

West Cumberland Hospital

Phase 1 Preliminary Risk Assessment

Curtins Ref: 073096-CUR-00-XX-RP-GE-001

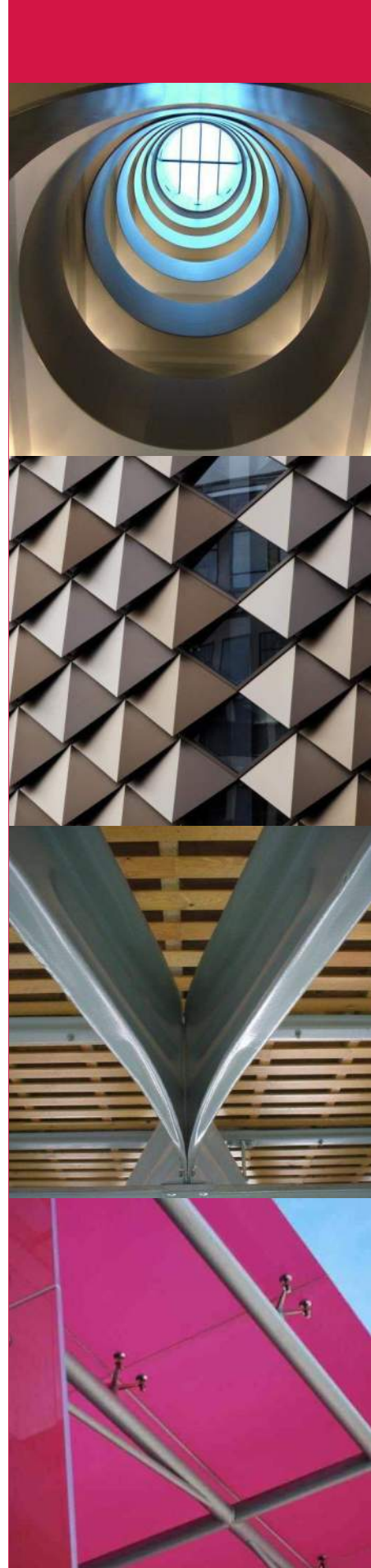
Revision: P02

Issue Date: 26 March 2020

Client Name: CCL Solutions

Client Address: Unit 18, The South Range, Hackthorpe Business Centre, Hackthorpe, Penrith, Cumbria, CA10 2HX

Site Address: West Cumberland Hospital, CA28 8JG



Rev	Description	Issued by	Checked	Date
P02	Update following change to site boundary and development proposals.	AHW	NF	26/03/2020

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Executive Summary

Appointment	In May 2019, Curtins were instructed by CCL Solutions to undertake a Phase 1 Preliminary Risk Assessment of the site at West Cumberland Hospital, CA28 8JG, ahead of its potential development for hospital, educational and student residencies end uses. The site is centred on NGR 298950, 516040 and covers an area of approximately 2.73 Ha. For the purpose of this report the site has been divided into two areas as proposed in Gilling Dod Architects drawing WCH-GDA-VV-ZZ-DR-A-05_20-5501 revision P06. This comprises a larger northern portion identified as Boundary A and a smaller southern area described as Boundary B. It should be noted that the site boundary has reduced in size slightly from that shown within the Envirocheck Report.
Current Site Status	Buildings and associated infrastructure of the West Cumberland Hospital currently cover most of the site area. Infrastructure is inclusive of access roads, footpaths and carparking as well as area soft landscaping.
Site History	Earliest maps of the site are dated 1865-1880 and show the site boundaries to spread across 5No. bounded fields. The site remains unchanged until 1963 when West Cumberland Hospital is first identified and 3No. buildings are constructed within the south eastern site boundary. By 1965 West Cumberland Hospital largely resembles present day site after rapid expansion into the site boundary. Minimal changes affect the site subsequently except for the demolition of several buildings centrally along the north western exterior of Boundary A, which is replaced by additional car parking. The site does not undergo any major changes until the present day.
Geology	The British Geological Society (BGS) anticipate that superficial deposits of the Devensian Till underlie the entirety of the site. The solid geology comprises the Hensingham Grit which underlies a proportional area of Boundary A. The south western extent of Boundary A and the entirety of Boundary B are underlain by the Stainmore Formation. There are no known faults underlying the site directly, however there are numerous faults in the nearby vicinity. The orientation of the faults varies greatly however generally strike in an NW-SE orientation. The site is within a known coal mining region, however is not located within a development high risk area associated with potential zone of influence of surface or subsurface coal workings. Furthermore, there are no BGS recorded mineral sites within 100m of the site. The risk from mining is therefore considered to be Low.
Hydrogeology	The site is underlain by a Secondary Undifferentiated and Secondary A Aquifer associated with superficial deposits and bedrock geology respectively. The site is not located within an Environment Agency designated source protection zone. There are no groundwater abstraction points within 1km of the site.
Hydrology	The nearest surface water feature is 264m south west of the site, appearing to represent a small drain. There are no surface water abstraction points recorded within 1km of the site. A single discharge consent is present 390m north east of the site which refers to the discharge of surface water into a freshwater stream/river. Additionally, a single pollution incident to controlled waters is recorded 278m north west of the site referring to a Category 3 ±Minor incident which discharge unknown oils into the Irish Sea catchment.
Unexploded Ordnance Risk	The site is located within a determined low-risk area in respect to World War Two bombing. Furthermore, no evidence of ruins is noted in post war mapping on site or in the surrounding area and there are no locally significant targets noted prior to or during WW2. On this basis the risk from UXO is considered to be Low and no further assessment is required at this stage.
Initial Ground Contamination Assessment	The risk from potential contamination in site soils posed to site end-users and construction workers is currently assessed Moderate/Low. The risk posed to groundwater and surface water receptors from potential leachable contamination on site is assessed as Low. The risk posed to end-users from ground generating gasses is assessed as Moderate/Low.
Other Considerations	There may be subsurface obstructions, voids and relic foundations associated with previously demolished buildings onsite and subsequent phases of development.
Recommendations	The following recommendations are made with regards to further works at the site: 1. Undertake an intrusive ground investigation; 2. Undertake a GQRA as part of the ground investigation; and 3. Undertake ground gas and groundwater level monitoring.

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1.0 Introduction

1.1 Project Background

In May 2019, Curtins were instructed by CCL Solutions to undertake a Phase 1 Preliminary Risk Assessment of the site at West Cumberland Hospital, CA28 8JG. The site is centred on NGR 298950, 516040 and covers an area of approximately 4.13 Ha.

The area of proposed development is split into two areas divided by the ring road that services the hospital. The two areas include a larger northern area, Boundary A , and a smaller southern area, Boundary B , as shown in Figure 2.1. Both areas currently comprise several buildings associated with West Cumberland Hospital, areas of hardstanding inclusive of car parks and foot paths, as well as areas of soft standing.

It is understood that the proposed development within Boundary A is to include the construction of a new hospital wing and the refurbishment of existing buildings with associated carparking, communal soft landscaped areas, clinical waste storage area in the north, along with various other stores and an area for recycling skips. There are no current construction proposals within Boundary B , except for the demolition of the two existing buildings. The proposed development plans are contained within Appendix A.

1.2 Scope of Services

The Phase 1 is intended to provide an overview of the geo-environmental and geotechnical setting of the site prior to development of the proposal outlined above.

Through this overview, the Phase 1 aims to develop both a working conceptual and ground model for the site, as well as present an initial assessment of any risks that could be presented to the development including its intended end users and the wider environment.

Specifically, the Phase 1 provides an initial assessment of the site regarding:

- a) Potential contamination of the site strata by historical and or current use;
- b) The potential impact on the wider environment by historical and or current use of the site of interest;
- c) The potential impact from surrounding land uses and other environmental factors;
- d) Potential problems associated with geological features such as faulting, mineral extraction, mining and land instability;
- e) The location of apparent sub-surface structures that may affect the proposed redevelopment; and
- f) The location of above-surface features that may affect the proposed redevelopment.

Consideration of detailed flood risk, ecology and archaeological issues are outside of the scope of this report.

2.0 Current Site and Surrounding Area Details

2.1 Site Location and Current Details

The site is located at West Cumberland Hospital, CA28 8JG, detailed in Table 2.1 and shown in Figure 2.1 below. The site boundary has reduced in size from that shown within the Envirocheck Report (1).

Table 2.1 ±Site Details

Site Address	West Cumberland Hospital, CA28 8JG.
NGR	298950, 516040
Area of Site	Approximately 2.73 Ha
Current Site Use and Description	The two proposed areas of development, Boundary A and Boundary B, comprise of buildings associated with West Cumberland Hospital and its associated infrastructure inclusive of carparking, access roads, foot paths and soft standing landscaped areas.

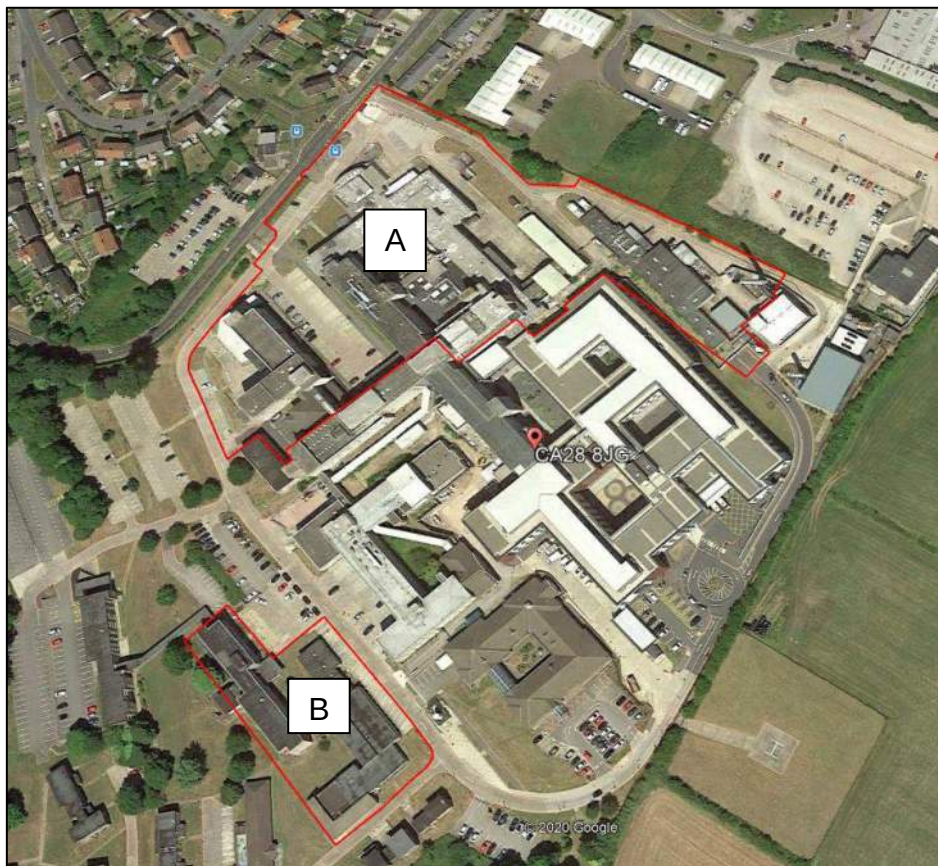


Figure 2.1 ±Site Location Plan
(site boundary shown in red)

2.2 Surrounding Area Details

The following information was established through undertaking an environmental database search (1) included in Appendix B.

Table 2.2 ±Surrounding Land Uses

Surrounding Area	N	Homewood road and mixed commercial and residential properties.
	E	Buildings associated with West Cumberland Hospital and open fields with a helipad.
	S	Residential properties and fields.
	W	Residential properties.

3.0 Site History

A review of the available historical mapping and other information for the site, as presented within the Envirocheck report (1), has been undertaken and is presented in Table 3.0a and Table 3.0b below respectively.

Table 3.0a ±Previous Site Uses and Potential Sources of Contamination

Date	Description	Potential Sources of Contamination
1865-1957	The subject site is spread across several bounded fields. Three trees are present on the western boundary of Boundary A and there is a single tree central to the area of Boundary B.	Potential use of herbicides and pesticides.
1961-1963	West Cumberland Hospital is first identified. The previously mentioned trees have been removed. Boundary A: A rectangular building is constructed in the eastern corner of the site as per present day as is a secondary rectangular building that is built parallel. A footpath provides access to these buildings from Homewood Road. A chimney is shown on the east of the site. Boundary B: An approximately rectangular building is constructed within the boundary as per present day.	Uncontrolled deposition of Made Ground from construction onsite.
1965-1968	A large phase of development occurs between O.S. publications and West Cumberland Hospital largely resembles the same general layout as per present day. Boundary A: Construction of numerous buildings, many remain till present day. A row of 8 No. square buildings are orientated toward NW-SE in the north west of the site. Several trees are planted along the north eastern site boundary. Boundary B: One additional structure is constructed in the eastern corner with associated footpaths.	Uncontrolled deposition of Made Ground from construction / demolition onsite.
1999	The site remains largely unchanged. Boundary A: The row of square structures previously mentioned appears to have been demolished in the north west of site and replaced by car parking. Boundary B: Remains unchanged.	Uncontrolled deposition of Made Ground from construction / demolition onsite.
1999-2019	Site remains largely unchanged until present day.	

Phase 1 Preliminary Risk Assessment

Table 3.0b ±Previous Surrounding Land Uses and Potential Sources of Contamination

Date	Description	Potential Sources of Contamination
1865-1867	The subject site is located in a predominantly rural setting. Three hamlets are present west of the site, the closest being Homewood which is 20m from the site boundary. A well associated with the settlement at Homewood is 40m to the west of the site. Overend Quarry is 200m north of the site and extends approximately 400m in a NW-SE orientation containing a limekiln and a lime works. Six-hundred metres beyond is an unidentified excavation. The town of Hensingham lies 600m beyond. A reservoir is identified on the western border of the town 675m north west of the site. A wooded area is approximately 80m east of the site boundary.	Potential use of herbicides and pesticides.
1899-1900	Farms are identified at the settlements at Hollins and Chapel House to the west. The well is no longer present. The town of Hensingham is seen to expand outwards. The reservoir to the west of the town is identified as Scragill Reservoir and is operated by Whitehaven Water Works. A second covered reservoir, Hensingham Reservoir, is present 900m north from the site. A substantial area of the Overend Quarry is backfilled. The previously mentioned unidentified excavations are now seen to be an old quarry. The limekiln and lime works are no longer present.	Potential use of herbicides and pesticides. Uncontrolled deposition of Made Ground from construction and infilling of Overend Quarry.
1926	Overend Quarry is no longer in operation. A spring is located 900m east of the site. Another reservoir is constructed 800m south west from the site.	Uncontrolled deposition of Made Ground from construction and infilling of Overend Quarry.
1938	The three hamlets to the west of the site are seen to expand outward whilst the town of Hensingham expands towards the south. Hensingham Sewerage Works is constructed west of Chapel House Farm 400m west of the site.	Uncontrolled deposition of Made Ground from construction / demolition.
1956-1957	The site is now surrounded in all orientations save for the south east by residential estates. Previously mentioned covered reservoir is now identified as the West Cumberland Silk Mills.	Uncontrolled deposition of Made Ground from construction / demolition.
1971-2019	Hospital buildings to the north are demolished. Residential areas expand up to the boundary of the site. The spring first identified in 1926 is now the location of a water works. / L O O T V 3 R Q G L V D V V X P H G W R K D Y U H E B constructed where it was previously found. Overend Quarry is now completely backfilled and is now identified as dunes. Industrial estate constructed 100-200m north of site first identified in 1987. Area then remains relatively unchanged until the present day.	Uncontrolled deposition of Made Ground from infilling process of Overend Quarry D Q G / L O O

Potential sources of onsite contamination are further discussed in Section 6.0. potential sources of contamination above not considered likely to impact the site have been discounted from the Preliminary Conceptual Site Model.

4.0 Geology, Hydrogeology and Hydrology

4.1 Geology and Hydrogeology

A study of the Envirocheck records, British Geological Survey (BGS) 1:50,000 mapping records (Bedrock and Superficial Editions) for Whitehaven (Sheet 028) (Ref.2) indicates the following geological and hydrogeological succession underlying the site.

Table 4.1 ±Geological/Hydrogeological Succession

Geology	Associated Hydrogeological Classification
Till, Devensian ¹	Secondary Undifferentiated ²
Hensingham Grit ³	Secondary A Aquifer ⁴
Stainmore Formation ⁵	Secondary A Aquifer ⁴

Notes:

1. Diamicton. Superficial Deposits formed up to 2 million years ago in the Quaternary Period. Local environment previously dominated by ice age conditions.
2. Assigned in cases where it has not been possible to attribute either category A or B to a rock type
3. Sandstone. Sedimentary Bedrock formed approximately 328 to 329 million years ago in the Carboniferous Period. Local environment previously dominated by rivers.
4. Permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers. These are generally aquifers formerly classified as minor aquifers.
5. Mudstone, Siltstone and Sandstone. Sedimentary Bedrock formed approximately 319 to 329 million years ago in the Carboniferous Period. Local environment previously dominated by swamps, estuaries and deltas.

The British Geological Society (BGS) identifies that superficial deposits of the Devensian Till underlies the entirety of the site. The solid geology comprises the Hensingham Grit which underlies a large proportion of Boundary A. The south western extent of Boundary A and the entirety of Boundary B is underlain by the Stainmore Formation.

There are no known faults underlying the site directly, however there are numerous faults in the nearby vicinity. The orientation of the faults varies greatly however generally strike in an NW-SE orientation

Details from freely available borehole logs taken from the BGS within close proximity to the site are summarised in Table 4.2 below.

Table 4.2 ±Borehole Records

Reference	Location (NGR)	Details (depth to top of strata/details/thickness)
NX91NE50/5 2	298730, 515980	0.40m bgl, Topsoil 3.75m bgl, Broken sandstone and sandy clay. 4.50m bgl, Grey sandstone. Borehole completed at 4.50m bgl.

Reference	Location (NGR)	Details (depth to top of strata/details/thickness)
NX91NE/80	299061, 516308	0.00m bgl, Firm to stiff brown sandy boulder clay. 1.50m bgl, Stiff brown sandy boulder clay. 3.20m bgl, Soft brown sandy clay and grey shale. 5.00m bgl, Dark grey weathered shale. 5.00m Borehole completed
NX91NE381	299890, 515910	0.00m bgl, Sandy gravelly cobbly clay. 6.70m bgl, Sand and gravel with cobbles and boulders. 8.35m bgl, Dark reddish brown sandstone. 18.00m bgl, Dark red sandy clayey siltstone. Borehole continues to 120m bgl prior to termination.

The north eastern spur of the site (within Boundary A) is within a zone of low vulnerability due to the underlying Secondary Superficial Aquifer in respect to groundwater vulnerability. The large proportion of the site is considered high vulnerability due to the underlying Secondary Superficial Aquifer.

There are no groundwater abstraction points located within 1km of the site and the site is not located with an Environment Agency designated Source Protection Zone (SPZ).

4.1.1 Mining

There are 21No. BGS Recorded Mineral Sites within 1km of the site. The closest refers to the aforementioned Overend Quarry approximately 200m east of the site.

The site is within a known coal mining region, however is not located within a development high risk area associated with potential zone of influence of surface or subsurface coal workings (3).

Based on the foregoing commentary, it is not considered there is a risk to the site from previous mining and mineral extraction activities; it is therefore not considered further.

4.1.2 Other Ground Stability Issues

The Envirocheck Report (1) confirms that there is a no hazard to low risk from the following ground stability hazards on and around the site; collapsible ground, compressible ground, ground dissolution, landslide, running sands and shrinking or swelling clay.

4.1.3 Ground Gas

There is a single (1No.) BGS Recorded Landfill Site entry 198m NE from the site, this refers to Overend Tip (former quarry).

There are 3No. Historic Landfill Site records within 830m of the site. The two closest refer to Overend Quarry approximately 200m north east of the site.

There are 3No. records of Potentially Infilled Land (non-water) within 1km of the site. The closest is 377m east of the site referring to unknown filled ground (pit, quarry, etc) in 1979.

There are 20 records of Potentially Infilled Land (water) within 1km of the site. A single entry is located within the site boundaries referring to unknown filled ground (pond, marsh, river, stream, dock, etc).

Two (2No.) Registered Landfill Sites are identified within the environmental database report. The closest is 195m north east of the site and also refers to Overend Quarry. The license is operated by Copeland B.C. for the disposal of gully waste and road sweepings.

The BGS Radon Mapping (4) confirms the site is situated in a lower probability radon area where <1% of homes are at or above the radon action level. On this basis radon protection measures are not considered necessary in the construction of new dwellings or extensions.

4.2 Hydrology

The nearest surface water feature is located 264m south west of the site. Which appears to relate to a small drain.

There are 17No. discharge consents within 1km of the site. The closest is 390m north east of the site and is operated by Copeland Athletic Stadium Trust for the discharge of surface water into a freshwater stream/river.

There are no surface water abstraction points recorded within 1km of the subject site.

There are 21 pollution incidents to controlled waters within 1km of the site. The closest refers to a Category 3 ±Minor incident which occurred in March 1992, 278m to the north west of the site relating to unknown oils being discharged into the Irish Sea catchment area.

5.0 Unexploded Ordnance Risk Assessment

Military activities including those conducted as part of both the First and Second World Wars have resulted in a legacy of unexploded ordnance (UXO) being present within the shallow soils of the UK.

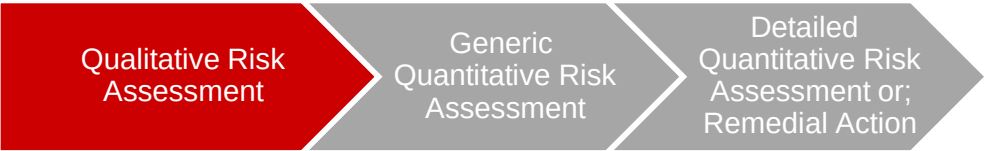
UXO result from various sources including both allied (military training) and German (bombing raids) with a guide figure of approximately 10% of all munitions failing to function as designed.

The likelihood of UXO being encountered on a development site is influenced by several factors including; the proximity to strategic targets, the nature of the development works being undertaken and evidence of local damage in the post-war periods amongst others. To determine the likelihood of UXO being present on a site, a step-wise risk assessment process is followed. This process is outlined within CIRIA C681 Unexploded Ordnance: A Guide for the Construction Industry (Ref.5) with the following commentary considered to represent a Preliminary Risk Assessment intended to guide if and where there is a requirement for a Detailed Risk Assessment.

5.1 UXO Risk Assessment

Risk mapping (5 IRU 8; 2 TV KDV SOD Flowchart (Appendix B). Low-risk areas are indicated as having 15 bombs per 1000 acre or less. In low risk areas, it may not be essential to undertake a detailed UXO risk assessment. Furthermore, no evidence of ruins is noted in post war mapping on site or in the surrounding area and there are no locally significant targets noted prior to or during WW2.

On this basis the risk from UXO is considered to be Low and no further assessment is required at this stage.



- x The table below represents the first stage in the land quality risk assessment process: The Qualitative Risk Assessment.
- x) R U D G H Y H O R S P H Q W V L W H W R E H C H I Y P H O G R U V X L W N D Q C H G R U W X V E H E W R X L J K W M O C e r y Z o r i s k R
- x The purpose of each stage of risk assessment is ultimately to establish, if there is a requirement for additional levels of assessment to be made to have sufficient confidence to support a risk characterisation or management decision, e.g. remedial action.
- x In the absence of specific site data, a Generic Quantitative Risk Assessment is invariably recommended.

Conceptual Site Model			Qualitative Risk Assessment			Recommended Actions
Source	Pathway(s)	Receptor(s)	Consequence	Likelihood of Occurrence	Risk Rating	
Made Ground of unknown composition from uncontrolled deposition of construction / demolition materials on site. Localised contamination within potential chimney base on site.	Direct contact, ingestion, inhalation (dust and vapours)	End-user of site & Construction Workers	Medium Chronic health risk	Low Likelihood Minimal phases of historic development and minimal significant sources of contamination identified. Construction Workers will be protected further by appropriate PPE and Health & Safety Measures.	Moderate / Low	Generic Quantitative Risk Assessment Contamination testing is recommended as part of the ground investigation.
	Vertical migration through the superficial deposits (soils) May occur due to existing service corridors and physical processes including; capillary action and downwards into the natural deposits through infiltration.	Controlled Waters (groundwater) High vulnerability of superficial Principal Aquifer. Secondary A Aquifer of bedrock. No groundwater abstraction points within 1km & the site is not within a designated Source Protection Zone.	Medium Pollution of sensitive water resources	Unlikely Widespread contamination is not anticipated given the limited site history and lack of industrial land use. Superficial Till deposits anticipated to have a low infiltration capacity. The risk to the aquifer is considered low due to no SPZ or abstraction points.	Low	Generic Quantitative Risk Assessment No further action required unless visual or olfactory evidence of significant contamination is encountered on site, in this case groundwater testing is recommended.
	Horizontal migration over and through the superficial deposits (soils)	Controlled Waters (surface water) There are no surface water courses within 250m of the site.	Medium Pollution of sensitive water resources	Unlikely Considering the considerable distance from the site to the nearest surface water feature, it is considered unlikely that any contamination would migrate to surface water receptors.	Low	No further action required.
Production of ground generating gases from surrounding areas of known infilled land (water and non-water).	Vertical and horizontal migration through existing service corridors and the underlying superficial deposits	End-user of site	Medium Human health risk	Low Numerous sources of possible ground gas identified in area surrounding site. Gas migration may be limited by superficial Glacial Till deposits.	Moderate/ Low	Generic Quantitative Risk Assessment Ground gas monitoring to confirm risk following the recommended ground investigation.

7.0 Conclusion and Recommendations

The qualitative risk assessment (QRA) determined a varied level of level of risk associated with the proposed development from Low to Moderate/Low.

The QRA concluded by recommending that generic quantitative risk assessments (GQRA) were conducted to confirm the assessment of risk ascribed to each of the respective potential pollutant linkages (PPLs). It is recommended that the GQRA is conducted as part of a ground investigation in support of the engineering design of the proposed development.

In summary, the following recommendations are made:

- x Undertake an intrusive ground investigation;
- x Undertake a GQRA as part of the ground investigation; and
- x Undertake ground gas monitoring.

It is further recommended that this work is completed in advance of any development works taking place.

7.1 Contaminants of Concern

Potential contaminants of concern associated with the sources identified within the Conceptual Site Model in Section 6.0 of this reporting include but are not limited to: broad range aliphatic and aromatic hydrocarbons 7 3 + present within any fuel oils; polycyclic aromatic hydrocarbons (PAHs); inorganic compounds including heavy metals and asbestos present in discarded building materials.

7.2 Other Considerations

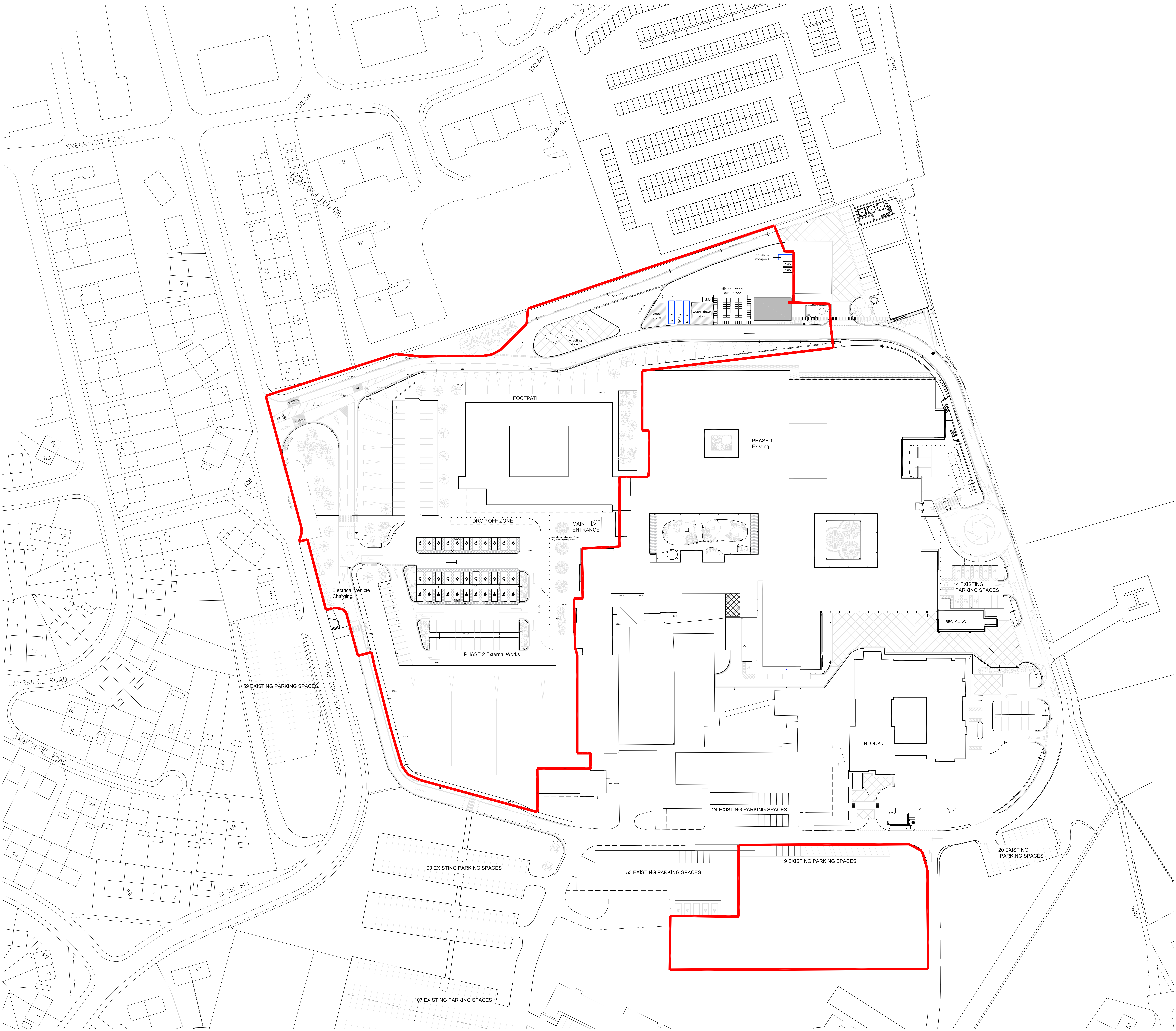
The requirement for additional surveys, e.g. arboricultural and ecological surveys, should be confirmed through advice from a suitably qualified and experienced professional.

8.0 References

1. Landmark (2019) Envirocheck Report (report no. 209787581_1_1).
2. British Geological Society (BGS) Solid and Drift Editions (2011) 1:50,000 mapping, Sheet No. 028 (Whitehaven).
3. Coal Authority Interactive Map Viewer, <http://mapapps2.bgs.ac.uk/coalauthority/home.html> (accessed April 2019).
4. UK Maps of Radon, <http://www.ukradon.org/information/ukmaps> (accessed July 2019).
5. Zetica Regional Unexploded Bomb Risk Map, <https://zeticauxo.com/downloads-and-resources/risk-maps/> (accessed July 2019).

Appendix A Drawings

- x WCH-GDA-VV-ZZ-DR-A-05_20-5501 P06 Proposed Site Plan



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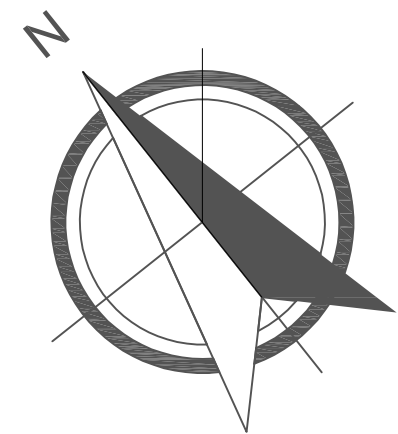
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SCALE 1: 500 m



POB	PMG	New Building Outline updated and new waste compound shown	21/01/20
P05	PMG	Car parking layouts added/updated	16/01/20
P04	PMG	Site boundary amended as shown clouded	16/07/19
P03	PN	Issued for Planning	27/06/19
P02	PMG	Residential Block Updated to allow for reduced bed/st numbers	17/06/19
P01	PMG	Issued for Information	27/03/19
Rev	By	Description	Date



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Client Name:
North Cumbria Univeristy Hospitals NHS Trust

Site Name:
West Cumberland Hospital

Project Name:
West Cumberland Hospital, Whitehaven - Phase 2

Drawing Title:
Proposed Site Plan

Project No: 8060c	Sheet Size: A0	Scale: 1/500	Revision: P06
Drawn by: PMG	Checked by: AG	Approved by: AG	Status: S2
Suitability: Suitable for Information			
Drawing Number: WCH-GDA-VV-ZZ-DR-A-05_20-5501			

Appendix B Supporting Information

- x Envirocheck Report.
- x Zetica UXO Risk Map

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

209787581_1_1

Customer Reference:

073096.300

National Grid Reference:

298950, 516040

Slice:

A

Site Area (Ha):

4.13

Search Buffer (m):

1000

Site Details:

West Cumberland Hospital, Homewood

Hensingham

WHITEHAVEN

CA28 8JG

Client Details:

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EC1V 0AP

Report Section	Page Number
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Hazardous Substances	-
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.

For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.

In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (W)	0	1	298900 516040
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	0	1	298947 516040
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	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	295	1	298550 515800
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	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	394	1	298750 515500
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	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	416	1	299100 515500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12NE (NW)	428	1	298500 516350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	429	1	299250 515600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	429	1	299000 515450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (E)	430	1	299500 515900
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	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	432	1	299200 515550
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	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	484	1	299600 516040
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	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	491	1	298750 515400
1	Discharge Consents Operator: Copeland Athletic Stadium Trust Property Type: SPORT, AMUSEMENT+RECREATION/GOLF CLUB/GYM/THEME PK/SPA Location: Copeland Athletic Stadium Swo, Hensingham, Whitehaven, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017490151 Permit Version: 1 Effective Date: 1st October 1994 Issued Date: Not Supplied Revocation Date: 1st October 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge Environment: Freshwater Stream/River Receiving Water: Trib River Keekle Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	390	2	299430 516330
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Grisedale Close Cso Whitehaven, ., ., Cumbria, Ca28 8df Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01COP0042 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 6th March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge Environment: Freshwater Stream/River Receiving Water: Pow Beck Status: Consent revoked or revised: New Consent issued (Section 3 7(1)) Positional Accuracy: Located by supplier to within 100m	A12SW (W)	729	2	298080 515940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Croasdale Avenue Cso Croasdale Avenue, Whitehaven, Cumbria, ., Ca28 9sn Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01cop0043 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 4th February 2016 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	778	2	298030 515940
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Croasdale Avenue Cso Croasdale Avenue, Whitehaven, Cumbria, ., Ca28 9sn Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0043 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A12SW (W)	778	2	298030 515940
2	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Croasdale Avenue Cso Croasdale Avenue, Whitehaven, Cumbria, ., Ca28 9sn Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01cop0043 Permit Version: 3 Effective Date: 5th February 2016 Issued Date: 5th February 2016 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	780	2	298028 515942
3	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Grisedale Close Cso Whitehaven, ., ., Cumbria, Ca28 8df Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480430 Permit Version: 2 Effective Date: 14th August 2017 Issued Date: 24th August 2017 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A12SW (W)	730	2	298080 515920

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Grisedale Close Cso Whitehaven, ., ., Cumbria, Ca28 8df Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480430 Permit Version: 1 Effective Date: 7th March 2005 Issued Date: 7th March 2005 Revocation Date: 13th August 2017 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A12SW (W)	730	2	298080 515920
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Ribton Moorside Cso 130 Main Street, Hensingham, Whitehaven, Cumbria, Ca28 8px Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017480288 Permit Version: 1 Effective Date: 30th September 1994 Issued Date: Not Supplied Revocation Date: 3rd March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Beck Status: Consent revoked or revised: New Consent issued (Section 3 7(1)) Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	772	2	298530 516875
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Ribton Moorside Cso 130 Main Street, Hensingham, Whitehaven, Cumbria, Ca28 8px Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0085 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 1st January 1995 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Beck Status: Consent revoked or revised: New Consent issued (Section 3 7(1)) Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	776	2	298530 516880
4	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Ribton Moorside Cso 130 Main Street, Hensingham, Whitehaven, Cumbria, Ca28 8px Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017480288 Permit Version: 3 Effective Date: 1st April 2018 Issued Date: 12th March 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Culverted Sec Of Snebra Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	780	2	298540 516890

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Ribton Moorside Cso 130 Main Street, Hensingham, Whitehaven, Cumbria, Ca28 8px Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 017480288 Permit Version: 2 Effective Date: 4th March 2005 Issued Date: 4th March 2005 Revocation Date: 31st March 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17NE (NW)	780	2	298540 516890
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Winston Drive Hensingham Cso 02632 Winston Drive, ., Whitehaven, Cumbria, Ca28 8rb Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480428 Permit Version: 2 Effective Date: 8th May 2018 Issued Date: 8th May 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A18NW (N)	777	2	298630 516930
5	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Winston Drive Hensingham Cso 02632 Winston Drive, ., Whitehaven, Cumbria, Ca28 8rb Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480428 Permit Version: 1 Effective Date: 7th March 2005 Issued Date: 7th March 2005 Revocation Date: 7th May 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Beck Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A18NW (N)	782	2	298640 516940
5	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Winston Drive Hensingham Cso 02632 Winston Drive, ., Whitehaven, Cumbria, Ca28 8rb Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01COP0005 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 6th March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Ghyll Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 100m	A18NW (N)	782	2	298640 516940

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Snebra Whitehaven Cso 023b2 145 Whinlatter Road, ., Whitehaven, Cumbria, Ca28 8dy Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0039 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 29th March 2004 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Snebra Ghyll Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	804	2	298310 516730
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Latrigg Rd Cso 022cj Cop0044 Latrigg Road, ., Whitehaven, Cumbria, Ca28 9ta Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01COP0044 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 6th March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Consent revoked or revised: New Consent issued (Section 3 7(1)) Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	829	2	298035 515655
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Latrigg Rd Cso 022cj Cop0044 Latrigg Road, ., Whitehaven, Cumbria, Ca28 9ta Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480431 Permit Version: 2 Effective Date: 3rd October 2018 Issued Date: 3rd October 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Clvrt Pow Beck Via Sws Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	832	2	298030 515660
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Latrigg Rd Cso 022cj Cop0044 Latrigg Road, ., Whitehaven, Cumbria, Ca28 9ta Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480431 Permit Version: 1 Effective Date: 7th March 2005 Issued Date: 7th March 2005 Revocation Date: 2nd October 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	832	2	298030 515660

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: United Utilities Water Plc (?) Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Meadow Rd, Whitehaven, Cumbria Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 017480432 Permit Version: 1 Effective Date: 7th March 2005 Issued Date: 7th March 2005 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NW (W)	832	2	298030 515661
7	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Meadow Rd, Whitehaven, Cumbria Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01COP0045 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: 1st January 1995 Revocation Date: 6th March 2005 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Consent revoked or revised: New Consent issued (Section 37(1)) Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	832	2	298030 515660
7	Discharge Consents Operator: North West Water Limited Property Type: Not Given Location: Latrigg Road , WHITEHAVEN Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: COP0044 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	832	2	298030 515660
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Snebra Whitehaven Cso 023b2 145 Whinlatter Road, ., Whitehaven, Cumbria, Ca28 8dy Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01cop0039 Permit Version: 3 Effective Date: 8th May 2018 Issued Date: 8th May 2018 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Pow Beck Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	865	2	298210 516700

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Snebra Whitehaven Cso 023b2 145 Whinlatter Road, ., Whitehaven, Cumbria, Ca28 8dy Authority: Environment Agency, North West Region Catchment Area: Ehen Reference: 01cop0039 Permit Version: 2 Effective Date: 30th March 2004 Issued Date: 30th March 2004 Revocation Date: 7th May 2018 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Pow Beck Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A17SW (NW)	865	2	298210 516700
9	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Seathwaite Avenue, Whitehaven, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Supplied Reference: 01cop0074 Permit Version: 2 Effective Date: 3rd September 2010 Issued Date: 3rd September 2010 Revocation Date: 11th April 2014 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A11SE (W)	889	2	297920 516030
9	Discharge Consents Operator: United Utilities Water Limited Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Seathwaite Avenue, Whitehaven, Cumbria Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01COP0074 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 2nd September 2010 Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Pow Beck Status: Post National Rivers Authority Legislation where issued > 31/08/1989 Positional Accuracy: Manually positioned to the road within the address or location	A11SE (W)	889	2	297920 516030
10	Local Authority Pollution Prevention and Controls Name: Cumberland Coal & Fireclay Ltd Location: Kidburngill Occs, MOOR ROW, Cumbria, CA24 3JZ Authority: Copeland Borough Council, Environmental Health Department Permit Reference: CBC/96/015 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorisation revoked Positional Accuracy: Automatically positioned to the address	A9SW (SE)	958	3	299474 515097
	Nearest Surface Water Feature	A12SE (SW)	264	-	298606 515763
11	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 11th March 1992 Incident Reference: 92120019 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12NE (NW)	278	2	298600 516200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Fuel Oil Note: Keele Tributary Incident Date: 25th March 1993 Incident Reference: 93210024 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	523	2	299600 516300
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Rubble/Litter Or Solids Note: Wyre; Waste Paint Incident Date: 29th April 1992 Incident Reference: 92120037 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	552	2	299200 515400
14	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Not Given Note: Keele Tributary; None Pollution Found Incident Date: 13th May 1993 Incident Reference: 93210036 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19SW (NE)	569	2	299600 516400
15	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Distribution System Location: Ennerdale Water Treatment Works, Keele Tributary Authority: Environment Agency, North West Region Pollutant: Chlorinated Water Note: Burst Water Main; Chlorinated Water Incident Date: 27th May 1997 Incident Reference: 97210042 Catchment Area: Ehen Receiving Water: Freshwater Stream/River Cause of Incident: Leaking Underground Pipe Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	582	2	299700 516095
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chemicals - Paints / Dyes Note: Pow Beck Tributary Incident Date: 15th August 1991 Incident Reference: 91120077 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	582	2	299700 516100
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Pow Beck Tributary Incident Date: 3rd June 1991 Incident Reference: 91120047 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	672	2	298600 516800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Cattle (Dairy) Farming: Other Location: Pow Beck Authority: Environment Agency, North West Region Pollutant: Agricultural: Dairy Parlour Washings Note: Farm Drainage Incident Date: 22nd April 1998 Incident Reference: NO980223 Catchment Area: Irish Sea Coastal Receiving Water: Freshwater Stream/River Cause of Incident: Poor Operational Practice Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	677	2	299400 515400
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Treatment Works Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Chlorinated Water Note: Keele Incident Date: 9th March 1995 Incident Reference: 95210029 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Leaking Underground Pipe Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SE (E)	689	2	299800 516000
19	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Snebri Beck; Fish Waste Incident Date: 17th September 1996 Incident Reference: 96120104 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18NW (N)	724	2	298700 516900
20	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Unknown Sewage Note: Snebro Beck Incident Date: 21st April 1993 Incident Reference: 93120052 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A17NE (N)	761	2	298600 516900
21	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Treatment Works Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Chlorinated Water Note: Keele Tributary; Chlorinated Water Incident Date: 21st February 1996 Incident Reference: 96210010 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NE (E)	782	2	299900 516100
22	Pollution Incidents to Controlled Waters Property Type: Connection To Surface Drains Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Sewage Debris/Litter Note: Pow Beck; Sewage Incident Date: 18th September 1996 Incident Reference: 96120107 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Wrong Connection Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	787	2	298100 515600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Oils - Unknown Note: Pow Beck; Oil Incident Date: 13th May 1996 Incident Reference: 96120054 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	811	2	298000 515900
24	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Fire water / Foam Note: Pow Beck Tributary; Fire Water Incident Date: 8th April 1996 Incident Reference: 96120034 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Fire Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	819	2	299500 515300
25	Pollution Incidents to Controlled Waters Property Type: Domestic/Residential Location: HENSINGHAM Authority: Environment Agency, North West Region Pollutant: Sewage - Wrong Connection Note: Stream Polluted With Sewage; Unnamed Tributary Of Snebra Beck; Probable Wrong Connection Incident Date: 18th April 1997 Incident Reference: 97120037 Catchment Area: Irish Sea Coastal Receiving Water: Freshwater Stream/River Cause of Incident: Wrong Connection Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (N)	853	2	298600 517000
26	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Sewerage Systems Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Storm Sewage Note: Snebro Beck; Sewage Debris Incident Date: 24th June 1994 Incident Reference: 94120063 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Miscellaneous/Other Pollution Type Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17NE (NW)	858	2	298300 516800
27	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Water Treatment Works Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Chlorinated Water Note: River Keekle; North West Water Treatment Incident Date: 2nd July 1996 Incident Reference: 96210056 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (E)	883	2	300001 516101
28	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Tributary Keekle; Sediment Incident Date: 18th March 1996 Incident Reference: 96210014 Catchment Area: Ehen Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SW (E)	888	2	300001 516001

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Diesel (Including Agricultural) Note: Pow Beck Tributary Incident Date: 11th February 1993 Incident Reference: 93120015 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A23SW (N)	898	2	298800 517100
30	Pollution Incidents to Controlled Waters Property Type: Boats/Ships Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Unknown Note: Not Determined Incident Date: 5th August 1994 Incident Reference: 94210084 Catchment Area: Ehen Receiving Water: Watercourse Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15SW (E)	904	2	300001 515901
31	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Cumbria Authority: Environment Agency, North West Region Pollutant: Not Given Note: None Pollution Found Incident Date: 6th April 1992 Incident Reference: 92120030 Catchment Area: Irish Sea Coastal Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A19NE (NE)	992	2	299700 516900
32	Prosecutions Relating to Authorised Processes Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Prosecution Text: Ref AR1213, Transfer of waste off site without authorisation. Prosecution Act: RSA60 Hearing Date: 30th March 1994 Verdict: Guilty Fine: 1 Costs: 1000 Positional Accuracy: Manually positioned to the address or location	A13NW (N)	0	2	298940 516115
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: Homewood, Hensingham, Whitehaven, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: CA5486 Dated: 29th June 2006 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298940 516115
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital,,, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: Bz7364 Dated: 22nd November 2005 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13NW (N)	0	2	298939 516114

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital,,, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: Bz7372 Dated: 22nd November 2005 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Manually positioned to the address or location	A13NW (N)	0	2	298940 516114
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: Homewood, Hensingham, Whitehaven, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: Bw5705 Dated: 1st December 2003 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298940 516115
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: Homewood, Hensingham, Whitehaven, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: Bl4931 Dated: 22nd August 2001 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298940 516115
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: Homewood, Hensingham, Whitehaven, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: Bl4966 Dated: 22nd August 2001 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298940 516115
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: AV1700 Dated: 28th May 1997 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NW (N)	0	2	298945 516120
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: AU6498 Dated: 27th October 1996 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NW (N)	0	2	298935 516115

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: AS5911 Dated: 13th November 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Initial variation to an authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NW (N)	0	2	298940 516110
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: AR1213 Dated: 5th May 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation has expired Positional Accuracy: Unknown	A13NW (N)	0	2	298935 516110
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: AJ0566 Dated: 16th July 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A13NW (N)	0	2	298940 516120
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood, WHITEHAVEN, Cumbria, CA28 8JG Authority: Environment Agency, North West Region Permit Reference: AG6761 Dated: 2nd March 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298940 516105
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood Road, Whitehaven, Ca28 8jg Authority: Environment Agency, North West Region Permit Reference: CC7650 Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied Status: Application has been determined by the EA Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298939 516109
33	Registered Radioactive Substances Name: North Cumbria University Hospitals Nhs Trust Location: West Cumberland Hospital, Homewood Road, Whitehaven, Ca28 8jg Authority: Environment Agency, North West Region Permit Reference: CD1967 Dated: Not Supplied Process Type: Not Supplied Description: Not Supplied Status: Application has been determined by the EA Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	2	298940 516115
34	Registered Radioactive Substances Name: Westlakes Scientific Consulting Ltd Location: Princess Royal Building, Westlakes Science And Technology Park, Moor Row, WHITEHAVEN, Cumbria, CA24 3LN Authority: Environment Agency, North West Region Permit Reference: BA2911 Dated: 21st February 1998 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation either revoked or cancelled Positional Accuracy: Manually positioned within the geographical locality	A9SW (SE)	958	2	299469 515092

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Registered Radioactive Substances Name: Westlakes Scientific Consulting Ltd Location: Princess Royal Building, Westlakes Science And Technology Park, Moor Row, WHITEHAVEN, Cumbria, CA24 3LN Authority: Environment Agency, North West Region Permit Reference: AP6095 Dated: 29th March 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Substantial variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A9SW (SE)	958	2	299469 515092
34	Registered Radioactive Substances Name: Westlakes Scientific Consulting Ltd Location: Princess Royal Building, Westlakes Science And Technology Park, Moor Row, WHITEHAVEN, Cumbria, CA24 3LN Authority: Environment Agency, North West Region Permit Reference: AQ1277 Dated: 29th March 1995 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A9SW (SE)	958	2	299469 515092
34	Registered Radioactive Substances Name: Westlakes Scientific Consulting Ltd Location: Princess Royal Building, Westlakes Science And Technology Park, Moor Row, WHITEHAVEN, Cumbria, CA24 3LN Authority: Environment Agency, North West Region Permit Reference: AH1099 Dated: 17th May 1993 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A9SW (SE)	958	2	299469 515092
34	Registered Radioactive Substances Name: Sellafield Ltd Location: Science Building, Westlakes Science And Technology Park, MOOR ROW, Cumbria, CA24 3JZ Authority: Environment Agency, North West Region Permit Reference: BH3002 Dated: 22nd December 1999 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Minor variation to a registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a new application Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	959	2	299464 515087
34	Registered Radioactive Substances Name: Westlakes Scientific Consulting Ltd Location: The Princess Royal Building, Ingwell Drive, Westlakes Science & Technology Park, MOOR ROW, Cumbria, CA24 3LN Authority: Environment Agency, North West Region Permit Reference: BA2954 Dated: 21st February 1998 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A9SW (SE)	959	2	299469 515092
34	Registered Radioactive Substances Name: Vt Nuclear Services Limited Location: Environmental Laboratory, Westlakes Science And Technology Park, MOOR ROW, Cumbria, CA24 3HZ Authority: Environment Agency, North West Region Permit Reference: CE2438 Dated: 5th December 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Minor variation to authorisation under RSA Status: Authorisation either revoked or cancelled Positional Accuracy: Automatically positioned to the address	A9SW (SE)	960	2	299469 515090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Registered Radioactive Substances Name: Vt Nuclear Services Limited Location: Environmental Laboratory, Westlakes Science And Technology Park,, MOOR ROW, Cumbria, CA24 3HZ Authority: Environment Agency, North West Region Permit Reference: CC8508 Dated: 30th March 2009 Process Type: Authorisation under S13 RSA for the disposal of Radioactive waste (was RSA60 S7) Description: Authorisation under RSA Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Automatically positioned to the address	A9SW (SE)	960	2	299469 515090
34	Registered Radioactive Substances Name: British Nuclear Group Sellafield Ltd Location: Science Building, Westlakes Science & Technology Park, Moor Road, MOOR ROW, Cumbria, CA24 3JZ Authority: Environment Agency, North West Region Permit Reference: AA7587 Dated: 7th October 1991 Process Type: Registration under S7 RSA for the keeping and use of Radioactive materials (was RSA60 S1) Description: Registration under the Act of an open source which is also the subject of an authorisation Status: Authorisation superseded by a substantial or non substantial variation Positional Accuracy: Unknown	A9SW (SE)	966	2	299474 515087
35	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 21st January 2004 Incident Reference: 211993 Water Impact: Category 1 - Major Incident Air Impact: Category 4 - No Impact Land Impact: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Inorganic Chemicals : Alkalis	A9SW (SE)	974	2	299495 515091
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 2 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	1052	2	299530 515020
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 1 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	1052	2	299530 515020

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 2 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	1387	2	299780 514790
	Water Abstractions Operator: Westlakes Properties Ltd Licence Number: 2774002010 Permit Version: 1 Location: Spring Fed Catchpit @ Westlakes S&T Park, Moor Row Authority: Environment Agency, North West Region Abstraction: Research Non-University/College: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Westlakes S&T Park, Moor Row, Cumbria Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th December 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A4NE (SE)	1387	2	299780 514790
	Water Abstractions Operator: Whitehaven Brick & Tile Co Ltd Licence Number: 2774002003 Permit Version: Not Supplied Location: Inland Water At Fire Brick Works, WHITEHAVEN, Cumbria Authority: Environment Agency, North West Region Abstraction: Manufacturing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1 Yearly Rate (m3): 455 Details: Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A16SW (W)	1669	2	297300 516700
	Water Abstractions Operator: Keir Mining Licence Number: 2774004005 Permit Version: Not Supplied Location: Priestgill Beck, Hensingham, WHITEHAVEN, Cumbria Authority: Environment Agency, North West Region Abstraction: Industrial: Coal Washing Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 327 Yearly Rate (m3): 25639 Details: Additional Purpose: Coal washing; Licence Status: Revoked Authorised Start: Not Supplied Authorised End: Not Supplied Permit Start Date: Not Supplied Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(NE)	1992	2	299800 518000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: Low	A13SW (S)	0	4	298947 516000
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - High Vulnerability Combined Vulnerability: High Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: High Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: >70% Superficial Patchiness: <90% Superficial Thickness: <3m Superficial Recharge: Low	A13SW (SW)	0	4	298947 516040
	Groundwater Vulnerability Map Combined Classification: Secondary Superficial Aquifer - Low Vulnerability Combined Vulnerability: Low Combined Aquifer: Productive Bedrock Aquifer, Productive Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: >550 mm/year Baseflow Index: <40% Superficial Patchiness: >90% Superficial Thickness: 3-10m Superficial Recharge: Low	A13SE (E)	0	4	299000 516040
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A13SW (SW)	0	4	298947 516040
	Groundwater Vulnerability - Soluble Rock Risk Classification: Significant Risk - Low Possibility	A13SE (E)	0	4	299000 516040
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (SW)	0	4	298947 516040
	Superficial Aquifer Designations Aquifer Designation: Secondary Aquifer - Undifferentiated	A13SW (SW)	0	4	298947 516040
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
36	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 25.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SE (SW)	265	5	298605 515762
37	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 13.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SE (SW)	266	5	298589 515787
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 44.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (W)	388	5	298470 516166
39	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 117.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (NE)	397	5	299446 516320
40	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (W)	407	5	298437 516142
41	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NE (W)	408	5	298436 516142
42	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 30.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (E)	421	5	299463 515853
43	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 163.2 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14SW (E)	424	5	299461 515846
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 156.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	520	5	299528 516421

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 290.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8NE (SE)	522	5	299257 515460
46	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	526	5	299500 516460
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 5.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	526	5	299509 516448
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 73.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	529	5	299466 515683
49	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (NE)	530	5	299600 516317
50	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (NE)	533	5	299606 516313
51	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	535	5	299459 516508
52	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 282.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A19SW (NE)	536	5	299462 516508
53	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.8 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	537	5	299321 515512

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
54	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 40.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	542	5	299321 515512
55	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 93.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	545	5	299416 515616
56	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 401.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NW (E)	548	5	299620 516318
57	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	549	5	299428 515621
58	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 1.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	549	5	299430 515622
59	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 186.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	549	5	299431 515623
60	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	554	5	299375 515549
61	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 74.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	556	5	299356 515529
62	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.7 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	556	5	299375 515549

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NW (W)	587	5	298255 516172
64	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 16.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	604	5	299403 515510
65	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 155.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	607	5	299102 515294
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 37.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	607	5	299097 515292
67	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 47.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A9NW (SE)	617	5	299408 515494
68	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	629	5	299074 515262
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 122.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	644	5	299062 515244
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 247.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	644	5	299090 515249
71	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	672	5	298591 516795

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 132.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (S)	688	5	298926 515182
73	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SE (S)	696	5	298968 515176
74	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 4.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (S)	702	5	298860 515169
75	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 9.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (S)	704	5	298852 515168
76	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (S)	706	5	298859 515165
77	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 65.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	714	5	298528 516805
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 452.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A7NW (SW)	719	5	298205 515545
79	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (S)	725	5	298854 515147
80	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 199.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A8SW (S)	727	5	298847 515146

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 51.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	743	5	298466 516796
82	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 53.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SE (NW)	746	5	298372 516712
83	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	758	5	298050 515949
84	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 42.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (N)	771	5	298610 516915
85	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 92.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (N)	772	5	298607 516915
86	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 82.0 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	773	5	298417 516795
87	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	775	5	298034 515940
88	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 50.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	776	5	298033 515947
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 75.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18NW (N)	780	5	298642 516938

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
90	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 281.5 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	787	5	298021 515996
91	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 197.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A12SW (W)	787	5	298021 515996
92	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 12.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	791	5	298348 516752
93	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 227.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	791	5	298519 516890
94	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 19.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SW (NW)	796	5	298179 516529
95	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 325.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SW (NW)	796	5	298179 516529
96	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 260.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17SW (NW)	808	5	298161 516522
97	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 48.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18NW (N)	830	5	298674 517002
98	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18NW (N)	835	5	298757 517029

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 602.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	837	5	299908 516375
100	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 233.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A18NW (N)	858	5	298702 517040
101	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A12NW (W)	860	5	297974 516186
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A14NE (E)	869	5	299970 516268
103	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 698.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15NW (E)	871	5	299976 516248
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15NW (E)	871	5	299975 516249
105	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A3NW (S)	874	5	298730 515015
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 162.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A3NW (S)	883	5	298748 515002
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 168.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	899	5	298303 516862

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	899	5	298303 516862
109	OS Water Network Lines Watercourse Form: Lake Watercourse Length: 12.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A17NE (NW)	909	5	298307 516878
110	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 52.1 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A12NW (W)	914	5	297982 516365
111	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 43.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A15SW (E)	919	5	299979 515776
112	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 311.5 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Snebra Beck Catchment Name: Ehen-Calder Primacy: 1	A17NW (NW)	942	5	298173 516780
113	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 33.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A11NE (W)	945	5	297936 516339
114	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 234.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A3NW (S)	949	5	298915 514921
115	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 202.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Ehen-Calder Primacy: 1	A11NE (W)	972	5	297918 516367
116	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 133.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Pow Beck Catchment Name: Ehen-Calder Primacy: 1	A11NE (W)	972	5	297918 516367

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	BGS Recorded Landfill Sites Site Name: Overend Tip Location: Hensingham, WHITEHAVEN, Cumbria Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good	A13NE (NE)	198	-	299130 516323
118	Historical Landfill Sites Licence Holder: Copeland Borough Council Location: Overend Road, Overend, Hensingham, Whitehaven, Cumbria Name: Overend Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07856 First Input Date: 31st December 1942 Last Input Date: 31st December 1988 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0173 BGS Ref: Not Supplied Other Ref: 22	A13NE (NE)	167	2	299190 516248
119	Historical Landfill Sites Licence Holder: Not Supplied Location: Hensingham, Whitehaven, Cumbria Name: Overend Tip Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD32010 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 25 Other Ref: Not Supplied	A13NE (NE)	181	2	299131 516323
120	Historical Landfill Sites Licence Holder: Eden Construction Limited Location: Adjacent to Snebra Ghyll, Hensingham, Whitehaven, Cumbria Name: Land off Hensingham Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07855 First Input Date: 6th July 1991 Last Input Date: 7th October 1992 Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 0900/0008 BGS Ref: Not Supplied Other Ref: 153	A17NE (NW)	827	2	298478 516907
	Local Authority Landfill Coverage Name: Copeland Borough Council - Has supplied landfill data		0	3	298947 516040
	Local Authority Landfill Coverage Name: Cumbria County Council - Had landfill data but passed it to the relevant environment agency		0	6	298947 516040
121	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1979	A14NW (E)	377	-	299479 516207
122	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1979	A18NE (N)	639	-	299123 516818
123	Potentially Infilled Land (Non-Water) Bearing Ref: N Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1979	A23SE (N)	926	-	298978 517135

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
124	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13NW (NW)	0	-	298877 516089
125	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A13NW (W)	98	-	298756 516100
126	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A18SW (NW)	219	-	298788 516382
127	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SE (W)	247	-	298562 516003
128	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A14NW (NE)	315	-	299404 516231
129	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A14NW (E)	442	-	299551 516187
130	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SE (W)	446	-	298376 515863
131	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SE (W)	481	-	298327 515960
132	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A12SE (SW)	528	-	298328 515728
133	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A17SE (NW)	597	-	298405 516512
134	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7NW (SW)	753	-	298149 515576
135	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SW (W)	765	-	298047 515877
136	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A17SW (NW)	818	-	298229 516644
137	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A18NW (N)	831	-	298773 517028
138	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1957	A18NW (N)	832	-	298883 517042
139	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A23SE (N)	906	-	299098 517101
140	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7NW (SW)	932	-	298015 515449
141	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A17NW (NW)	939	-	298176 516778
142	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1867	A11SE (W)	982	-	297826 515945
143	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A23SE (N)	992	-	299081 517191
144	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A7SW (SW)	992	-	298050 515292

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
145	Registered Landfill Sites Licence Holder: Copeland B.C Licence Reference: 22 Site Location: Overend Quarry, Overend Road, Whitehaven, Cumbria Licence Easting: Not Supplied Licence Northing: Not Supplied Operator Location: Town Hall, Whitehaven, Cumbria Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Undefined Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 31st August 1977 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate Authorised Waste: Gulley Emptyings Road Sweepings/Litter	A13NE (NE)	195	2	299134 516320
146	Registered Landfill Sites Licence Holder: Eden Construction Ltd Licence Reference: 153/M1 Site Location: Hensingham Road, Snebra Ghyll, Hensingham, Whitehaven, Cumbria Licence Easting: 298450 Licence Northing: 516950 Operator Location: Durrhill, CARLISLE, Cumbria, CA1 3NR Authority: Environment Agency - North West Region, North Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: Waste produced/controlled by licence holder Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st June 1991 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: H'Core, Concrete, Brick, Slate, Glass, Cera Inert Mat'L Consisting Of Soil, Sand, Clay, Stone Prohibited Waste: Animal Flesh Clinical - As In Coll/Disp.Reg's Of '88 Difficult Wastes As In Doe Wmp No.26 Foodstuffs Leachate Forming Mat'ls Incl. Liquid Wastes Metal Objects Paper/Cardboard Waste Plasterboard/Plaster Plastic Objects Sawdust Special Wastes Textiles Vegetable Matter Wood/Timber	A17NE (NW)	878	2	298450 516950
147	Registered Waste Treatment or Disposal Sites Licence Holder: West Cumbria Health Care Nhs Trust Licence Reference: 232 Site Location: West Cumberland Hospital, WHITEHAVEN, Cumbria, CA28 9JG Operator Location: As Site Address Authority: Environment Agency - North West Region, North Area Site Category: Storage Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st October 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Clin.Waste Grps Aa,B,C,B,C,D,E Prohibited Waste: Animal Carcasses From Vets/Sim'R Premises Waste N.O.S.	A13NW (NW)	0	2	298900 516100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Yoredale Group	A13SW (SW)	0	1	298947 516040
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SW (SW)	0	1	298947 516040
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13NE (NE)	185	1	299200 516278
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (NE)	310	1	299264 516380
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A18SE (N)	369	1	299120 516524
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: 25 - 35 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A19SW (NE)	399	1	299339 516440
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: <15 mg/kg	A14NW (NE)	544	1	299592 516365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A14NE (E)	591	1	299709 516094
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	625	1	299737 516182
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A14NE (E)	632	1	299738 516221
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A19SW (NE)	650	1	299621 516509
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel <15 mg/kg Concentration:	A9SW (SE)	900	1	299634 515316
148	BGS Recorded Mineral Sites Site Name: Overend Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 98348 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: First Limestone (Cumbria) Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A14NW (E)	249	1	299345 516200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
149	BGS Recorded Mineral Sites Site Name: Overend Quarry Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 16708 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: First Limestone (Cumbria) Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	256	1	299120 516390
150	BGS Recorded Mineral Sites Site Name: Litt'S Pond Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 98347 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Second Limestone (Cumbria) Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A14NW (E)	333	1	299425 516225
151	BGS Recorded Mineral Sites Site Name: Overend Quarry Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 98346 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Second Limestone (Cumbria) Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	338	1	299225 516425
152	BGS Recorded Mineral Sites Site Name: Overend Quarry Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 16707 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: First Limestone (Cumbria) Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A18SE (N)	408	1	298980 516615
153	BGS Recorded Mineral Sites Site Name: Netherend Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 98349 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: First Limestone (Cumbria) Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A14NW (E)	446	1	299555 516185
154	BGS Recorded Mineral Sites Site Name: Overend Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 98350 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Eskett Limestone Formation Commodity: Limestone Positional Accuracy: Located by supplier to within 10m	A19SW (NE)	468	1	299475 516400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
155	BGS Recorded Mineral Sites Site Name: Low Hall Colliery Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147942 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NE (SE)	551	1	299220 515415
156	BGS Recorded Mineral Sites Site Name: Thurnham Pits Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147941 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	596	1	298982 515278
157	BGS Recorded Mineral Sites Site Name: Overend Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 98345 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Hensingham Grit Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A18NE (N)	638	1	299115 516820
158	BGS Recorded Mineral Sites Site Name: Thurnham Pits Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147940 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	738	1	299093 515155
159	BGS Recorded Mineral Sites Site Name: Thurnham Pits Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147939 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	777	1	299068 515109
160	BGS Recorded Mineral Sites Site Name: Low Hall Colliery Pit Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147944 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Six Quarters Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	780	1	299282 515185

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
160	BGS Recorded Mineral Sites Site Name: Ingwell Pit Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147945 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Six Quarters Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8SE (S)	780	1	299282 515185
161	BGS Recorded Mineral Sites Site Name: Low Hall Colliery Pit Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147943 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Six Quarters Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	781	1	299350 515225
162	BGS Recorded Mineral Sites Site Name: Thurnham Pits Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147938 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (S)	854	1	299015 515022
163	BGS Recorded Mineral Sites Site Name: Ingwell Pit Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147946 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Six Quarters Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	897	1	299366 515098
164	BGS Recorded Mineral Sites Site Name: Scalegill Quarry Location: Mirehouse East, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147935 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A3NW (S)	963	1	298905 514907
165	BGS Recorded Mineral Sites Site Name: Railway Pit Location: Mirehouse East, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147937 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (S)	969	1	299000 514905

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	BGS Recorded Mineral Sites Site Name: Crowpark Quarry Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147936 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Triassic Geology: St Bees Sandstone Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9SW (SE)	979	1	299587 515162
167	BGS Recorded Mineral Sites Site Name: Ingwell Pit Location: Hensingham, Whitehaven, Cumbria Source: British Geological Survey, National Geoscience Information Service Reference: 147947 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Six Quarters Coal (Cumbria) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A4NW (SE)	980	1	299403 515023
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (SW)	0	7	298947 516040
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (SW)	0	-	298947 516040
	Man-Made Mining Cavities Easting: 299900 Northing: 515500 Distance: 984 Quadrant Reference: A9 Quadrant Reference: NE Bearing Ref: SE Cavity Type: Not supplied Commodity: Hematite Solid Geology Detail: No Details Superficial Geology: No Details Detail:	A9NE (SE)	984	8	299900 515500
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	247	1	299260 516308
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	197	1	299230 516259
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	197	1	299134 516319
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	185	1	299200 516278
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	197	1	299160 516309
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	11	1	298824 516048
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	92	1	298755 515851
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	214	1	299166 515832
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A8NW (SW)	217	1	298743 515692
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (W)	90	1	298766 516105
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	214	1	299222 515881
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	104	1	298772 516170
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	197	1	299134 516319
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	217	1	299222 515881
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	0	1	298947 516040

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
168	Contemporary Trade Directory Entries Name: Ward 4 Original Site Location: Homewood, Hensingham, Whitehaven, CA28 8JG Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	-	298940 516115
168	Contemporary Trade Directory Entries Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, Cumbria, CA28 8JG Classification: Hospitals Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (N)	0	-	298940 516115
169	Contemporary Trade Directory Entries Name: Weathermaster Location: Unit 7d, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: PVC-U Products - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	67	-	299074 516200
169	Contemporary Trade Directory Entries Name: Poly Pack Cumbria Location: Unit 7c, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Polythene & Plastic Sheeting Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	69	-	299065 516207
170	Contemporary Trade Directory Entries Name: Robson'S Bodyworks Location: Unit 2A, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	117	-	299065 516263
170	Contemporary Trade Directory Entries Name: R S B Auto-Body Repairers & Refinishers Location: Unit 2A, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	117	-	299065 516263
170	Contemporary Trade Directory Entries Name: Lakeland Fluid Power Ltd Location: Unit 9a-9b, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Classification: Pneumatic Systems & Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	118	-	299065 516264
170	Contemporary Trade Directory Entries Name: Sneckyeet Garage Location: Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	161	-	299078 516306
170	Contemporary Trade Directory Entries Name: Irving Ironing & Laundry Services Location: Unit 3f, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	190	-	299105 516324
170	Contemporary Trade Directory Entries Name: Vivvy Lees Location: Unit 3, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Classification: Printers Textile Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	195	-	299111 516327
171	Contemporary Trade Directory Entries Name: A C Reid Engineering Location: Unit 6, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	123	-	299097 516252
171	Contemporary Trade Directory Entries Name: A C Reid Location: Unit 6-7, Sneckyeat Rd Ind Est, Whitehaven, Cumbria, CA28 8PF Classification: Engineering Machine Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NE (NE)	123	-	299096 516252

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	Contemporary Trade Directory Entries Name: Print Express Location: Unit 1, Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	133	-	299004 516317
172	Contemporary Trade Directory Entries Name: Speedy Location: Sneckyeat Road Industrial Estate, Whitehaven, Cumbria, CA28 8PF Classification: Lifting Equipment Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (N)	174	-	299028 516352
173	Contemporary Trade Directory Entries Name: Whiteline Tyres Ltd Location: Unit 10h, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	144	-	299178 516229
173	Contemporary Trade Directory Entries Name: West Cumbria Mining Location: Unit 10d, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Classification: Metals - Mining Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	145	-	299178 516229
174	Contemporary Trade Directory Entries Name: Border Road Markings Location: 5, Greystone Close, Whitehaven, Cumbria, CA28 8HR Classification: Road Marking & Surfacing Equipment & Material Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	503	-	298450 515574
175	Contemporary Trade Directory Entries Name: G & M Supplies Ltd Location: Ivy Mill, Main Street, Hensingham, Whitehaven, Cumbria, CA28 8TP Classification: Catering Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	869	-	298998 517077
176	Contemporary Trade Directory Entries Name: Lifttech North West Location: 3, Stanley View, Mirehouse, Whitehaven, Cumbria, CA28 8JB Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	869	-	298297 515210
177	Contemporary Trade Directory Entries Name: The Cleaning Genie Location: 3, Latrigg Road, Whitehaven, Cumbria, CA28 9TB Classification: Cleaning Services - Domestic Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (SW)	913	-	298020 515479
178	Contemporary Trade Directory Entries Name: Cumberland Coal & Fire Clay Ltd Location: Westlakes Science & Technology Pk, Moor Row, Cumbria, CA24 3JZ Classification: Coal Mining Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	958	-	299469 515092
178	Contemporary Trade Directory Entries Name: Geoffrey Schofield Location: Geoffrey Schofield Laboratories, Crow Pk Way, Westlakes Science & Technology, Moor Row, Cumbria, CA24 3HZ Classification: Laboratories Status: Inactive Positional Accuracy: Manually positioned to the address or location	A9SW (SE)	960	-	299470 515090
179	Contemporary Trade Directory Entries Name: Sekers Fabrics Ltd Location: The Silk Mill, Main Street, Hensingham, Whitehaven, Cumbria, CA28 8QT Classification: Textile Manufacturing Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	965	-	299079 517164

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	Contemporary Trade Directory Entries Name: Sekers Fabrics Location: The Silk Mill, Main Street, Hensingham, WHITEHAVEN, Cumbria, CA28 8QT Classification: Upholstery Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A23SE (N)	965	-	299079 517164
180	Contemporary Trade Directory Entries Name: Fairy Dust Location: 197, Meadow Road, Whitehaven, Cumbria, CA28 9JH Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A6NE (W)	996	-	297856 515670
181	Points of Interest - Commercial Services Name: Tony's Servicing & Repairs Location: Unit 8b, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	28	9	298976 516212
181	Points of Interest - Commercial Services Name: Tony's Servicing & Repairs Location: Unit 8b, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (N)	28	9	298976 516212
182	Points of Interest - Education and Health Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, CA28 8JG Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NW (N)	0	9	298940 516115
182	Points of Interest - Education and Health Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, CA28 8JG Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NW (NW)	0	9	298876 516070
182	Points of Interest - Education and Health Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, CA28 8JG Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NW (NW)	0	9	298876 516070
182	Points of Interest - Education and Health Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, CA28 8JG Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NW (N)	0	9	298940 516114
182	Points of Interest - Education and Health Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, CA28 8JG Category: Health Practitioners and Establishments Class Code: Accident & Emergency Department Positional Accuracy: Positioned to address or location	A13NW (N)	0	9	298940 516115
182	Points of Interest - Education and Health Name: West Cumberland Hospital Location: Homewood, Hensingham, Whitehaven, CA28 8JG Category: Health Practitioners and Establishments Class Code: Hospitals Positional Accuracy: Positioned to address or location	A13NW (N)	0	9	298940 516115
183	Points of Interest - Manufacturing and Production Name: West Cumbria Mining Location: Unit 10d, Sneckyeat Road Industrial Estate, Whitehaven, CA28 8PF Category: Extractive Industries Class Code: Ore Mining Positional Accuracy: Positioned to address or location	A13NE (NE)	145	9	299178 516229
183	Points of Interest - Manufacturing and Production Name: Industrial Estate Location: CA28 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	150	9	299119 516270

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
184	Points of Interest - Manufacturing and Production Name: Overend Quarry (Disused) Location: CA28 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A18SE (N)	396	9	299038 516590
185	Points of Interest - Manufacturing and Production Name: Messrs Cartmel Ltd Location: High Low Hall, Hensingham, Whitehaven, CA28 8XZ Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A9NW (SE)	593	9	299376 515495
186	Points of Interest - Manufacturing and Production Name: Tank Location: CA28 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A18NE (N)	834	9	299044 517036
187	Points of Interest - Manufacturing and Production Name: Tank Location: CA28 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	837	9	299944 515962
188	Points of Interest - Manufacturing and Production Name: G M & H Palmer Location: Low Hall Farm, Egremont Road, Hensingham, Whitehaven, CA28 8YB Category: Farming Class Code: Livestock Farming Positional Accuracy: Positioned to address or location	A3NW (S)	877	9	298656 515026
189	Points of Interest - Manufacturing and Production Name: Tank Location: CA28 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to address or location	A23SE (N)	921	9	299120 517111
189	Points of Interest - Manufacturing and Production Name: Tanks Location: CA28 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A23SE (N)	921	9	299120 517111
190	Points of Interest - Public Infrastructure Name: Graveyard Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17NE (N)	719	9	298612 516859
190	Points of Interest - Public Infrastructure Name: Graveyard Location: CA28 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A17NE (N)	719	9	298612 516859
191	Points of Interest - Public Infrastructure Name: Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A23SW (N)	930	9	298862 517139
191	Points of Interest - Public Infrastructure Name: Cemetery Location: CA28 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A23SW (N)	930	9	298862 517139
192	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	270	9	298943 516480

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
192	Points of Interest - Recreational and Environmental Name: Playground Location: Sneckyeat Grove, CA28 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A18SW (N)	270	9	298943 516480
193	Points of Interest - Recreational and Environmental Name: Playground Location: Seathwaite Avenue, CA28 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A11SE (W)	879	9	297931 515910

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Copeland Borough Council - Environmental Health Department	October 2014	Annual Rolling Update
Discharge Consents Environment Agency - North West Region	April 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North West Region	April 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control Copeland Borough Council - Environmental Health Department	February 2015	Variable
Local Authority Pollution Prevention and Controls Copeland Borough Council - Environmental Health Department	February 2015	Not Applicable
Local Authority Pollution Prevention and Control Enforcements Copeland Borough Council - Environmental Health Department	February 2015	Variable
Nearest Surface Water Feature Ordnance Survey	January 2019	
Pollution Incidents to Controlled Waters Environment Agency - North West Region	January 2000	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North West Region	March 2013	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North West Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North West Region - North Area	April 2019	Quarterly
Water Abstractions Environment Agency - North West Region	April 2019	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	Annually
Groundwater Vulnerability - Soluble Rock Risk Environment Agency - Head Office	June 2018	Annually
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	January 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2019	Quarterly

Agency & Hydrological	Version	Update Cycle
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	May 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	May 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	May 2019	Quarterly
Flood Defences Environment Agency - Head Office	May 2019	Quarterly
OS Water Network Lines Ordnance Survey	January 2019	Quarterly
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	Annually
Surface Water Suitability Environment Agency - Head Office	October 2013	Annually
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	July 2018	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North West Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North West Region - North Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - North Area	April 2019	Quarterly
Local Authority Landfill Coverage Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	May 2000 May 2000	Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Copeland Borough Council - Environmental Health Department Cumbria County Council - Economy And Environment Department	May 2000 May 2000	Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - North Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Copeland Borough Council - Planning Cumbria County Council - Development Control Lake District National Park	February 2016 February 2016 February 2016	Variable Variable Variable
Planning Hazardous Substance Consents Copeland Borough Council - Planning Cumbria County Council - Development Control Lake District National Park	February 2016 February 2016 February 2016	Variable Variable Variable
Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	April 2019	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	Annual Rolling Update
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	January 2019	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	Annually
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	Annually

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	April 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	May 2019	Quarterly
Gas Pipelines National Grid	July 2014	
Points of Interest - Commercial Services PointX	November 2018	Quarterly
Points of Interest - Education and Health PointX	November 2018	Quarterly
Points of Interest - Manufacturing and Production PointX	November 2018	Quarterly
Points of Interest - Public Infrastructure PointX	November 2018	Quarterly
Points of Interest - Recreational and Environmental PointX	November 2018	Quarterly
Underground Electrical Cables National Grid	December 2015	
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2018	Bi-Annually
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	January 2018	Bi-Annually
National Nature Reserves Natural England	June 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

Data Supplier	Data Supplier Logo
Ordnance Survey	
Environment Agency	
Scottish Environment Protection Agency	
The Coal Authority	
British Geological Survey	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	Copeland Borough Council - Environmental Health Department P O Box 19, Council Offices, Catherine Street, Whitehaven, Cumbria, CA28 7NY	Telephone: 01946 852585 Fax: 01946 590123 Email: dev.env@copelandbc.gov.uk Website: www.copelandbc.gov.uk
4	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Cumbria County Council - Economy And Environment Department Citadel Chambers, Citadel Row, Carlisle, Cumbria, CA3 8SG	Telephone: 01228 606718 Website: www.cumbria.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	Peter Brett Associates Caversham Bridge House, Waterman Place, Reading, Berkshire, RG1 8DN	Telephone: 0118 950 0761 Fax: 0118 959 7498 Email: reading@pba.co.uk Website: www.pba.co.uk
9	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
10	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

Please note that the Environment Agency / Natural Resources Wales / SEPA have a charging policy in place for enquiries.

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Not Supplied - Holocene
	WMGR	Infilled Ground	Artificial Deposit	Not Supplied - Holocene
	WGR	Worked Ground (Undivided)	Void	Not Supplied - Holocene
	LSGR	Landscaped Ground (Undivided)	Artificially Modified Ground	Not Supplied - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Water, Type Unspecified	Not Supplied - Not Supplied
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Not Supplied - Holocene
	TILLD	Till, Devensian	Diamicton	Not Supplied - Devensian
	GFDUD	Glaciofluvial Deposits, Devensian	Sand and Gravel	Not Supplied - Devensian
	ALF	Alluvial Fan Deposits	Sand and Gravel	Not Supplied - Quaternary
	RTDU	River Terrace Deposits (Undifferentiated)	Clay, Sand and Gravel	Not Supplied - Quaternary
	RTD1	River Terrace Deposits, 1	Clay, Sand and Gravel	Not Supplied - Quaternary
	PEAT	Peat	Peat	Not Supplied - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SBS	St Bees Sandstone Member	Sandstone	Not Supplied - Early Triassic
	SBSH	St Bees Shale Formation	Siltstone and Mudstone, Interbedded	Not Supplied - GUADALUPIAN
	SBE	St Bees Evaporite Formation	Dolomitic Limestone, Mudstone And Anhydrite-Stone	Not Supplied - GUADALUPIAN

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	BK	Brockram	Breccia	Not Supplied - Cisuralian
	WS	Whitehaven Sandstone Formation	Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Not Supplied - Westphalian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Westphalian
	HG	Hensingham Grit	Sandstone	Not Supplied - Namurian
	LM1	First Limestone (Cumbria)	Limestone	Not Supplied - Namurian
	SMGP	Stainmore Formation	Mudstone, Siltstone and Sandstone	Not Supplied - Namurian
	SH1	First Shale Member	Sandstone, Siltstone and Mudstone	Not Supplied - Visean
	LM2	Second Limestone (Cumbria)	Limestone	Not Supplied - Visean
	OBS	Orebank Sandstone	Sandstone	Not Supplied - Visean
	ESKT	Eskett Limestone Formation	Limestone	Not Supplied - Visean
		Faults		
		Rock Segments		



Geology 1:50,000 Maps

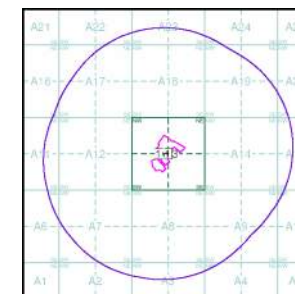
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published paper maps.

The various geological layers - artificial and landslip deposits, superficial geology and solid (bedrock) geology are displayed in separate maps, but superimposed on the final 'Combined Surface Geology' map. All map legends feature on this page. Not all layers have complete nationwide coverage, so availability of data for relevant map sheets is indicated below.

Geology 1:50,000 Maps Coverage

Map ID: 1
Map Sheet No: 028
Map Name: Whitehaven
Map Date: 2004
Bedrock Geology: Available
Superficial Geology: Not Available
Artificial Geology: Not Available
Faults: Not Supplied
Landslip: Not Available
Rock Segments: Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

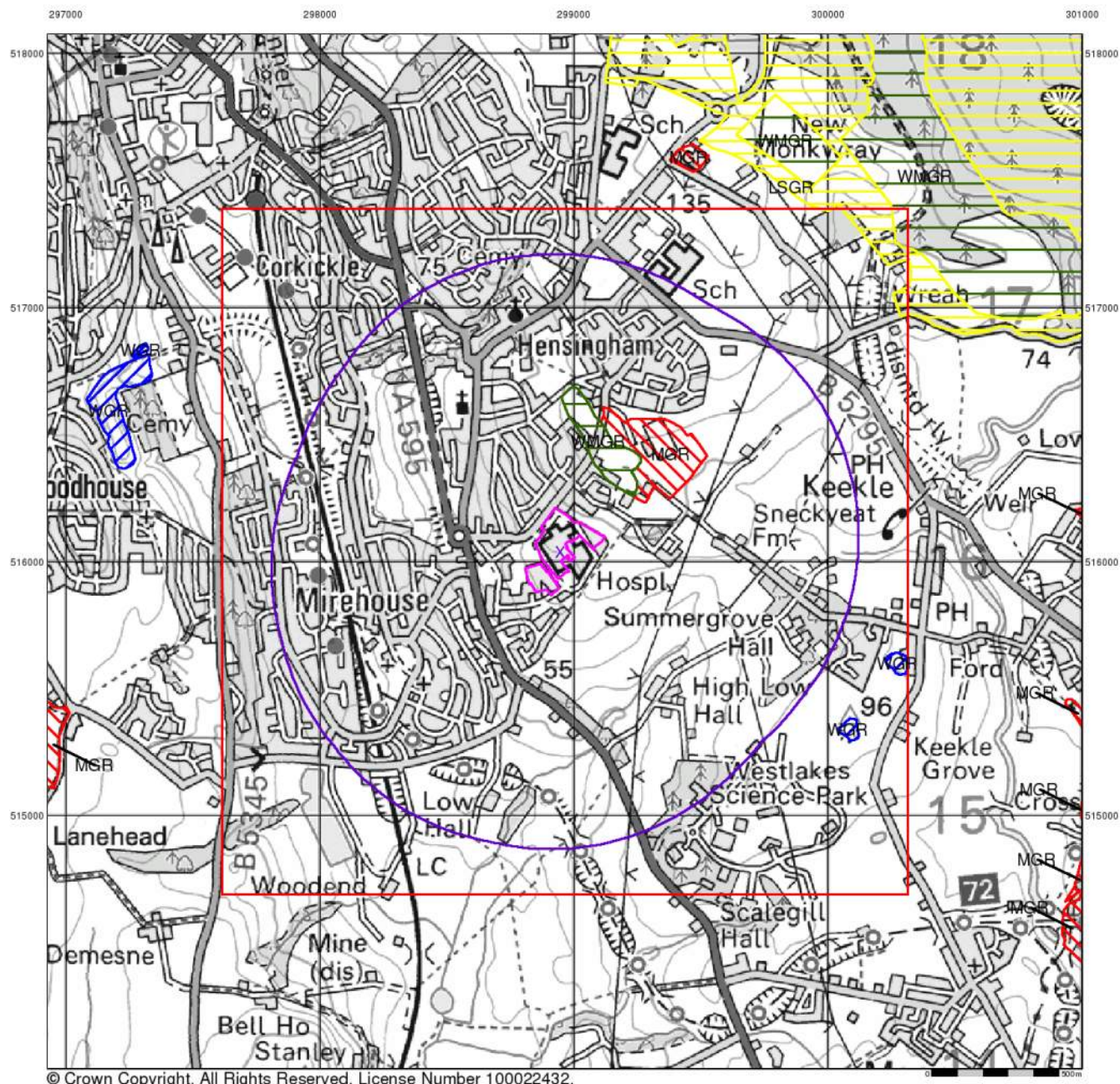
Order Number: 209787581_1_1
Customer Reference: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details:

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Artificial Ground and Landslip

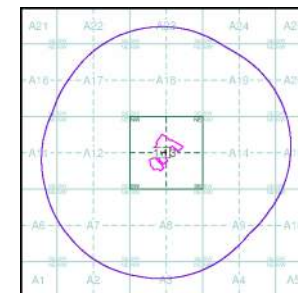
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions and unstable ground.

Artificial ground includes:

- Made ground - man-made deposits such as embankments and spoil heaps on the natural ground surface.
- Worked ground - areas where the ground has been cut away such as quarries and road cuttings.
- Infilled ground - areas where the ground has been cut away then wholly or partially backfilled.
- Landscaped ground - areas where the surface has been reshaped.
- Disturbed ground - areas of ill-defined shallow or near surface mineral workings where it is impracticable to map made and worked ground separately.

Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due to subsidence.

Artificial Ground and Landslip Map - Slice A



Order Details:

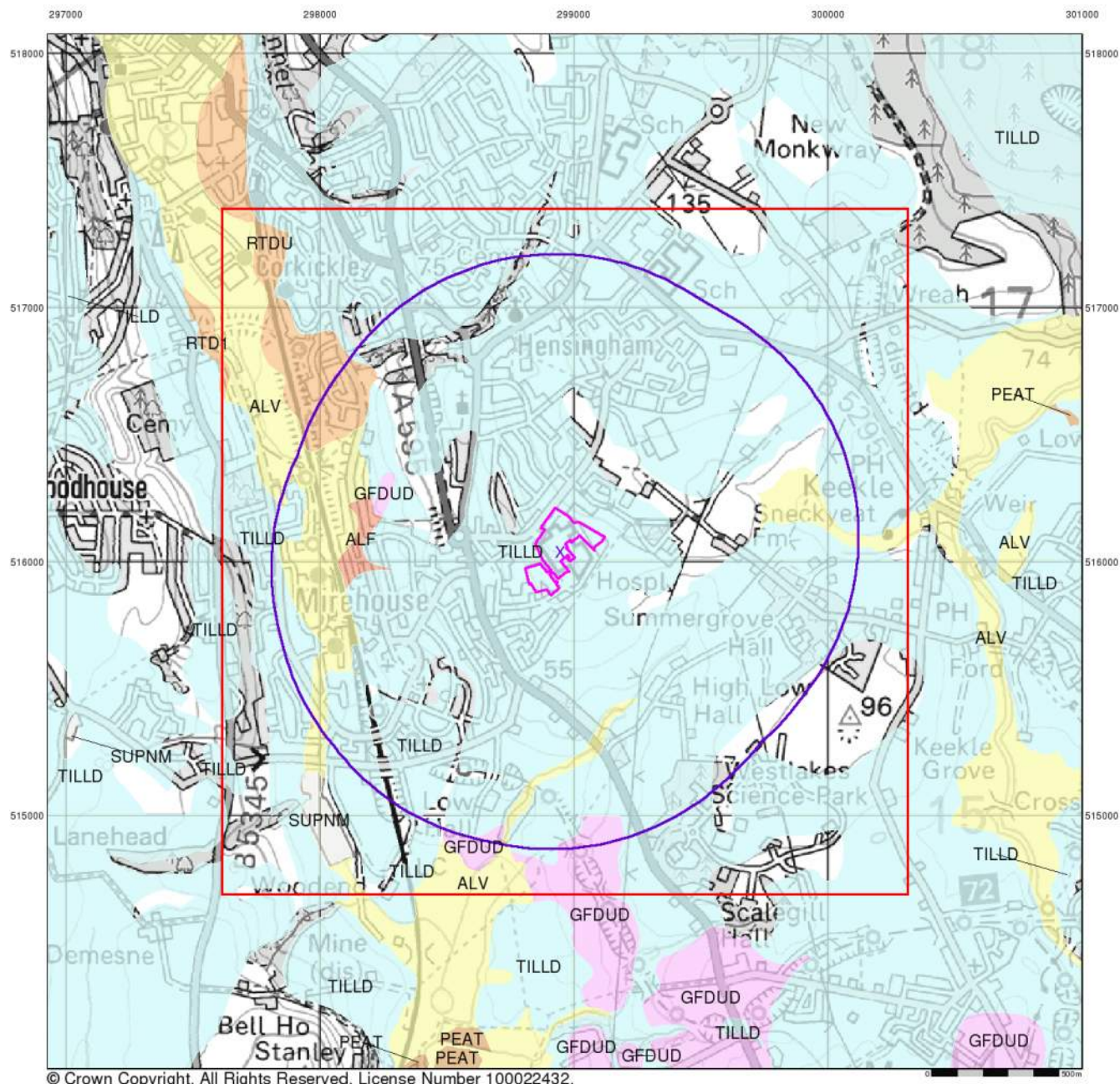
Order Number: 209787581_1_1
 Customer Reference: 073096.300
 National Grid Reference: 298950, 516040
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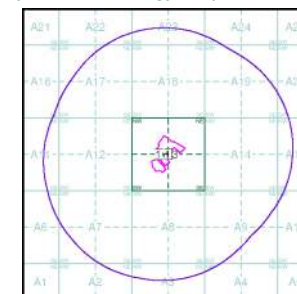
Superficial Geology

Superficial Deposits are the youngest geological deposits formed during the most recent period of geological time, the Quaternary, which extends back about 1.8 million years from the present.

They rest on older deposits or rocks referred to as Bedrock. This dataset contains Superficial deposits that are of natural origin and 'in place'. Other superficial strata may be held in the Mass Movement dataset where they have been moved, or in the Artificial Ground dataset where they are of man-made origin.

Most of these Superficial deposits are unconsolidated sediments such as gravel, sand, silt and clay, and onshore they form relatively thin, often discontinuous patches or larger spreads.

Superficial Geology Map - Slice A



Order Details:

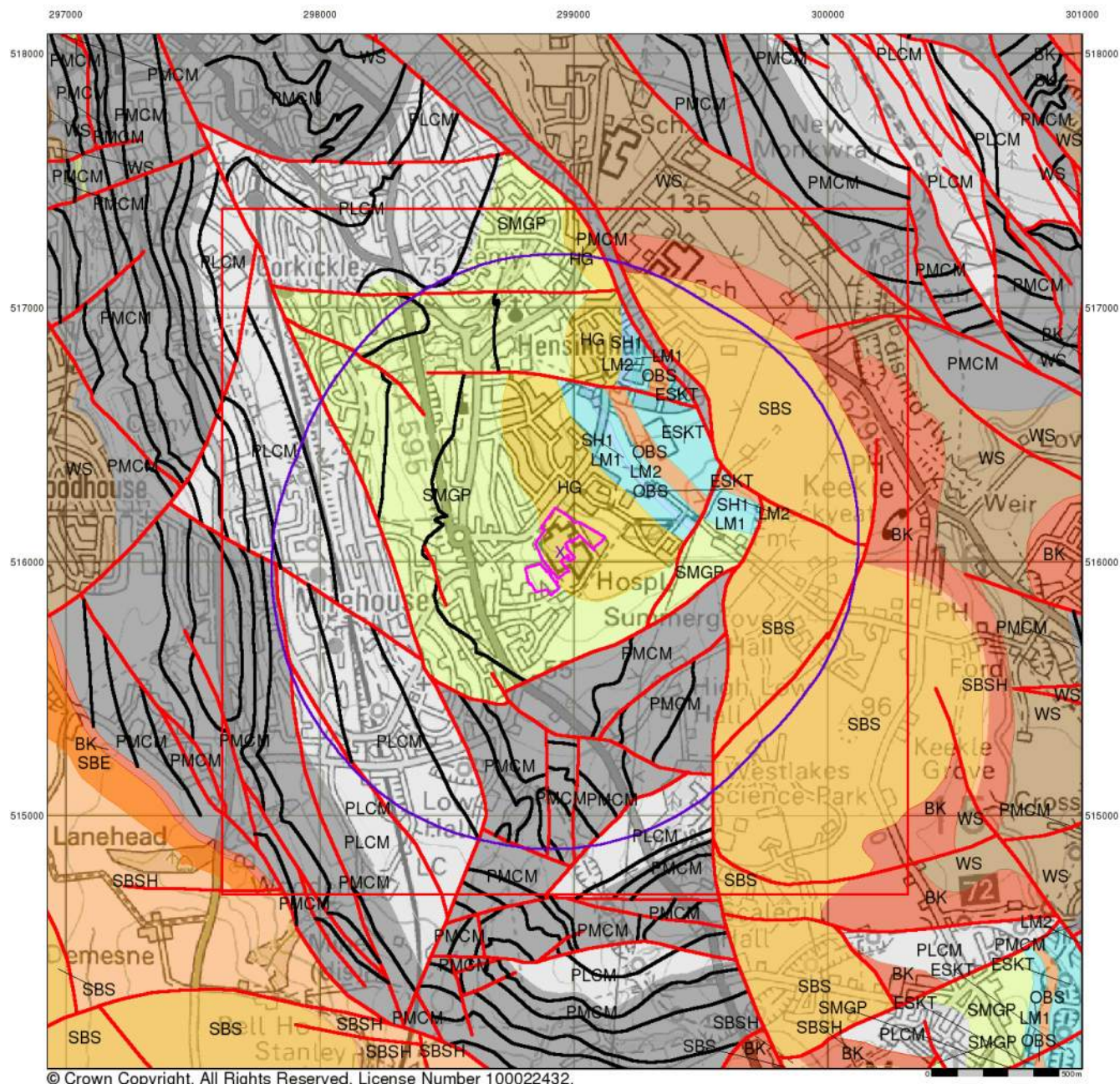
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 National Grid Reference: 298950, 516040
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 Site Area (Ha): 4.13
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Bedrock and Faults

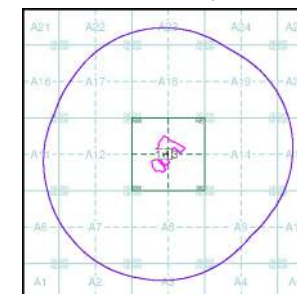
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

The bedrock has formed over vast lengths of geological time ranging from ancient and highly altered rocks of the Proterozoic, some 2500 million years ago, or older, up to the relatively young Pliocene, 1.8 million years ago.

The bedrock geology includes many lithologies, often classified into three types based on origin: igneous, metamorphic and sedimentary.

The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral veins primarily affect the bedrock but cut across the strata and post date its deposition.

Bedrock and Faults Map - Slice A



Order Details:

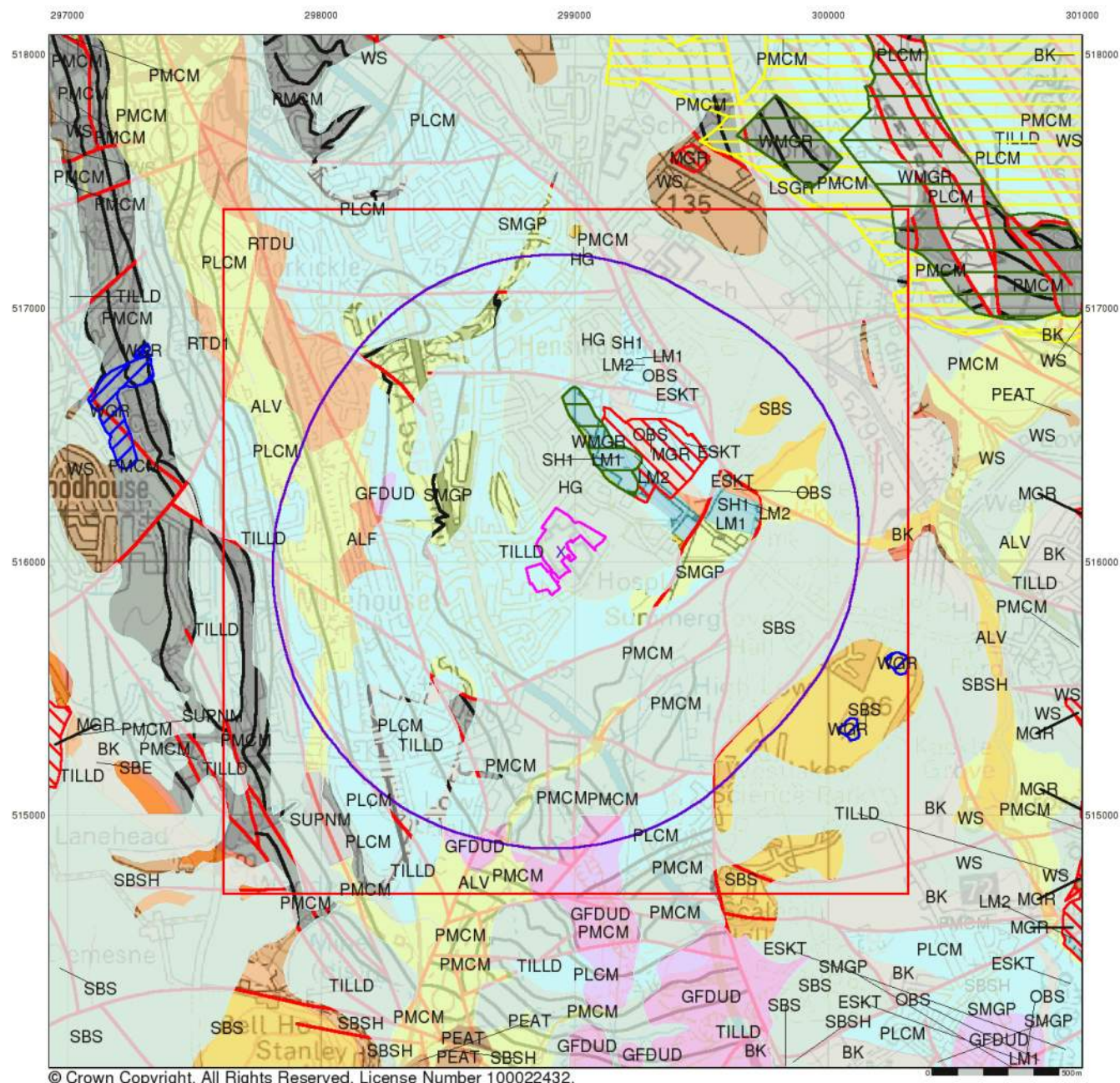
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 Customer Reference: 073096.300
 National Grid Reference: 298950, 516040
 Slice: A
 Site Area (Ha): 4.13
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Combined Surface Geology

Additional Information

Contact

Combined Geology Map - Slice A



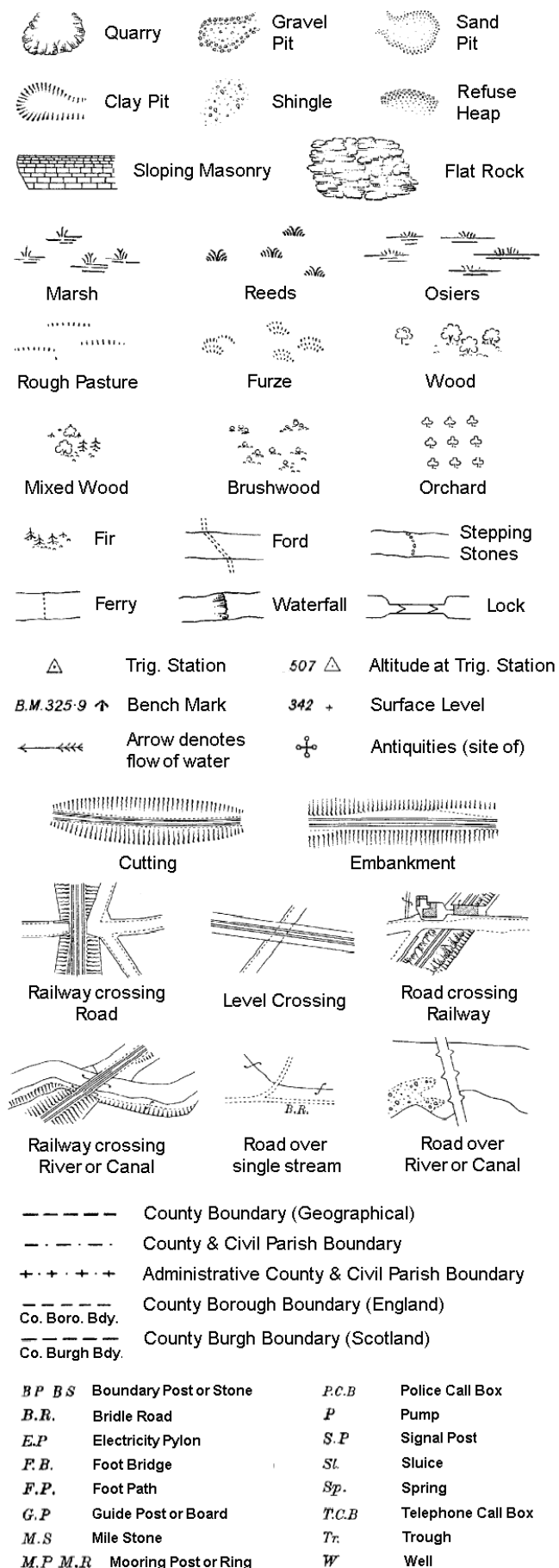
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Site Details:

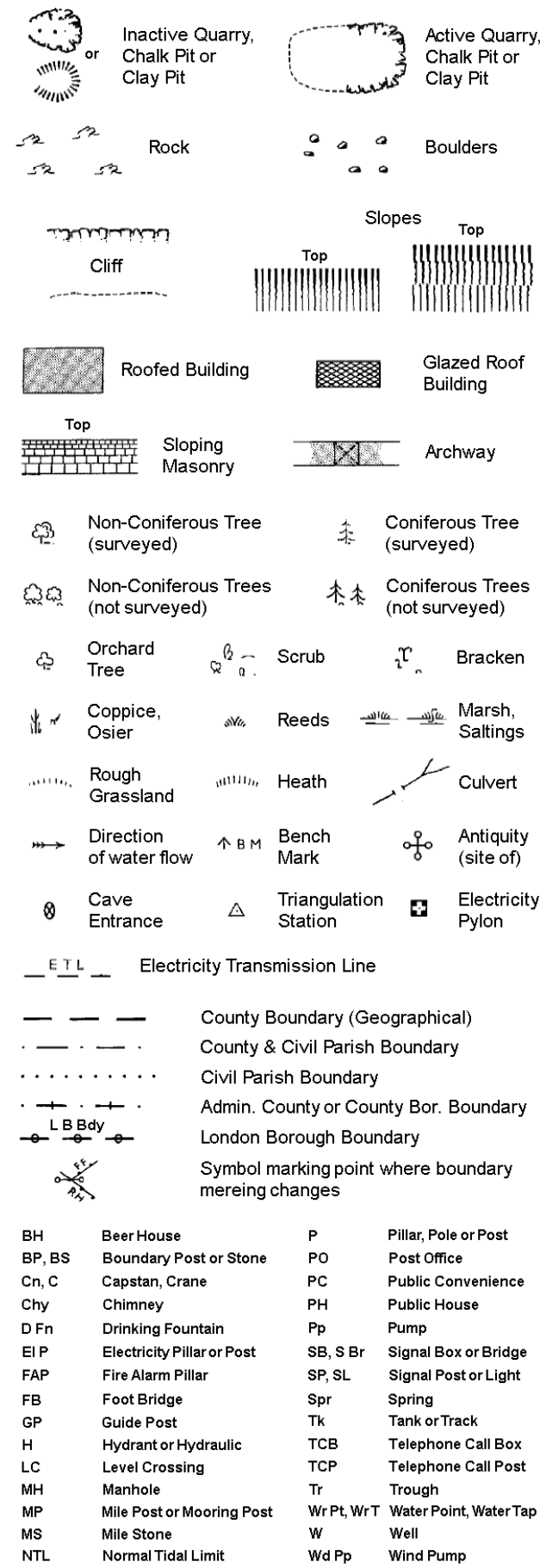
Landmark
INFORMATION GROUP

Historical Mapping Legends

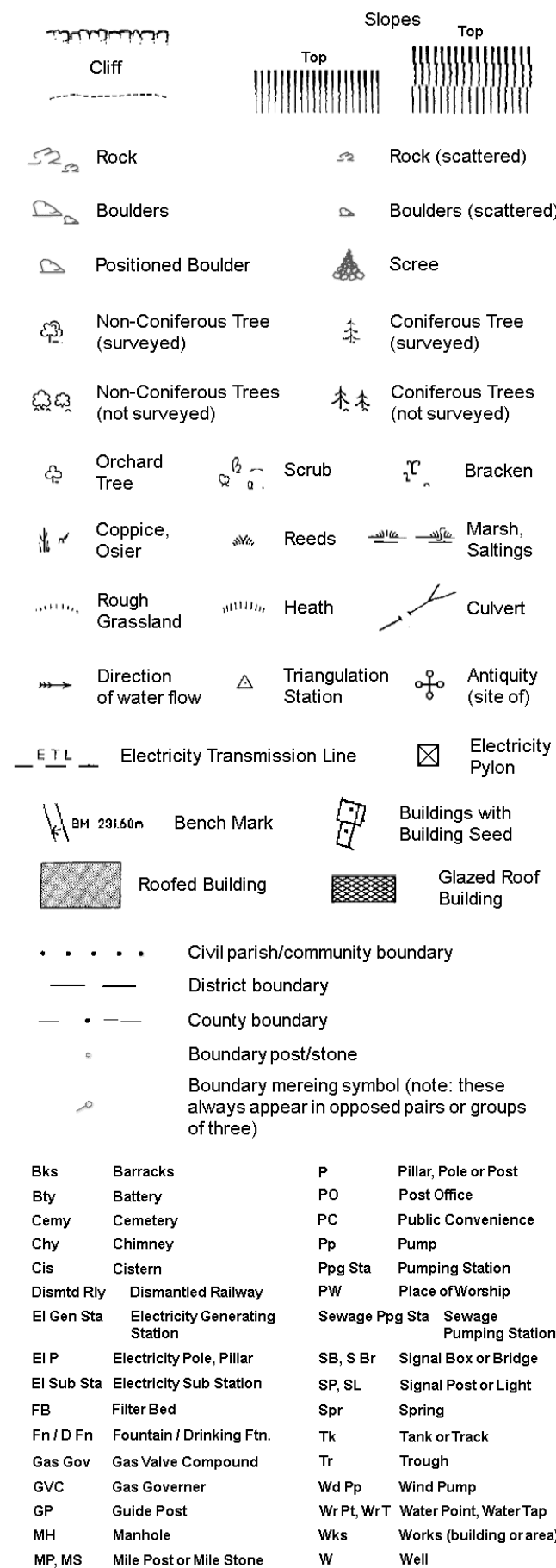
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



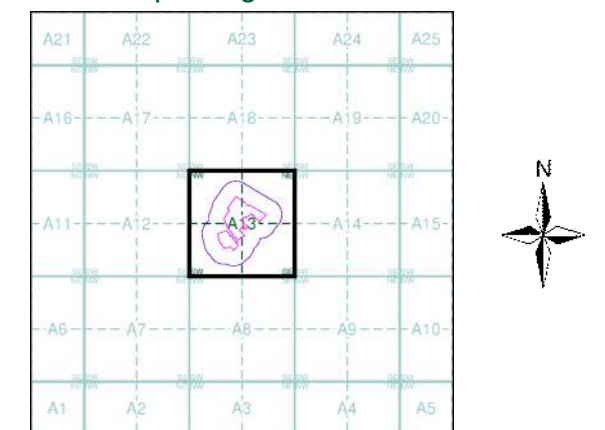
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:2,500	1865 - 1880	2
Cumberland	1:2,500	1899	3
Cumberland	1:2,500	1925	4
Cumberland	1:2,500	1938	5
Ordnance Survey Plan	1:1,250	1961	6
Ordnance Survey Plan	1:2,500	1963	7
Ordnance Survey Plan	1:1,250	1965 - 1968	8
Ordnance Survey Plan	1:2,500	1970	9
Additional SIMs	1:1,250	1982 - 1993	10
Additional SIMs	1:2,500	1984 - 1989	11
Additional SIMs	1:1,250	1992	12
Additional SIMs	1:2,500	1993	13
Large-Scale National Grid Data	1:1,250	1994	14
Large-Scale National Grid Data	1:2,500	1994	15
Historical Aerial Photography	1:2,500	1999	16

Historical Map - Segment A13



Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
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Cumberland

Published 1865 - 1880

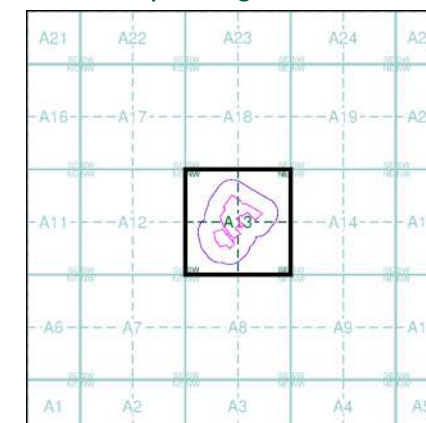
Source map scale - 1:2,500

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)

067_06 1879 1:2,500	067_07 1880 1:2,500
067_10 1865 1:2,500	067_11 1865 1:2,500

Historical Map - Segment A13



Order Details

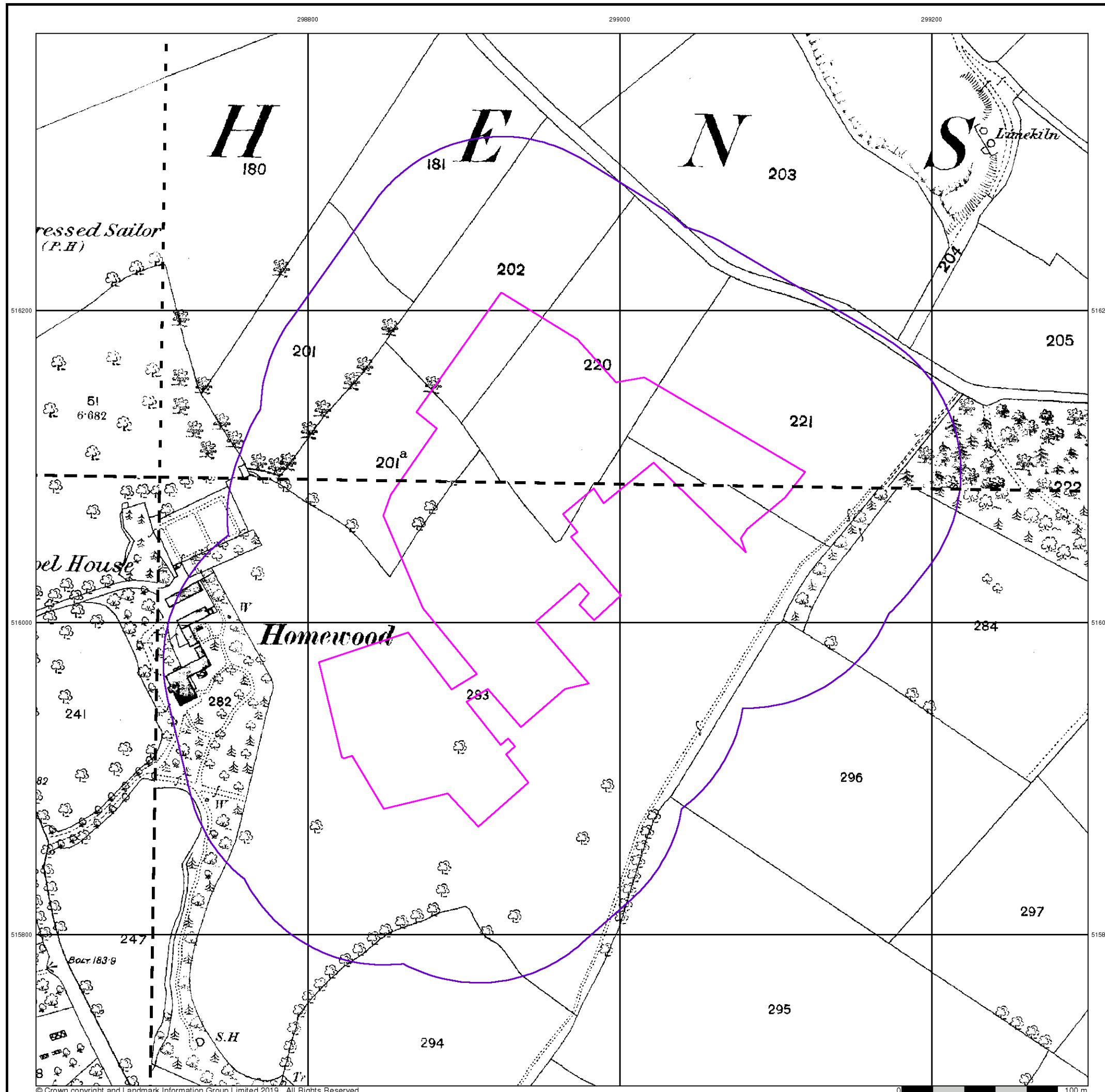
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
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Cumberland

Published 1899

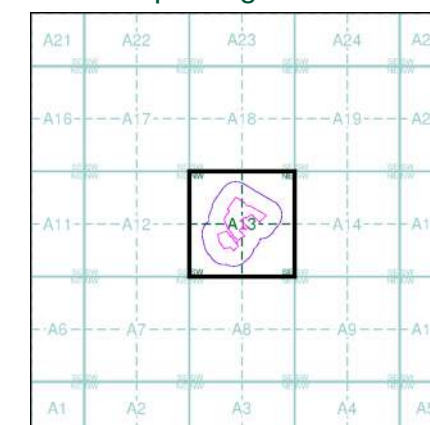
Source map scale - 1:2,500

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)

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067_10 1899 1:2,500	067_11 1899 1:2,500

Historical Map - Segment A13



Order Details

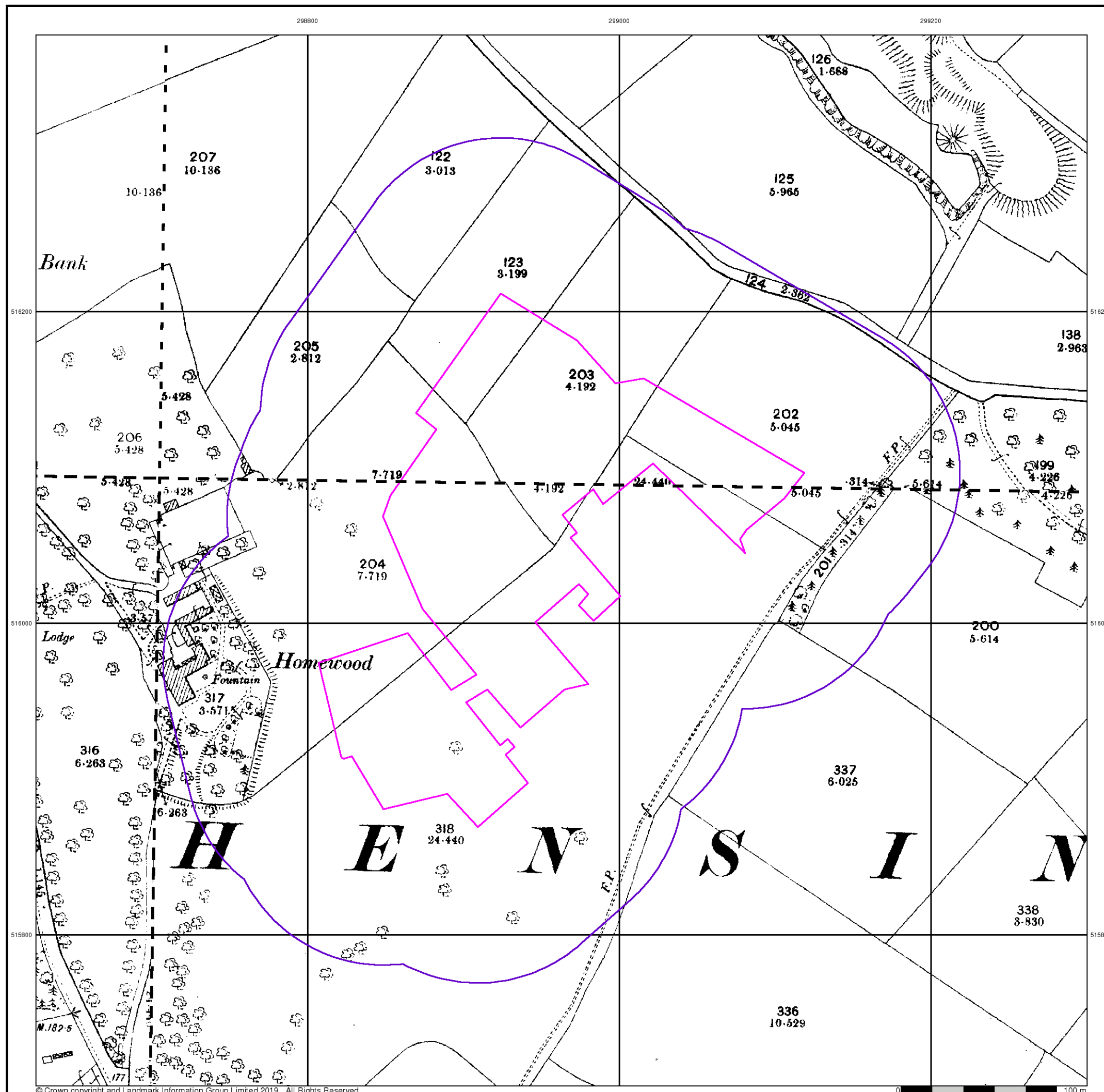
Order Number: 209787581_1_1
Customer Ref: 073096.300
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Cumberland

Published 1925

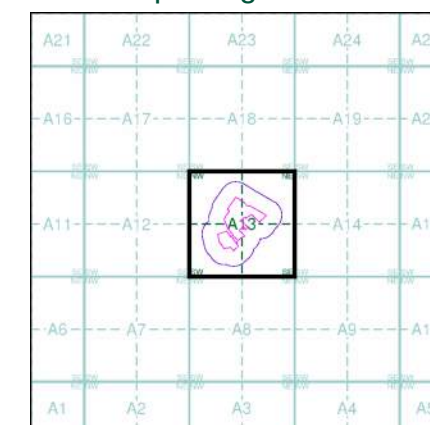
Source map scale - 1:2,500

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)

067_06 1925 1:2,500	067_07 1925 1:2,500
067_10 1925 1:2,500	067_11 1925 1:2,500

Historical Map - Segment A13



Order Details

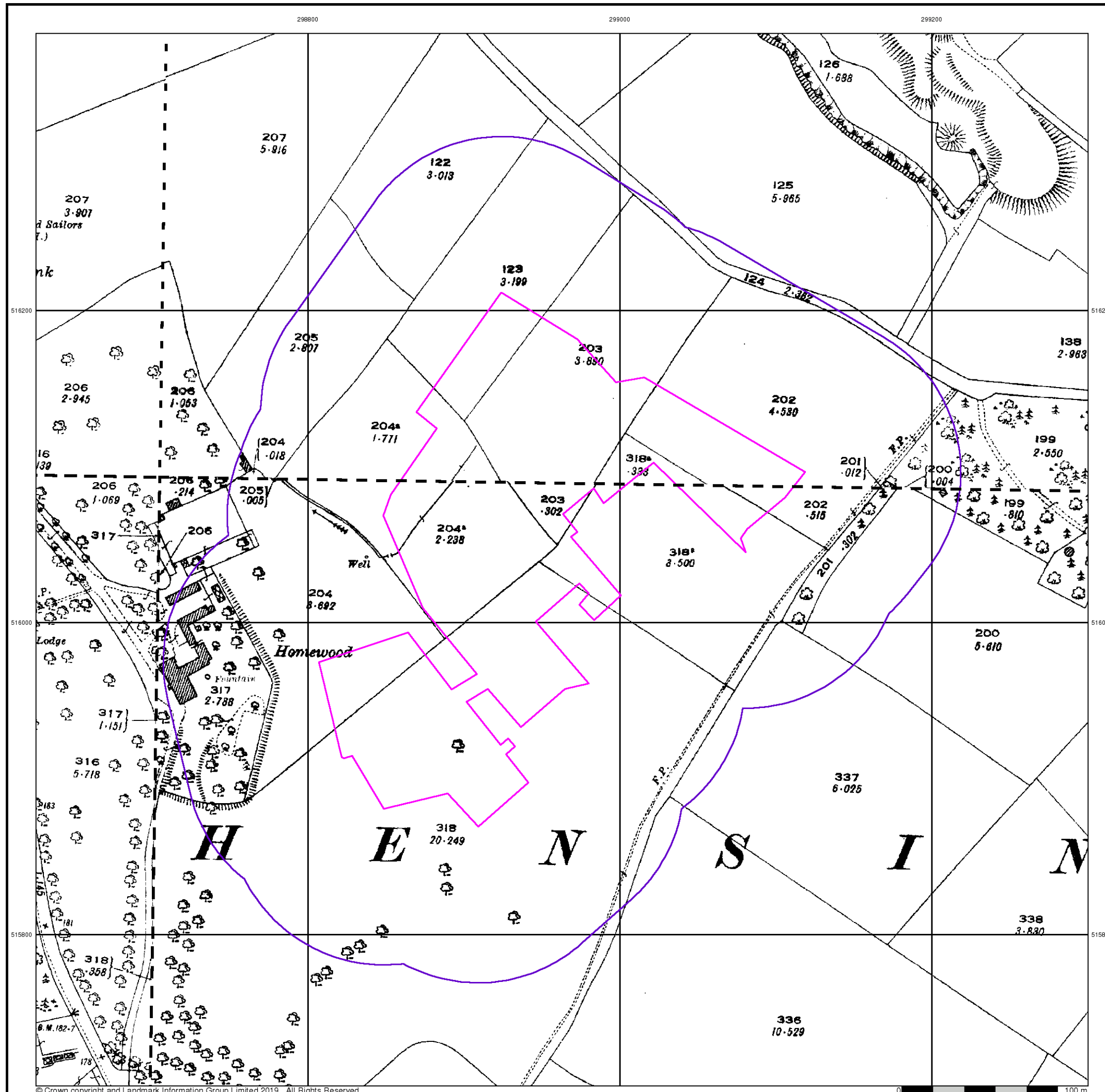
Order Number: 209787581_1_1
Customer Ref: 073096.300
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Site Area (Ha): 4.13
Search Buffer (m): 100

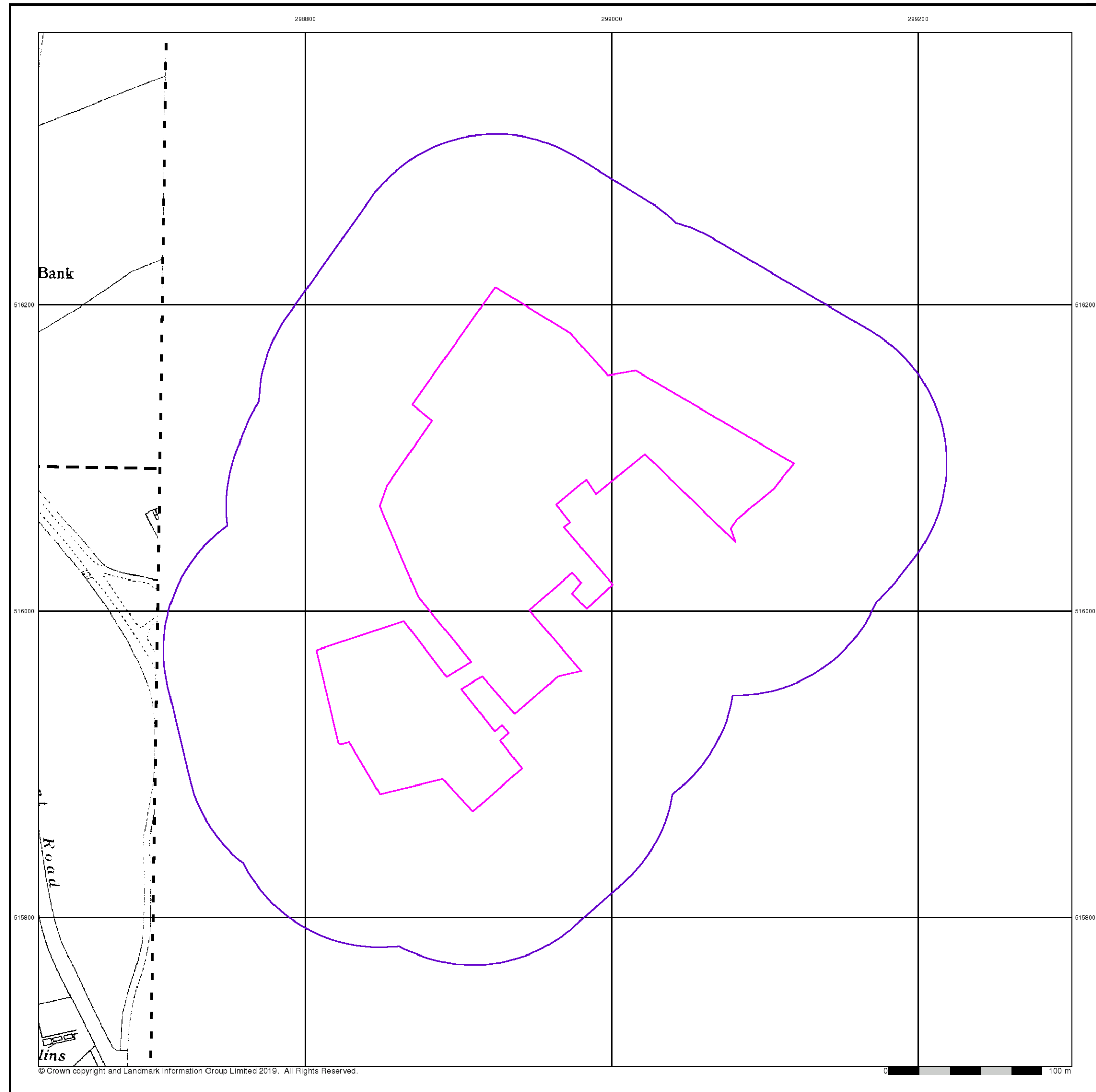
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Cumberland
Published 1938
Source map scale - 1:2,500
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban 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)

067_06 1938 12,500	
067_10 1938 12,500	

Historical Map - Segment A13

Order Details
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 100

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Ordnance Survey Plan

Published 1961

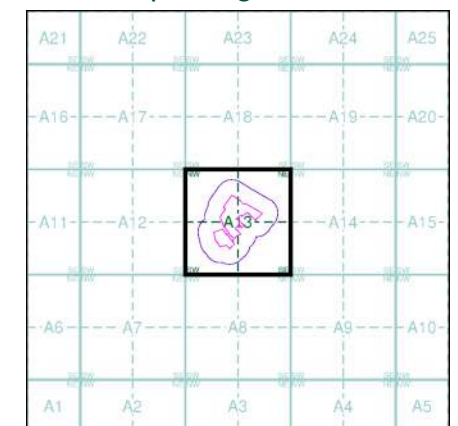
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

NX9816SE 1961 1:1,250	NX9916SW 1961 1:1,250
NX9815NE 1961 1:1,250	

Historical Map - Segment A13



Order Details

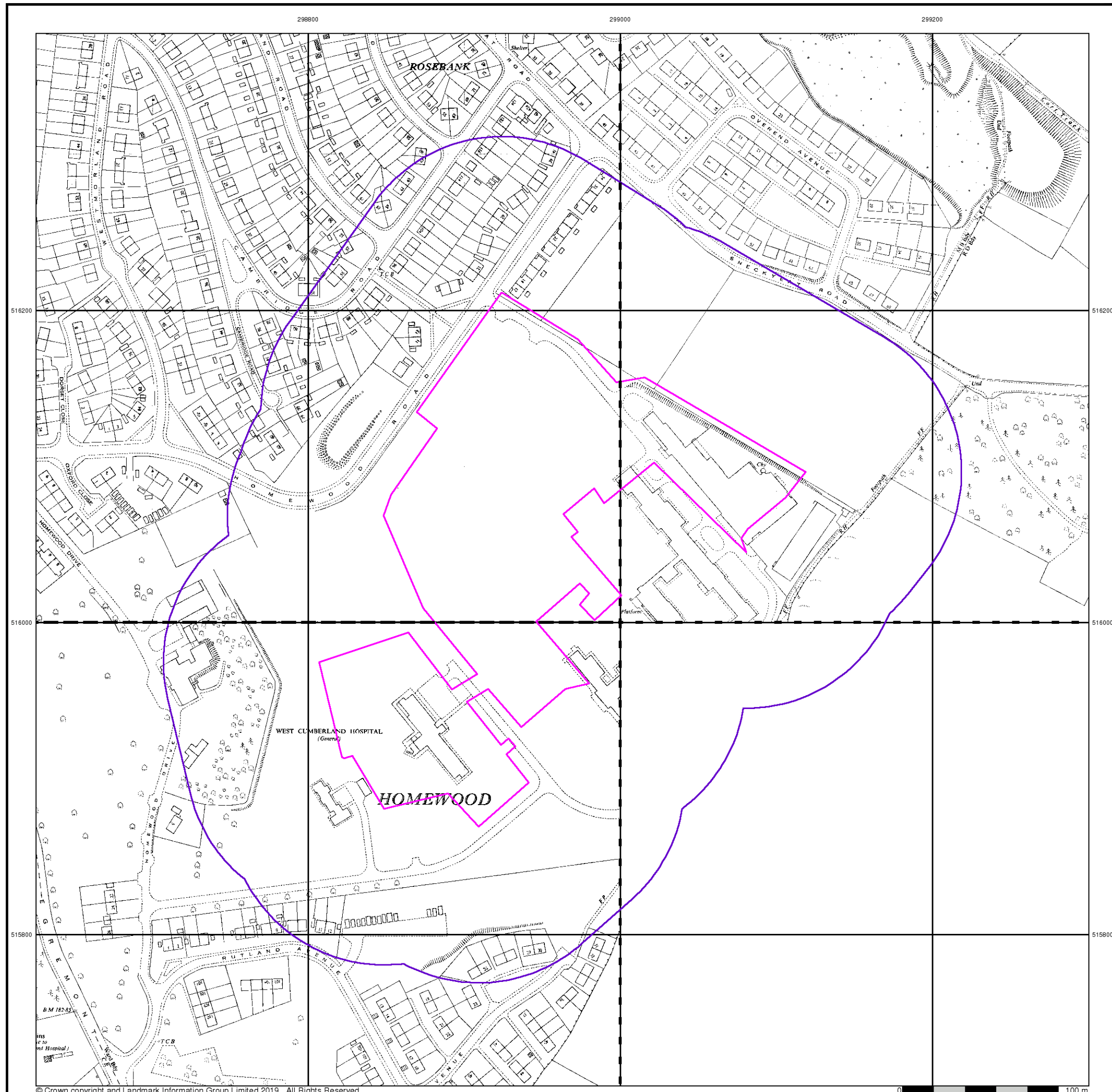
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Ordnance Survey Plan

Published 1963

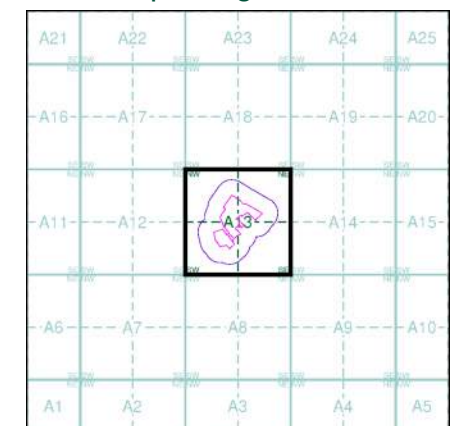
Source map scale - 1:2,500

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Map Name(s) and Date(s)

NX9816 1963 12,500	NX9916 1963 12,500
NX9815 1963 12,500	NX9915 1963 12,500

Historical Map - Segment A13



Order Details

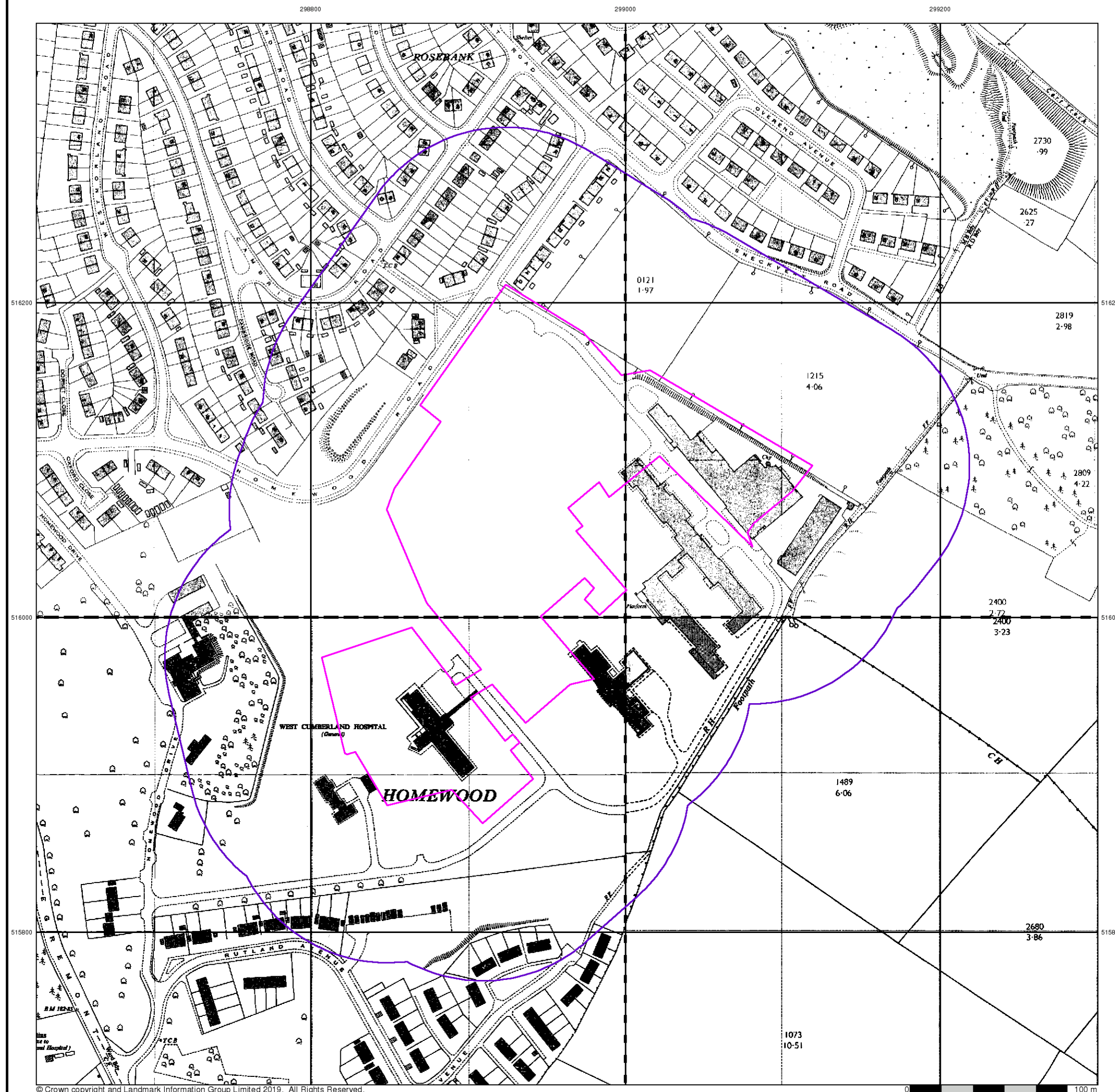
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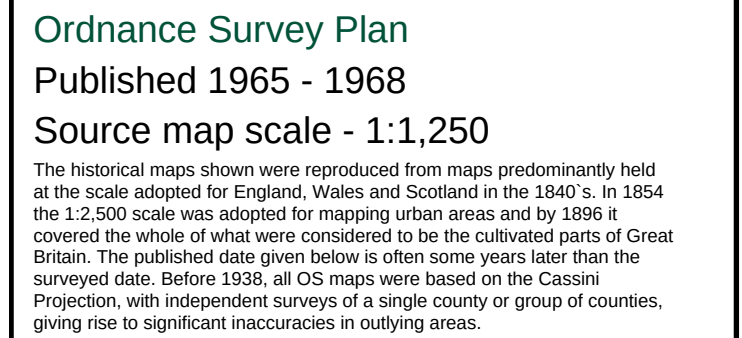
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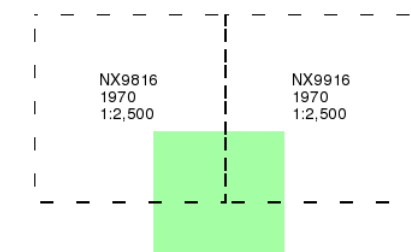
Ordnance Survey Plan

Published 1970

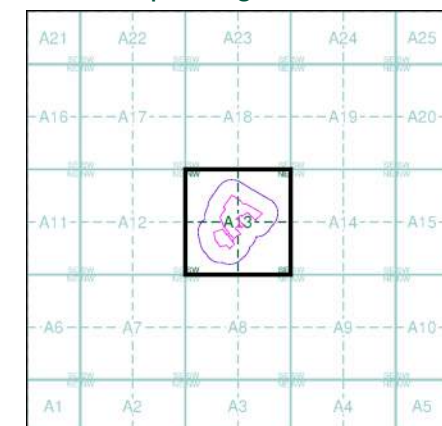
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

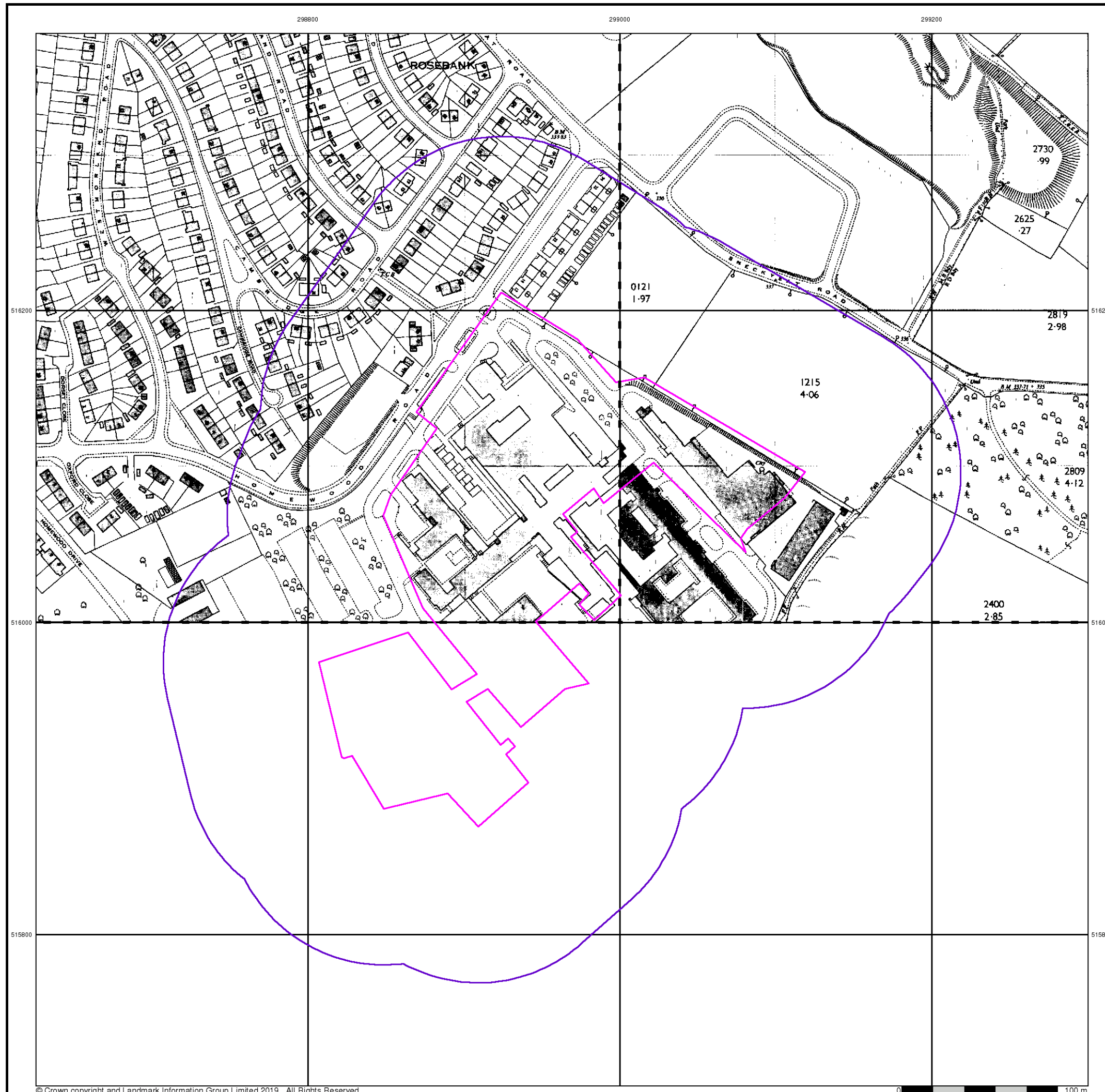
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Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
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Additional SIMs

Published 1982 - 1993

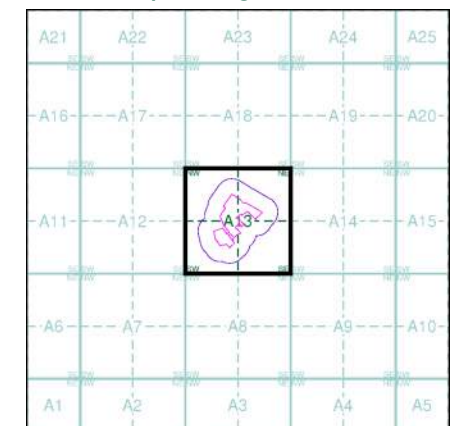
Source map scale - 1:1,250

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)

NX9816SE	NX9916SW
1982	1987
1:1,250	1:1,250
NX9815NE	
1993	
1:1,250	

Historical Map - Segment A13



Order Details

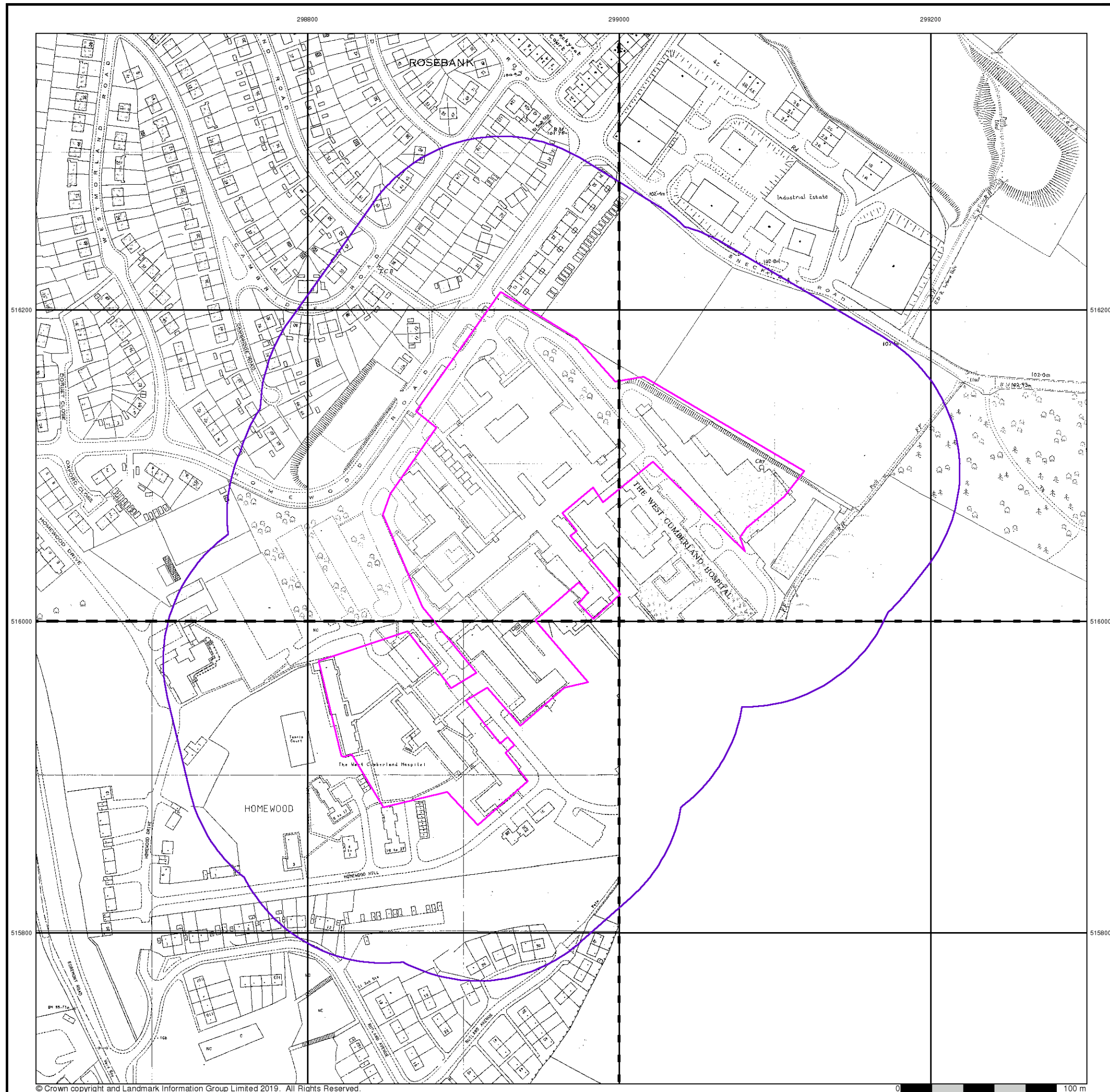
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
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Additional SIMs

Published 1984 - 1989

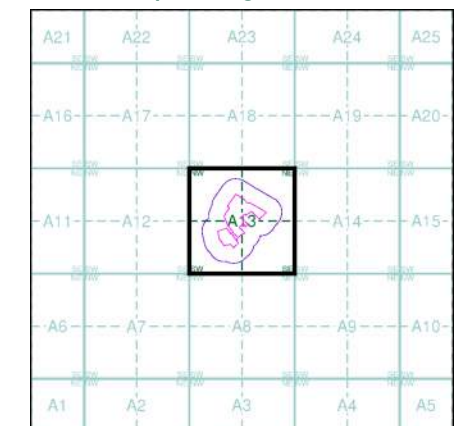
Source map scale - 1:2,500

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)

NX9916	1989	1:2,500
NX9915	1984	1:2,500

Historical Map - Segment A13



Order Details

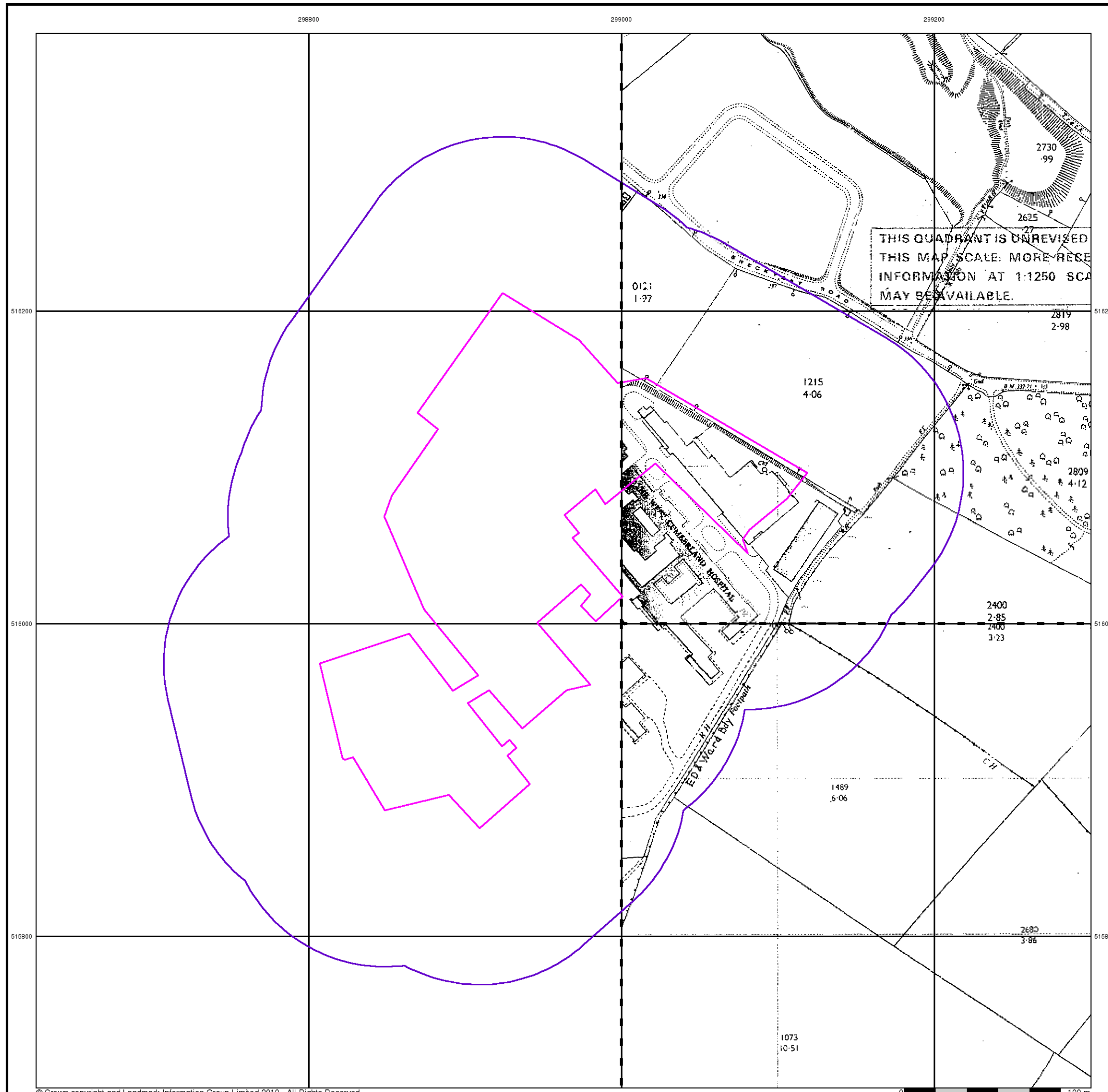
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Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 100

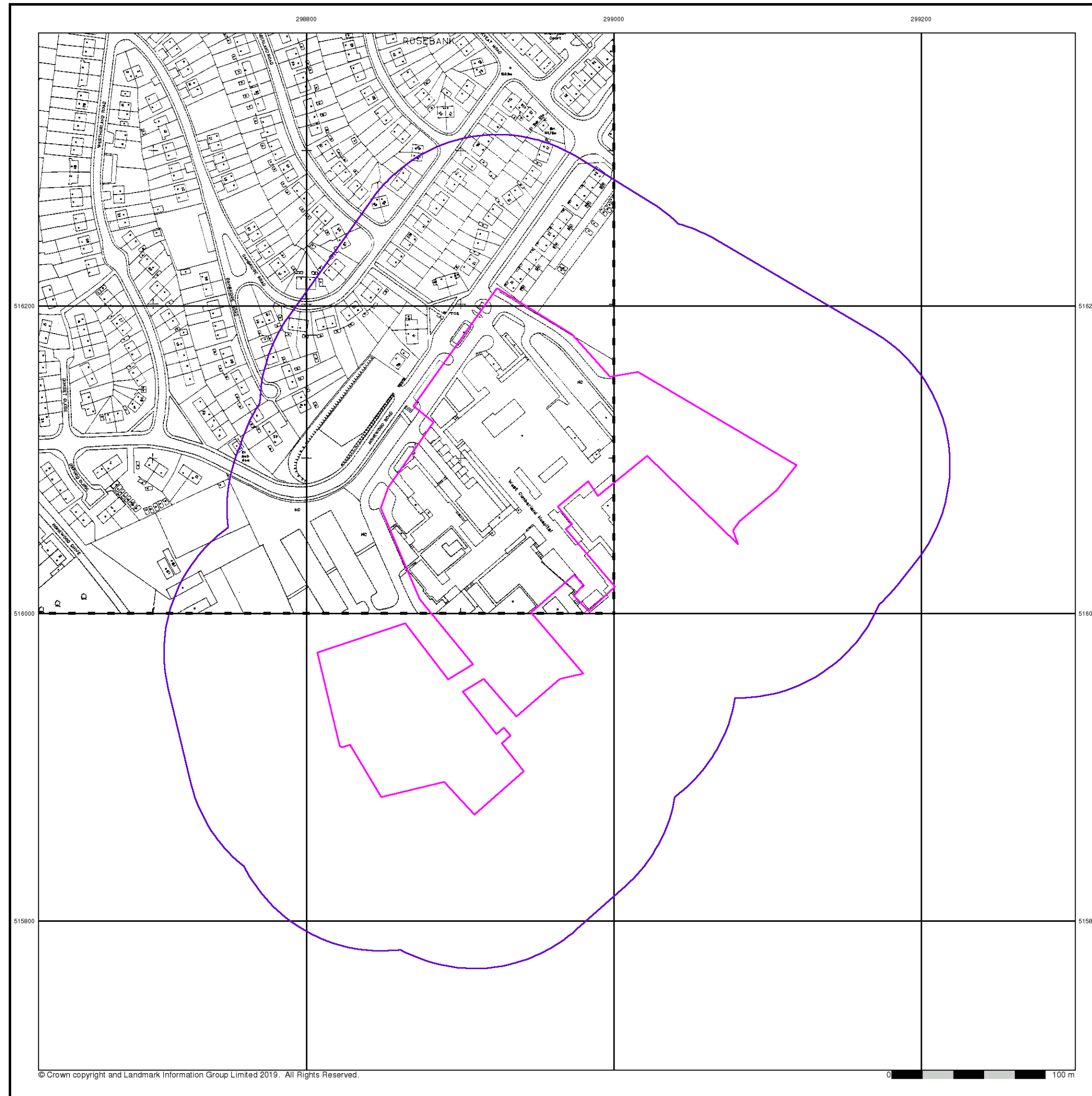
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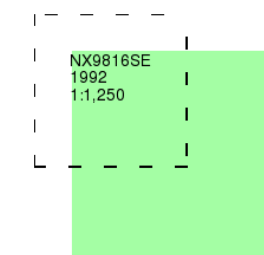
Additional SIMs

Published 1992

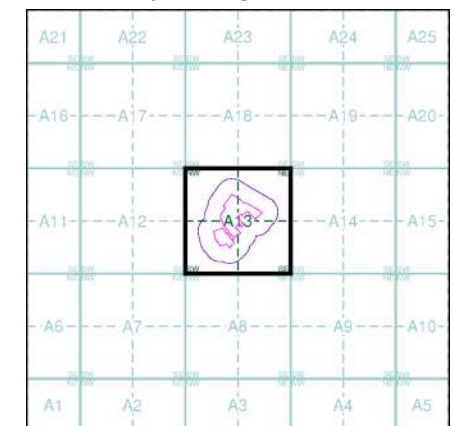
Source map scale - 1:1,250

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: 209787581_1_1
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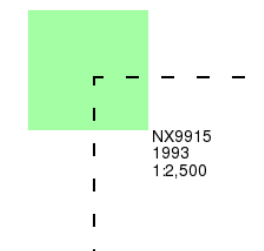
Additional SIMs

Published 1993

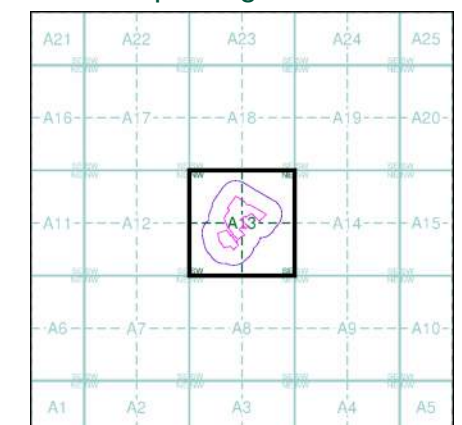
Source map scale - 1:2,500

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: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 100

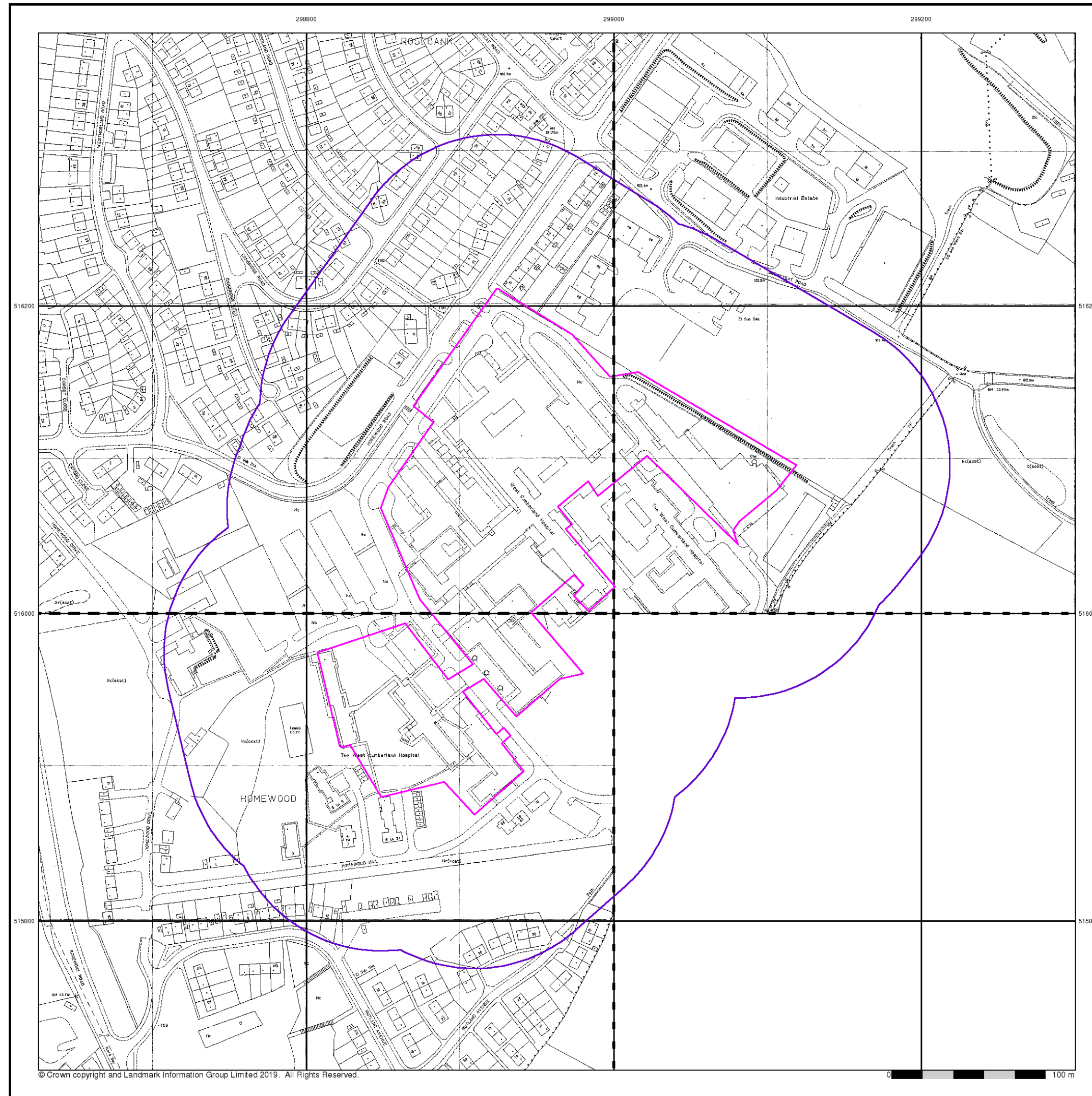
Site Details

West Cumberland Hospital, Homewood, Hensingham,
WHITEHAVEN, CA28 8JG



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Large-Scale National Grid Data

Published 1994

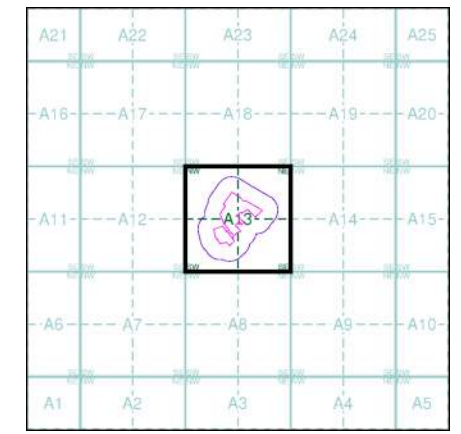
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

NX9816SE	NX9916SW
1994	1994
1:1,250	1:1,250
NX9815NE	
1994	
1:1,250	

Historical Map - Segment A13



Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 100

Site Details

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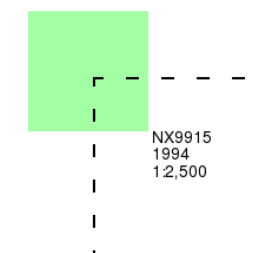
Large-Scale National Grid Data

Published 1994

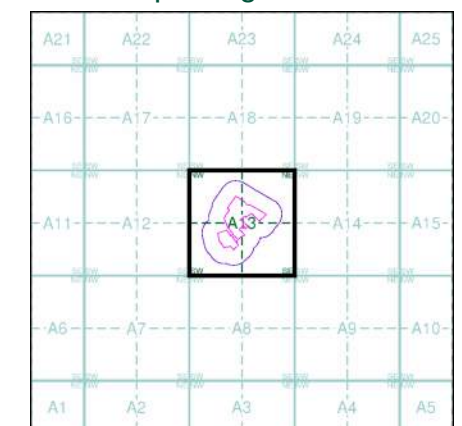
Source map scale - 1:2,500

'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: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 100

Site Details

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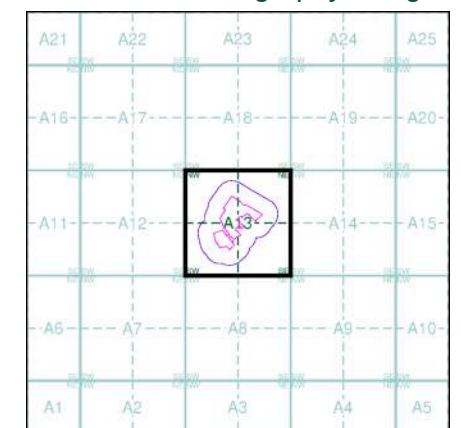


Historical Aerial Photography

Published 1999

This aerial photography was produced by Getmapping, these vertical aerial photographs provide a seamless, full colour survey of the whole of Great Britain

Historical Aerial Photography - Segment A13



Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

	Gravel Pit		Sand Pit		Other Pits
	Quarry		Shingle		Orchard
	Osiers		Reeds		Marsh
	Mixed Wood		Deciduous		Brushwood
	Fir		Furze		Rough Pasture
	Arrow denotes flow of water		Trigonometrical Station		
	Site of Antiquities		Bench Mark		
	Pump, Guide Post, Signal Post		Well, Spring, Boundary Post		
	•285 Surface Level				
	Sketched Contour		Instrumental Contour		
	Main Roads		Minor Roads		
	Sunken Road		Raised Road		
	Road over Railway		Railway over River		
	Railway over Road		Level Crossing		
	Road over River or Canal		Road over Stream		
	Road over Stream				
	County Boundary (Geographical)				
	County & Civil Parish Boundary				
	Administrative County & Civil Parish Boundary				
	County Borough Boundary (England)				
	County Burgh Boundary (Scotland)				
	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
	Bracken		Heath
	Marsh		Reeds
	Building		Glasshouse
	Sloping Masonry		Pylon
	Cutting		Embankment
	Road Under		Road Over
	Level Crossing		Foot Bridge
	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
	Civil Parish		
	BP, BS Boundary Post or Stone		Police Station
	Church		Post Office
	Club House		Public Convenience
	Fire Engine Station		Public House
	Foot Bridge		Signal Box
	Fountain		Spring
	Guide Post		Telephone Call Box
	Mile Post		Telephone Call Post
	Mile Stone		Well

1:10,000 Raster Mapping

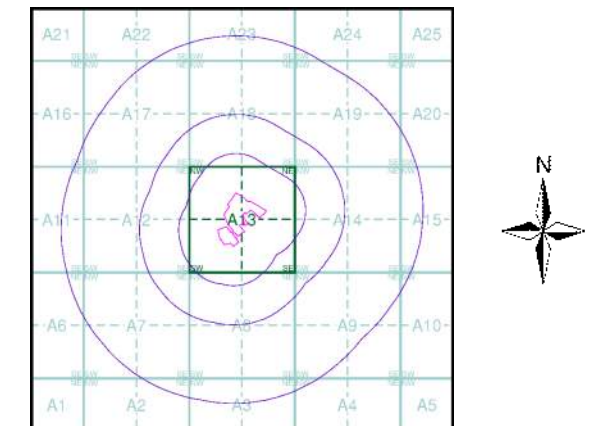
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil,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



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Cumberland	1:10,560	1867	2
Cumberland	1:10,560	1900	3
Cumberland	1:10,560	1926	4
Cumberland	1:10,560	1938	5
Ordnance Survey Plan	1:10,000	1956 - 1957	6
Ordnance Survey Plan	1:10,000	1967	7
Ordnance Survey Plan	1:10,000	1971 - 1979	8
Ordnance Survey Plan	1:10,000	1988	9
Ordnance Survey Plan	1:10,000	1993	10
10K Raster Mapping	1:10,000	2000	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2019	13

Historical Map - Slice A



Order Details

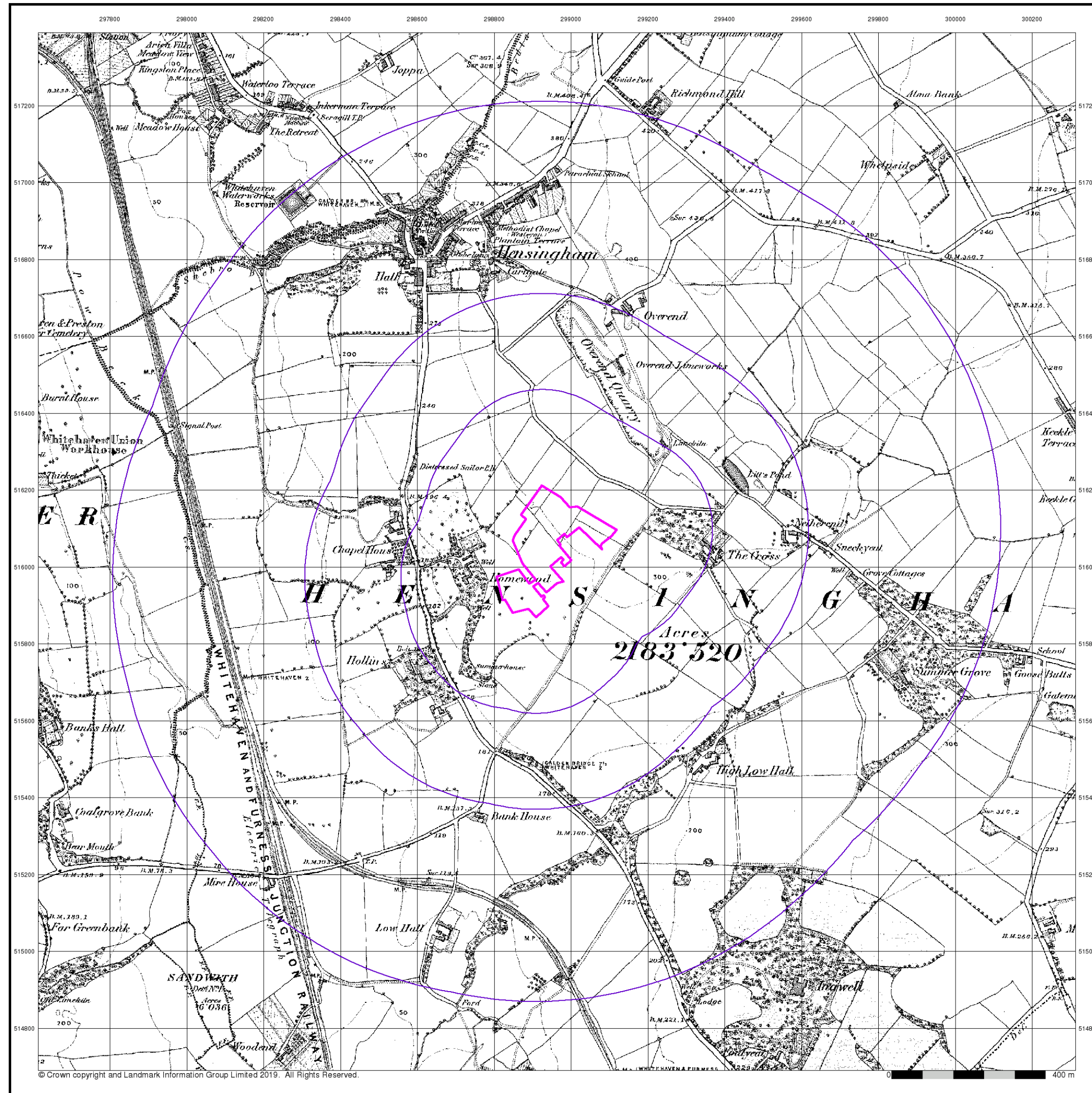
Order Number: 209787581_1_1
 Customer Ref: 073096.300
 National Grid Reference: 298950, 516040
 Slice: A
 Site Area (Ha): 4.13
 Search Buffer (m): 1000

Site Details

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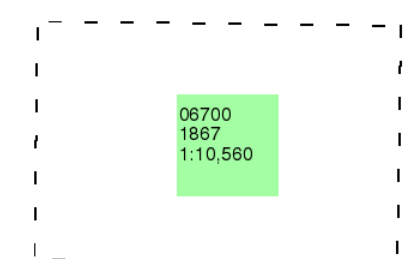
Cumberland

Published 1867

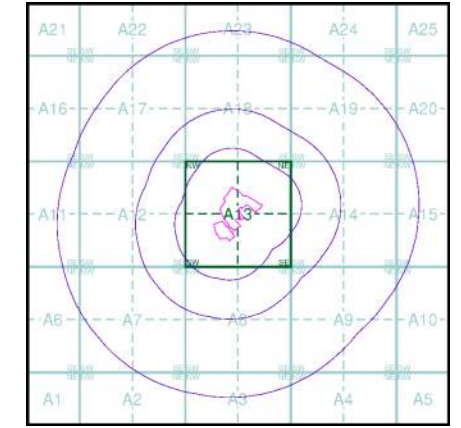
Source map scale - 1:10,560

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

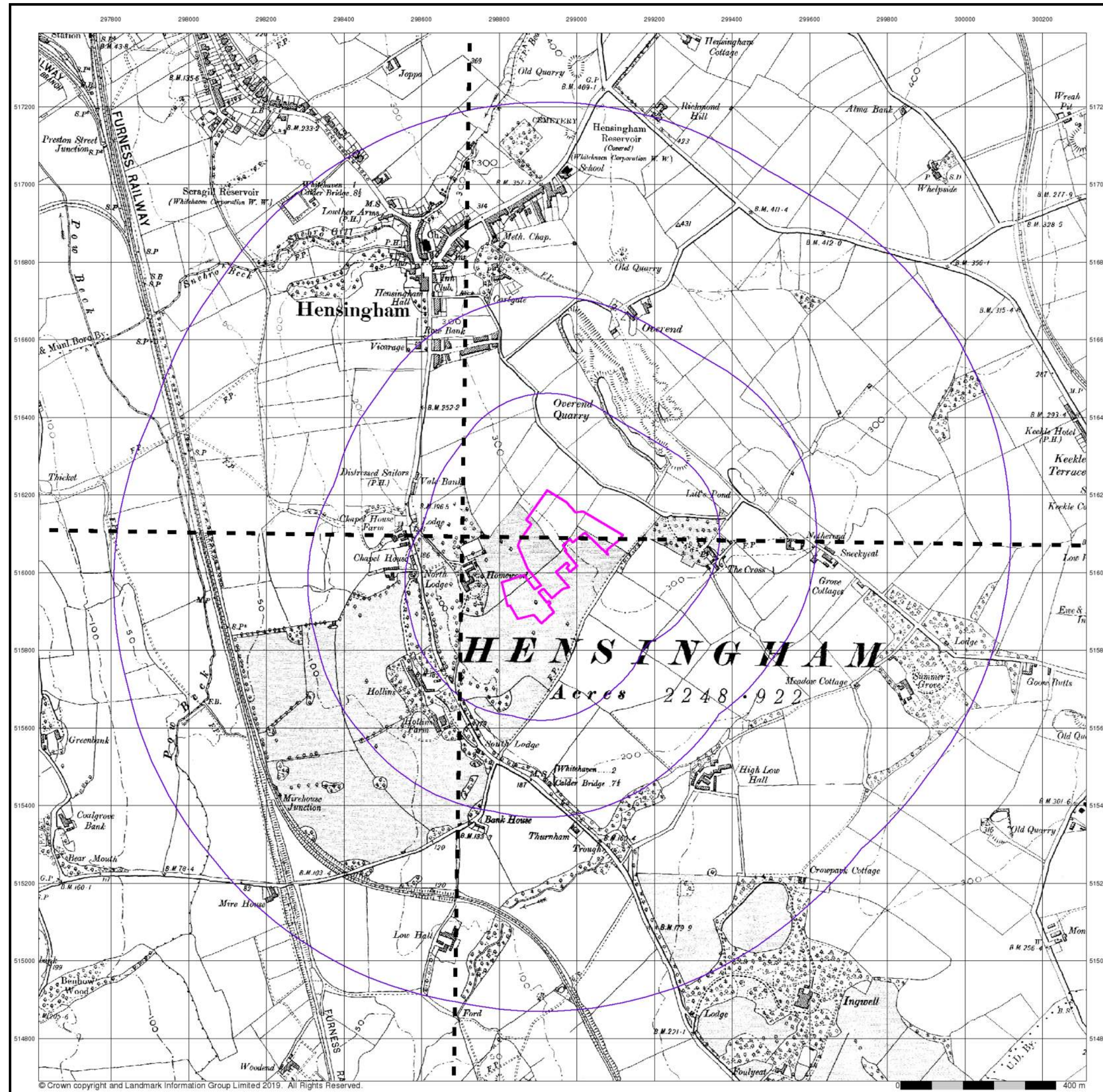
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
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Cumberland

Published 1900

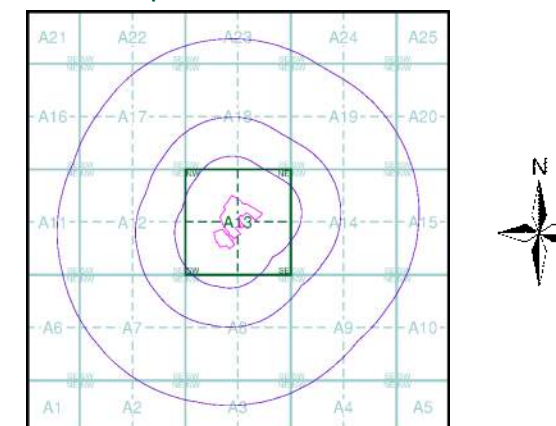
Source map scale - 1:10,560

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)

067NW 1900 1:10,560	067NE 1900 1:10,560
067SW 1900 1:10,560	067SE 1900 1:10,560

Historical Map - Slice A



Order Details

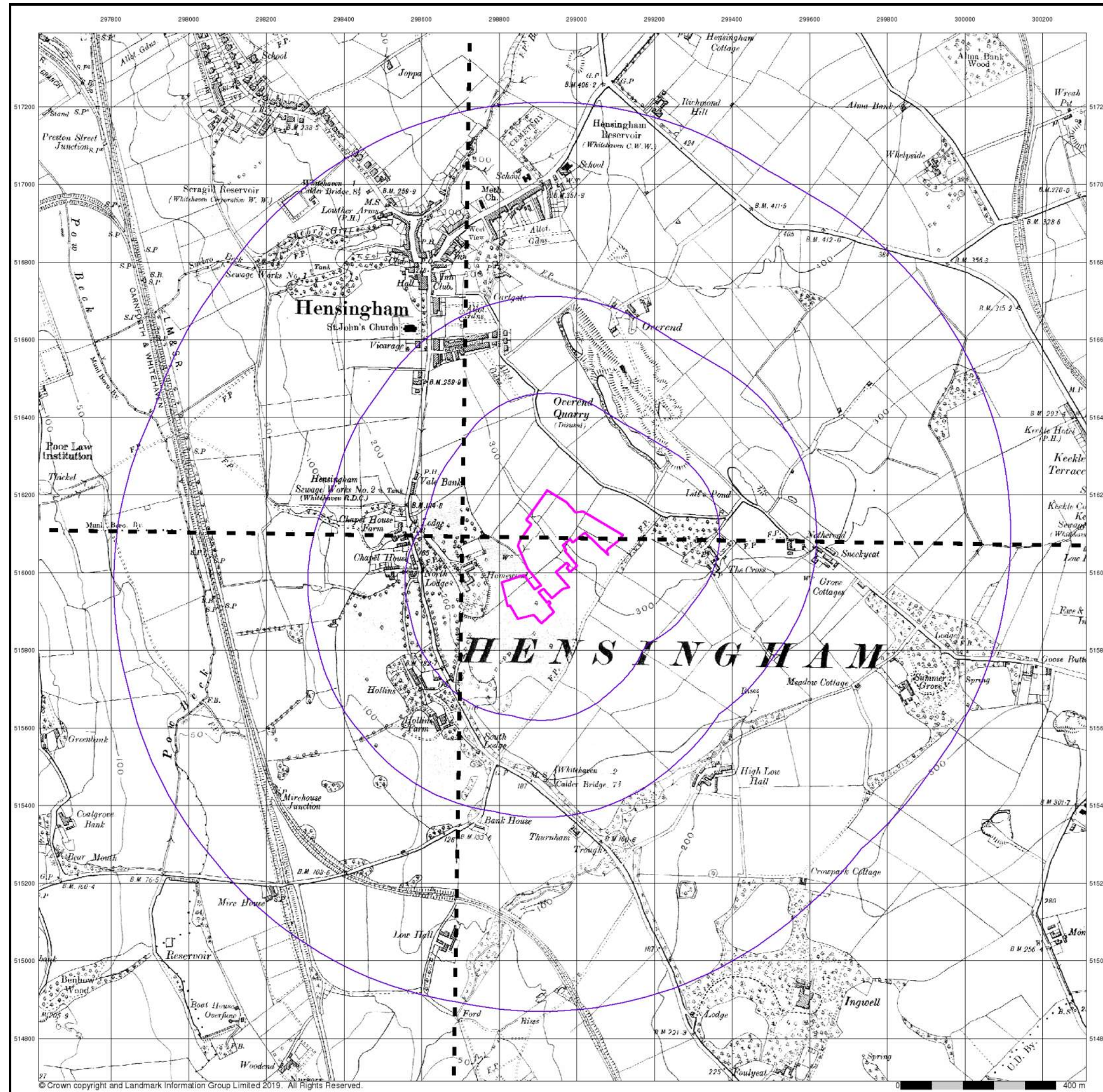
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Cumberland

Published 1926

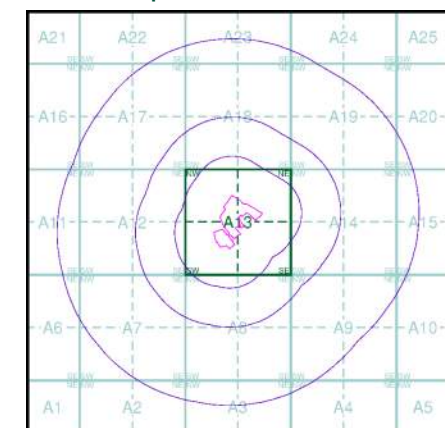
Source map scale - 1:10,560

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)

067NW 1926 1:10,560	067NE 1926 1:10,560
067SW 1926 1:10,560	067SE 1926 1:10,560

Historical Map - Slice A



Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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WHITEHAVEN, CA28 8JG



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Cumberland

Published 1938

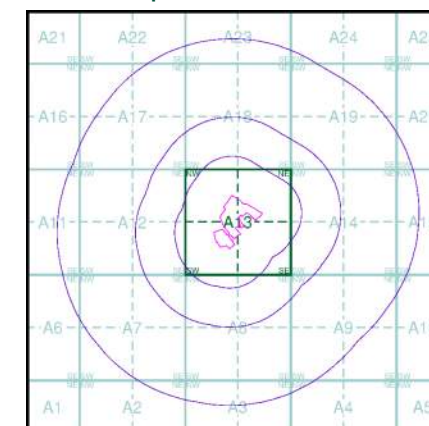
Source map scale - 1:10,560

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)

067NW 1938 1:10,560	067NE 1938 1:10,560
067SW 1938 1:10,560	067SE 1938 1:10,560

Historical Map - Slice A



Order Details

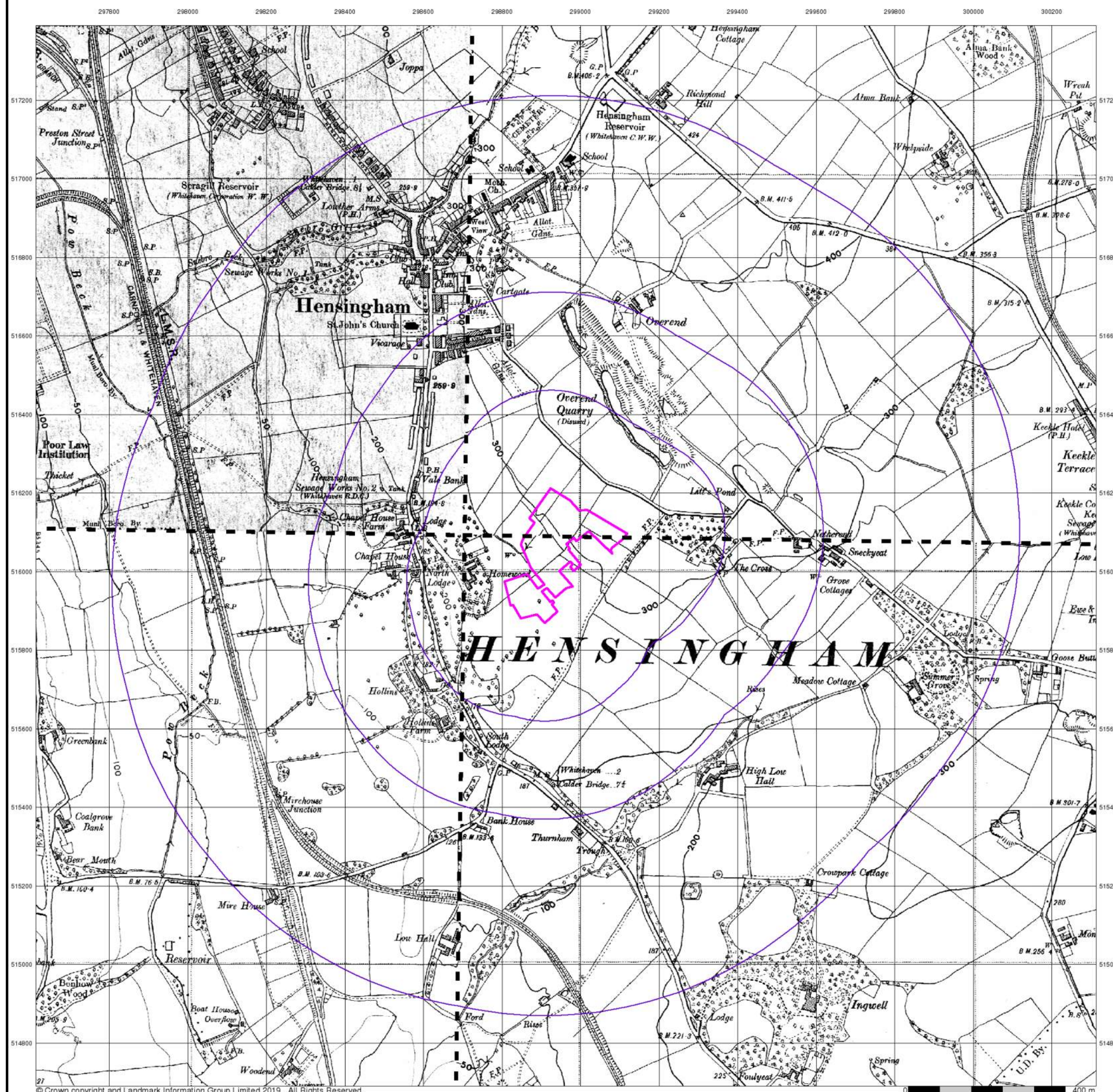
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Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Landmark
INFORMATION GROUP

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Ordnance Survey Plan

Published 1956 - 1957

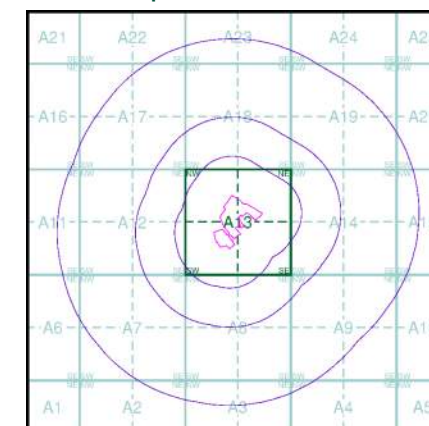
Source map scale - 1:10,000

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

NX91NE	NY01NW
1957	1957
1:10,560	1:10,560
NX91SE	NY01SW
1957	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

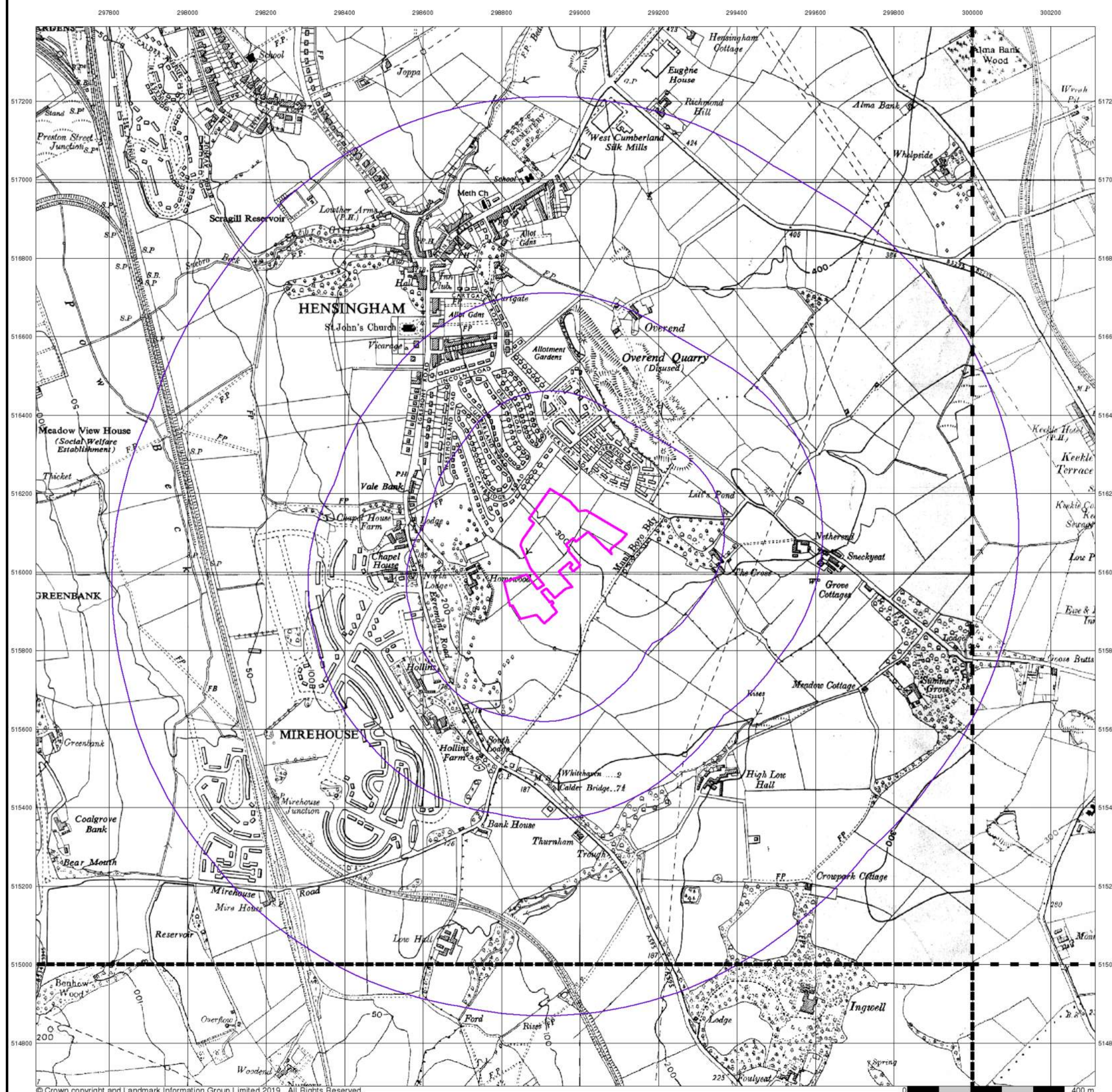
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National Grid Reference: 298950, 516040
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Site Area (Ha): 4.13
Search Buffer (m): 1000

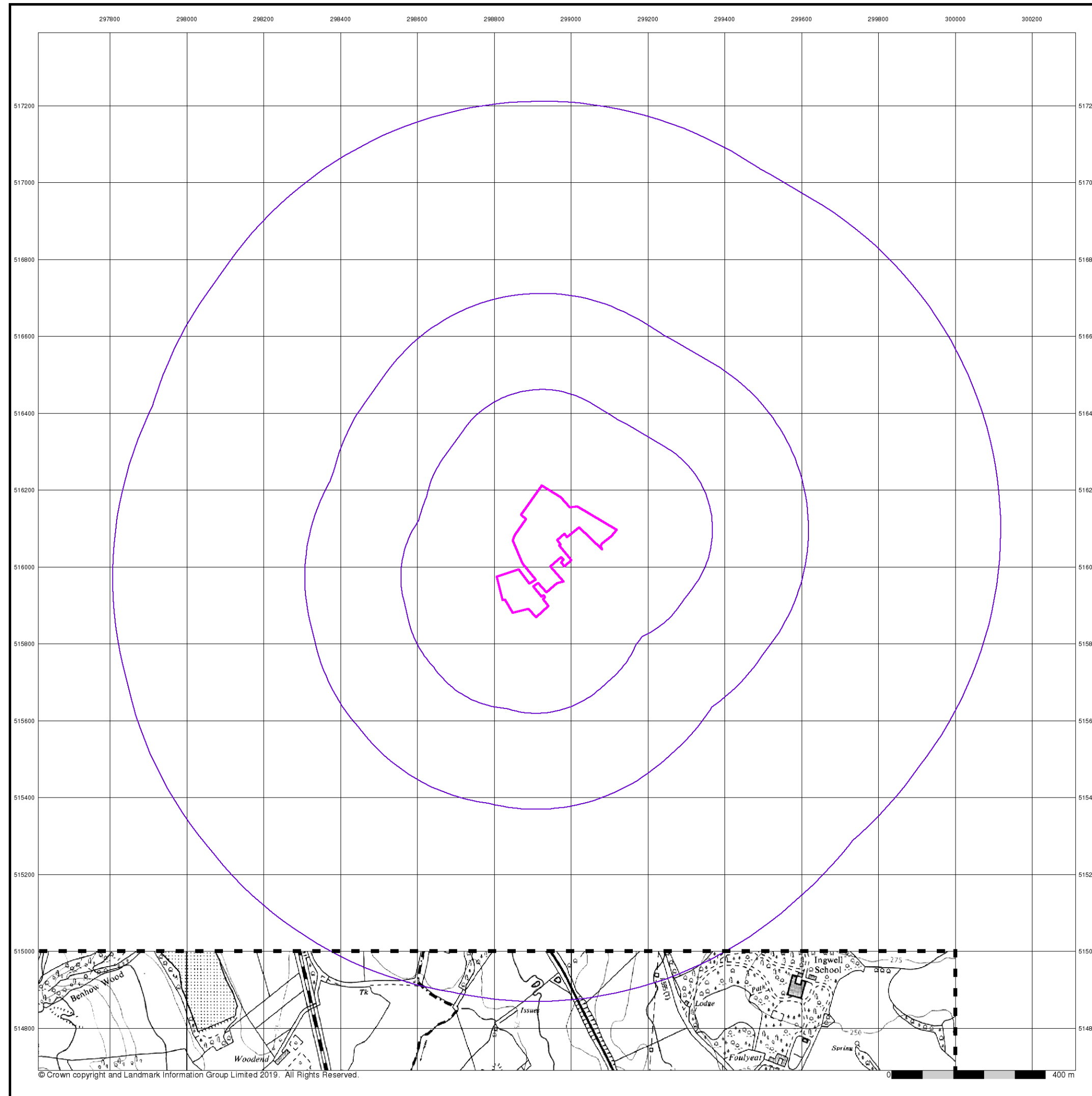
Site Details

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WHITEHAVEN, CA28 8JG

Landmark
INFORMATION GROUP

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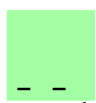




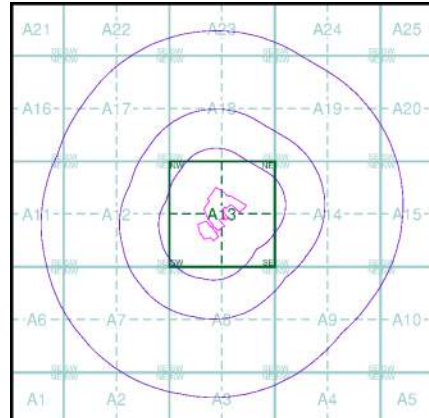
Ordnance Survey Plan
Published 1967
Source map scale - 1:10,000

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

Map Name(s) and Date(s)


NX91 SE
1967
1:10,560

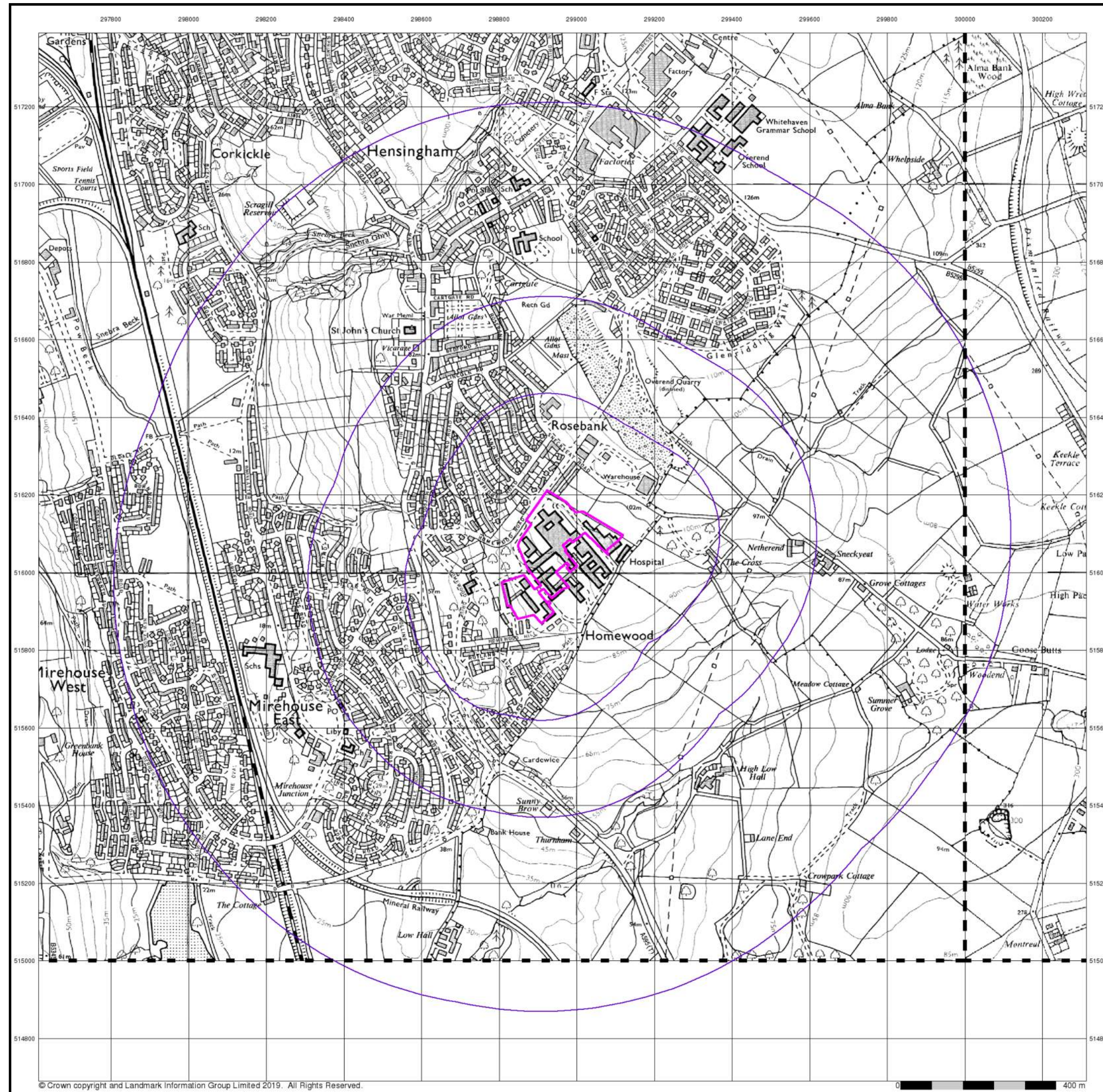
Historical Map - Slice A



Order Details

Order Number:	209787581_1_1
Customer Ref:	073096.300
National Grid Reference:	298950, 516040
Slice:	A
Site Area (Ha):	4.13
Search Buffer (m):	1000

Site Details
West Cumberland Hospital, Homewood, Hensingham,
WHITEHAVEN, CA28 8JG



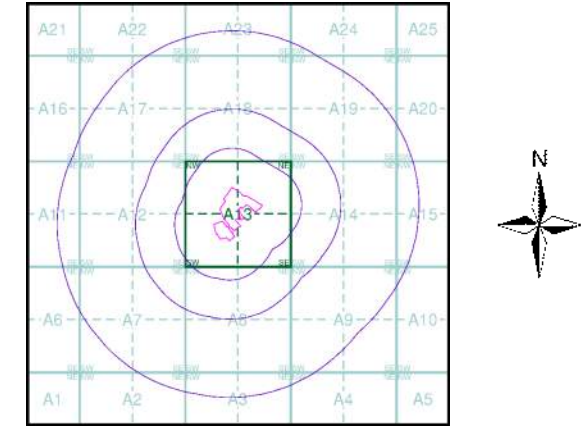
Ordnance Survey Plan
Published 1971 - 1979
Source map scale - 1:10,000

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)

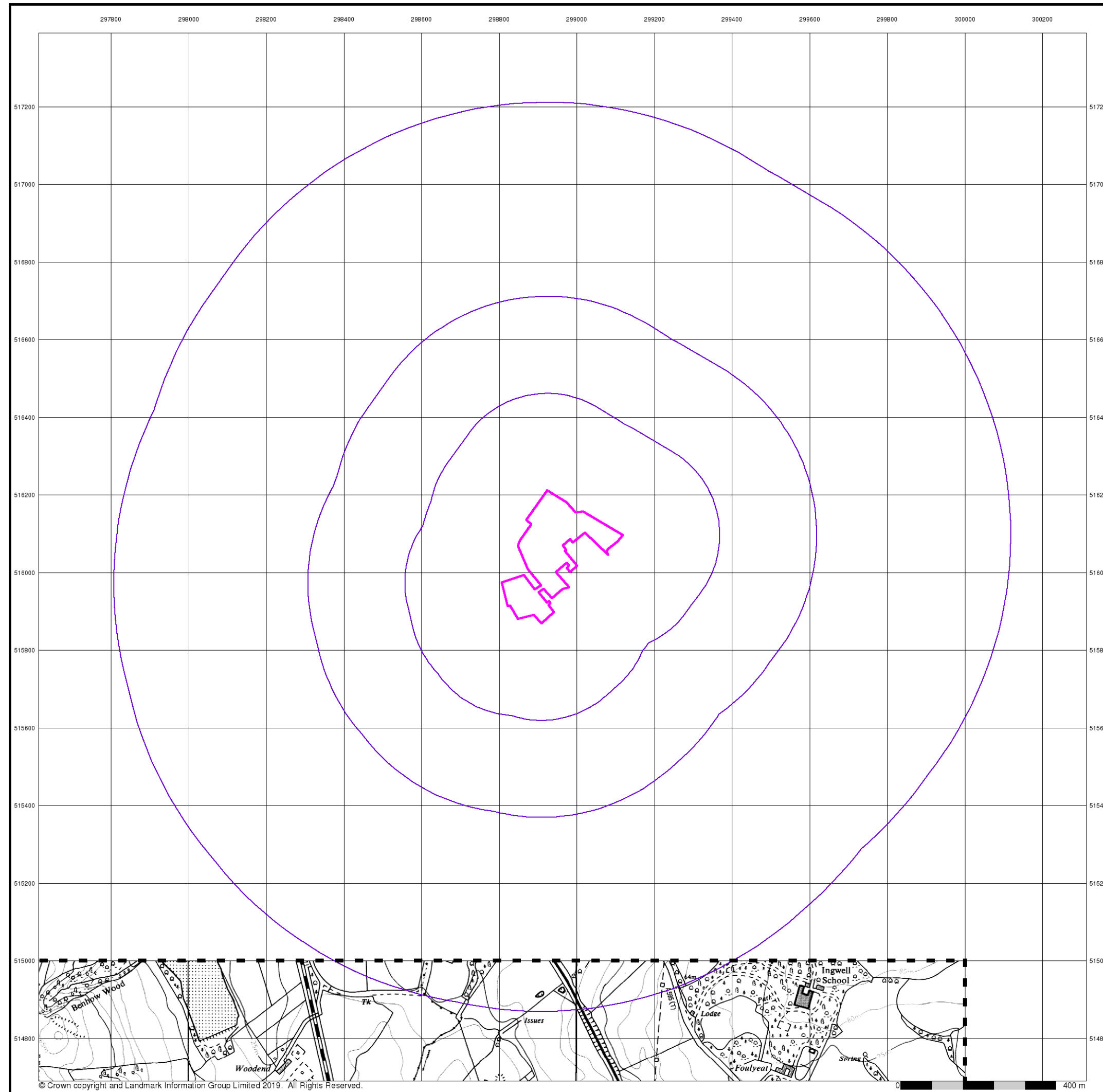
NX91NE 1979 1:10,000	NY01NW 1971 1:10,560
----------------------------	----------------------------

Historical Map - Slice A



Order Details
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

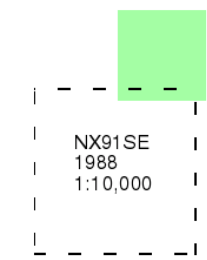
Site Details
West Cumberland Hospital, Homewood, Hensingham,
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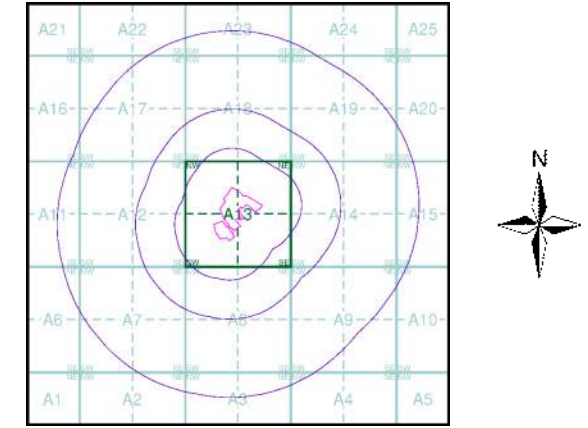
Ordnance Survey Plan
Published 1988
Source map scale - 1:10,000

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)



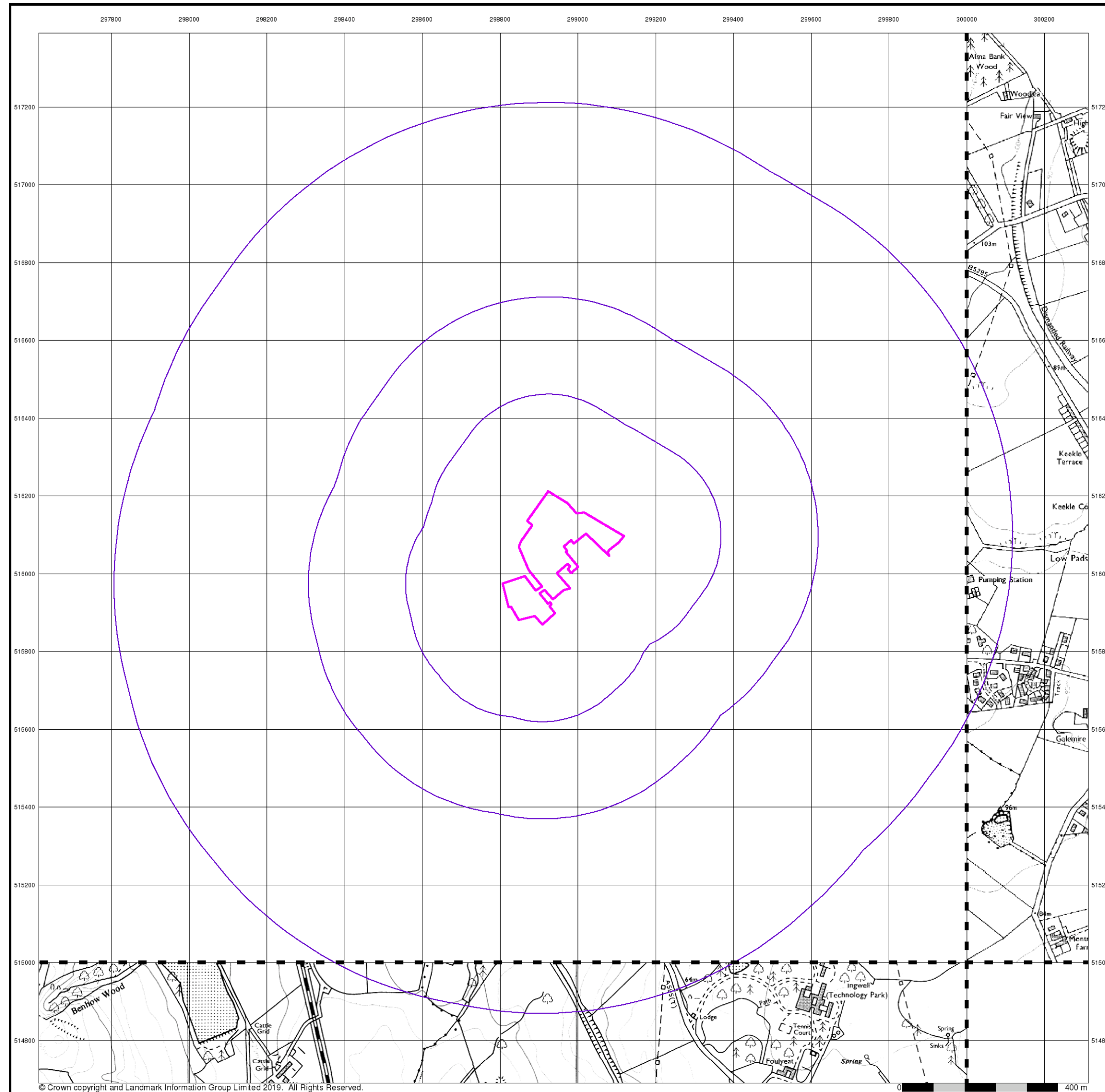
Historical Map - Slice A



Order Details

Order Number:	209787581_1_1
Customer Ref:	073096.300
National Grid Reference:	298950, 516040
Slice:	A
Site Area (Ha):	4.13
Search Buffer (m):	1000

Site Details
West Cumberland Hospital, Homewood, Hensingham,
WHITEHAVEN, CA28 8JG



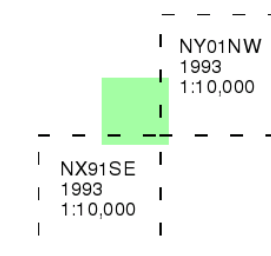
Ordnance Survey Plan

Published 1993

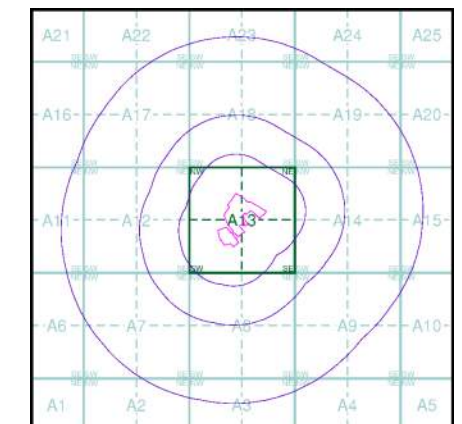
Source map scale - 1:10,000

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: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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WHITEHAVEN, CA28 8JG



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10k Raster Mapping

Published 2000

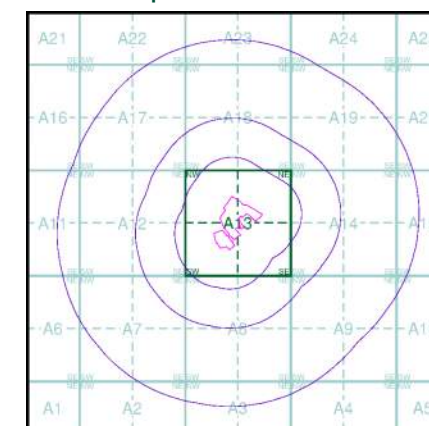
Source map scale - 1:10,000

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)

NX91NE	NY01NW
2000	2000
1:10,000	1:10,000
NX91SE	NY01SW
2000	2000
1:10,000	1:10,000

Historical Map - Slice A



Order Details

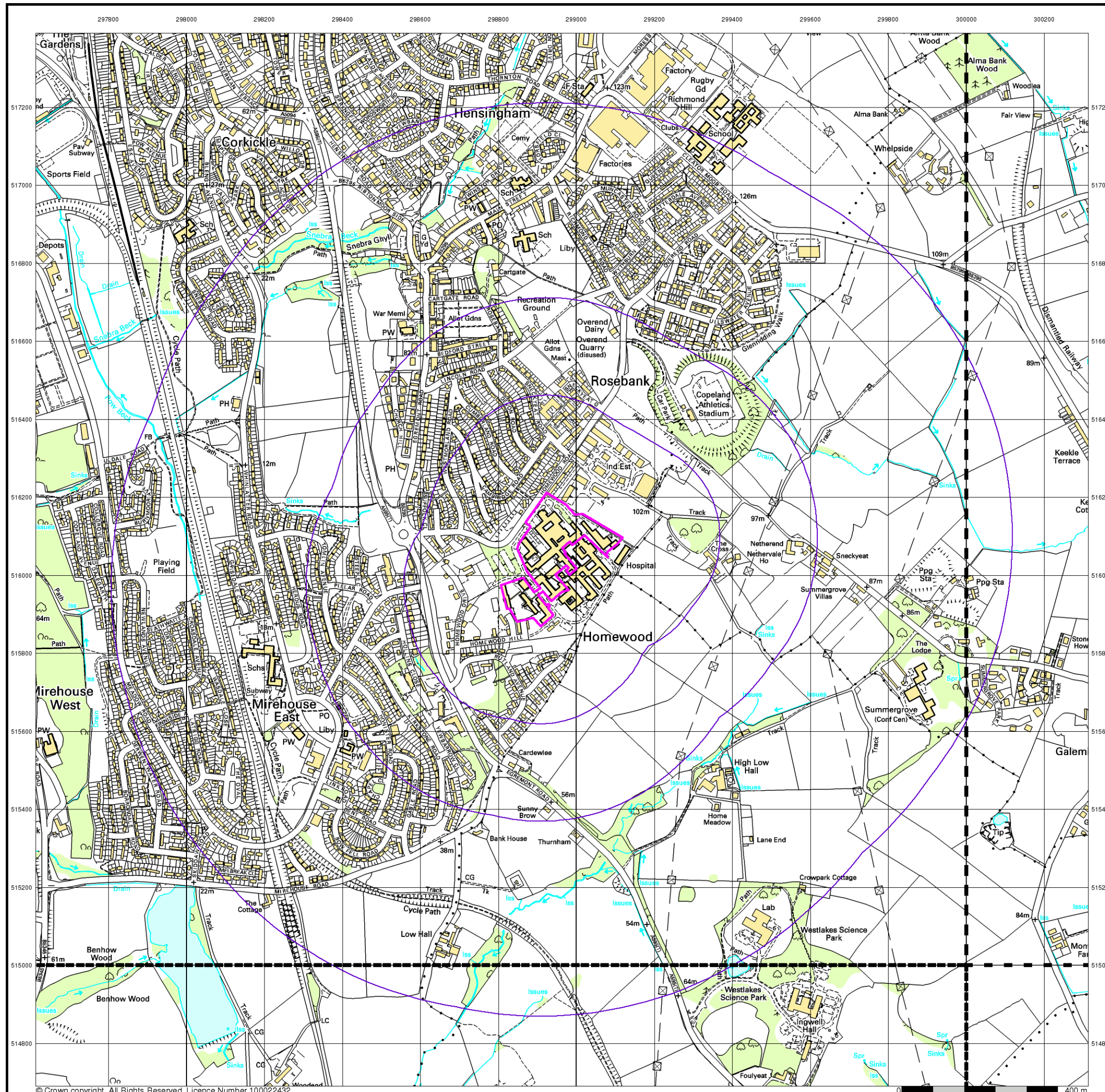
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Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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10k Raster Mapping

Published 2006

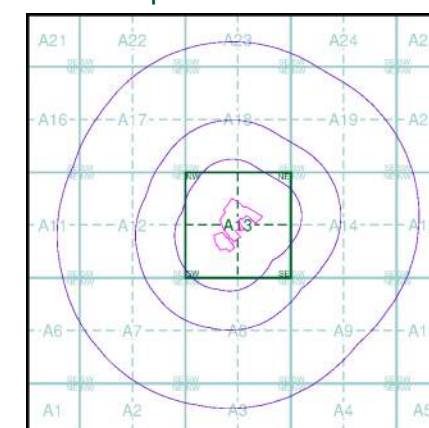
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

NX91NE	NY01NW
2006	2006
1:10,000	1:10,000
NX91SE	NY01SW
2006	2006
1:10,000	1:10,000

Historical Map - Slice A



Order Details

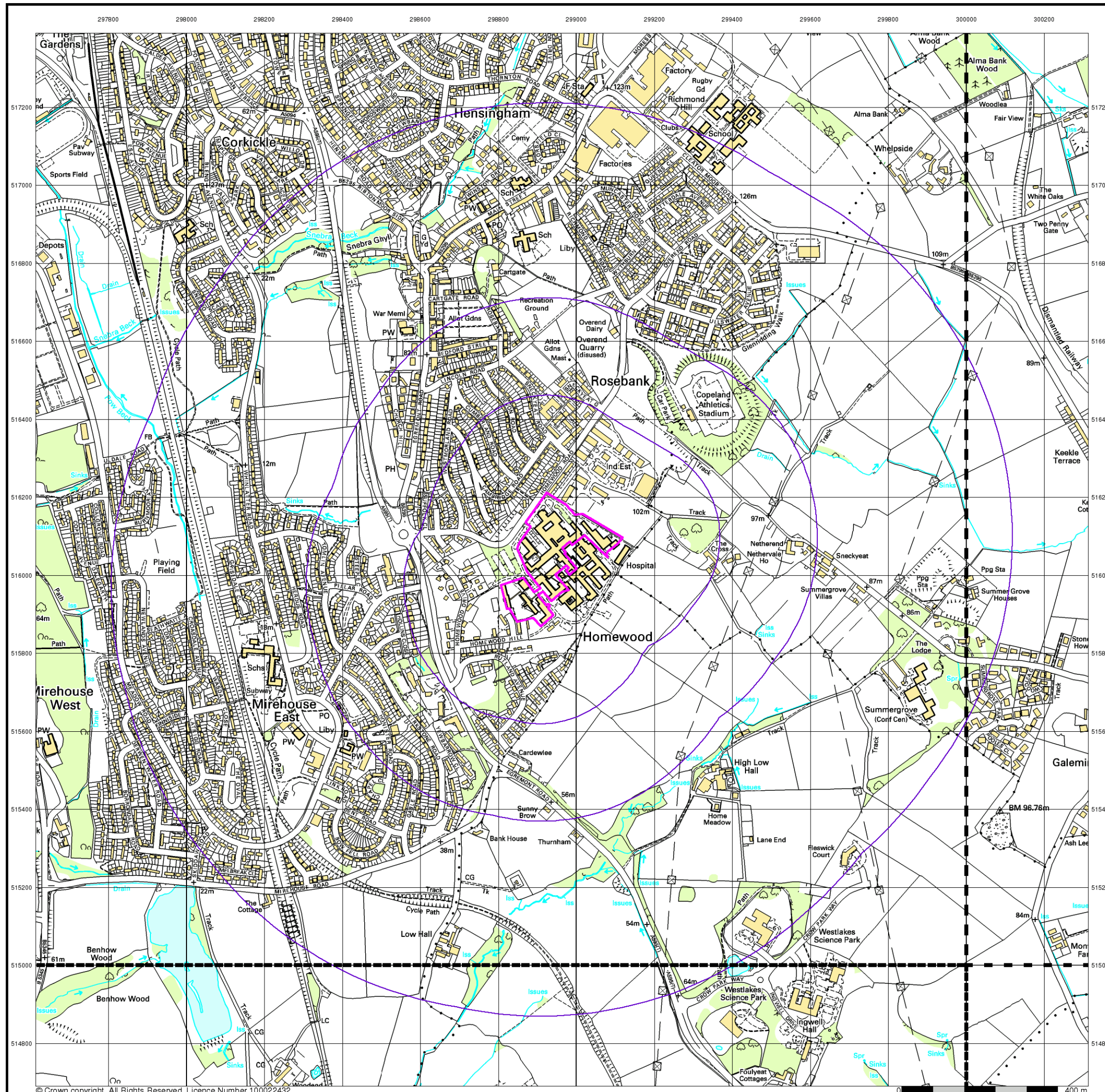
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Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

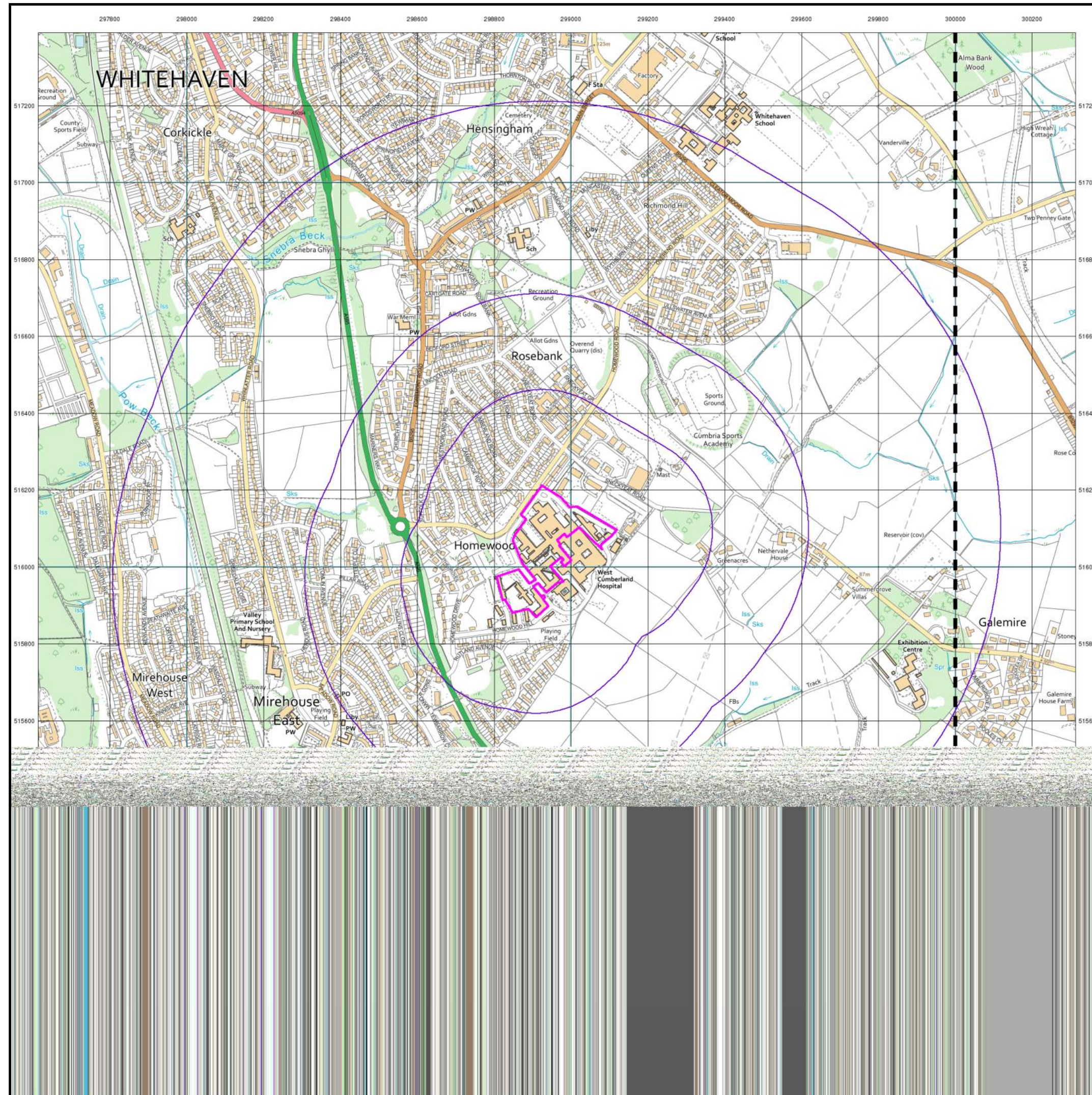
Site Details

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VectorMap Local

Published 2019

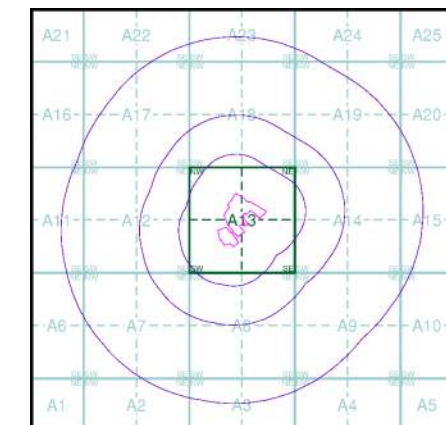
Source map scale - 1:10,000

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)

NX91NE	NY01NW
2019	2019
Variable	Variable
NX91SE	NY01SW
2019	2019
Variable	Variable

Historical Map - Slice A



Order Details

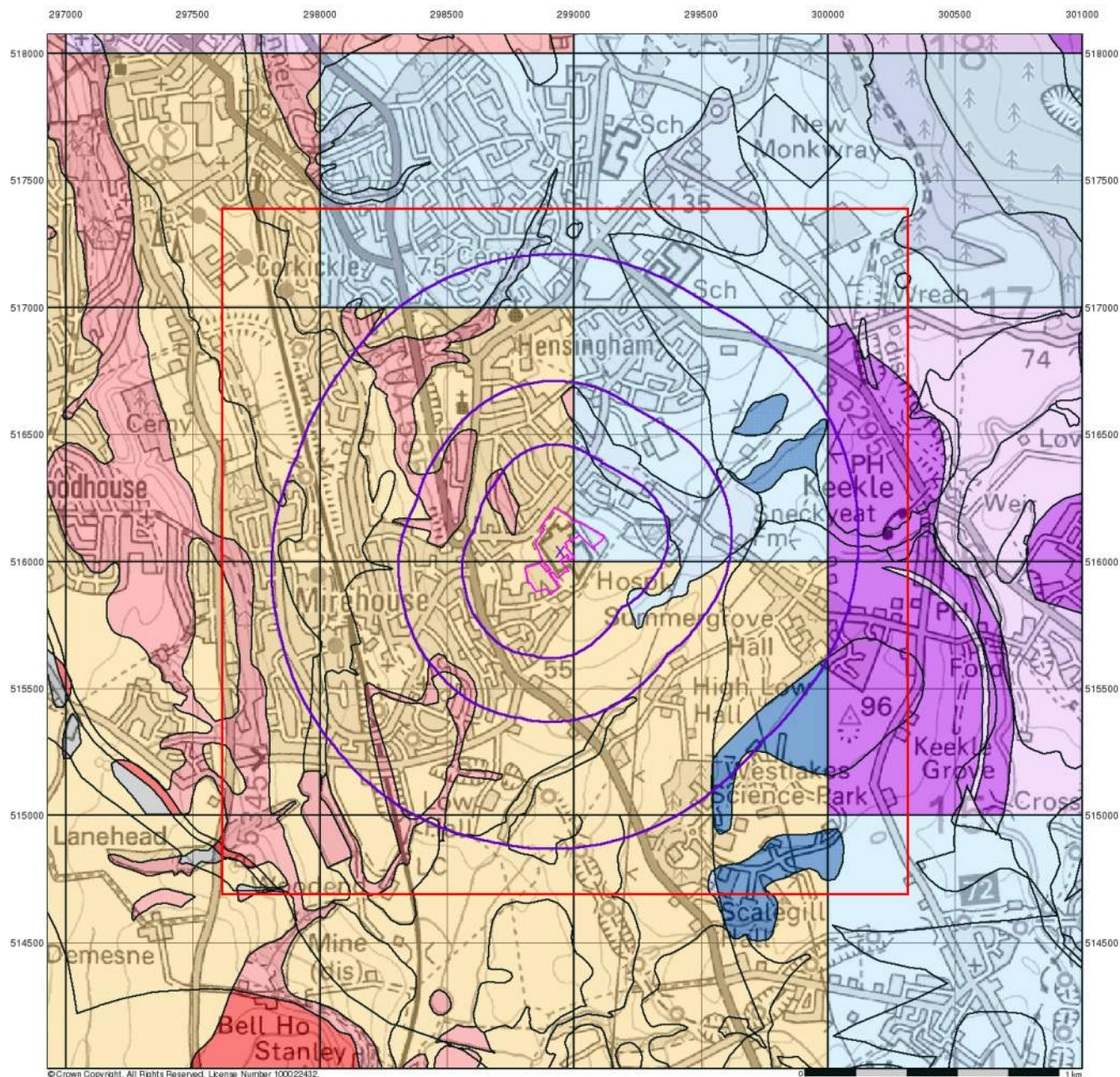
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Groundwater Vulnerability

General

- Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- 8 Map ID

Agency and Hydrological

Bedrock Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

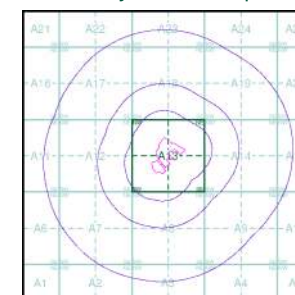
Superficial Aquifers

- High Vulnerability, Principal Aquifer
- High Vulnerability, Secondary Aquifer
- Medium Vulnerability, Principal Aquifer
- Medium Vulnerability, Secondary Aquifer
- Low Vulnerability, Principal Aquifer
- Low Vulnerability, Secondary Aquifer

■ Unproductive Aquifer

⋯ Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

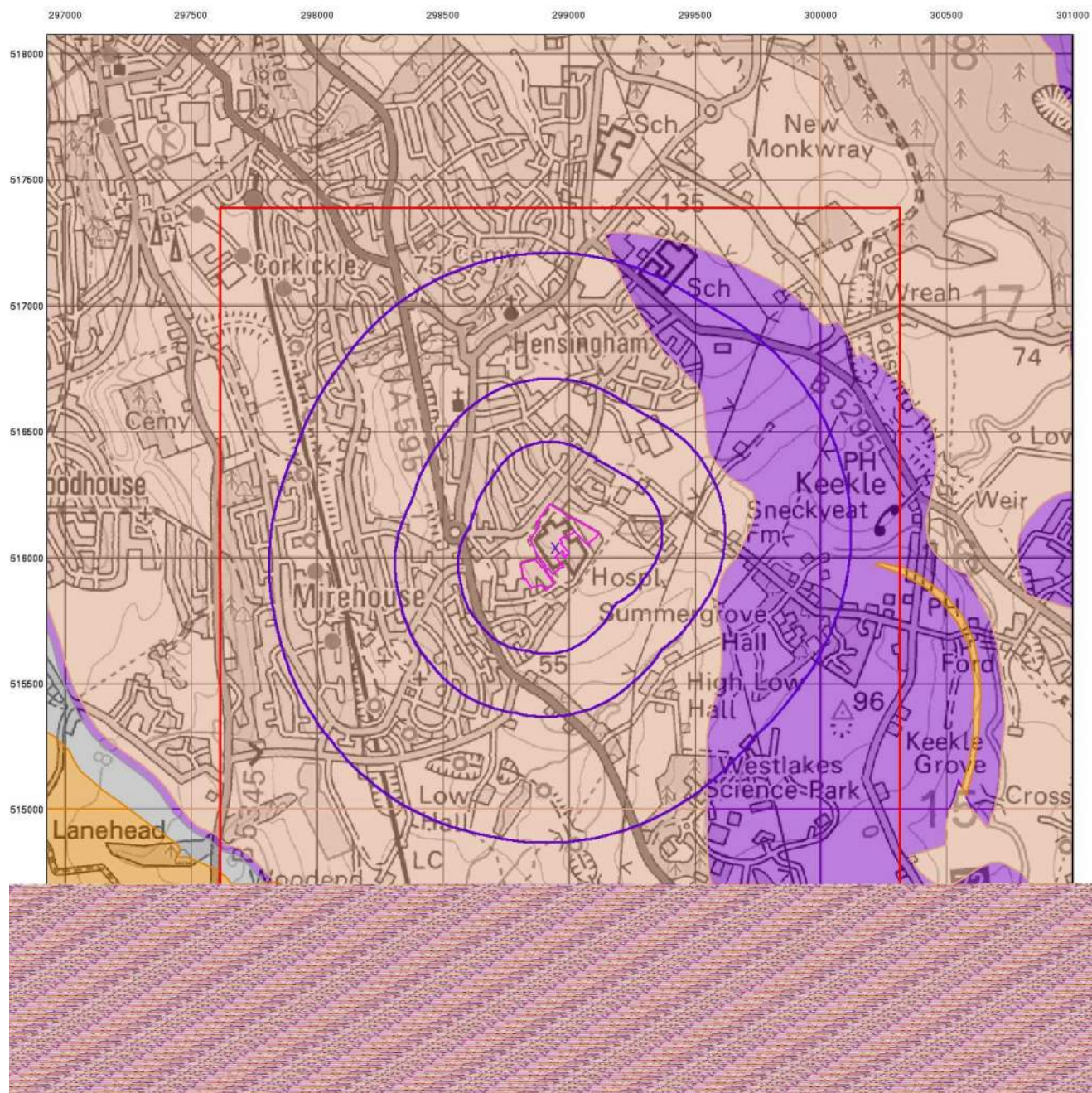
Order Number: 209787581_1_1
 Customer Ref: 073096.300
 National Grid Reference: 298950, 516040
 Slice: A
 Site Area (Ha): 4.13
 Search Buffer (m): 1000

Site Details

West Cumberland Hospital, Homewood, Hensingham, WHITEHAVEN, CA28 8JG

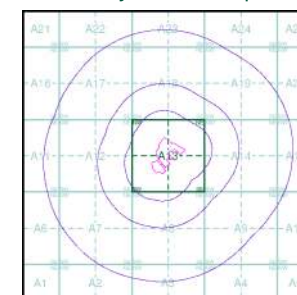
Landmark
 INFORMATION GROUP

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 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



Bedrock Aquifer Designation

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 209787581_1_1
 Customer Ref: 073096.300
 National Grid Reference: 298950, 516040
 Slice: A
 Site Area (Ha): 4.13
 Search Buffer (m): 1000

Site Details

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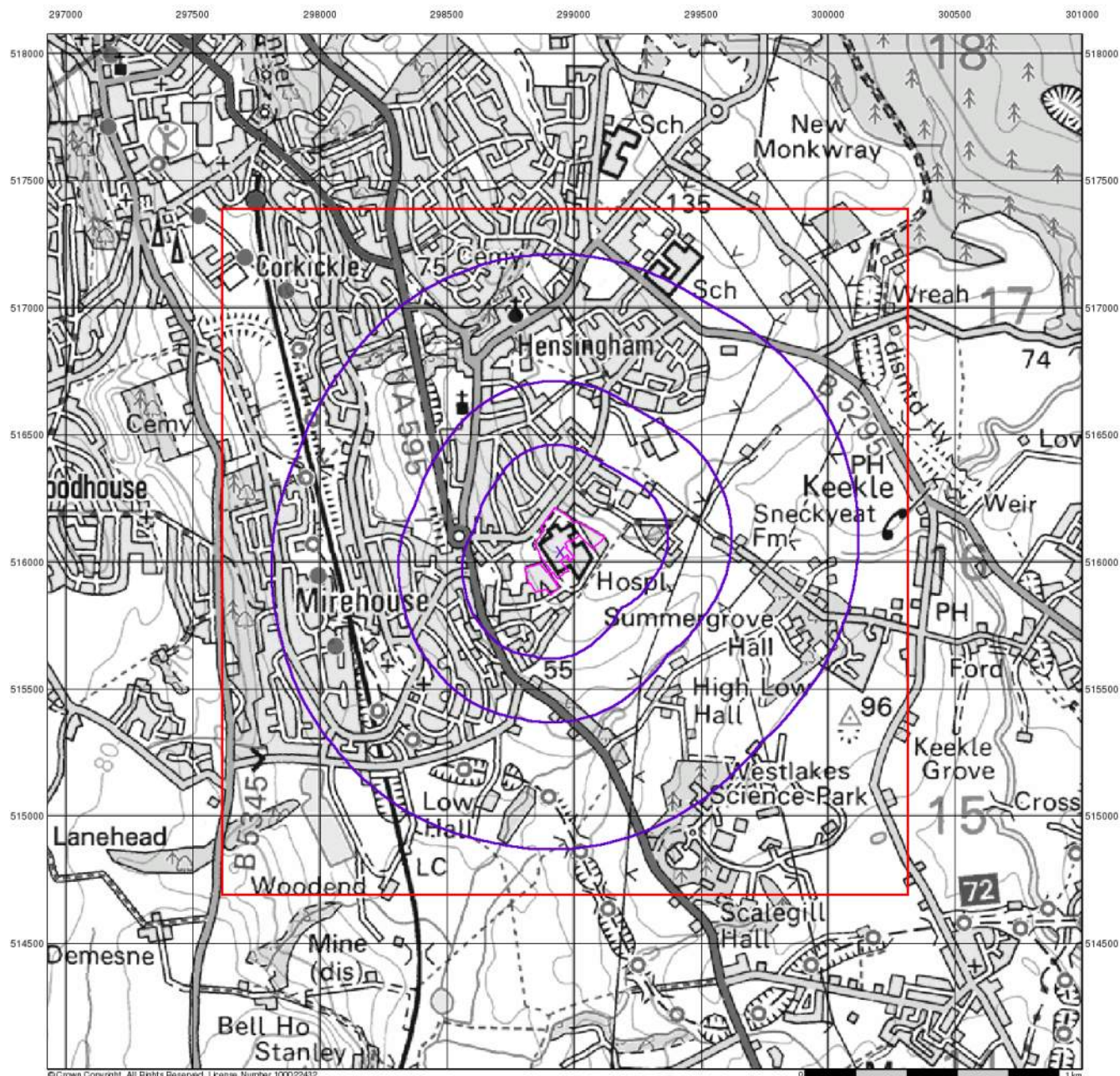
Superficial Aquifer Designation

Site Sensitivity Context Map - Slice A

Order Details	
Order Number:	209787581_1_1
Customer Ref:	073096.300
National Grid Reference:	298950, 516040
Slice:	A
Site Area (Ha):	4.13
Search Buffer (m):	1000

Site Details
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Source Protection Zones

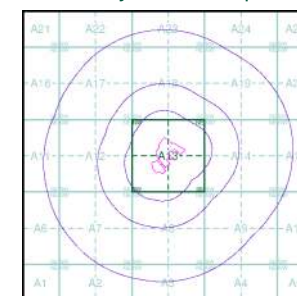
General

- ◊ Specified Site ○ Specified Buffer(s) X Bearing Reference Point
- Slice B Map ID

Agency and Hydrological

- Inner zone (Zone 1)
- ▨ Inner zone - subsurface activity only (Zone 1c)
- Outer zone (Zone 2)
- ▨ Outer zone - subsurface activity only (Zone 2c)
- Total catchment (Zone 3)
- ▨ Total catchment - subsurface activity only (Zone 3c)
- Special interest (Zone 4)

Site Sensitivity Context Map - Slice A



Order Details

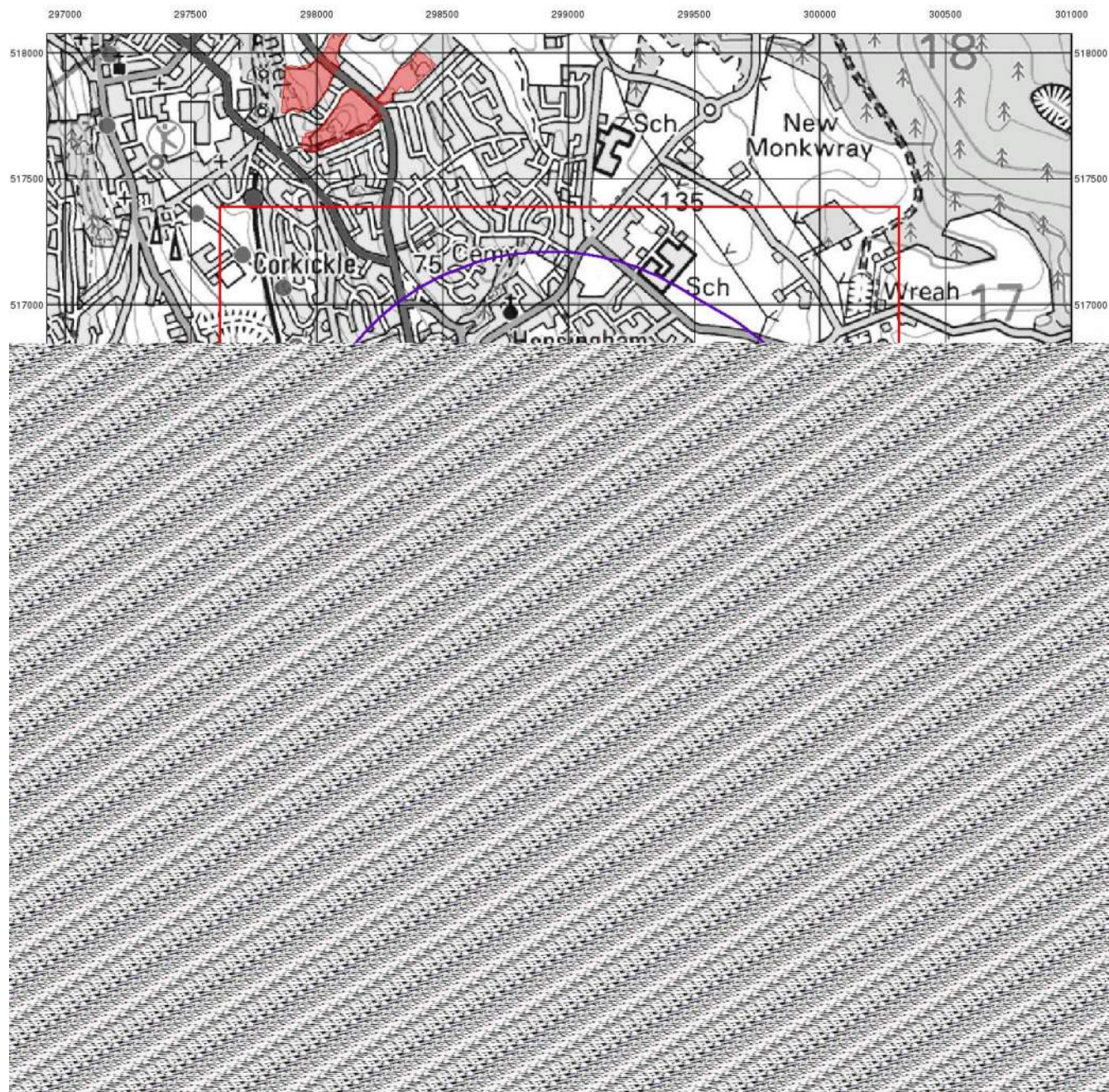
Order Number: 209787581_1_1
 Customer Ref: 073096.300
 National Grid Reference: 298950, 516040
 Slice: A
 Site Area (Ha): 4.13
 Search Buffer (m): 1000

Site Details

West Cumberland Hospital, Homewood, Hensingham, WHITEHAVEN, CA28 8JG

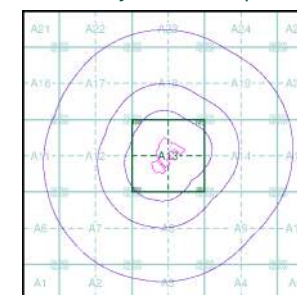
Landmark
 INFORMATION GROUP

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 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk



Sensitive Land Uses

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 209787581_1_1
 Customer Ref: 073096.300
 National Grid Reference: 298950, 516040
 Slice: A
 Site Area (Ha): 4.13
 Search Buffer (m): 1000

Site Details

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 Fax: 0844 844 9951
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BGS Flood GFS Data

Site Sensitivity Context Map - Slice A

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Site Sensitivity Map - Segment A13

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Plot Buffer (m): 100

Site Details

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Site Sensitivity Map - Slice A

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Industrial Land Use Map

Industrial Land Use Map - Slice A

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Flood Map - Slice A

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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For Borehole information please refer to the Borehole .csv file which accompanied this slice.

A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A

Order Details
Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details
West Cumberland Hospital, Homewood, Hensingham,
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Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk

OS Water Network Map - Slice A

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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EA/NRW Suitability Map - Slice A

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Estimated Soil Chemistry Arsenic - Slice A

Order Details

Order Details: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Estimated Soil Chemistry Cadmium - Slice A

Order Details

Order Details: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Estimated Soil Chemistry Chromium - Slice A

Order Details

Order Details: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Fax: 0844 844 9951
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Estimated Soil Chemistry Lead - Slice A

Order Details

Order Details: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Estimated Soil Chemistry Nickel - Slice A

Order Details

Order Details: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298950, 516040
Slice: A
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

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Index Map

For ease of identification, your site and buffer have been split into Slices, Segments and Quadrants. These are illustrated on the Index Map opposite and explained further below.

Slice
Each slice represents a 1:10,000 plot area (2.7km x 2.7km) for your site and buffer. A large site and buffer may be made up of several slices (represented by a red outline), that are referenced by letters of the alphabet, starting from the bottom left corner of the slice "grid". This grid does not relate to National Grid lines but is designed to give best fit over the site and buffer.

Segment
A segment represents a 1:2,500 plot area. Segments that have plot files associated with them are shown in dark green, others in light blue. These are numbered from the bottom left hand corner within each slice.

Quadrant
A quadrant is a quarter of a segment. These are labelled as NW, NE, SW, SE and are referenced in the datasheet to allow features to be quickly located on plots. Therefore a feature that has a quadrant reference of A7NW will be in Slice A, Segment 7 and the NW Quadrant.

A selection of organisations who provide data within this report:

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Mr D Xu, Curtins Consulting Ltd, 40 Compton Street,
London, EC1V 0AP

Order Details

Order Number: 209787581_1_1
Customer Ref: 073096.300
National Grid Reference: 298930, 516050
Site Area (Ha): 4.13
Search Buffer (m): 1000

Site Details

West Cumberland Hospital, Homewood, Hensingham,
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<http://www.landmarkinfo.co.uk/Terms/Show/515>

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UNEXPLODED BOMB RISK MAP

SITE LOCATION

Location: CA28 8JG,
Map Centre: 298940,516115

LEGEND

High	Areas indicated as having a bombing density of 50 bombs per 1000 acre or higher.	military	industry	UXO find
Moderate	Areas indicated as having a bombing density of 15 to 49 bombs per 1000 acre.	transport	dock	Luftwaffe targets
Low	Areas indicated as having 15 bombs per 1000 acre or less	utilities	other	

How to use your Unexploded Bomb (UXB) risk map?

The map indicates the potential for Unexploded Bombs (UXB) to be present on your site as a result of World War Two (WWII) bombing.

You can incorporate the map into your preliminary risk assessment* for potential Unexploded Ordnance (UXO) for a site. Using this map, you can make an informed decision as to whether a more in-depth detailed risk assessment* is necessary.

What do I do if my site is in a moderate or high risk area?
Generally, we recommend that a detailed UXO desk study and risk assessment is carried out on sites in a moderate or high UXB risk area.

More often than not, this further detailed research will conclude that the potential for a significant UXO hazard to be present on your site is actually low. [tel+44 \(0\) 1993 886682](tel:+44%20%201993%20886682)

Never plan site work or undertake a risk assessment using these maps as a sole source of information. If detail is required, particularly where there may be a source of UXO from other military operations which are not reflected on these maps. enquiries@zeticauxo.com
www.zeticauxo.com

If my site is in a low risk area, do I need to do anything?
If the map indicates a low risk area, research confirms that there is a low probability of UXO being present on your site then, subject to your own comfort and safety, your works can proceed with no special precautions.

A low risk area does not mean that there is no greater probability of UXO being present on your site than anywhere else in the UK.

If you are unsure whether other sources of UXO may be present on your site, you should consider a Preliminary Detailed Risk Assessment (PDRA)

If I have any questions, who do I contact?

[tel+44 \(0\) 1993 886682](tel:+44%20%201993%20886682)
enquiries@zeticauxo.com
www.zeticauxo.com

The information in this UXB risk map is derived from a number of sources and should be used in conjunction with the information provided in the map. <https://zeticauxo.com/downloads-and-resources/risk-maps/>

Zetica cannot guarantee the accuracy or completeness of the information or data used and cannot accept any liability as part of a technical report or similar publication, subject to acknowledgment. The copyright remains with Zetica Ltd.

It is important to note that this map is not a UXO risk assessment and should not be reported as such when reproduced.

*Preliminary and detailed UXO risk assessments are advocated as good practice by industry guidance such as CIRIA C550 'Guidance on the management of UXO in the construction industry'.

Appendix C Qualitative Risk Assessment Rationale

The site-specific risk assessment, presented in this report, follows the principle of establishing whether there is a viable linkage between a contaminant source to a potential receptor, via an exposure pathway.

The risk assessment corresponds with the total site area and incorporates both descriptive (qualitative) and, where available, numerical (quantitative) lines of evidence.

Risk assessment is the process of collating known information on a hazard or set of hazards to estimate actual or potential risk to receptors. The receptor may be humans, a water resource, a sensitive local ecosystem or future construction materials. Receptors can be connected to the source by one or several exposure pathways such as direct contact for example. Risks are generally managed by isolating the receptor or intercepting the exposure pathway or by isolating or removing the hazard.

Without the three essential components of a source, pathway and receptor there can be no risk. Therefore, the presence of contaminant source on a site does not necessarily mean there is a risk.

The risk assessment considers the likelihood of an event taking place (accounting for the presence of the source and receptor and the viability of the exposure pathway) in conjunction with the severity of the potential consequence (accounting for the potential severity of the hazard and the sensitivity of the receptor).

In the risk assessment, the consequence of the hazard has been classified as severe or medium or mild or minor and the probability (likelihood) of the circumstances occurring classified as high likelihood or likely or low likelihood or unlikely.

The consequences and probabilities are subsequently cross-correlated to give a qualitative estimation of the risk using Department of the Environment risk classifications as detailed in the table below and as referenced in CIRIA C552.

		Consequence			
		Severe	Medium	Mild	Minor
Probability (Likelihood)	High Likelihood	Very High Risk	High Risk	Moderate Risk	Moderate/Low Risk
	Likely	High Risk	Moderate Risk	Moderate/Low Risk	Low Risk
	Low Likelihood	Moderate Risk	Moderate/Low Risk	Low Risk	Very Low Risk
	Unlikely	Moderate/Low Risk	Low Risk	Very Low Risk	Very Low Risk

Phase 1 Preliminary Risk Assessment

In accordance with DoE guidance, the following categorisation of consequence has been developed.

Classification	Definition	Examples
Severe	Short-term (acute) risk to human health defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resource. Catastrophic damage to buildings/property. A short-term risk to an ecosystem or organisation forming part of such ecosystem.	High concentrations of cyanide on the surface of an informal recreation area. Major spillage of contaminants from site into controlled water. Explosion, causing building collapse (can also equate to a short-term human health risk if buildings are occupied).
Medium	Chronic damage to Human Health. Pollution of sensitive water resources. A significant change in an ecosystem or organism forming part of such ecosystem.	Concentration of a contaminant from site exceeds the generic or site-specific assessment criteria. Leaching of contaminants from a site to a Principal or Secondary A aquifer. Death of a species within a designated nature reserve. Lesser toxic and asphyxiate effects
Mild	Pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services. Damage to sensitive buildings/structures/services or the environment.	Pollution of non-classified groundwater (inc. Secondary B aquifers). Damage to building rendering it unsafe to occupy (e.g. foundation damage resulting in instability).
Minor	Harm, although not necessarily significant harm, which may result in a financial loss or expenditure to resolve. Non-permanent health effects to human health (easily prevented by means such as personal protective clothing, etc). Easily repairable effects of damage to buildings, structures and services.	The presence of contaminants at such concentrations that protective equipment is required during site works. The loss of plants in a landscaping scheme. Discoloration of concrete.

Phase 1 Preliminary Risk Assessment

In accordance with DoE guidance, the following categorisation of probability has been developed.

Classification	Definition
High Likelihood	There is a pollution linkage and an event that either appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution.
Likely	There is a pollution linkage and all the elements are present and in the right place, which means that it is probable that an event will occur. Circumstances are such that an event is not inevitable, but possible in the short term and likely over the long term.
Low Likelihood	There is a pollution linkage and circumstances are possible under which an event could occur. However, it is by no means certain that even over a longer period such event would take place and is less likely in the shorter term.
Unlikely	There is a pollution linkage, but circumstances are such that it is improbable that an event would occur even in the very long term.

In accordance with DoE guidance, the following categorisation of risk has been developed.

Classification	Definition
Very High Risk	There is a high probability that severe harm could arise to a designated receptor from an identified hazard at the site without appropriate further action.
High Risk	Harm is likely to arise to a designated receptor from an identified hazard at the site without appropriate further action.
Moderate Risk	It is possible that without appropriate further action harm could arise to a designated receptor. It is relatively unlikely that any such harm would be severe, and if any harm were to occur it is more likely that such harm would be relatively mild.
Low Risk	It is possible that harm could arise to a designated receptor from an identified hazard. It is likely that, at worst, if any harm was realised any effects would be mild.
Very Low Risk	The presence of an identified hazard does not give rise to the potential to cause harm to a designated receptor.

contamination is complete. It does not refer to immediate risk to individuals or features present on the site from potential contaminants and is intended to be used as a tool to assess the necessity of further investigation.

Our Locations

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2 The Wharf
Bridge Street
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