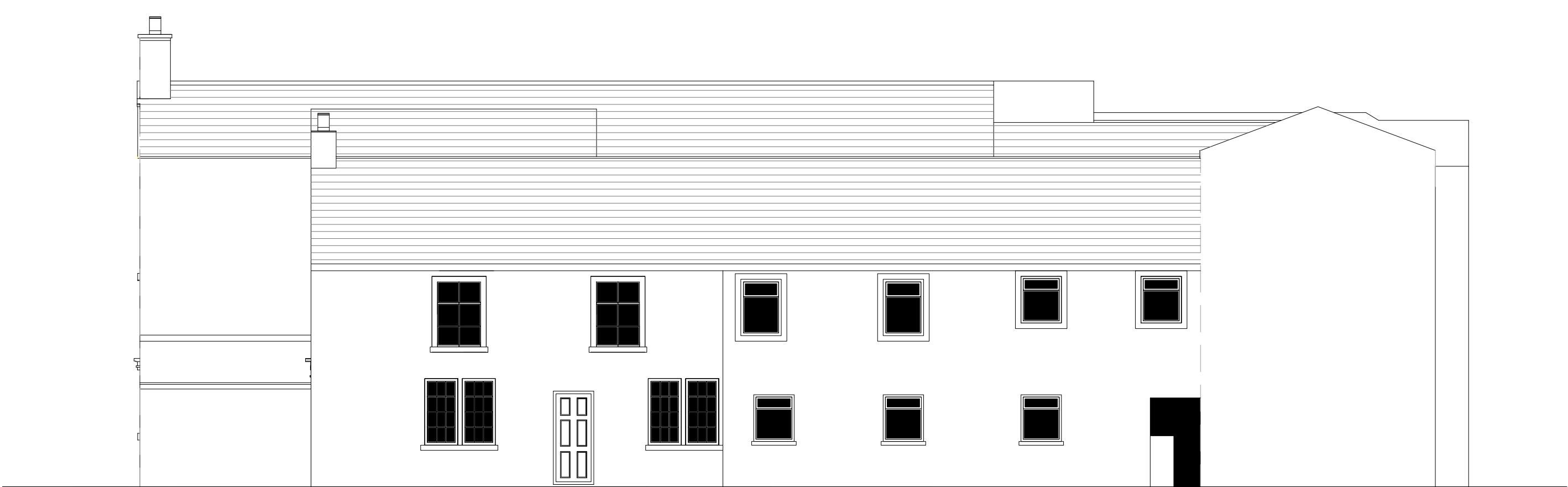


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cdl Planning & Design		Mob : 07786991404 The Studio 26 Corporation Rd Carlisle Cumbria CA3 8XB E Mail : cdlarcdesign@gmail.com	
Client :		THOMAS MILBURN PROPERTY LTD	
Drwg No :		DS/TMS/2/21	
Date :		October 21	
		Checked By : DS	REVISION A
Scales :	Elevations :	Detail : PLANNING	
	Floor Plans :	Title : CONVERSION OF HENSINGHAM HOUSE	
	Block Plan : 1 : 500	AND ASSOCIATED BUILDINGS	
	Location Plan :	Address : HENSINGHAM HOUSE, HENSINGHAM, WHITEHAVEN	
	Sections :	CUMBRIA .	



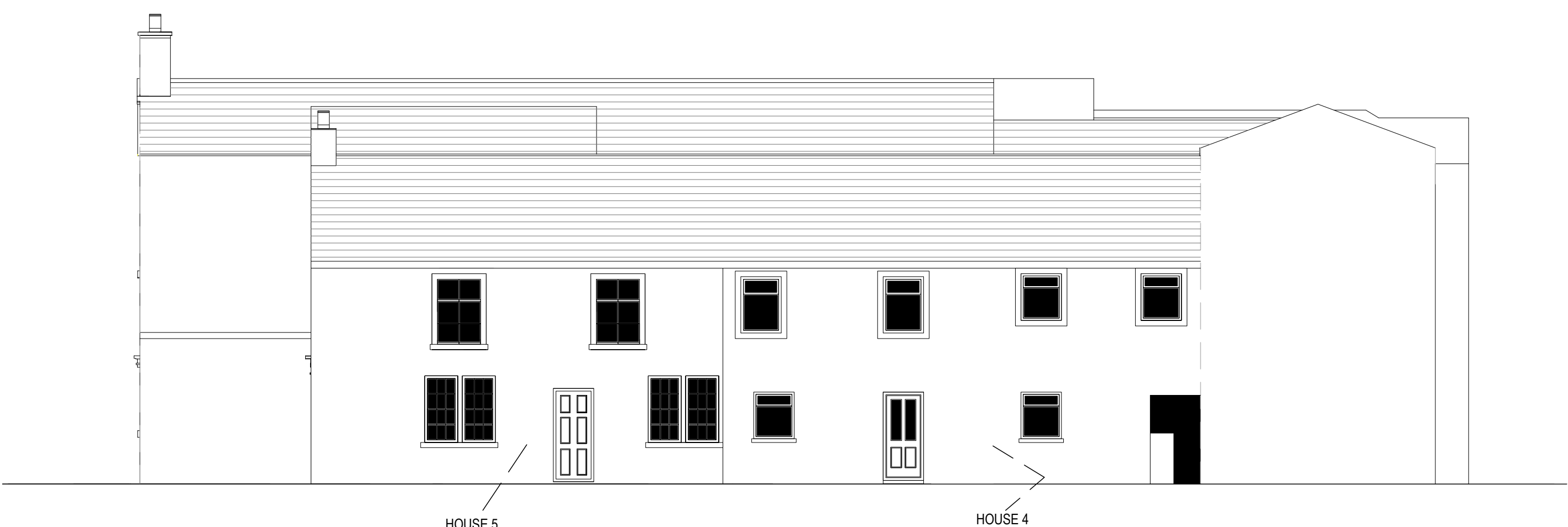
EXISTING SOUTH ELEVATIONS



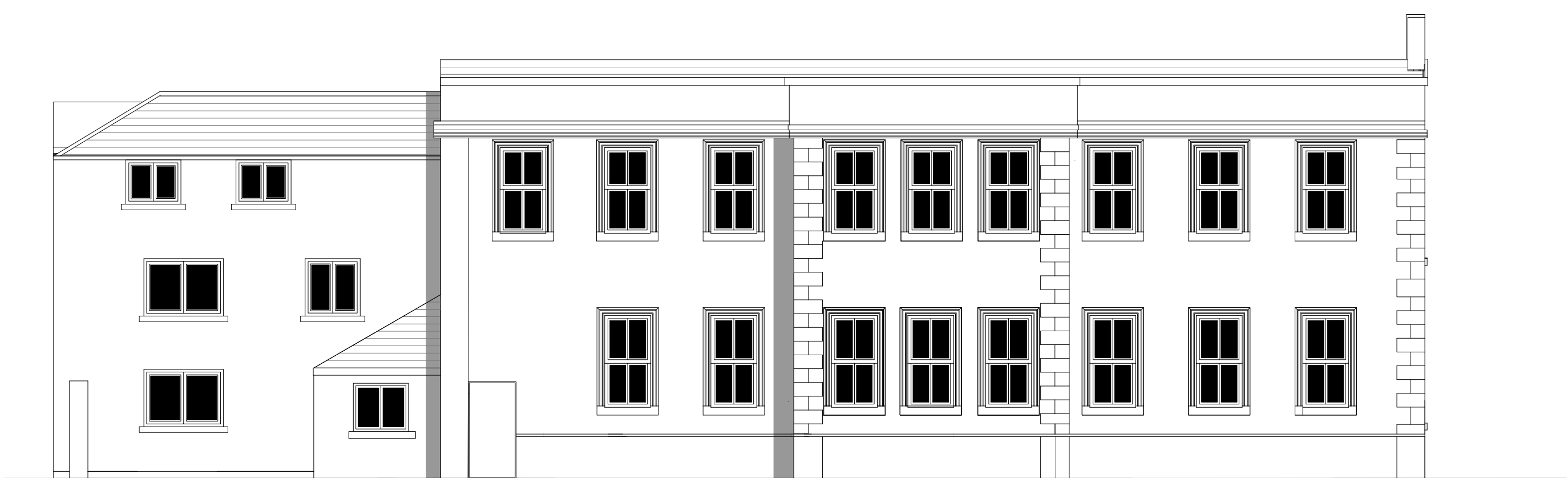
EXISTING EAST ELEVATIONS



PROPOSED SOUTH ELEVATIONS



PROPOSED EAST ELEVATIONS



EXISTING WEST ELEVATIONS



PROPOSED WEST ELEVATIONS

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DRAINAGE RUNS All existing drainage runs to be identified/ checked. (surface & foul) contractor to check invert & position of existing drainage systems to ensure adequate fall & to ensure BCO is satisfied with site inverts before excavation of drainage runs and new connections, positions of manholes gullies downpipes etc.		HEATING & LIGHTING Full survey of existing heating/lighting system to be determined to ascertain changes for alterations / refurbishment, works, a full specification of changes to be completed before works.		Client : THOMAS MILBURN PROPERTY LTD Drwg No : DS/TMS/3/21 Date : August 21 Checked By : DS REVISION A
BUILDING REGULATION APPROVAL These drawings and associated specifications are for the purpose of achieving building regulations approval. Any deviation from approved details, by any contractor / sub contractor, on commencement, or during works, is responsible for all changes to be compliant with current building regulations, and responsible for implementation of changes.		Scales : Elevations : Floor Plans : 1 : 100 Block Plan : Location Plan : Sections :		Detail : EXISTING AND PROPOPSED ELEVATIONS Title : CONVERSION OF HENSINGHAM HOUSE AND ASSOCIATED BUILDINGS Address : HENSINGHAM HOUSE, HENSINGHAM, WHITEHAVEN CUMBRIA .

Appendix B

Historical Ordnance Survey Maps

Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: County Series

Map date: 1863-1865

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1865
Revised 1865
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1863
Revised 1863
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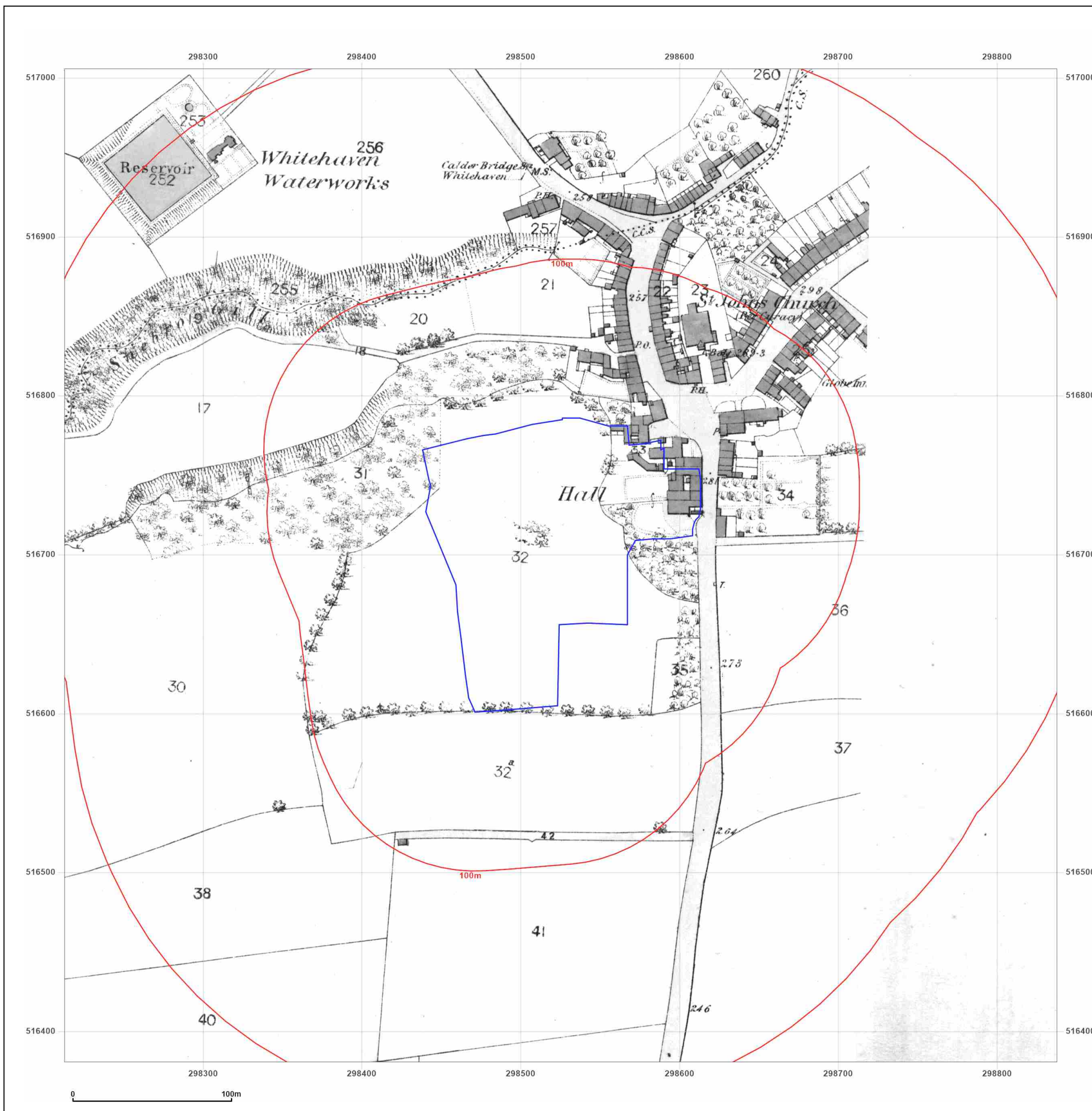


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Groundsure Insights
T: 08444 159000
E: info@groundsure.com
W: www.groundsure.com

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Production date: 20 December 2021

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



Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: County Series

Map date: 1899

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

Surveyed 1899
Revised 1899
Edition N/A
Copyright N/A
Levelled N/A

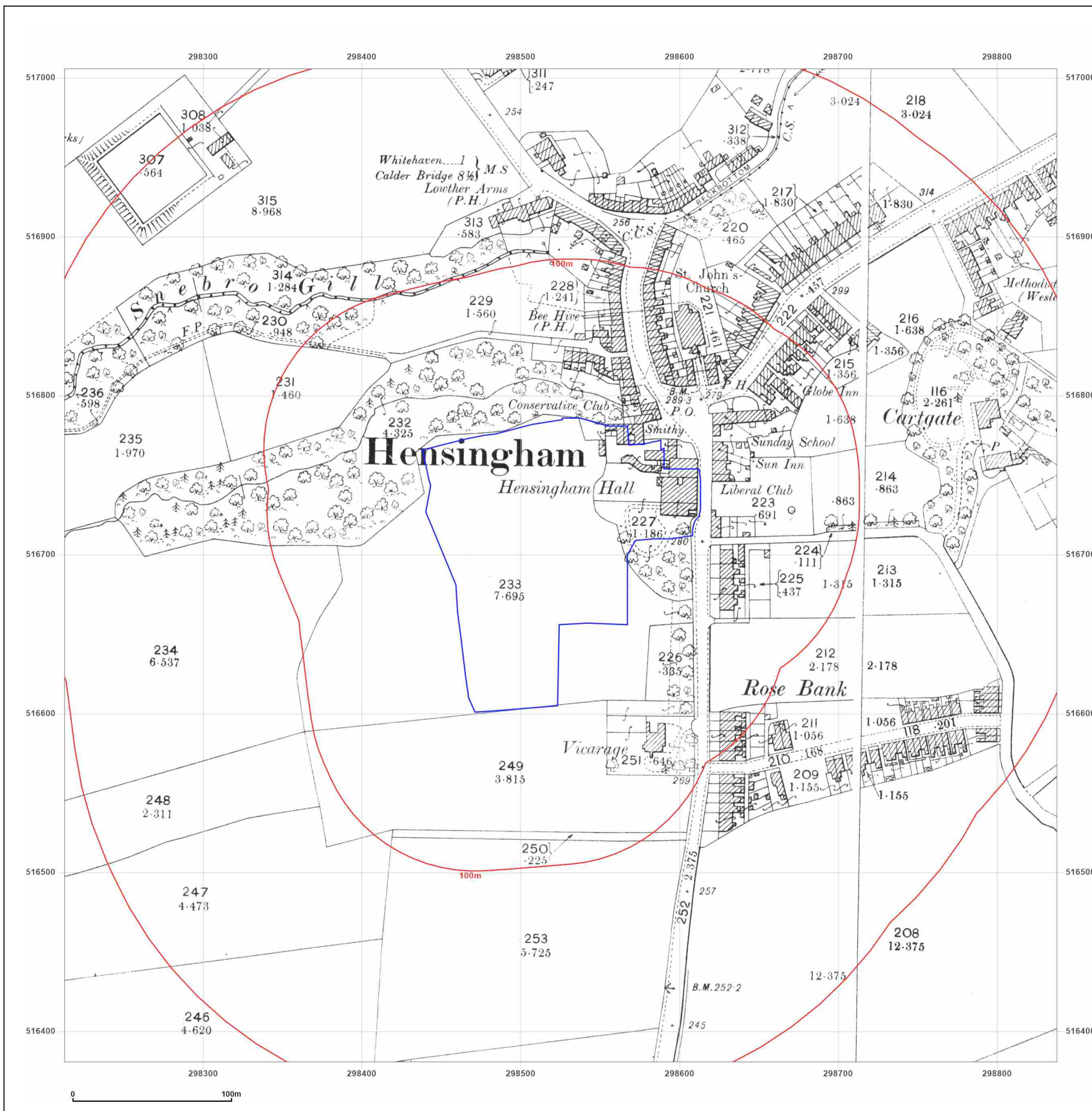


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Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: County Series

Map date: 1925

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1925
Revised 1925
Edition N/A
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Surveyed 1925
Revised 1925
Edition N/A
Copyright N/A
Levelled N/A

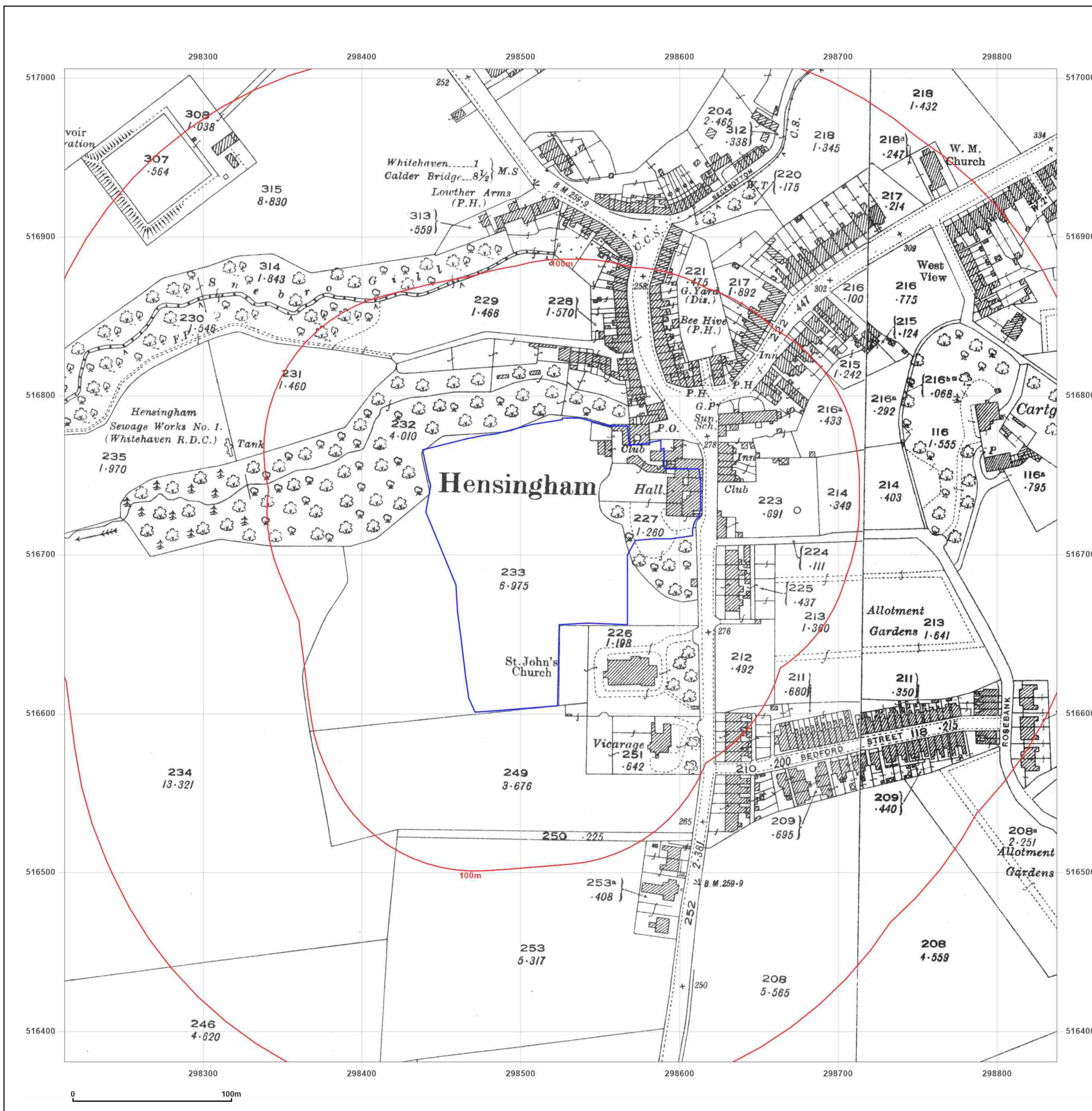


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Production date: 20 December 2021

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



Site Details:

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Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: County Series

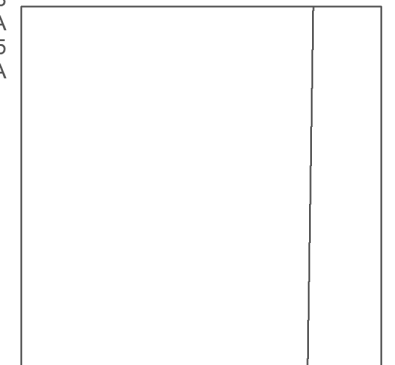
Map date: 1945

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1938
Revised 1938
Edition N/A
Copyright 1945
Levelled N/A

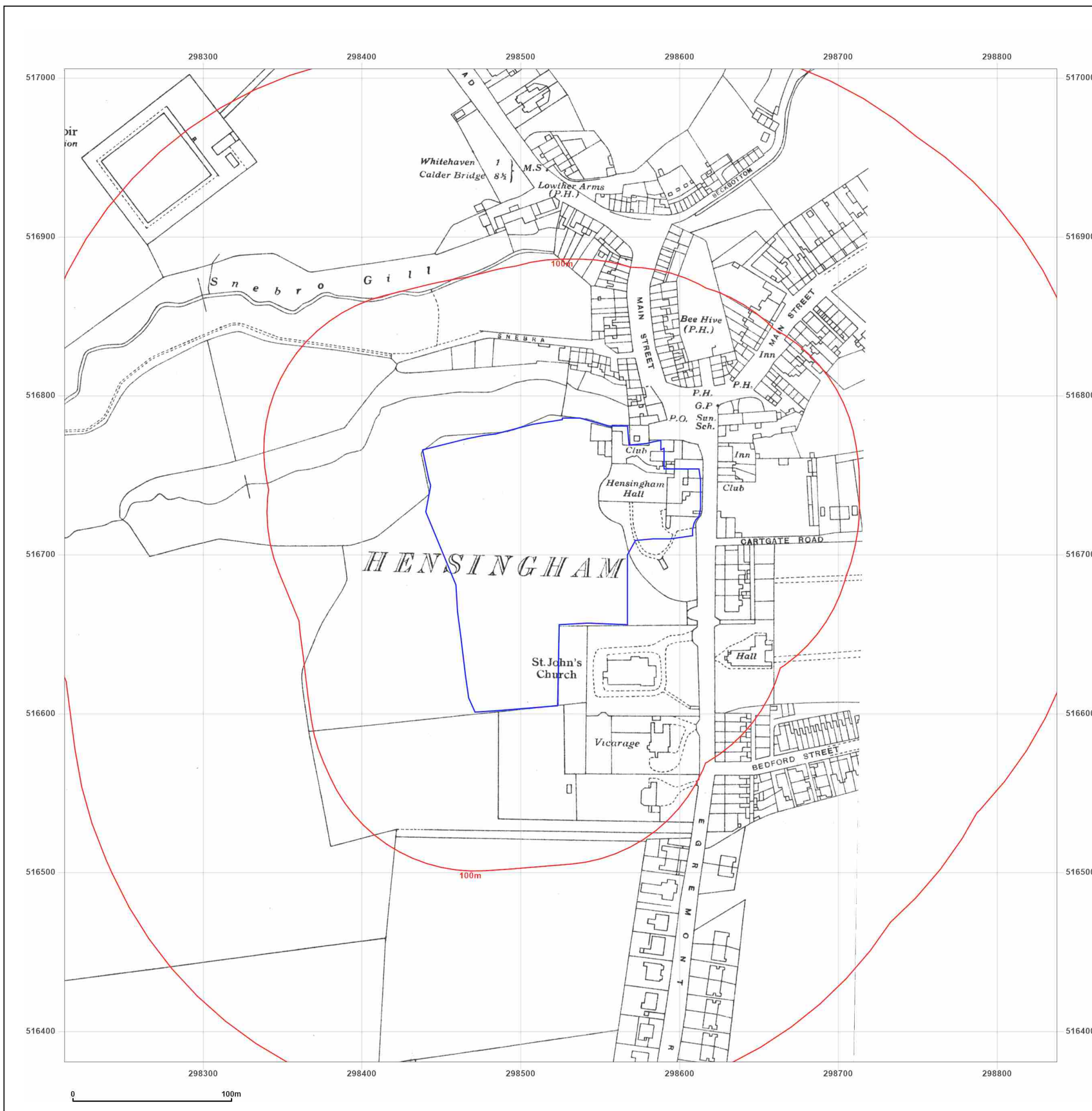


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Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1960

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
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Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1956

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1956

Surveyed 1960
Revised 1960
Edition N/A
Copyright 1961
Levelled 1956

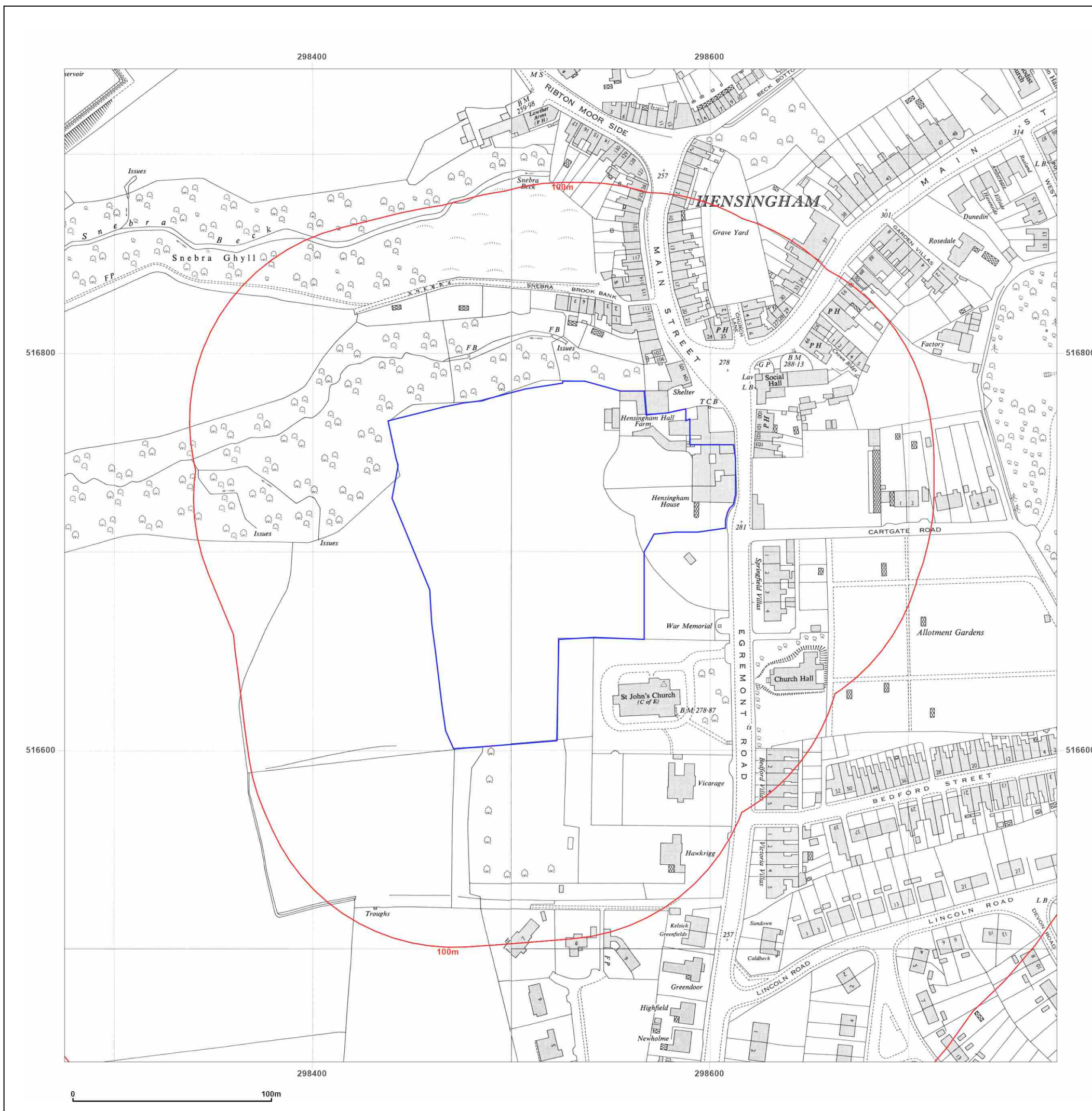


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Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1961

Scale: 1:1,250

Printed at: 1:2,000



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

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

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

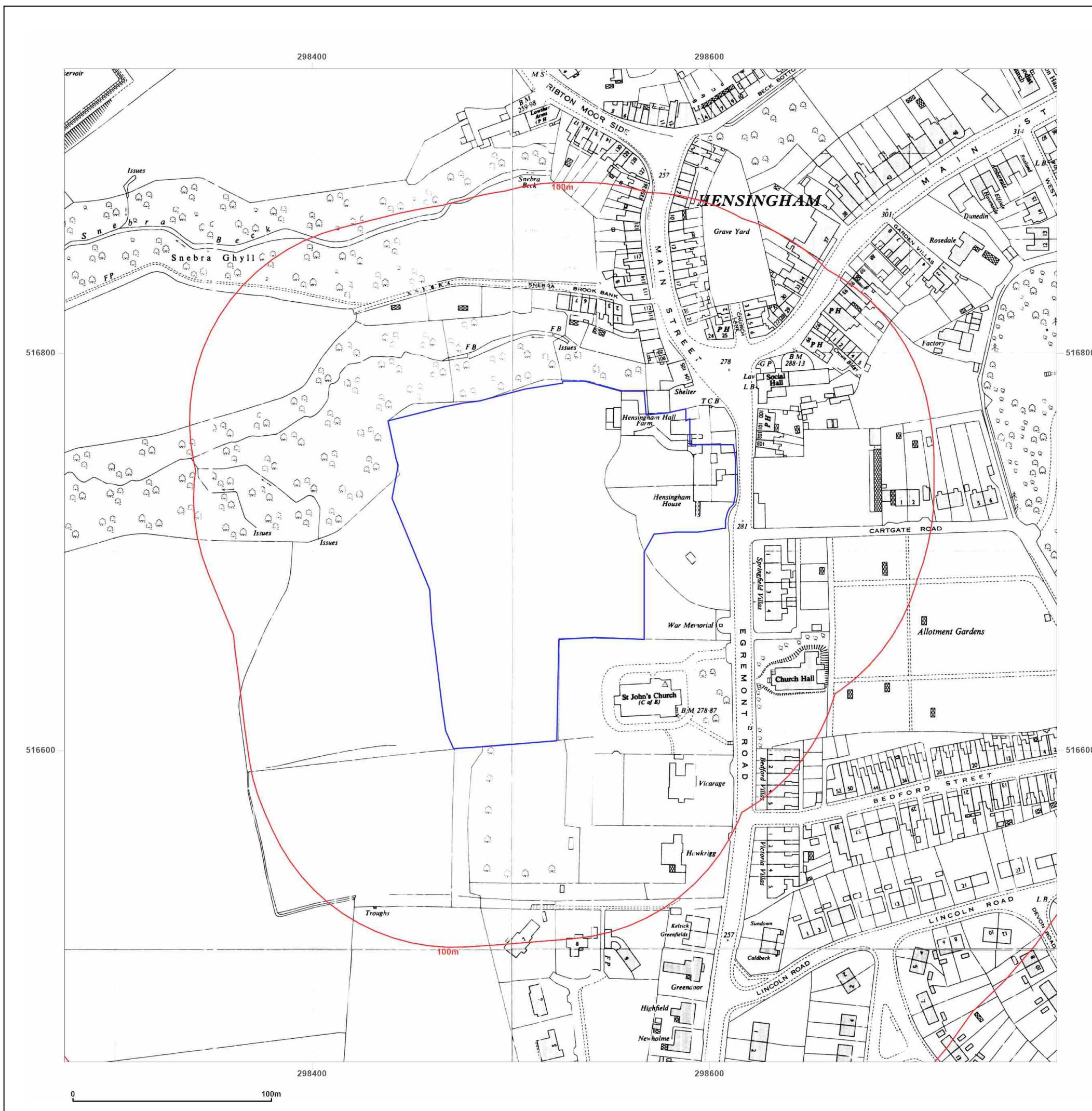


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Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1963

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1956

Surveyed 1961
Revised 1961
Edition 1963
Copyright 1963
Levelled 1956

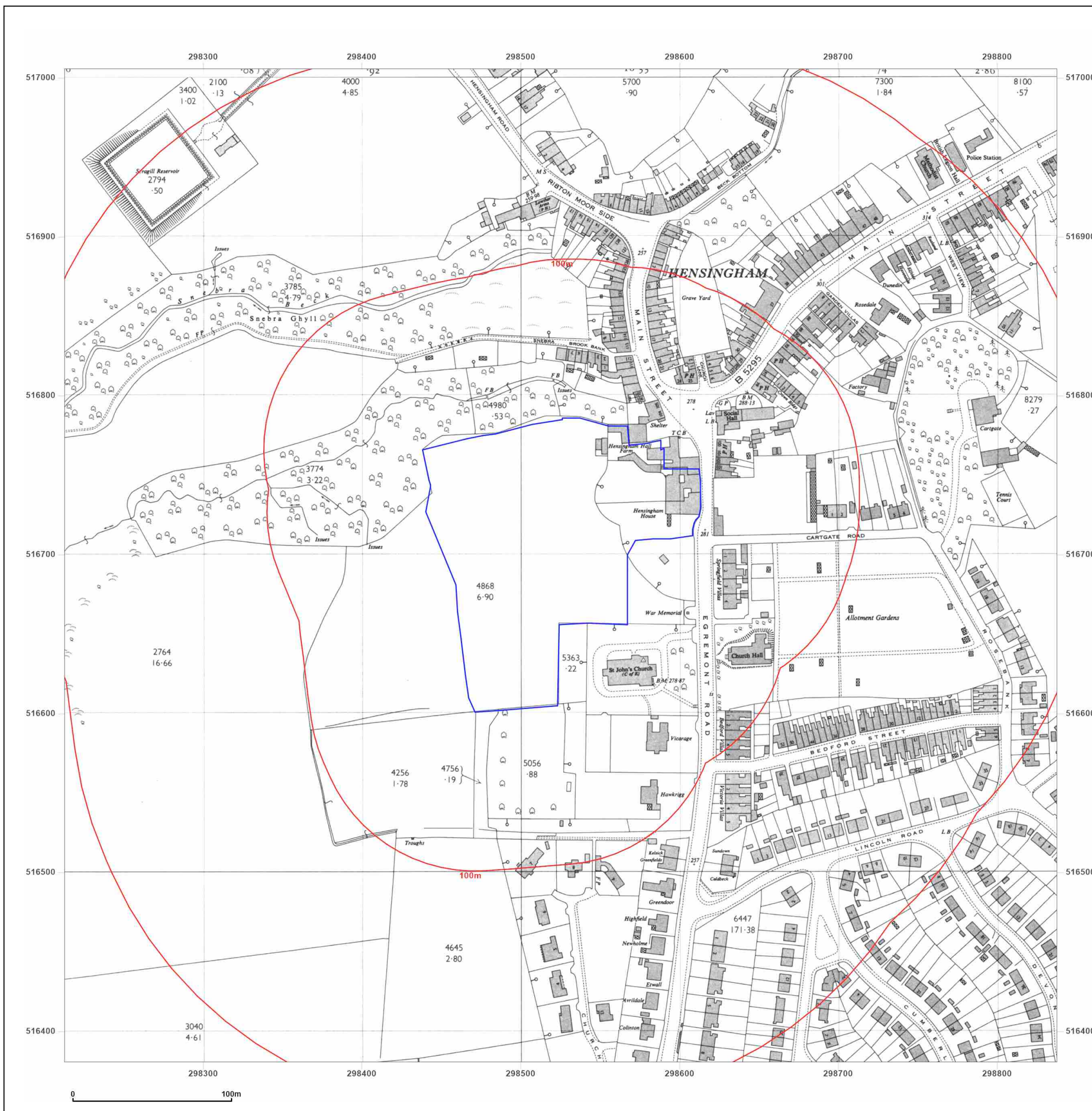


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Site Details:

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CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1969-1970

Scale: 1:2,500

Printed at: 1:2,500



Surveyed 1968
Revised 1968
Edition N/A
Copyright 1969
Levelled 1965

Surveyed 1968
Revised 1968
Edition N/A
Copyright 1970
Levelled 1965

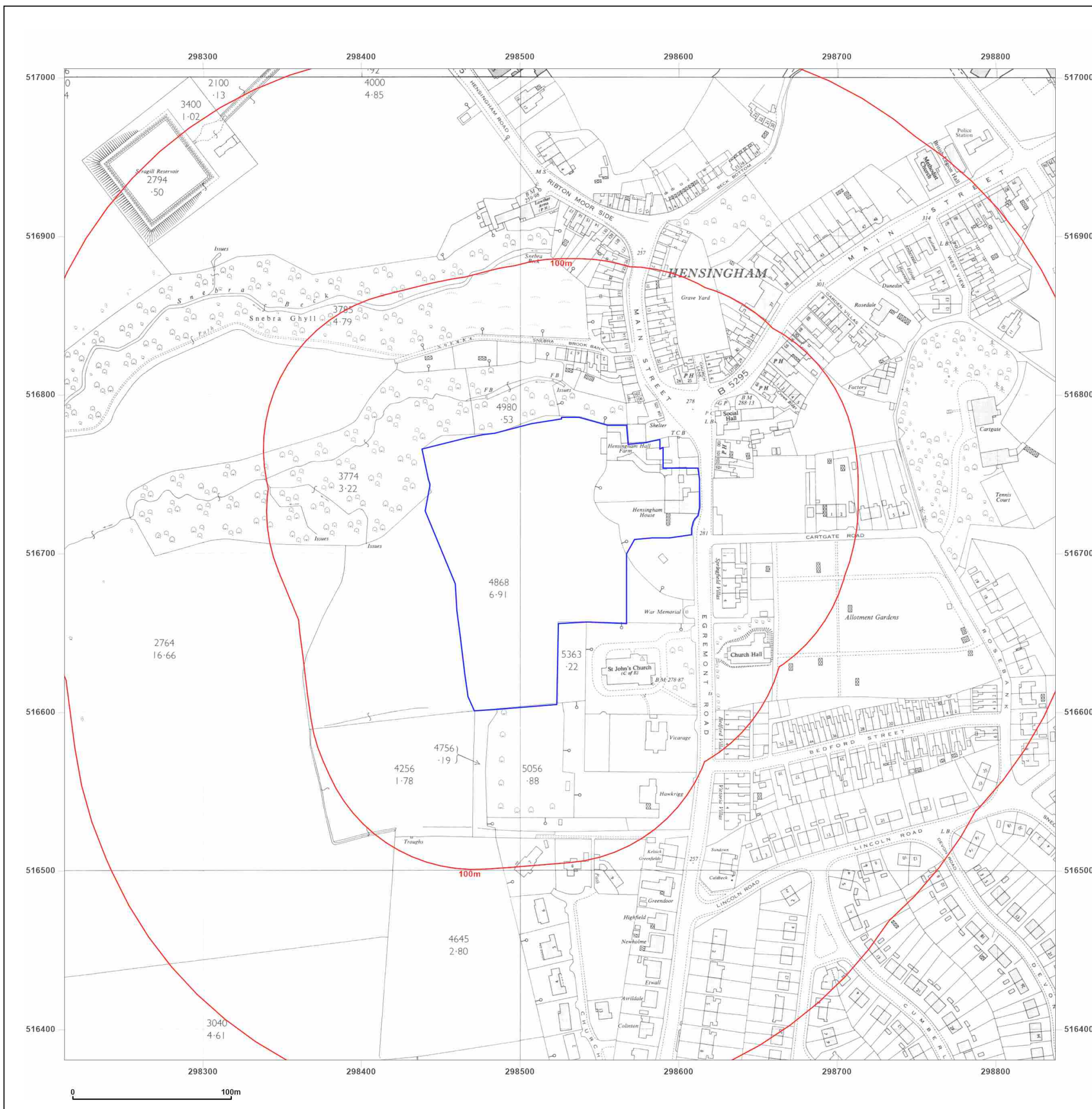


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Site Details:

Hensingham House,
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CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1970

Scale: 1:2,500

Printed at: 1:2,500



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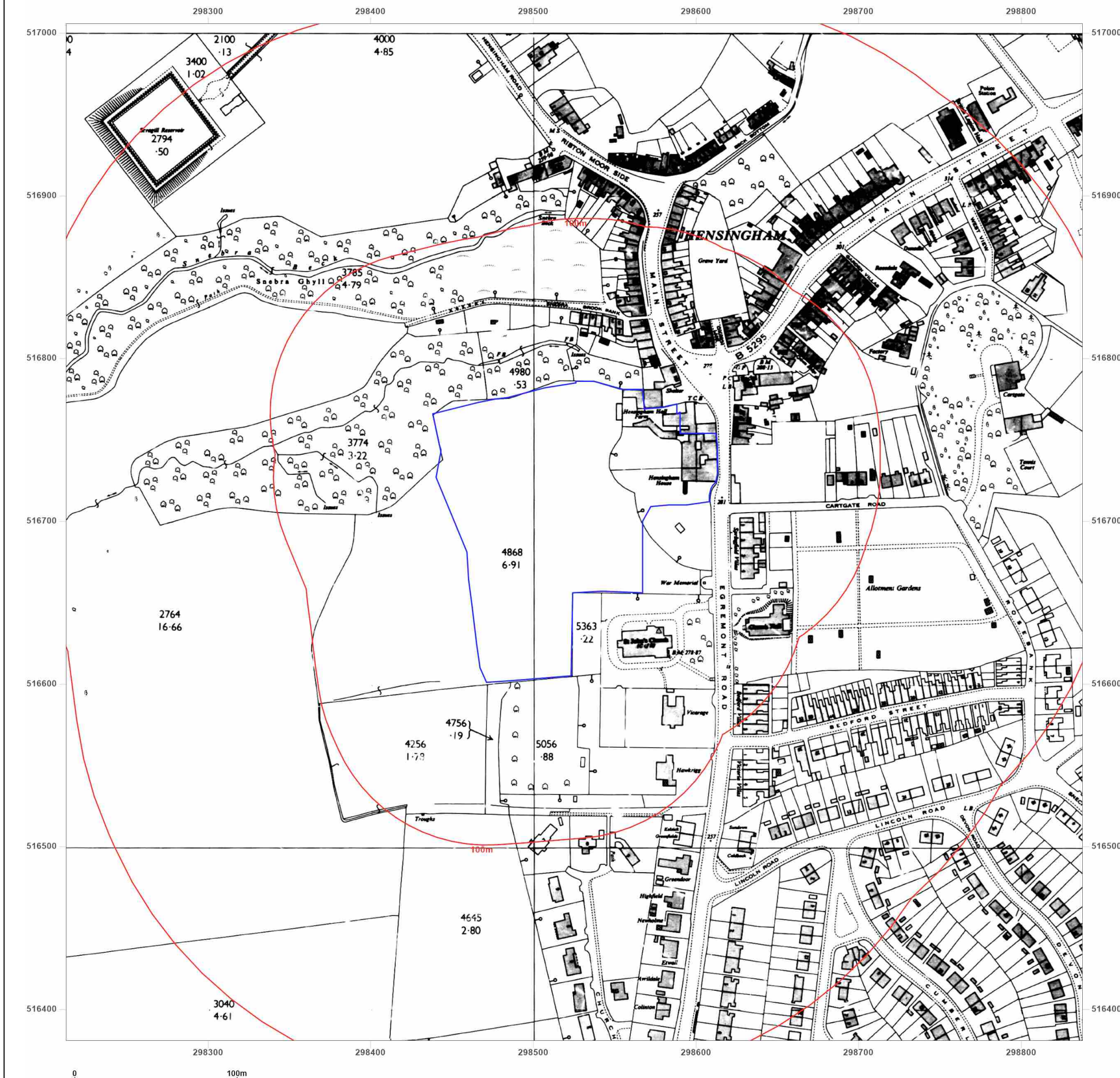


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Site Details:

Hensingham House,
Hensingham, Whitehaven,
CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1989-1994

Scale: 1:1,250

Printed at: 1:2,000



Surveyed 1989
Revised 1989
Edition N/A
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Surveyed N/A
Revised N/A
Edition N/A
Copyright 1994
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Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
Levelled N/A

Surveyed 1992
Revised 1992
Edition N/A
Copyright 1992
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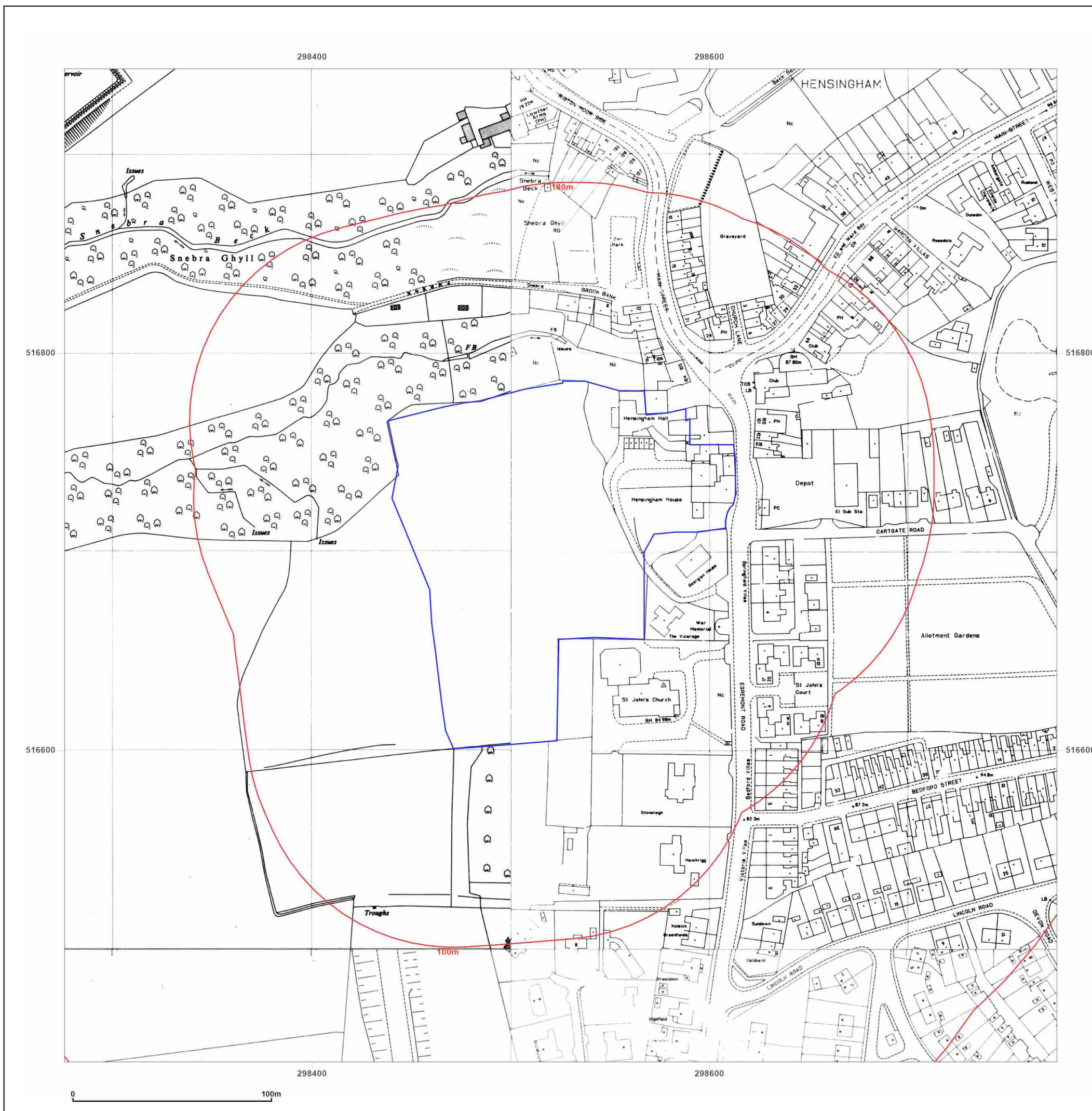


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Site Details:

Hensingham House,
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CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: National Grid

Map date: 1992-1994

Scale: 1:1,250

Printed at: 1:2,000



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

Surveyed 1994
Revised N/A
Edition N/A
Copyright 1994
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Revised 1992
Edition N/A
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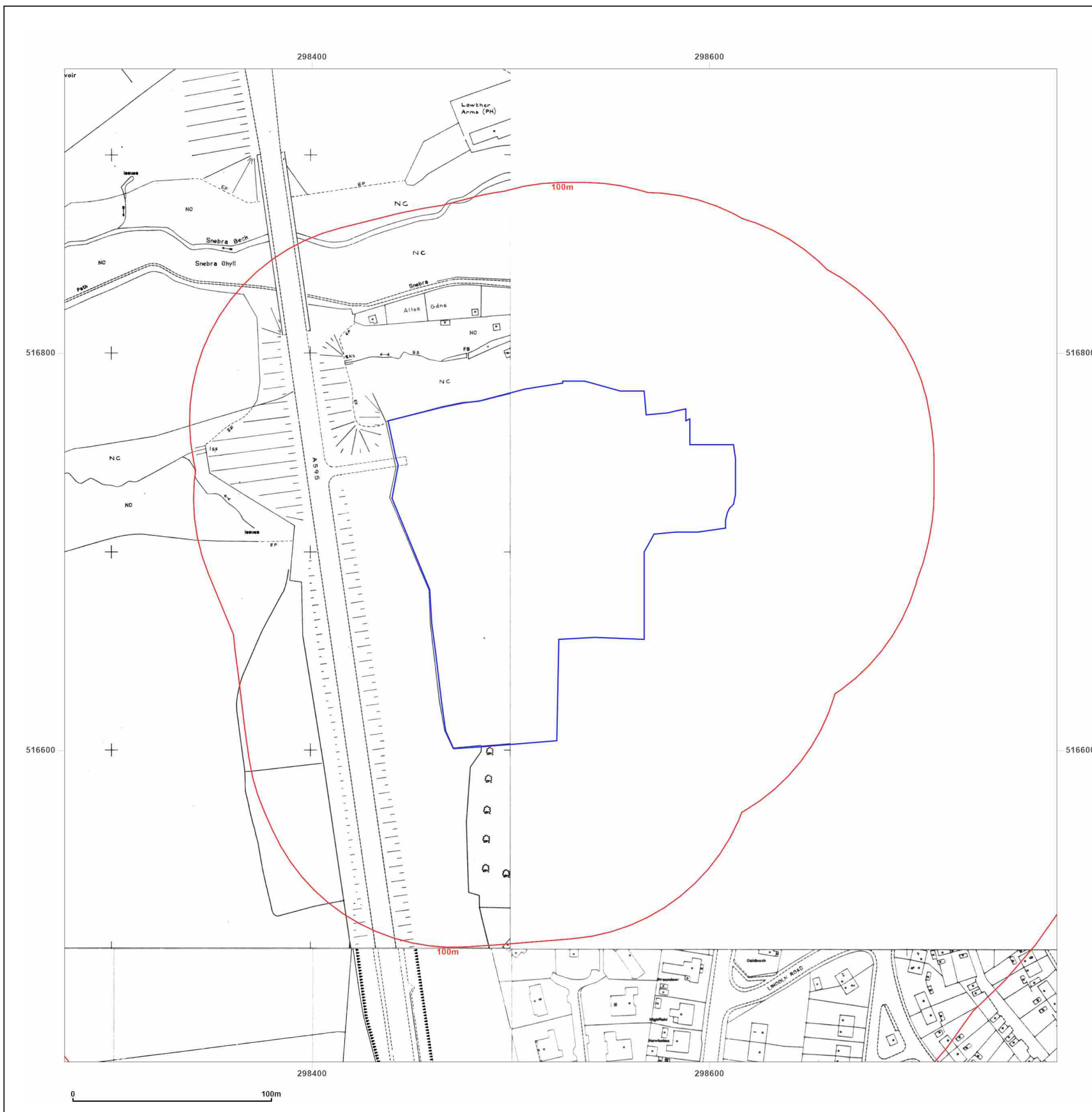


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Site Details:

Hensingham House,
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CA28 8QB

Client Ref: MGL_1661
Report Ref: GS-8409785
Grid Ref: 298525, 516693

Map Name: LandLine

Map date: 2003

Scale: 1:1,250

Printed at: 1:1,250



2003



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