

Phase 1 (Desk Study) Investigation Report

Land off Whalley Road, Barrow

for

Caldecotte Consultants



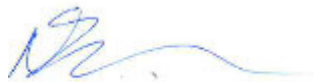
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Prepared By



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Date: 5th January 2016
Reference: J-D1704.00_R2_NB
Status: Final

Approved for
Release By



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EXECUTIVE SUMMARY

Location	The site is located approximately 3.5km to the south of Clitheroe and is centred on approximate National Grid Reference 373870, 438430. Access to the site can be gained off Whalley Road to the west of the site.
History	A summary of historical ordnance survey maps, from 1848 to 2015 is presented below. On site The east part of the site is broadly undeveloped agricultural land since 1848 and the western part of the site contains a structure from 1848 and labelled as a public house from 1893 until present. Off site The surrounding area to the north, south and east is occupied by open fields with terrace properties along Whalley Road to the west of site from 1848 onwards. A print works is shown approximately 200m south from site in 1848, which changes to an engraving works by 1970 that is no longer present by 2006. A rail line is shown approximately 750m to the west of the site trending north to south from 1848 to 2015. Two surface waercourses are located approximately 100m to the northwest and 250m to the south of the site respectively. The southern river is dammed and forms two reservoirs, increasing to three by 1895. The two reservoirs are located approximately 250m to the south, with the third located 350m to the east of the site. These remain to the present day. Two gasometers and several tanls are shown on the 1893 plan approximately 150m to the south of the site up until at least 1932. A sewage tank and filter beds are shown from 1914 to 1955 approximately 250m to the south west. Barrow shows continued development from 1848 to present day.
Geology & Hydrogeology	Superficial: Glacial Till Bedrock: Mudstone of the Clitheroe Limestone Formation and Hodder Mudstone Formation. Faults: No known surface faults on site. One fault is shown approxiamtely 300m south-east of the site. Groundwater: Superficial – Unproductive strata Bedrock – Secondary A aquifer
Mineral Extraction	The site is not listed within the Law Society's Guidance Notes and Directory for Coal Mining Searches.

Anticipated Ground Conditions	It is anticipated that the majority of the site will be underlain by topsoil overlying glacial till (typically predominantly clay) and subsequently mudstone. The western area of the site associated with the public house is likely to have an unknown thickness of made ground present from ground level overlying the glacial till and mudstone.
Contamination Summary	The following potential sources of ground contamination have been identified that may adversely impact the site: • Ground gases and contaminated groundwater generated by historic landfill within 250m of the site; • Previous agricultural use – Pesticides and insecticides. • Historic gasometers 150m to the south of the site. • Filter beds associated with sewage works • Made ground associated with public house. The potential risk of contamination on site is currently considered likely to be low.
Foundation Summary	Traditional strip / trench footings based on a safe bearing capacity at 100kN/m² founding at a minimum depth of 900mm within the glacial till are considered suitable for this site, subject to confirmation via intrusive investigation. Ground bearing floor slabs are likely to be a viable option for this site. No radon protective measures are required, other ground gas protection measures may be required subject to confirmation through an intrusive investigation.
Soakaways Drainage	Natural ground conditions are anticipated to be glacial till onto mudstone bedrock. Based on the anticipated strata soakaways are currently considered unlikely to be viable.
Further Works	Intrusive investigation • Intrusive investigations and associated laboratory analysis; • Tree Survey; • Full Foundation Schedule.

FACTUAL INFORMATION

1.0 INTRODUCTION

- 1.1 This report describes a desk study carried out for Caldecotte Consultants on a site off Whalley Road, Barrow.
- 1.2 For the purpose of this assessment the proposed development is understood to be for residential properties with gardens. In the absence of specific information to the contrary, it has been assumed that site levels will not change significantly.
- 1.3 The objectives of this report were to obtain information from a variety of sources in relation to the site in order to assess geo-environmental issues pertinent to the proposed development.
- 1.4 This report has been produced on behalf of the Client, Caldecotte Consultants, and no responsibility is accepted to any Third Party for all or any part. This report should not be relied upon or transferred to any other parties without the express written authorisation of Opus. If any unauthorised Third Party comes into possession of this report, they rely on it at their own risk and the authors owe them no duty of care or skill.
- 1.5 Findings and opinions conveyed via the desk study within this report are based on information obtained from a variety of sources as detailed within this report, which Opus believes are reliable. Nevertheless, Opus cannot and does not guarantee the authenticity or reliability of the information it has relied upon.
- 1.6 The site plans enclosed in this report should not be scaled from.
- 1.7 All comments on ground conditions, ground gases and potential contaminants are from desk study information only and should be verified through an intrusive investigation along with suitable laboratory testing and interpretation.

2.0 THE SITE

2.1 Location & Access

2.1.1 The site is located approximately 3.5km to the south of Clitheroe and is centred on approximate National Grid Reference 373870, 438430 as shown on drawing no. DO J-D1704.00_401_R2, Site Location Plan.

2.1.2 Access to the site can be gained from Whalley road to the west of the site.

2.2 Site Description

2.2.1 The site is approximately 0.98 hectares in plan area and is broadly rectangular in shape.

2.2.2 The site is comprised primarily of an open field in the central and eastern area and a former restaurant and hardstanding in the west.

2.2.3 The site is bounded to the east by open fields. The western boundary comprises residential housing with associated parking.

2.2.4 The northern border of the site is bound by school playing fields and to the south by a housing development, sports field and industrial unit.

2.2.5 A site walkover was carried out on 2nd May 2014 and the following observations made. This section should be read in conjunction with drawing no. DO J-D1704.00_402 R2, Site Features Plan;

2.2.6 The site slopes gently from the east to the west.

2.2.7 Access to the site is reached by turning down the side of a closed Italian restaurant and crossing a gravelly concrete car park. The car park provides resident parking and access to the residents gardens. The main access for the site is in the south-west corner and is a large gated entrance typically used for agricultural access.

2.2.8 Fly tipping was apparent on site, and general waste included corrugated metal sheets, wood, old farm equipment, a motor vehicle and a bath tub.

2.2.9 The site is surrounded by well-developed trees and hedgerows on its north and southern flanks. The site is currently bound by residential houses to the west, further fields to the east.

3.0 DESK STUDY

3.1 Sources of Information

3.1.1 The following sources of information have been consulted as part of the desk study for the site:

- (a) Envirocheck Database Report;
- (b) Historical Ordnance Survey Maps via Envirocheck;
- (c) The Environment Agency (EA); and
- (d) BGS Geological Mapping via Envirocheck.

3.2 Site History

3.2.1 The history of the site is recorded over selected periods by the maps inspected, copies of which are supplied in Appendix 'A'. The account presented in this report is restricted by specific time periods represented by these map only.

3.2.2 Available historical Ordnance Survey maps, from 1848 to 2013, of the site and surrounding area were inspected. All significant changes are described as follows;

Period	On Site	Off Site
1848 - 1895	The eastern part of the site is shown to form part of a larger network of fields. Barrow House is marked to the south west corner of the site. The Dog and Partridge public house is shown on the 1893 plan to the south western corner of the site.	Barrow Bridge print works is shown approximately 250m to the south of the site. This is shown as Whalley Abbey print works on the 1895 plan. A rail line is shown approximately 750m to the west of the site trending north to south. This remains to present day. From 1895 a school is shown approximately 100m to the west of the site. A connected line of buildings is shown bordering the main road to the west of the site. From 1848,two surface watercoursesare shown approximately 100m to the north-west and 250m to the south respectively. The southern river is dammed and forms two reservoirs, increasing to three by 1895. Two reservoirs are located approximately 250m to the south of the site with the third located 350m to the east of the site. These remain to present day. Barrow shows development.

Period	On Site	Off Site
1911 - 1960	No significant changes.	Several tanks and gasometers are shown within Whalley Abbey print works approximately 150m to the south of the site from 1893 unit at least 1932. A cricket ground and pavilion is shown from 1914 approximately 80 and 150m to the southeast of the site respectively. A sewage tank and filter beds are shown from 1914 approximately 250m to the south west. Barrow shows continued development.
1970 - 1983	No significant changes.	A warehouse is shown approximately 50m across the Whalley Road to the west of the site. Whalley Abbey Print Works is shown as Whalley Abbey Engraving Works by 1970. By 1983 it is no longer shown. Barrow shows continued development.
2006-2014	A spring is shown on the southern boundary of the site.	A large residential development is shown approximately 300m to the south of the site from 2006. Further development continues immediately to the south of the site shown on the 2014 plan. Further open water areas are shown approximately 300m to the east of the site. Barrow shows continued development.

3.3 Geology, Hydrogeology and Hydrology

- 3.3.1 According to the inspected published geological information the site is shown to be covered by superficial deposits of glacial till. It is anticipated that the western area of the site may have a minimal layer of made ground from historical use.
- 3.3.2 The bedrock geology beneath the site is shown to be mudstone of the Clitheroe Limestone Formation and Hodder Mudstone Formation.
- 3.3.3 According to the Environment Agency (EA), the mudstone bedrock of the Clitheroe Limestone Formation and Hodder Mudstone formation is designated as a Secondary A Aquifer. These are described as 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.

- 3.3.4 According to the Environment Agency (EA), the superficial deposits of glacial till are designated as unproductive strata.
- 3.3.5 Due to the presence of several springs local to the site, it is anticipated that the water table will lie close to ground level.
- 3.3.6 One fault is shown to be present off site approximately 300m to the southeast of the site and trending east to west.
- 3.3.7 The Envirocheck report notes that the nearest surface water course is approximately 2m southeast of site. This is considered to correspond to a spring identified on the map. The historical plans also show two surface watercourses rivers within 260m of the site.

3.4 Mineral Extraction

- 3.4.1 Barrow is listed within the Law Society's Guidance Notes and Directory for Coal Mining Searches as not requiring a Coal Mining Report.
- 3.4.2 The Envirocheck report does not show any further mineral extractions within 1000m of the site.

3.5 Environmental Considerations

- 3.5.1 Specific details relating to the environmental setting of the site are presented within the environmental database report included as Appendix 'B'. The salient issues which relate to the site are summarised as follows:
 - There is one historical landfill site recorded approximately 193m south-east of site. The details of this landfill are limited and it is unknown if this site is still active;
 - There are no recorded BGS landfills within 1000m of the site boundary;
 - There are no Local Authority Pollution Prevention Controls registered within 500m of the site;
 - There are five pollution incidents to controlled waters recorded within 250m of site; the closest being a minor incident approximately 71m west in October 1993. There was one significant incident located 228m to the north in December 1992.
 - There are no waste management facilities within 250m of the site;
 - There is one groundwater and three surface water abstraction points within 500m of the site boundary. The groundwater abstraction is associated with Pendle View Fisheries Ltd, approximately 312m south-west.

- There are two contemporary trade entries with 250m of site; Walker Preservations (inactive) located 87m to the south-west and Whittle Eastern Europe Logistics Ltd (active), which is a road haulage services.
- There is one operational petrol station located approximately 154m to the south-east.
- There are no environmentally sensitive land uses within 2km of the site.

3.5.2 There are no other pertinent features contained within the Envirocheck Report which may affect the redevelopment of the site.

3.6 Radon

3.6.1 The Building Research Establishment have produced their revised document BR211 (“Radon guidance on protective measures for new buildings” 2007 Edition). This provides a staged framework to determine whether radon protective measures should be afforded to new dwellings.

3.6.2 This site does not require any radon protective measures.

3.7 Asbestos

3.7.1 Based on the available desk study information, it is possible that asbestos may be encountered on site. This could be associated within the existing development in the west of the site.

3.7.2 However, at the time of the walkover no evidence of asbestos containing material was noted on site.

4.0 PRELIMINARY CONCEPTUAL SITE MODEL

4.1 Potential Sources of Contamination

4.1.1 The following potential **on site** sources of ground contamination have been identified:

- Previous agricultural use – Pesticides and insecticides.
- Made ground – historical development of western area of the site.

4.1.2 The following potential **off site** sources of ground contamination have been identified:

- Potential contaminants from proximal printing works;
- Historic tanks and gasometer 150m to the south of the site;
- Petrol station 150 south-east;
- Filter beds associated with sewage works;
- Ground gases and contaminated groundwater generated by historic landfill within 250m of the site.

4.2 Receptors of Contamination and Migration Pathways

4.2.1 Receptors are defined as human or non-human organisms that have the potential to experience adverse effects from direct or indirect exposure to contaminated material.

4.2.2 Migration pathways are defined as the courses chemicals take from a source to an exposed organism or receptor. The exposure pathway can be direct (i.e. stays within the same exposure media) or indirect transport from one medium to another takes place.

4.2.3 The following potential human health and environmental receptors have been identified:

- Future site occupants
- Site construction and maintenance workers
- Neighbouring occupants
- Future building materials;
- Vegetation, proposed/existing landscaping;
- Local surface waters – two unnamed Rivers
- Local reservoirs
- Secondary A aquifer – Bedrock of Clitheroe Limestone Formation and Hodder Mudstone Formation
- Surface water drains on and off site;

4.2.4 The following potential migration pathways have been identified:

- Inhalation

Breathing dust and vapours from contaminated soil in outdoor air. Vapours can also migrate into buildings resulting in inhalation by the occupants.

- Ingestion

Eating and swallowing of contaminated soil and/or groundwater either by deliberate consumption, indirectly by eating or smoking with dirty hands or by ingestion of fugitive dust.

- Dermal Contact

Direct contact with contaminated soil and groundwater, causing skin conditions such as dermatitis etc. Certain contaminants can be absorbed into the body through the skin or enter directly through open cuts or abrasions.

- Migration of Contaminated Water

Contaminated groundwater can migrate laterally or vertically dependent on permeability, preferential pathways, man-made voids etc.

- Leaching

Infiltration of water through soil can leach out soluble contaminants resulting in groundwater pollution.

- Migration of Ground Gases

Generated ground gases can migrate laterally or vertically dependent on permeability, preferential pathways, man-made voids etc.

- Aggressive Attack

Building materials can be damaged by direct contact with aggressive ground conditions, for example sulphate attack on concrete and hydrocarbon attack on plastics.

- Uptake By Plants And Vegetables

Some contaminants may be toxic to plants but not necessarily to human health at the same concentrations. In addition, plants may uptake contaminants through their roots, which, in the case of home-grown vegetables may later be consumed by humans. Contaminated soil adhered to vegetables can also be potentially ingested if not properly washed before consumption. Plant growth can also be adversely affected by landfill gas.

4.3 Source-Pathway-Receptors Relationships

4.3.1 The following potential **Source-Pathway-Receptor** relationships have been identified for the site bearing in mind the development proposals;

Source	Pathway	Receptor	Potential Risk
Contaminated soil	Ingestion Dermal contact Inhalation (outdoor air)	Construction workers Future occupants	Low
Contaminated soil	Inhalation (indoor air)	Future occupants	Low
Contaminated soil	Leaching and migration	Controlled waters (Secondary A Aquifer)	Low
Contaminated soil	Aggressive attack	Building materials	Low
Contaminated soil	Root uptake to plants	Future occupants	Low
Contaminated groundwater	Ingestion Dermal contact Inhalation of vapours (outdoor air)	Construction workers Future occupants	Low
Contaminated groundwater	Inhalation of vapours (indoor air)	Future occupants	Low
Contaminated groundwater	Exposure during earthworks	Construction workers	Low
Contaminated groundwater	Migration to surface water courses	Controlled waters (Secondary A Aquifer) Surface waters	Low
Ground Gases	Migration of ground gases	Construction workers	Low
Ground Gases	Migration of ground gases	Future occupants	Low

4.3.2 A pictorial representation of the above is included as drawing DO_J-D1704.00_403_R2.

5.0 PRELIMINARY GEOTECHNICAL ASSESSMENT

5.1 Ground Conditions

- 5.1.1 The following assessment of the ground conditions expected on site is based solely on the desk study information. It is, therefore, subject to confirmation or otherwise through appropriate intrusive site investigation.
- 5.1.2 It is anticipated that the ground conditions on site will generally comprise of topsoil and locally made ground underlain by glacial till, likely to be recovered as clay. This will be underlain by either mudstone, or limestone rockhead.

5.2 Foundation Design

- 5.2.1 The following assessment of likely foundation types is based solely on the desk study and is, therefore, subject to confirmation or otherwise through appropriate intrusive site investigation techniques. The assessment also assumes that ground levels will remain similar to those at present. If this is not the case then some amendments to the recommendations given may be required.
- 5.2.2 It is anticipated that traditional strip / trench fill foundations bearing at a minimum depth of 900mm and based on a safe bearing capacity of 100kN/m² within the weathered bedrock / clay should be suitable for the entire site. However this should be confirmed through intrusive investigations and geotechnical testing.
- 5.2.3 Consideration should be given to the volume change potential of any clays/weathered mudstone if identified on the site and the requirement for the deepening of the foundations due to the presence of these materials and due to trees.
- 5.2.4 Should footings span differing geology types, the foundations should be deepened to bear wholly within the same material. Alternatively, it may be prudent to allow for light reinforcement although this will require approval by the relevant authorities at the appropriate time.
- 5.2.5 As this time it is unlikely that there will be deep made ground on site, therefore, foundations are unlikely to require over deepening.
- 5.2.6 Should granular material be encountered and shallow groundwater is present then the safe bearing capacity quoted above may reduce significantly.

5.3 Ground Floor Construction

- 5.3.1 Where existing made ground, topsoil and/or any newly placed fill is less than 600mm then a ground bearing floor slab will be appropriate. If the existing made ground and/or newly placed fill is greater than 600mm then a suspended floor slab should be used. The most likely floor slab construction considered appropriate at this stage is ground bearing with suitable precautions for volume change potential of the clay.
- 5.3.2 No radon protective measures are believed to be required on this site.

- 5.3.3 Due to the presence of the previously identified landfill within 250m of the site, ground gas monitoring will be required in order to determine the level/ if any, of gas protection measures required.

5.4 Road Pavement

- 5.4.1 A minimum CBR value of 1% on made ground and 3% (possibly higher) for natural materials may be assumed at this stage, however, this should be confirmed with in situ CBR testing which may allow higher CBR values to be adopted.

5.5 Surface Water Drainage

- 5.5.1 Published information suggests low permeability strata to be present across the site, it is, therefore, considered that soakaways are unlikely to be a suitable method of surface water drainage. This may however change based on intrusive site works if conducted.
- 5.5.2 It is recommended that any existing drainage connections which will aid in future site development design are identified at the earliest opportunity.

6.0 PRELIMINARY ENVIRONMENTAL ASSESSMENT

6.1 Potential Contamination Sources and Environmental Sensitivity

- 6.1.1 The desk study indicates that the eastern part of the site comprises broadly of undeveloped agricultural land from 1848 to present day. The western corner of the site does show some development of residential and commercial buildings.
- 6.1.2 The land immediately surrounding the site generally comprises further agricultural land, residential developments and school playing fields.
- 6.1.3 The potential on site sources of contamination are likely to be minimal based on historical site use. Although there is a potential for pesticide and insecticides to have been used on the site and limited made ground associated with the historical development in the west of the site.
- 6.1.4 There are several off site sources of contamination which may potentially affect the site. This may be in the form of contaminated ground water or ground gases.
- 6.1.5 The nearest surface water feature is reported to be approximately 2m of site in the form of a spring with two rivers within 260m from the site and the underlying bedrock is designated as a Secondary A Aquifer. Given the proximity to environmental receptors and the anticipated low permeability of the underlying soils, the site is considered to be located in a low sensitivity environmental setting, with the potential for contamination to be present on site deemed to be low.
- 6.1.6 Consideration of any on site contamination will need to be made in the context of the proposed development. At this stage, it is understood that the site is to be developed with residential properties comprising traditional two to three storey units with associated private gardens. As such, allowance should be made for the provision of adequate protection to end users of the development from any contamination which may potentially be present in the form of capping to garden areas.
- 6.1.7 Intrusive investigation and analysis of samples of material recovered from the site will be required in order to assess the potential risks to end users.

6.2 Ground Gas

- 6.2.1 Given the information obtained from the geological and historical plans, it is considered that there is a potential risk of hazardous ground gases affecting the proposed development from proximal landfill areas.
- 6.2.2 The Envirocheck Report states that the site requires no radon protective measures within the proposed development.
- 6.2.3 The requirement for gas monitoring will require review following any intrusive investigations.

7.0 FURTHER WORKS

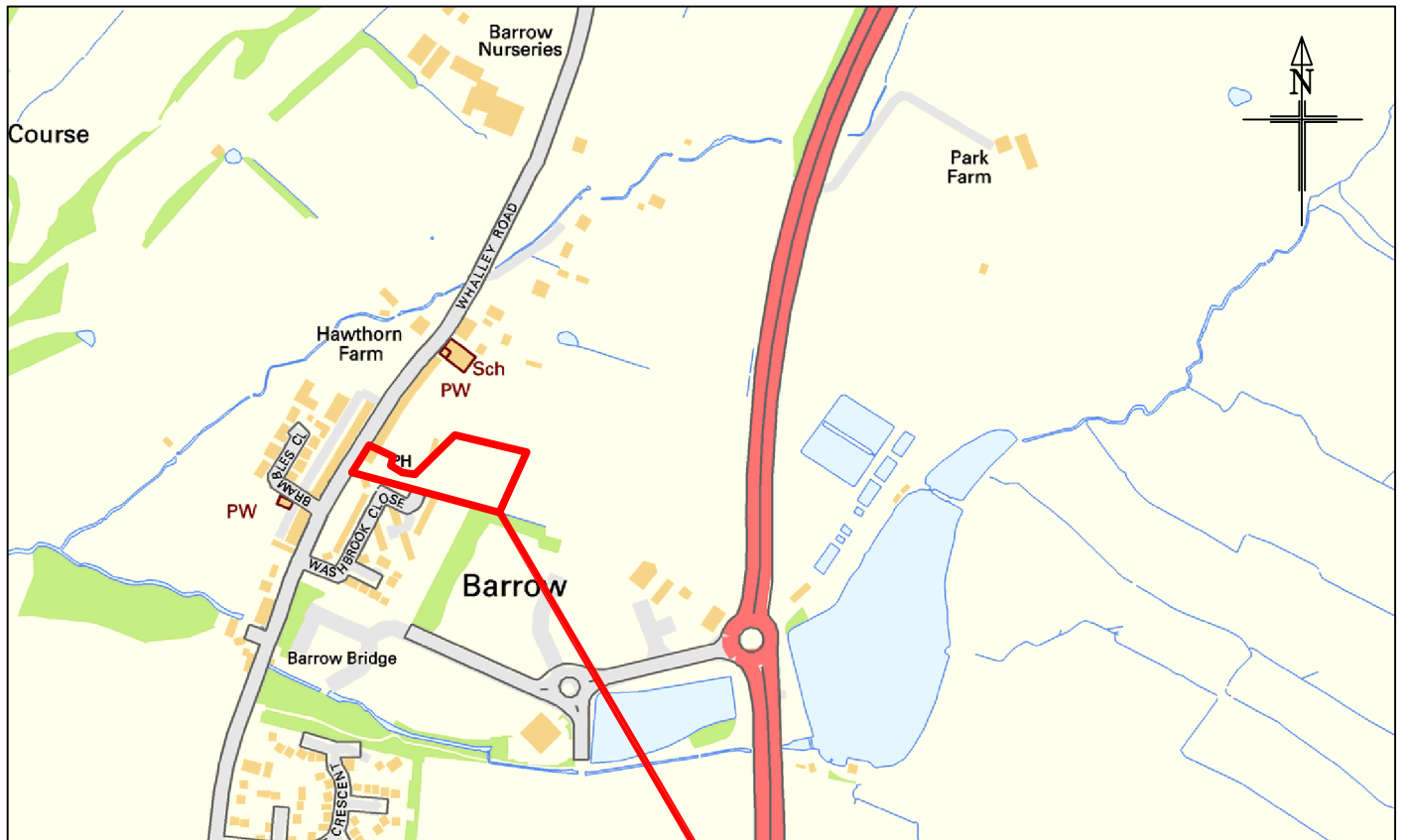
7.1 Based on the information available to date, it is recommended that an intrusive ground investigation be carried out to address the following issues which may affect the proposed development:

- On site ground conditions;
- Assessment of the chemical characteristics of the strata underlying the site;
- Assessment of the nature and strength of underlying natural strata (for foundation design);

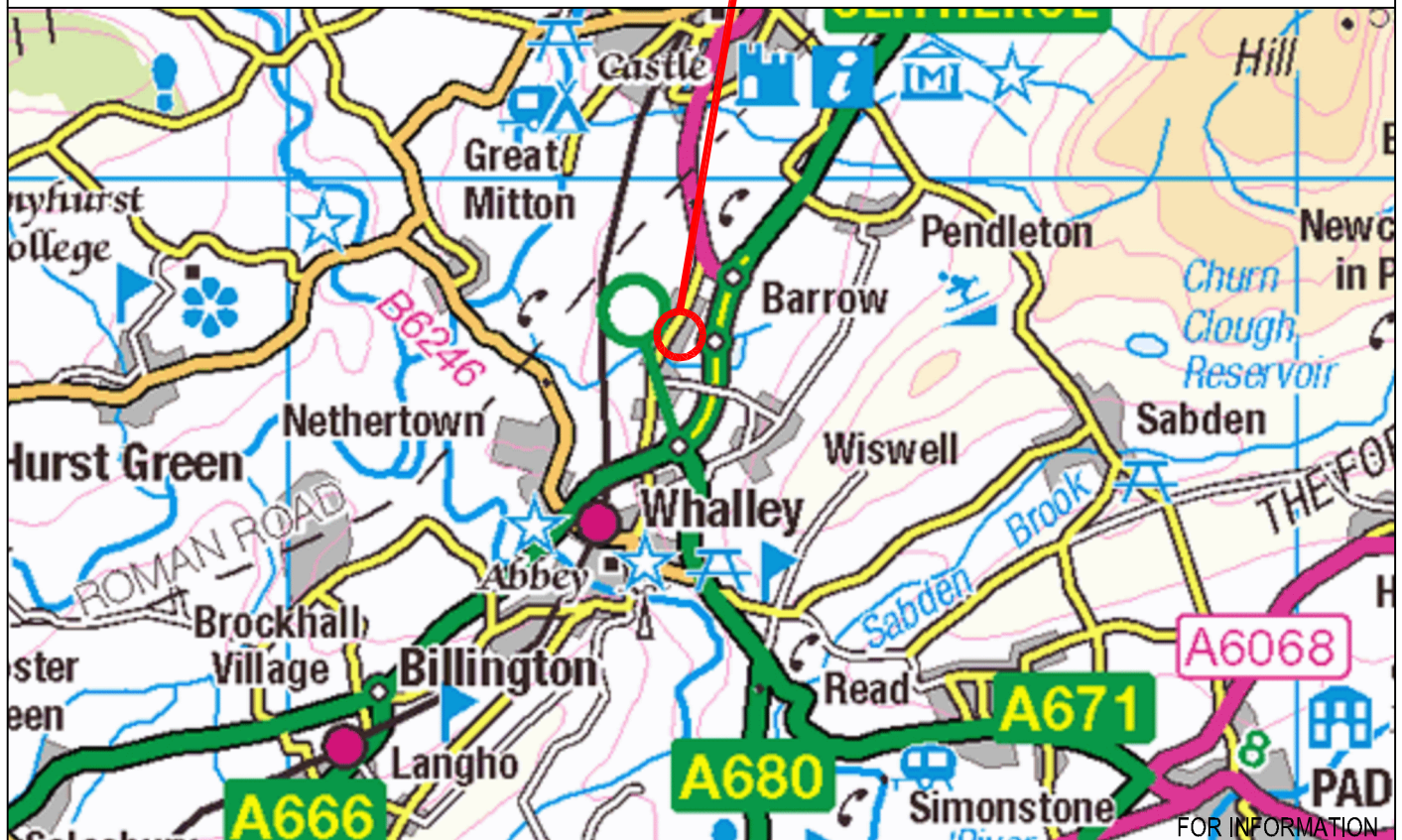
7.2 The following further works are recommended prior to the development of the site;

- Undertake intrusive ground investigation utilising a window sampling rig to inspect and sample near surface (<4m) soils and obtain limited geotechnical design parameters for the natural soils;
- Carry out in situ Standard Penetration Tests (SPTs);
- Undertake soakaway testing in accordance with BRE365 (if granular material is encountered);
- Installations and subsequent monitoring of gas wells to allow a gas risk assessment to be undertaken;
- Laboratory analysis (including asbestos testing) of natural and made ground materials in order to determine their chemical characteristics;
- Production of a Phase II Geo-Environmental Assessment Report presenting findings, assessments and conclusions;
- Preparation of Remediation Strategy detailing the works required in order to protect end users and the environment (if required);
- Tree survey; and
- Full Foundation schedule.

DRAWINGS



Site Location: Land off Whalley Road, Barrow, BB7 9BA
Grid Reference: 373870, 438430



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Project
Whalley Road
Barrow

Sheet
Site Location Plan

Rev	Description	Date	Drawn	Designed	Approved	Revision Date
R0	First Issue	05-01-16	NB	NB		05-01-2016
Project No.			Scale			Drawing No.
J-D1704.00			NTS			DO J-D1704.00

Sheet No.	Revision
401	R2



- Notes:
1. DO NOT SCALE.
 2. This drawing is should be read in conjunction with J-D1704.00_R2_NB
 3. Should there be any conflict between the details indicated on this drawing and those indicated on other drawings, the Engineer should be informed PRIOR to construction on site.
 4. Until Technical Approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and Not for Construction. Should the Contractor commence site work prior to Approval being given, it is entirely at his own risk.
 5. All dimensions are in metres U.N.O.

Key:

— Mature hedge and trees

For Information

1:1
@ A3
0 10 20 30 40 mm

Revision	Amendment	Approved	Revision Date
R0	First Issue		05-01-16

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1-2 Aire House
Sidings Court
Doncaster DN4 6NL

Designed NB	Approved	Approved Date
Drawn NB	Scales NTS	

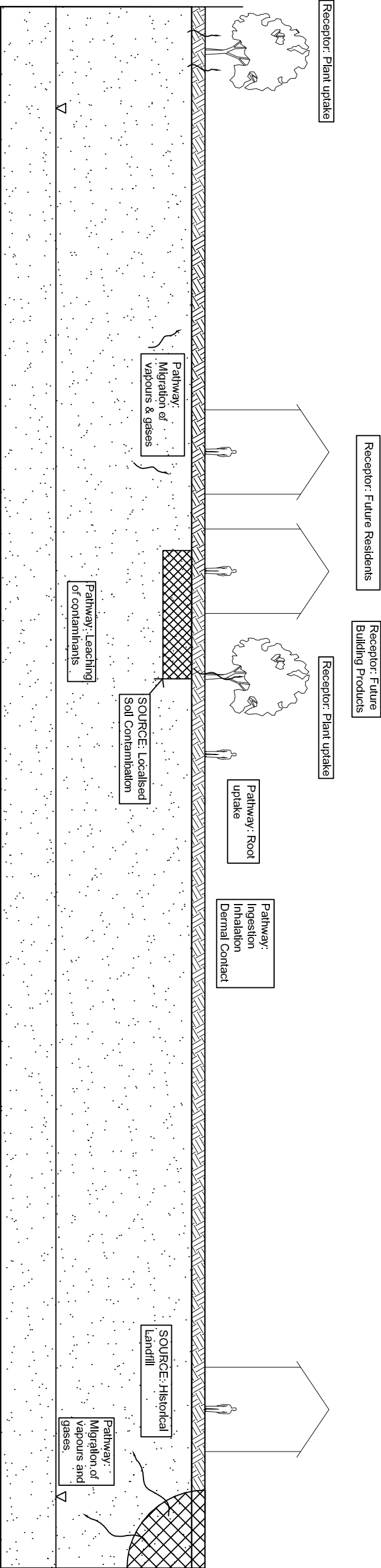
Project Land off Whaley Road Barrow	Sheet Site Features Plan	
Project No. J-D1704.00	Sheet No. 402	Revision R2

SITE

OFFSITE

Proposed Residential Development

Existing Residential Properties



0 10 mm 50 100 150 mm

KEY:

Existing Topsoil

Made Ground

1:1
@ A3
0 10 20 30 40 mm

Revision	Approved	Approved	Revision Date
R0	Final Issue		05-01-16

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Drawn	Designed	Approved	Revision Date
NE	PT		05-01-16
Project No.	Scale		
J-D1704.00	NTS		

Project:
Land off Whalley Road
Barrow
Preliminary Conceptual Site Model

Sheet No.
403

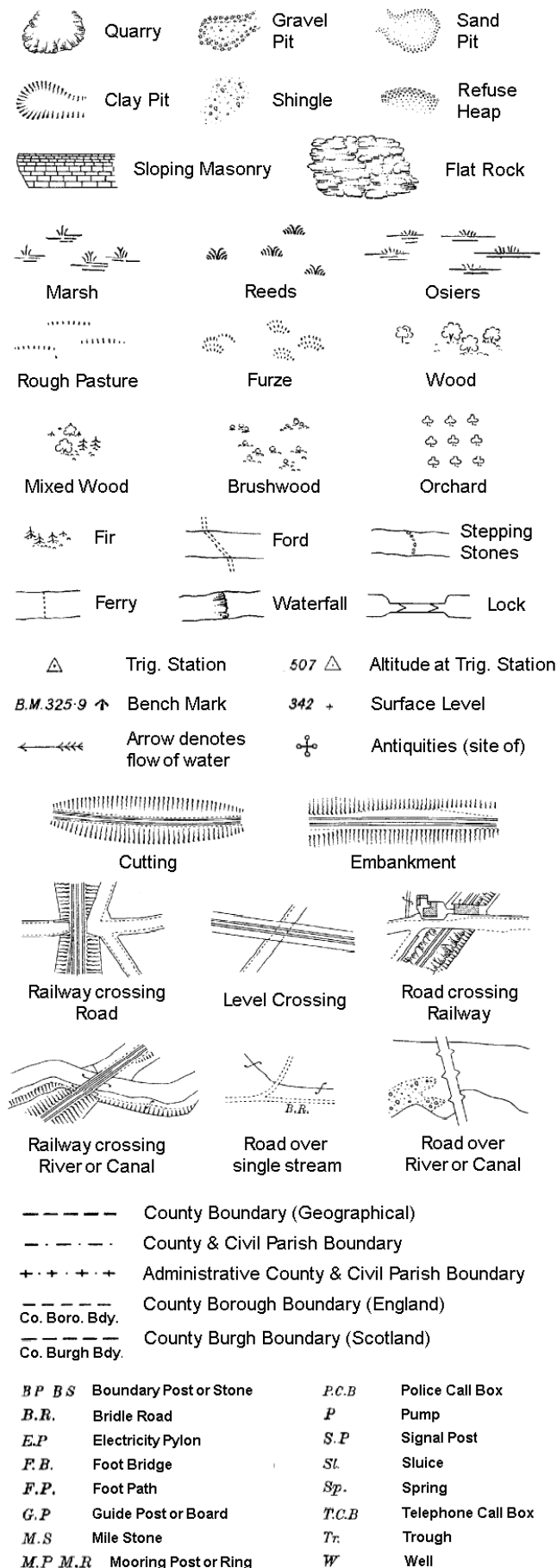
Revision
R2

APPENDIX A

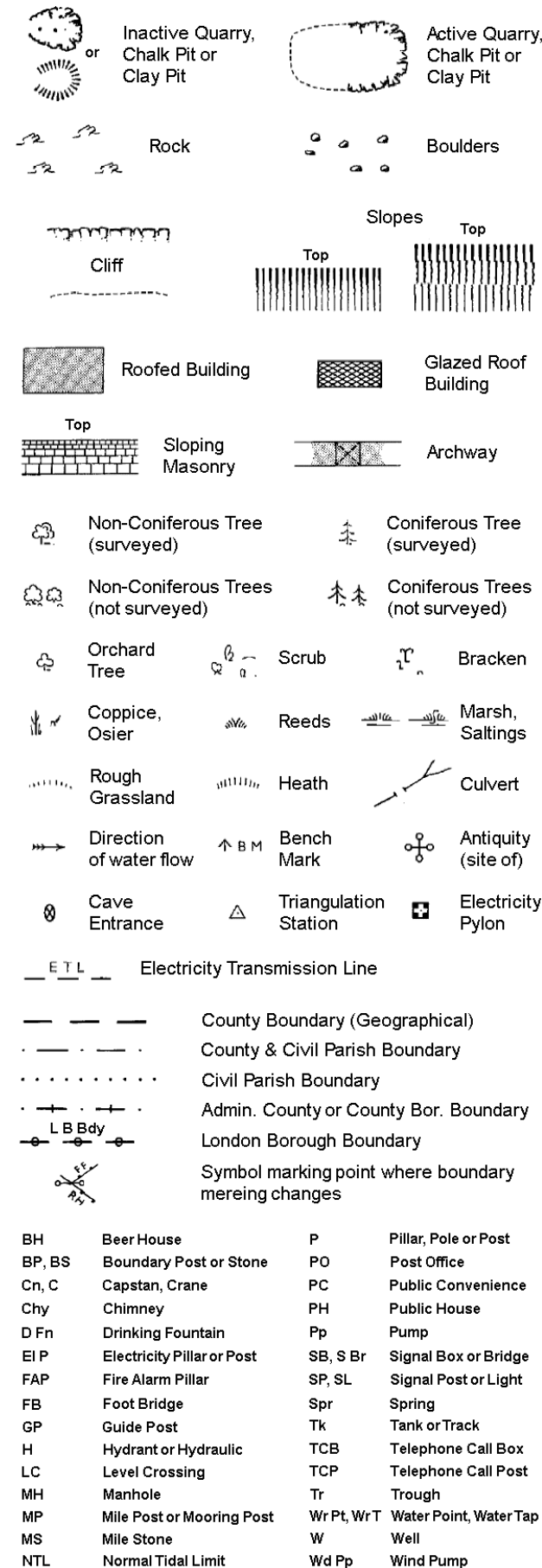
Historical Plans

Historical Mapping Legends

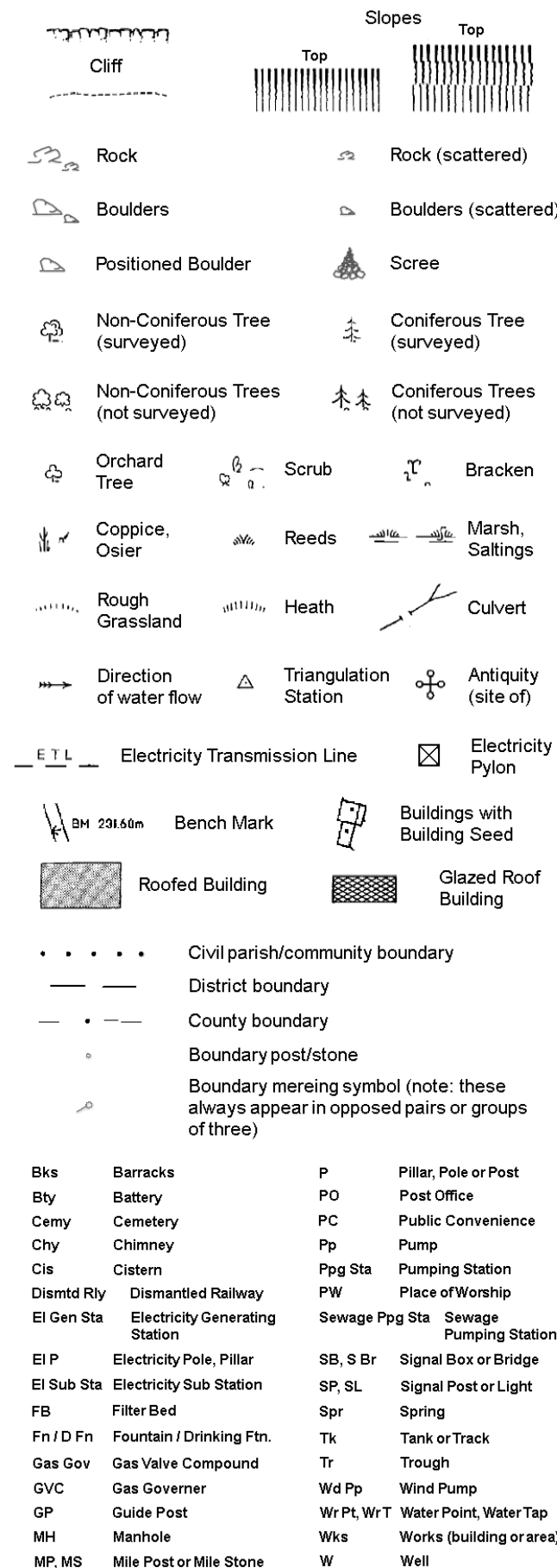
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



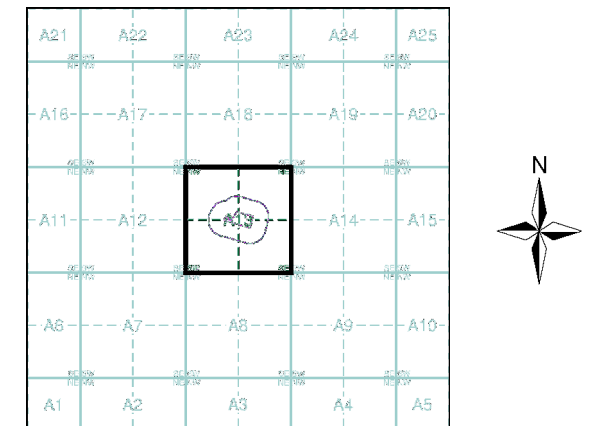
Large-Scale National Grid Data 1:2,500 and 1:1,250



Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Lancashire And Furness	1:2,500	1893	2
Yorkshire	1:2,500	1894	3
Yorkshire	1:2,500	1908	4
Lancashire And Furness	1:2,500	1912	5
Lancashire And Furness	1:2,500	1932	6
Ordnance Survey Plan	1:2,500	1967	7
Ordnance Survey Plan	1:2,500	1973	8
Additional SIMs	1:2,500	1983	9
Large-Scale National Grid Data	1:2,500	1992	10
Large-Scale National Grid Data	1:2,500	1995	11
Large-Scale National Grid Data	1:2,500	1995	12
Large-Scale National Grid Data	1:2,500	1996	13

Historical Map - Segment A13



Order Details

Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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Lancashire And Furness

Published 1893

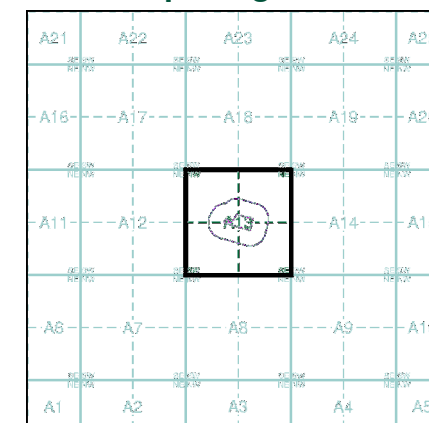
Source map scale - 1:2,500

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

Map Name(s) and Date(s)

055_02
1893
1:2,500
055_06
1893
1:2,500

Historical Map - Segment A13



Order Details

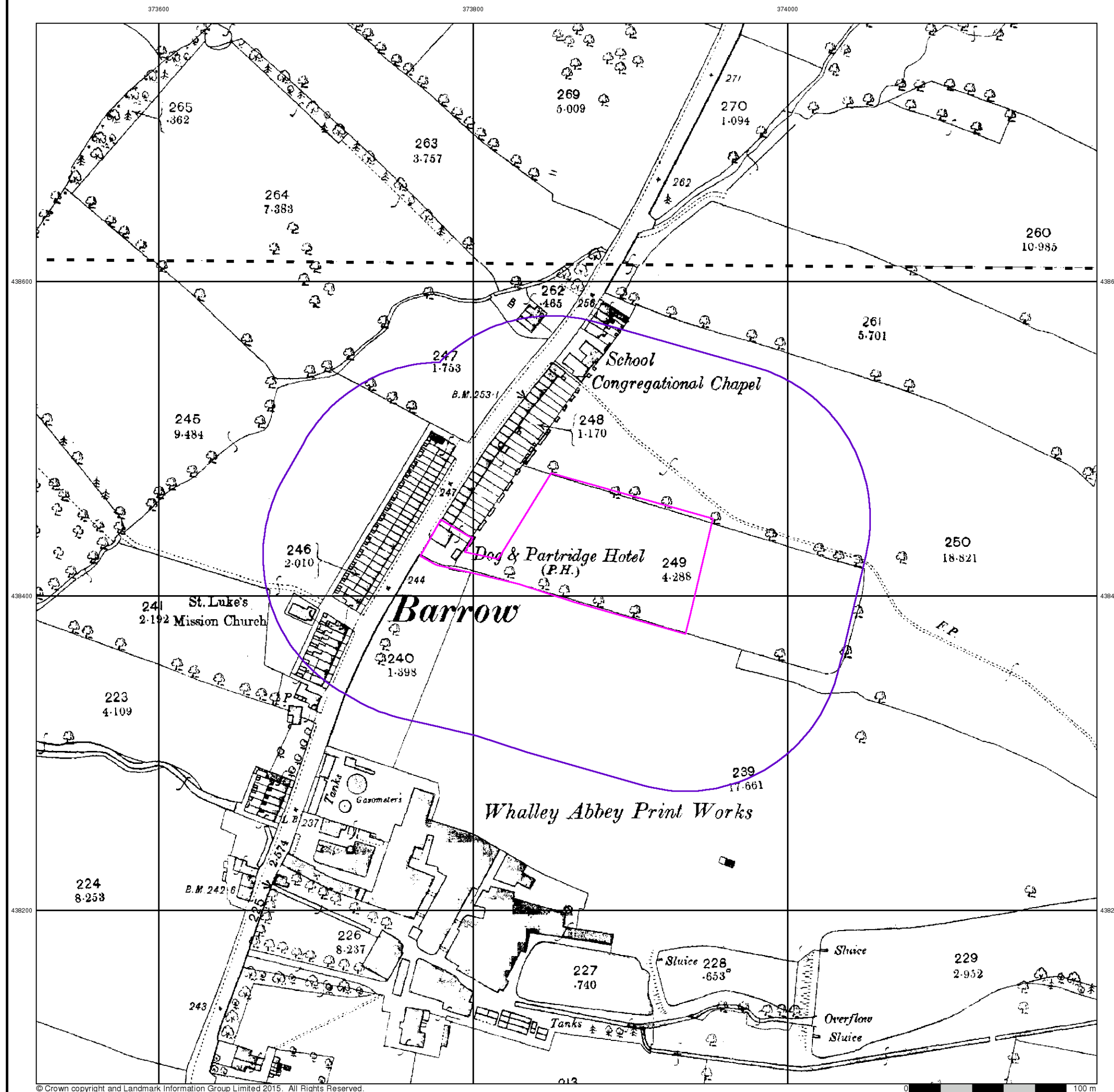
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

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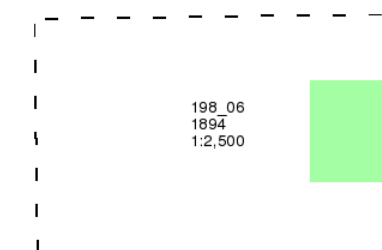
Yorkshire

Published 1894

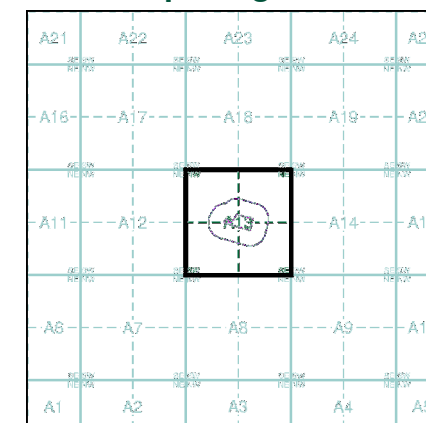
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

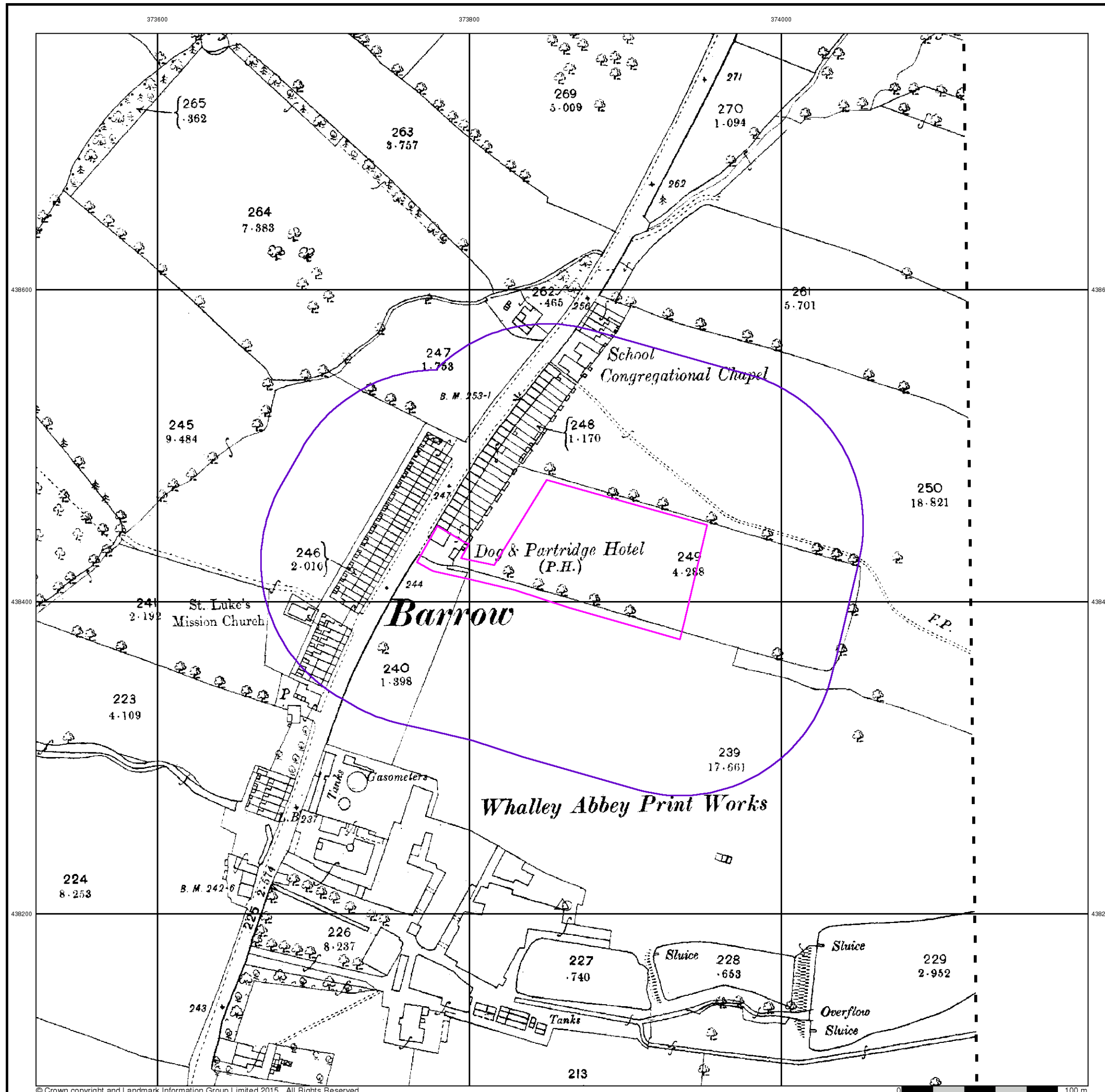
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

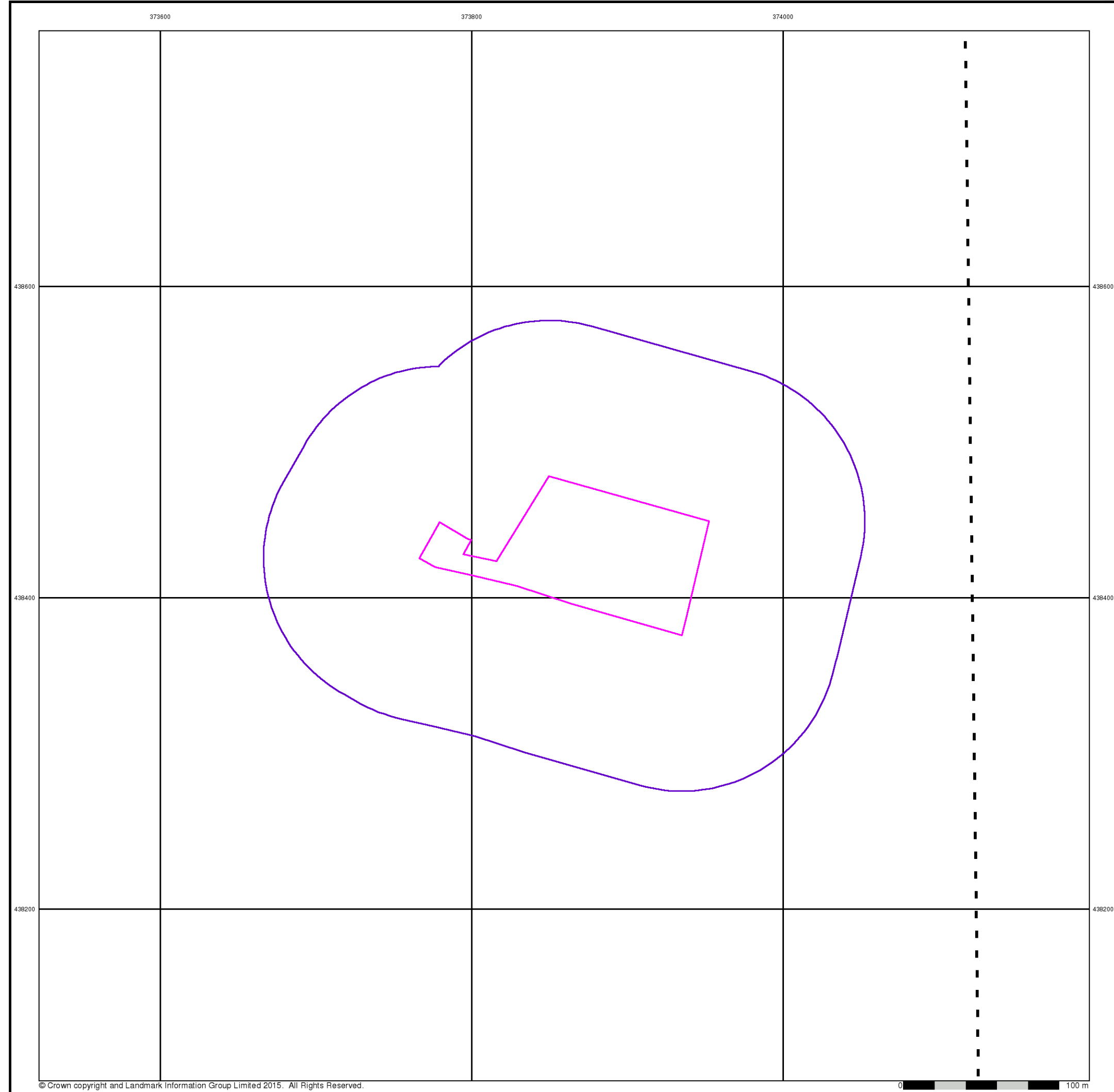
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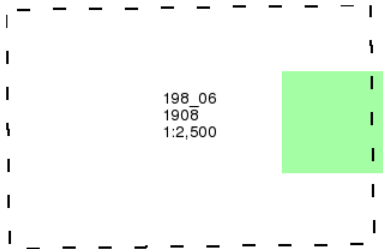
Yorkshire

Published 1908

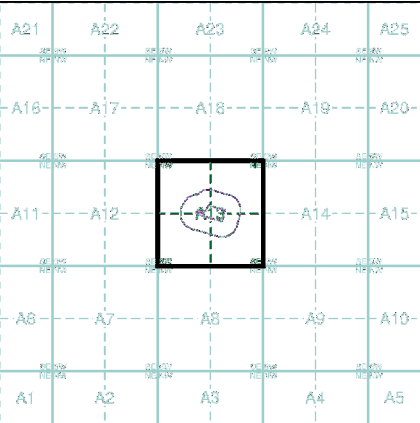
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

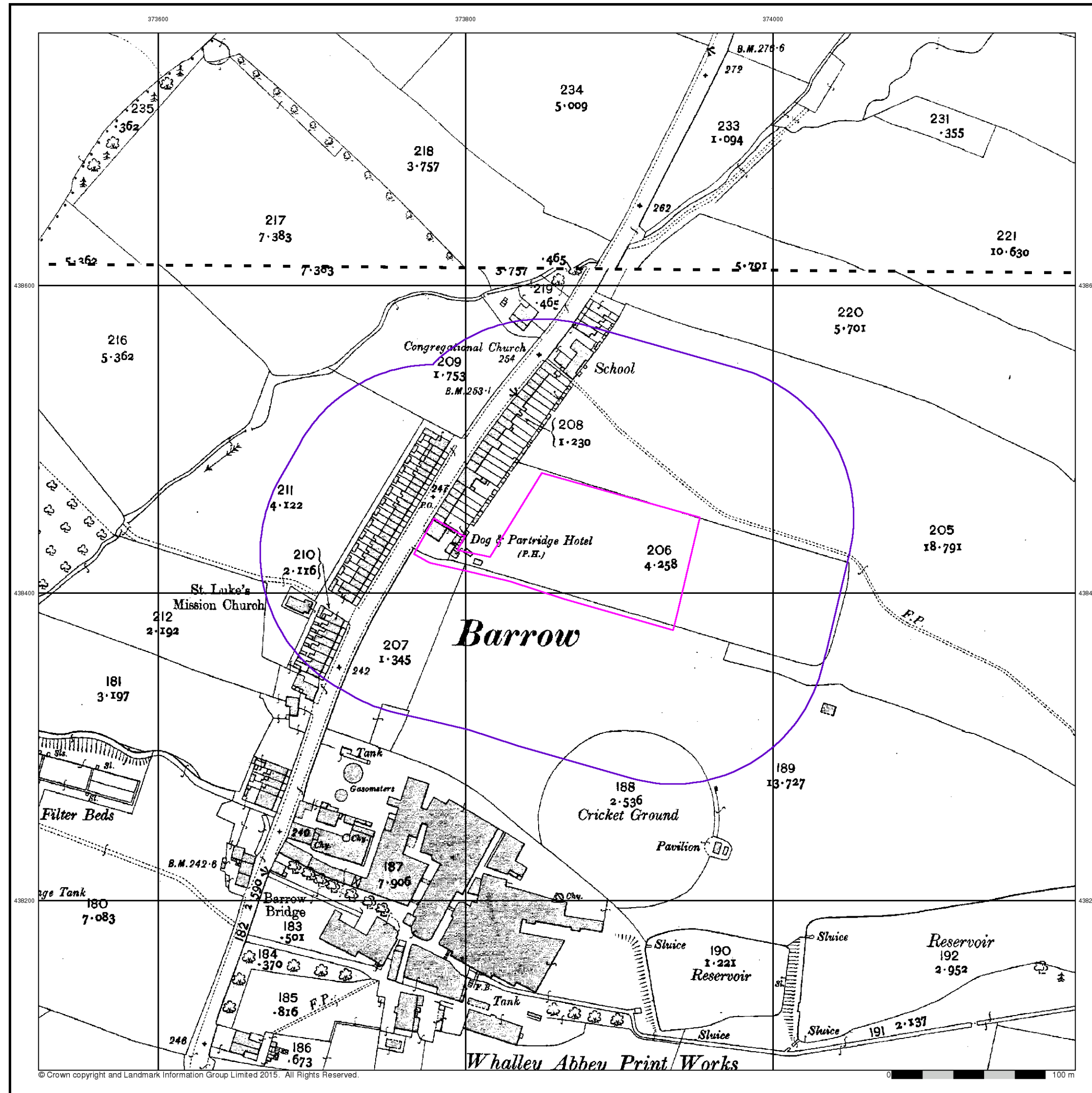
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

Site Details

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Lancashire And Furness

Published 1912

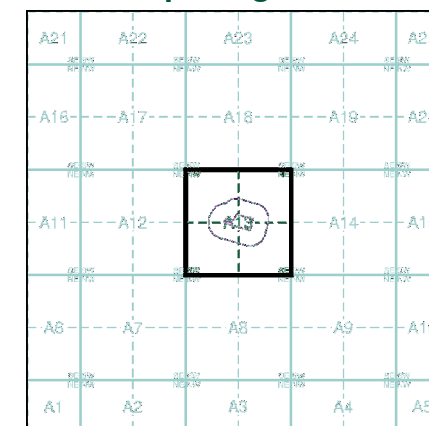
Source map scale - 1:2,500

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)

055_02
1912
1:2,500
055_06
1912
1:2,500

Historical Map - Segment A13



Order Details

Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

Site Details

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Lancashire And Furness

Published 1932

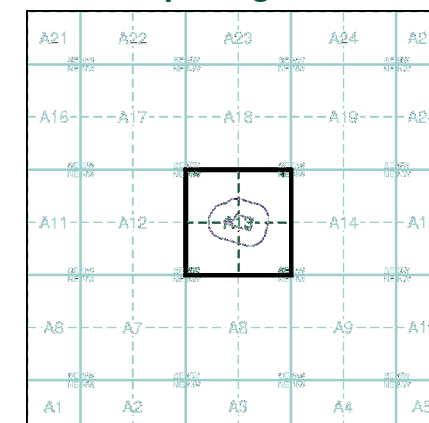
Source map scale - 1:2,500

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)

055_02
1932
1:2,500
055_06
1932
1:2,500

Historical Map - Segment A13



Order Details

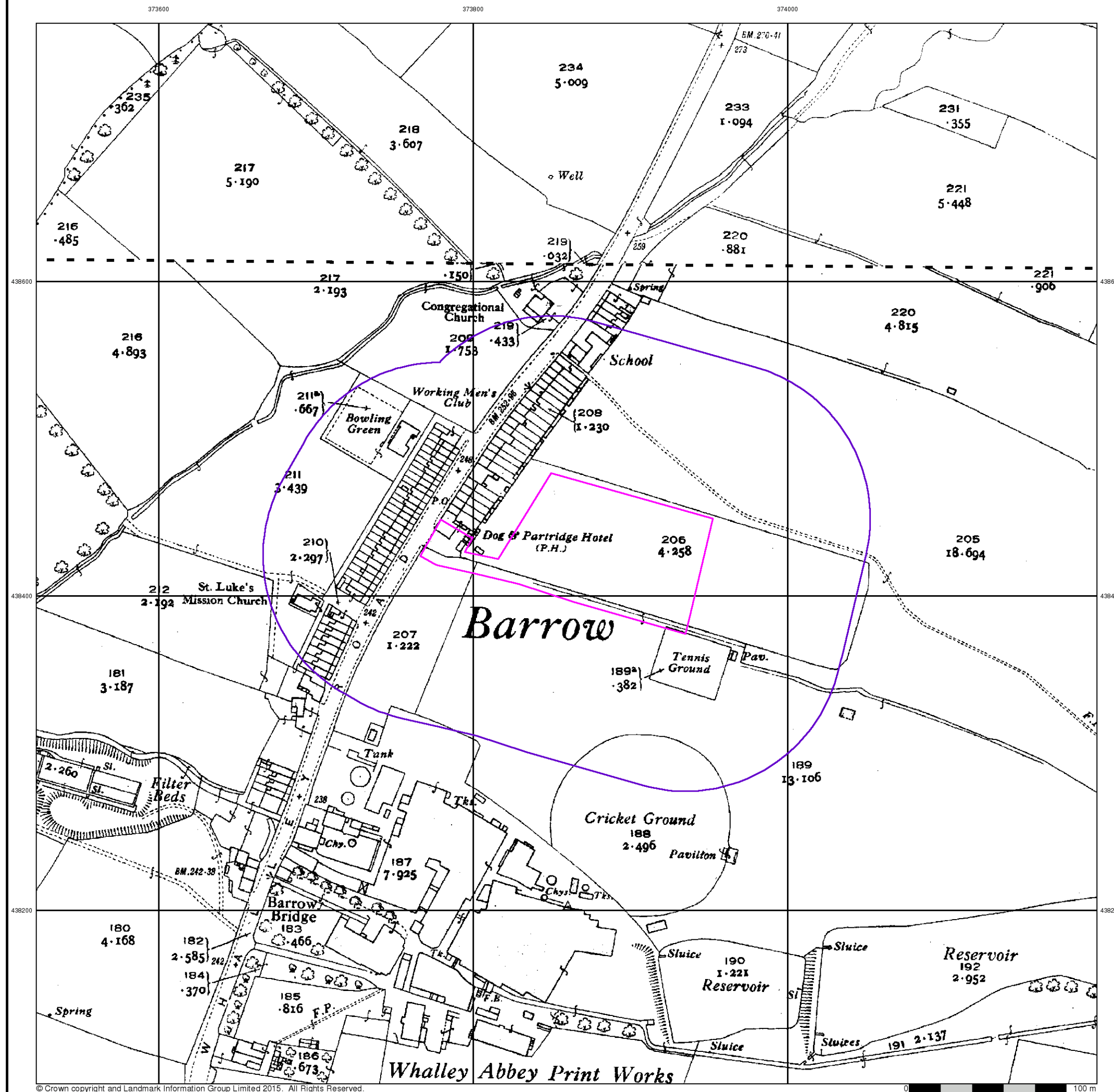
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

Site Details

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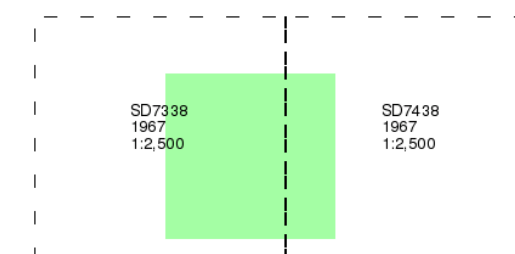
Ordnance Survey Plan

Published 1967

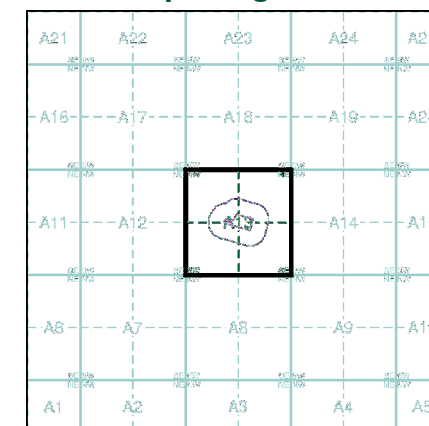
Source map scale - 1:2,500

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

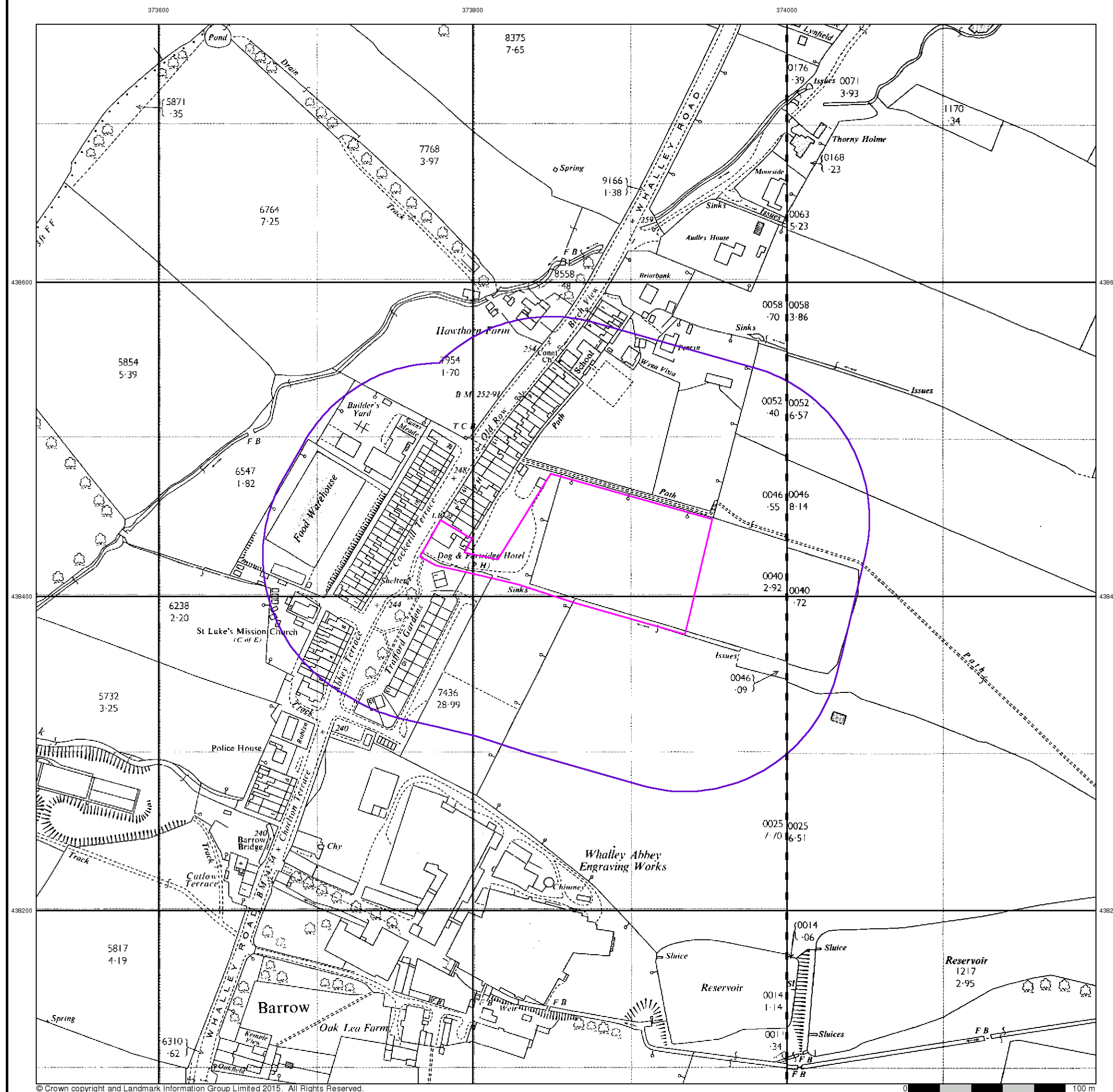
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Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

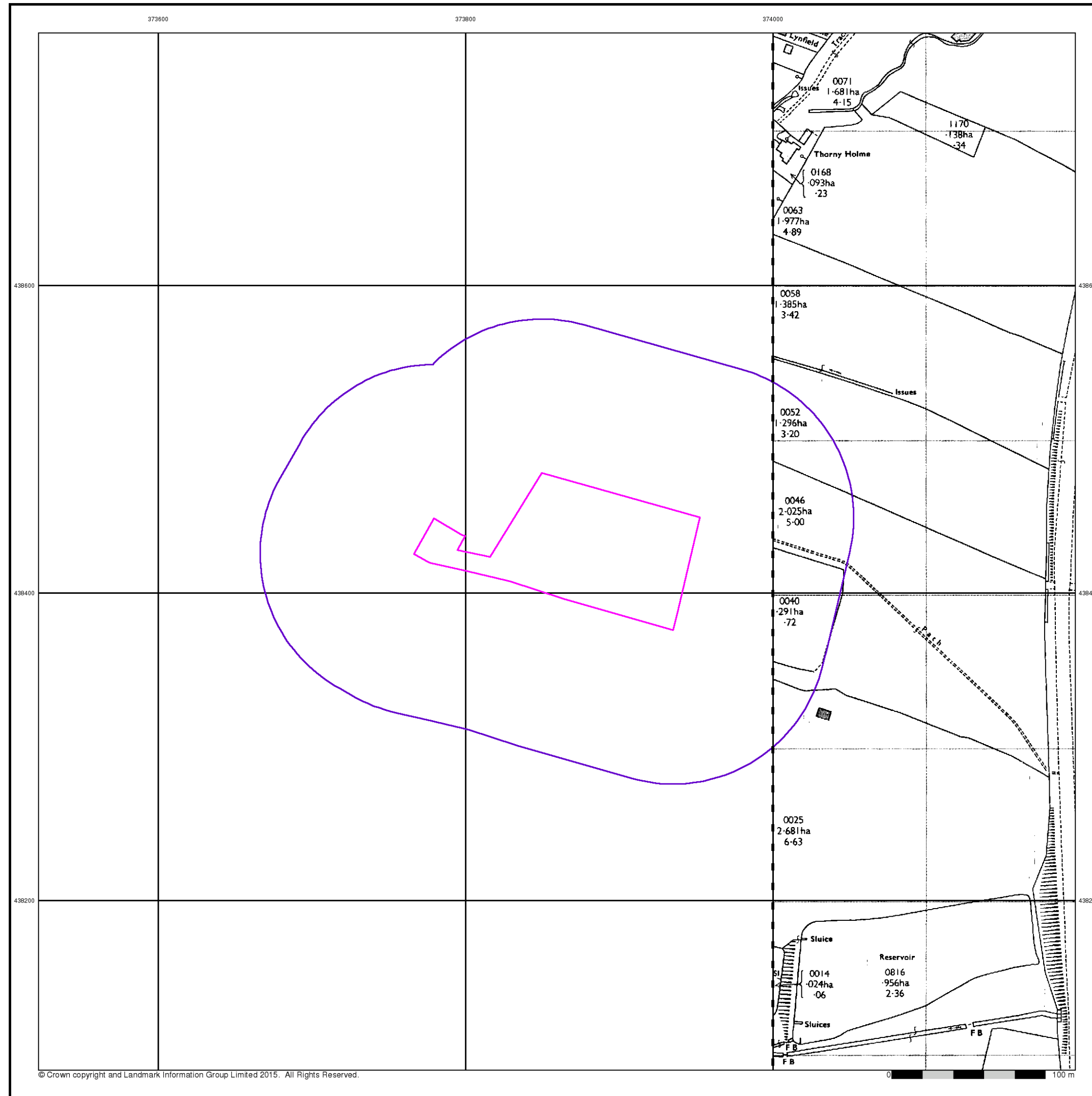
Site Details

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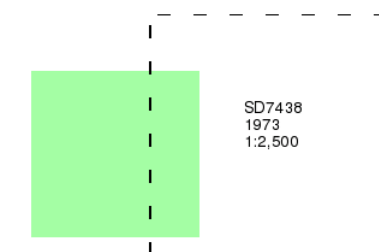
Ordnance Survey Plan

Published 1973

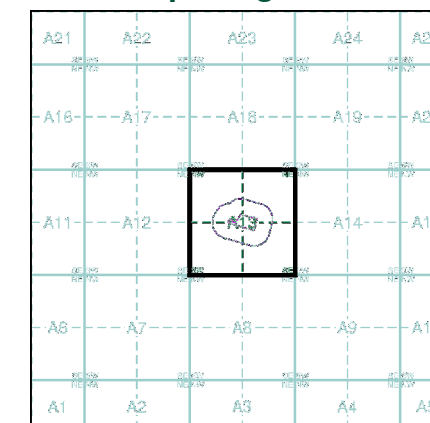
Source map scale - 1:2,500

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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Slice: A
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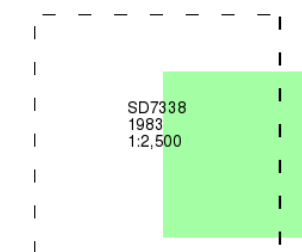
Additional SIMs

Published 1983

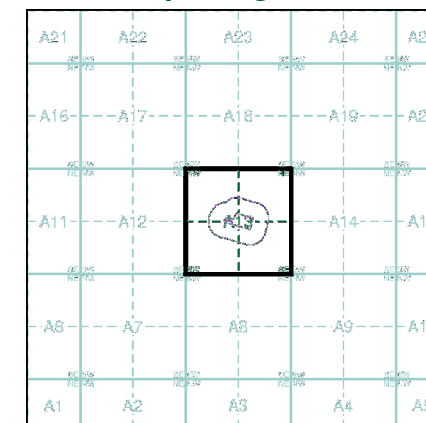
Source map scale - 1:2,500

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

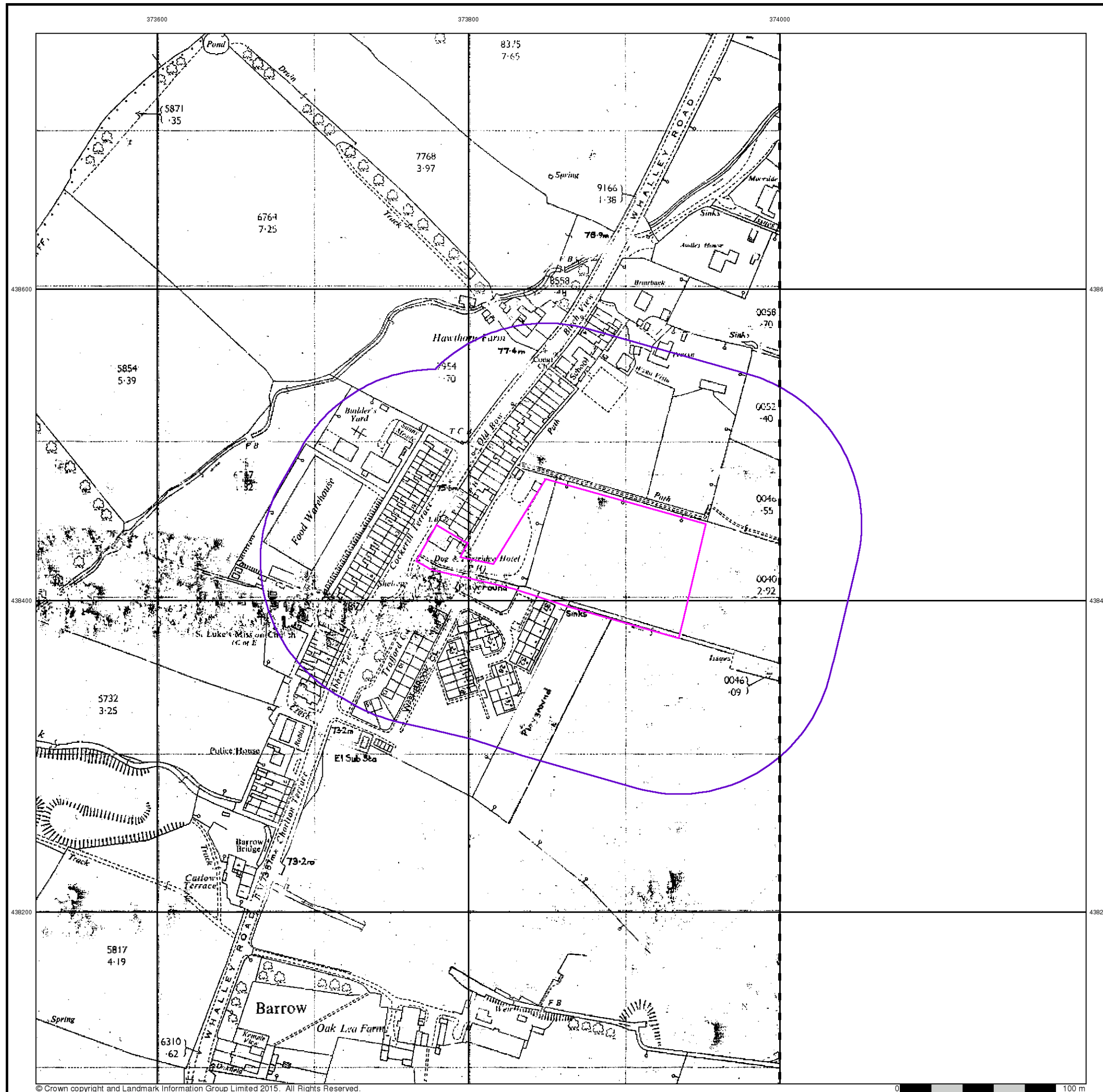
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
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Site Area (Ha): 0.98
Search Buffer (m): 100

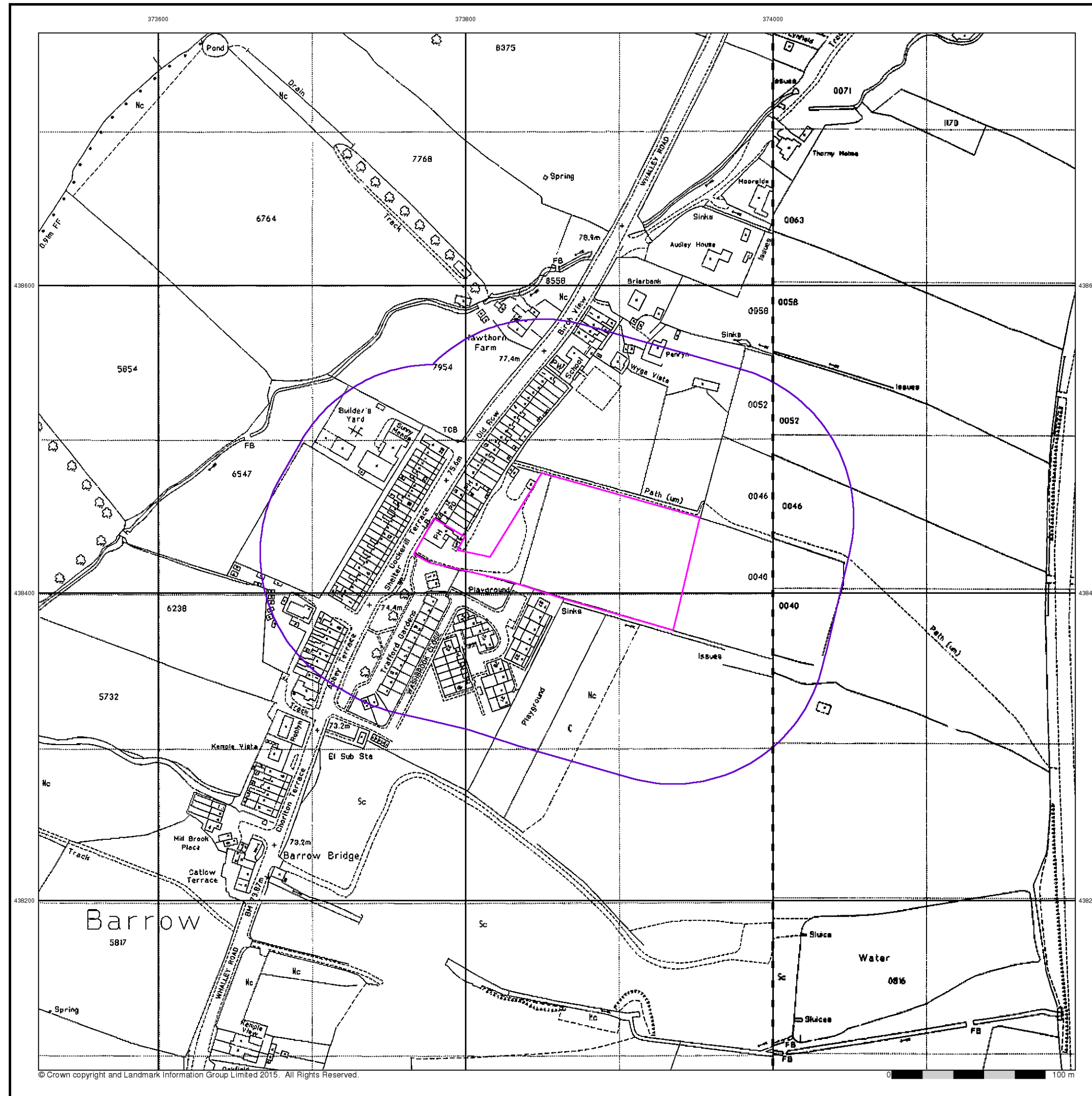
Site Details

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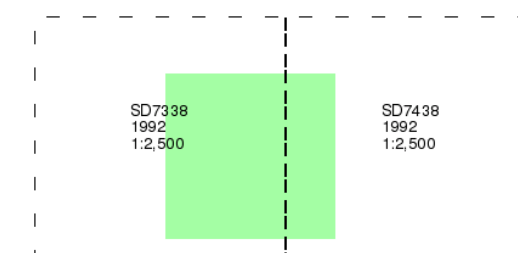
Large-Scale National Grid Data

Published 1992

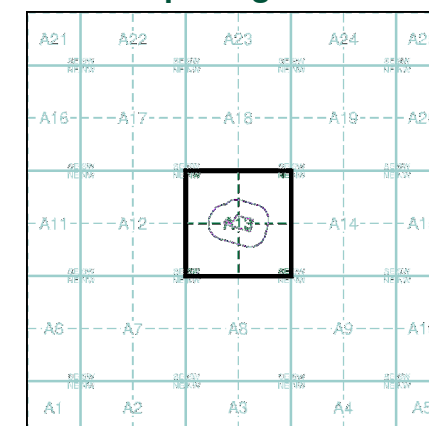
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

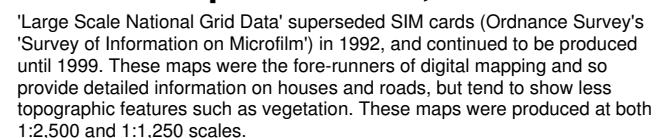
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

Site Details

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SD7338
1995
12,500

The diagram shows a 5x5 grid of cells. The columns are labeled A1, A2, A3, A4, and A5 from left to right. The rows are labeled 1, 2, 3, 4, and 5 from bottom to top. The cell at the intersection of column A3 and row 3 is highlighted with a thick black border. Inside this highlighted cell is a smaller, irregularly shaped cell labeled A3,3. The grid is composed of dashed lines.

Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 100

Co-operative Insurance Society Ltd, Ribble Valley Enterprise
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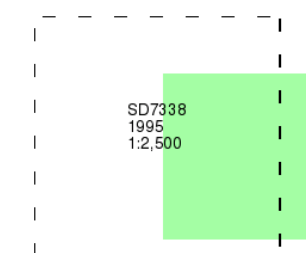
Large-Scale National Grid Data

Published 1995

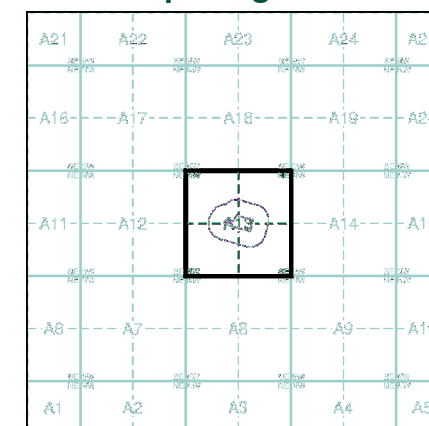
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

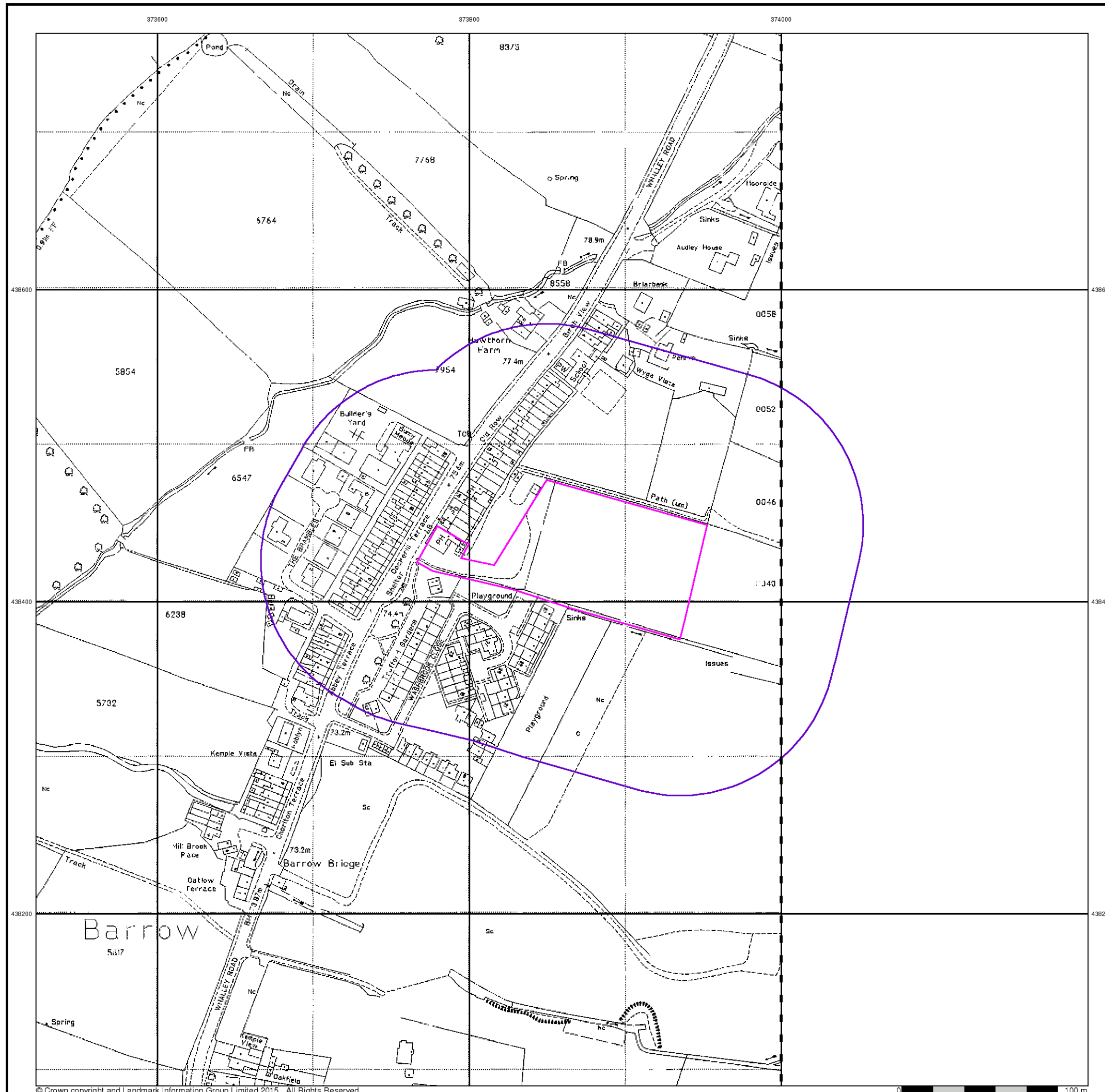
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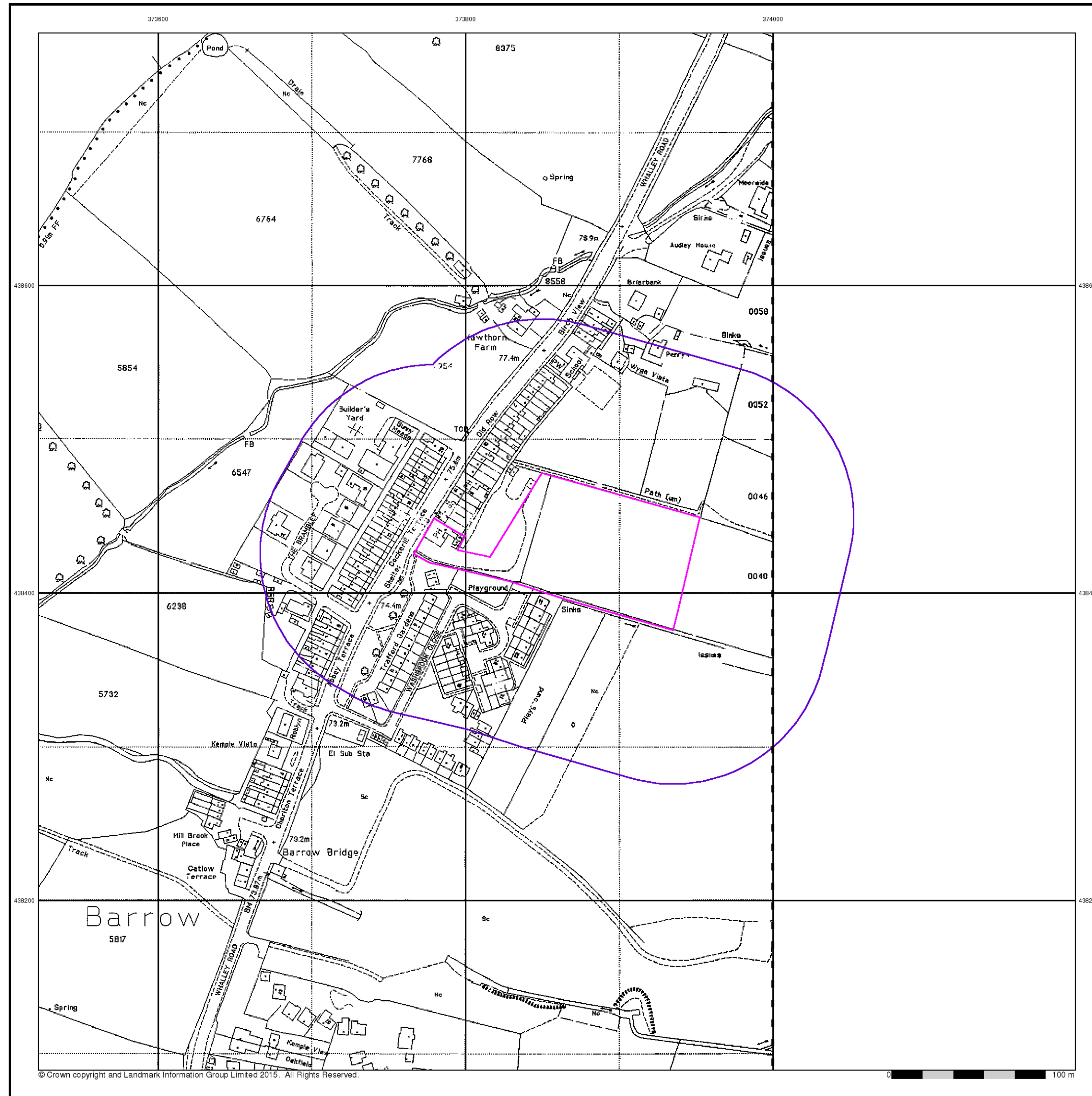
Site Details

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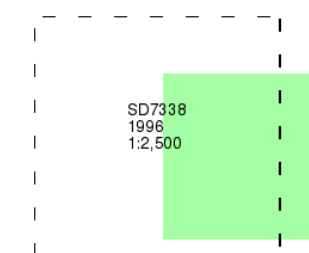
Large-Scale National Grid Data

Published 1996

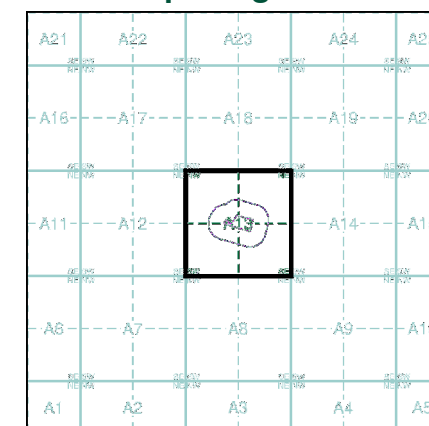
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

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National Grid Reference: 373870, 438430
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Site Area (Ha): 0.98
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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

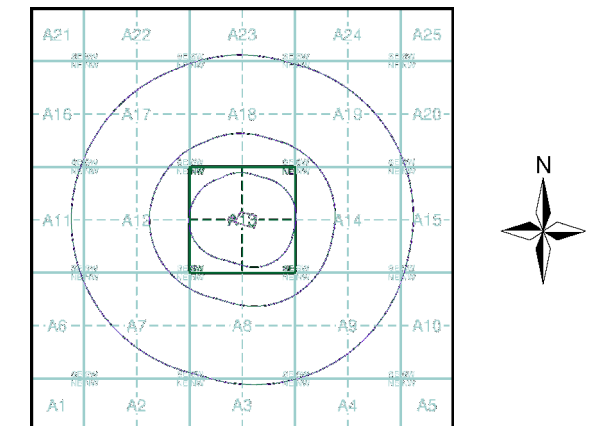
	Gravel Pit		Refuse tip or slag heap
	Rock		Rock (scattered)
	Boulders		Boulders (scattered)
	Shingle		Mud
	Sand		Sand Pit
	Slopes		Top of cliff
	General detail		Underground detail
	Overhead detail		Narrow gauge railway
	Multi-track railway		Single track railway
	County boundary (England only)		Civil, 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
Lancashire And Furness	1:10,560	1848	2
Yorkshire	1:10,560	1848	3
Lancashire And Furness	1:10,560	1895	4
Yorkshire	1:10,560	1896	5
Yorkshire	1:10,560	1911	6
Lancashire And Furness	1:10,560	1914 - 1915	7
Lancashire And Furness	1:10,560	1932	8
Ordnance Survey Plan	1:10,000	1955 - 1956	9
Ordnance Survey Plan	1:10,000	1970 - 1973	10
Ordnance Survey Plan	1:10,000	1975	11
10K Raster Mapping	1:10,000	2006	12
VectorMap Local	1:10,000	2015	13

Historical Map - Slice A



Order Details

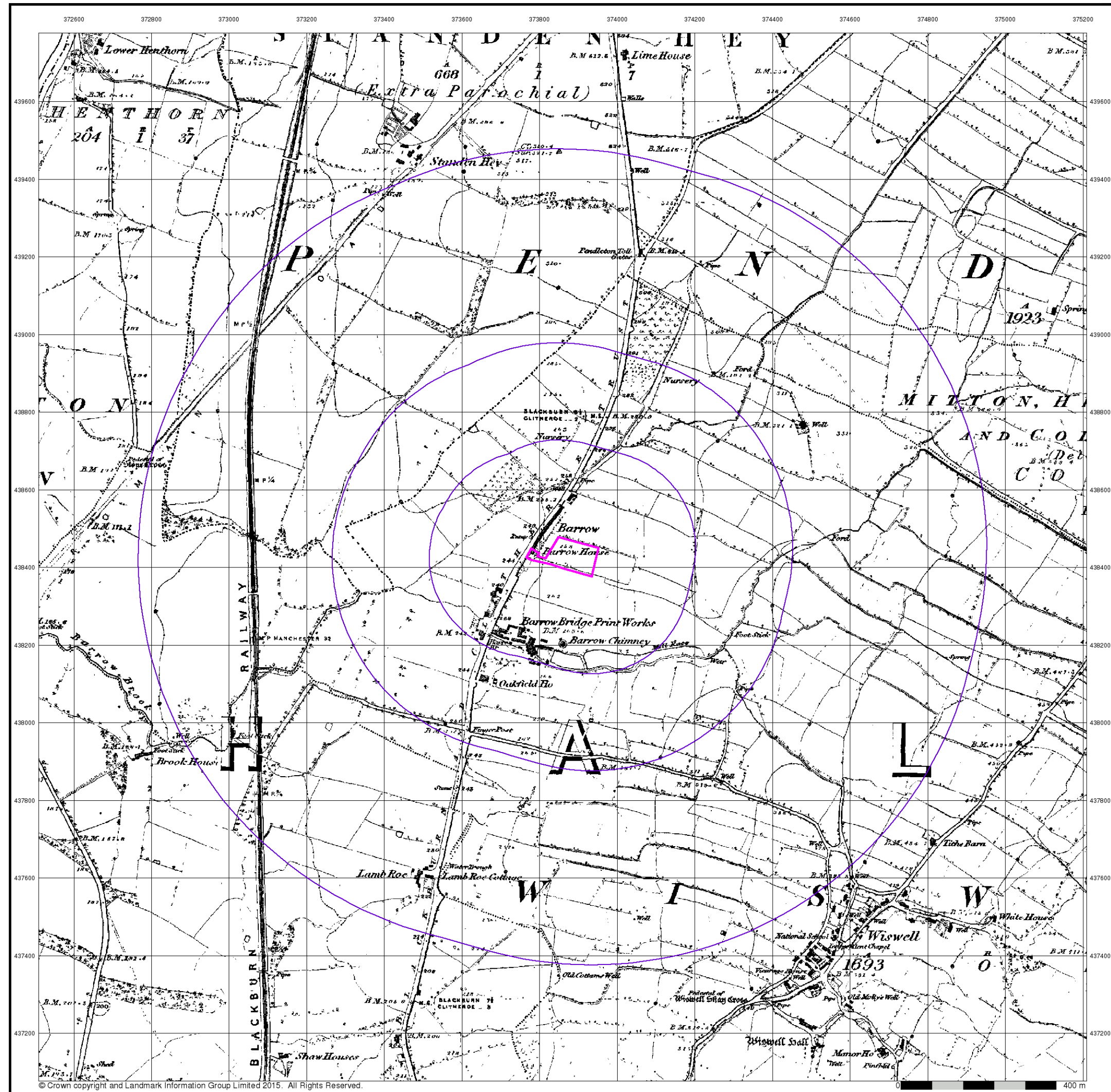
Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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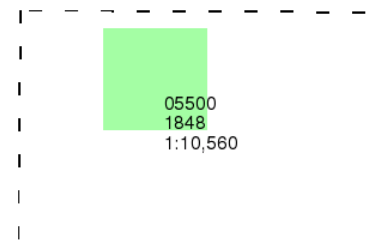
Lancashire And Furness

Published 1848

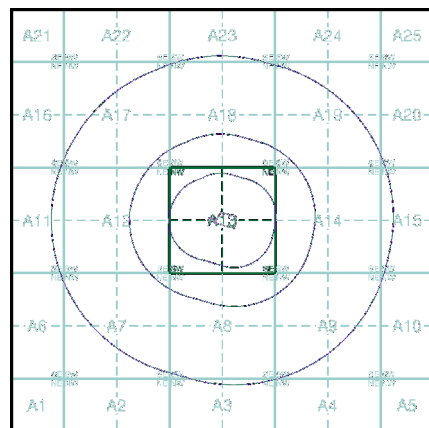
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. 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: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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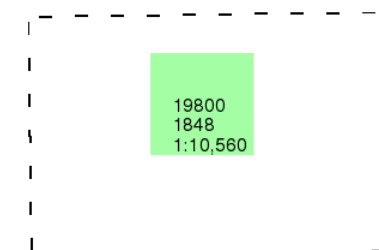
Yorkshire

Published 1848

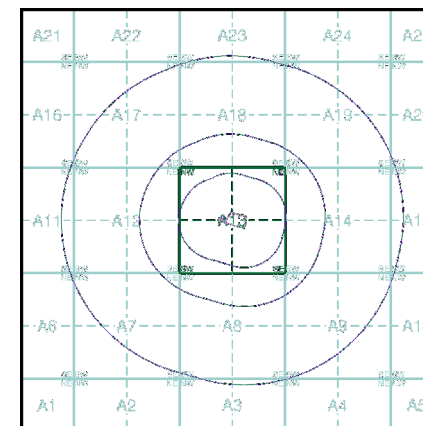
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

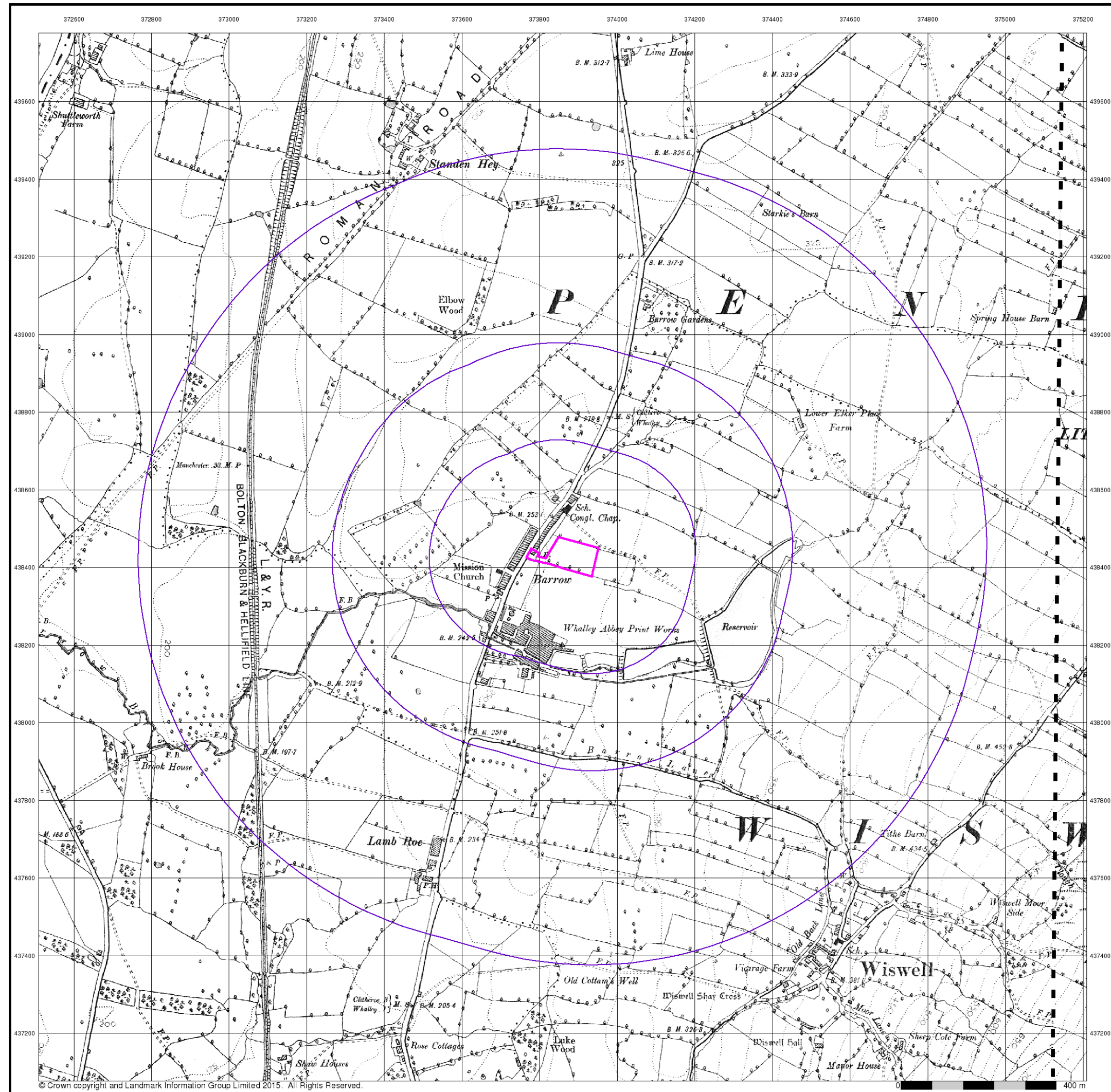
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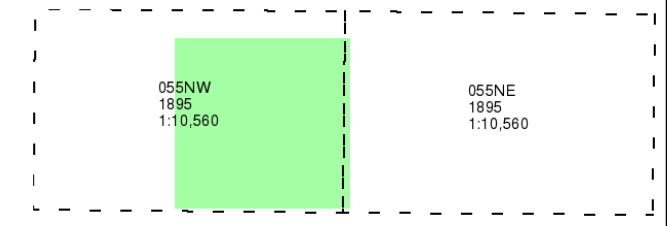
Lancashire And Furness

Published 1895

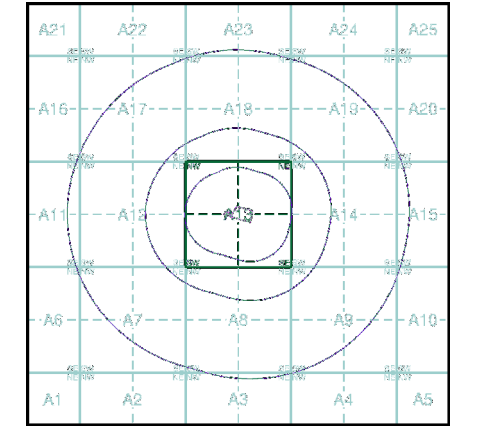
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Historical Map - Slice A



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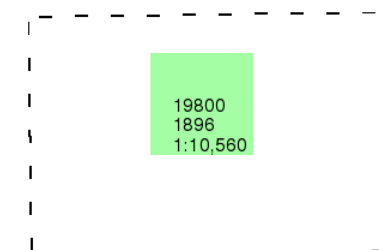
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Published 1896

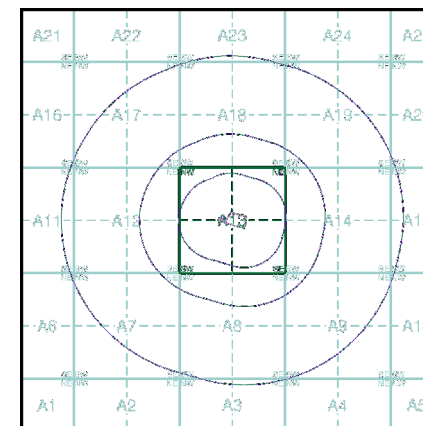
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

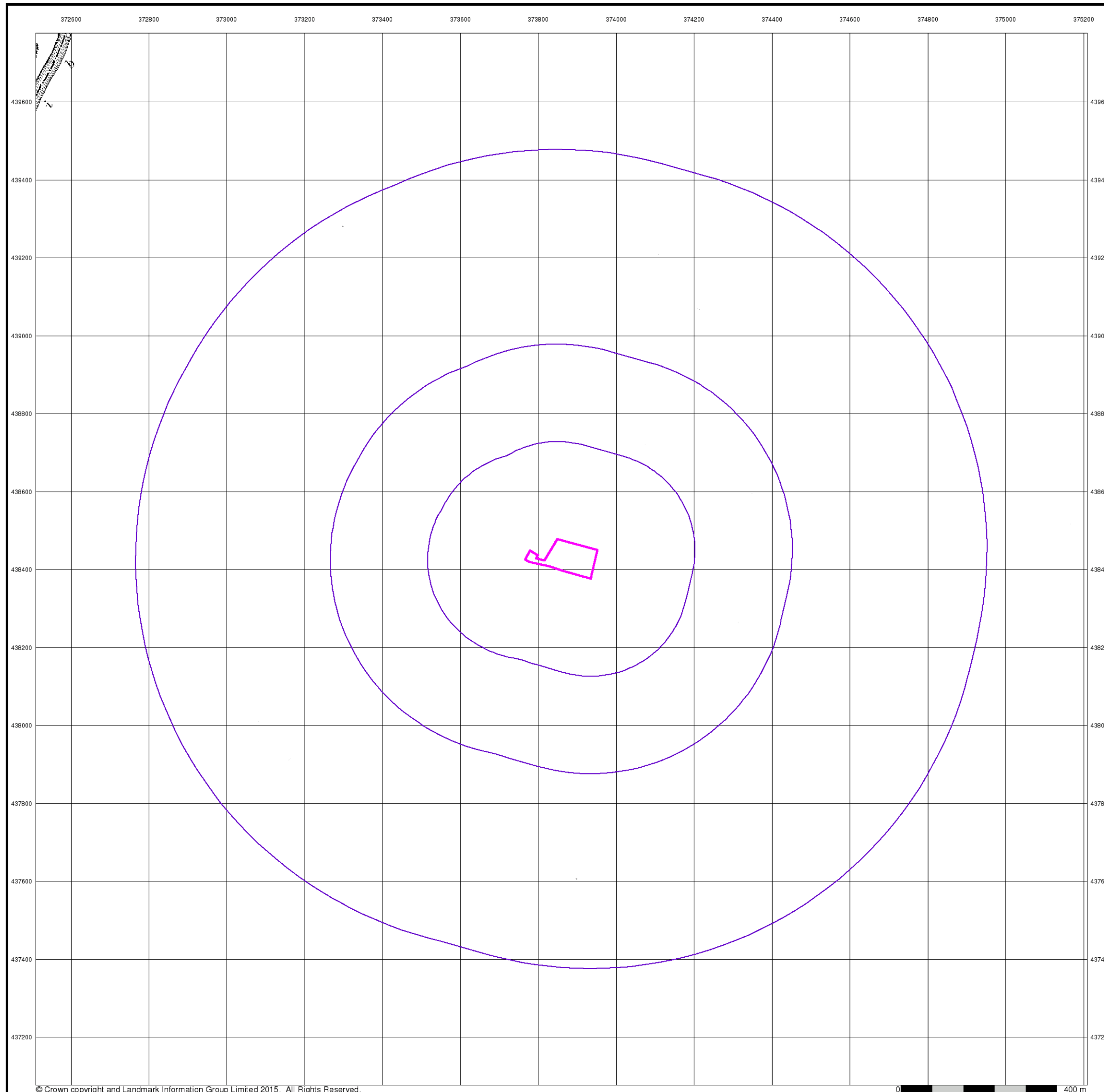
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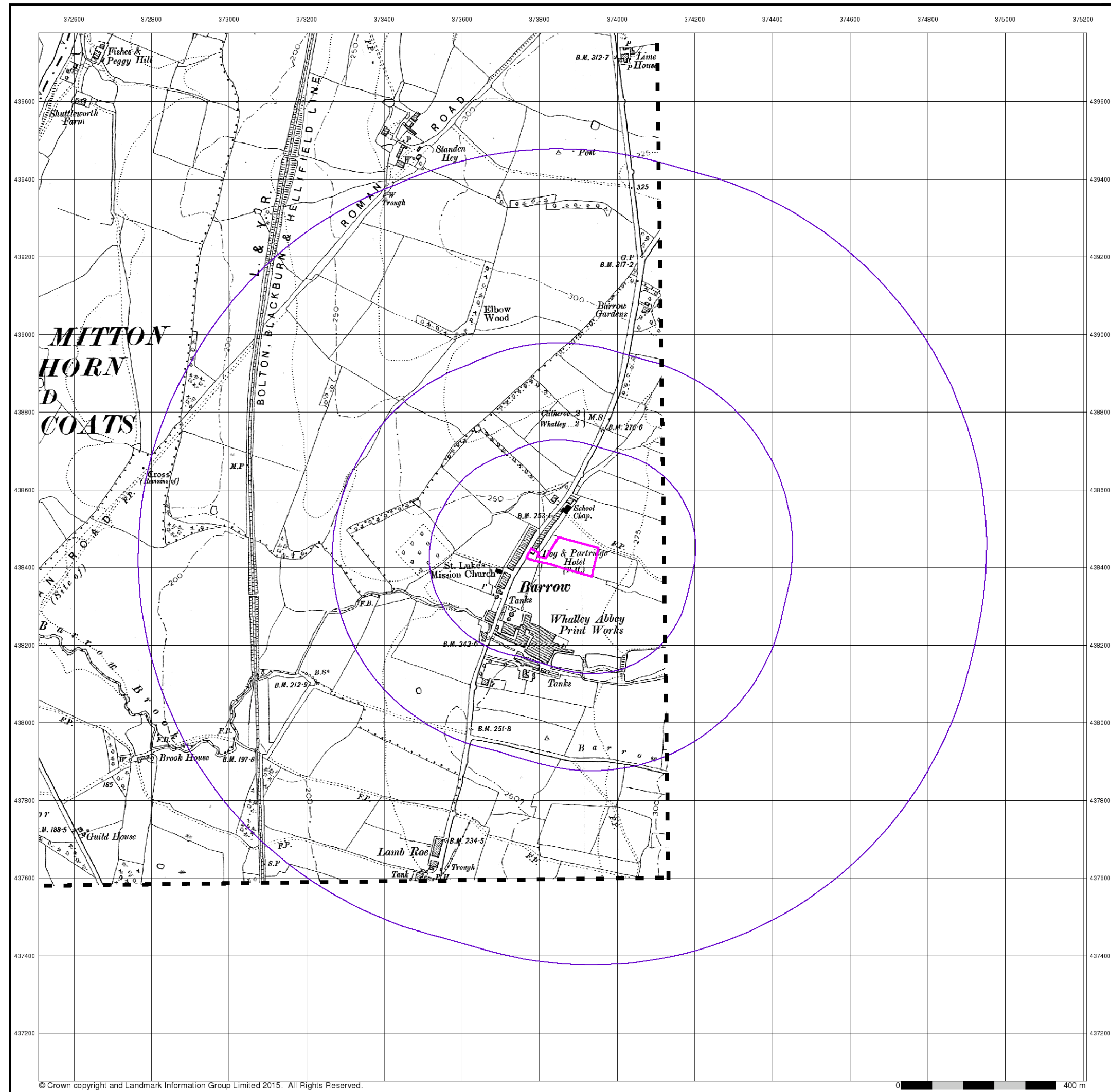
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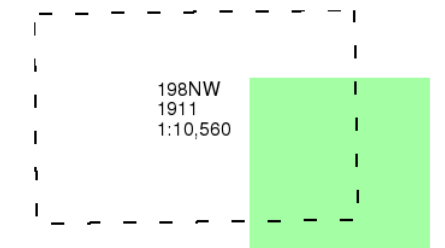
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Published 1911

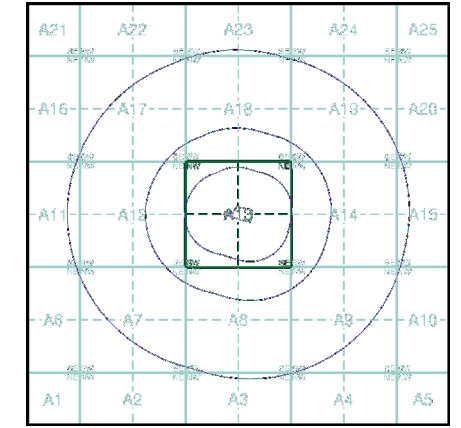
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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

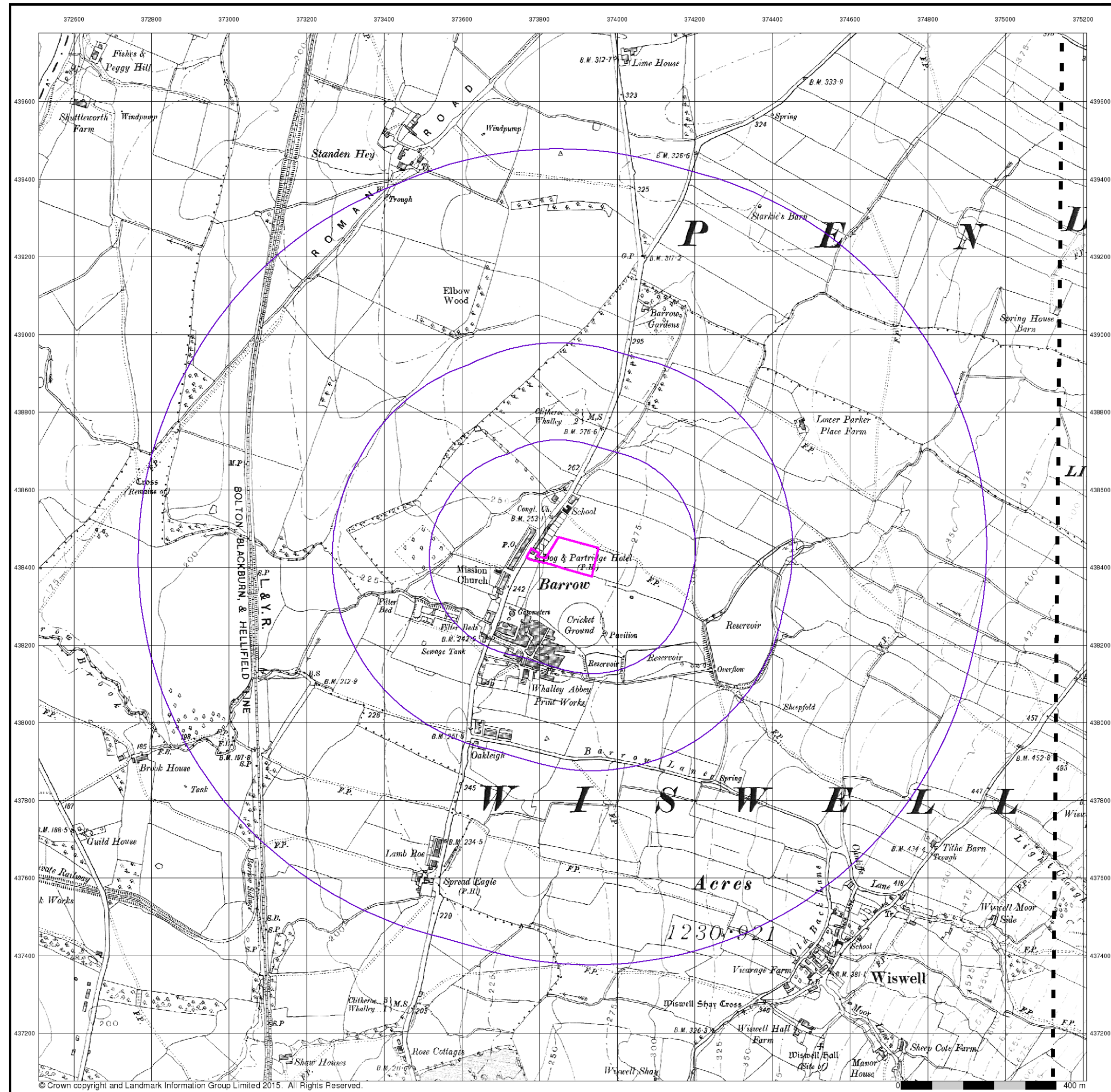
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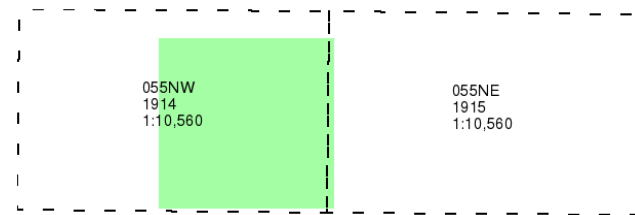
Lancashire And Furness

Published 1914 - 1915

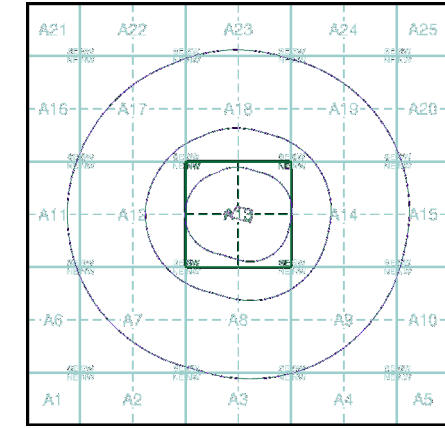
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Map Name(s) and Date(s)



Historical Map - Slice A



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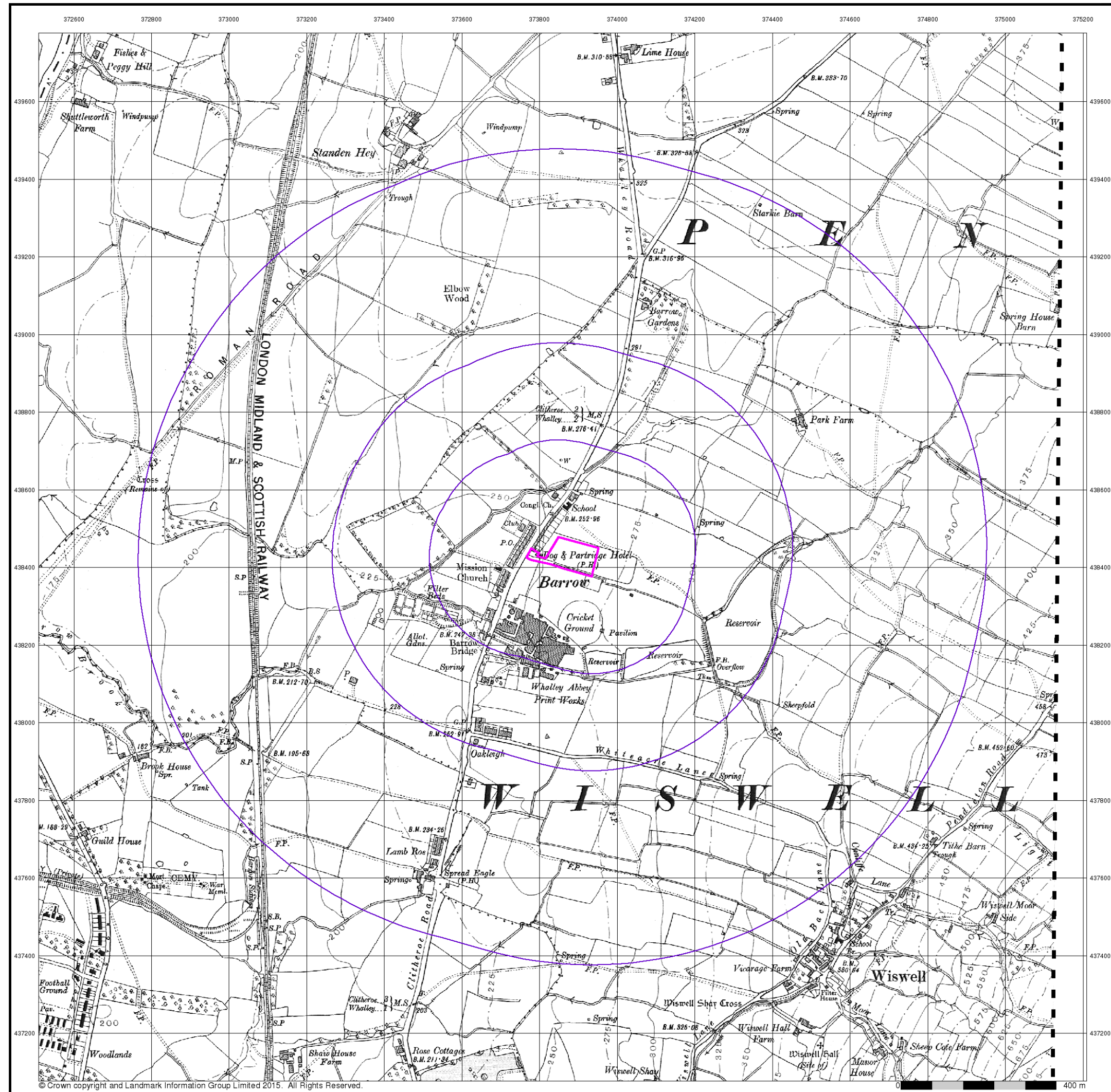
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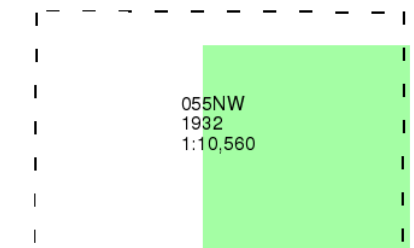
Lancashire And Furness

Published 1932

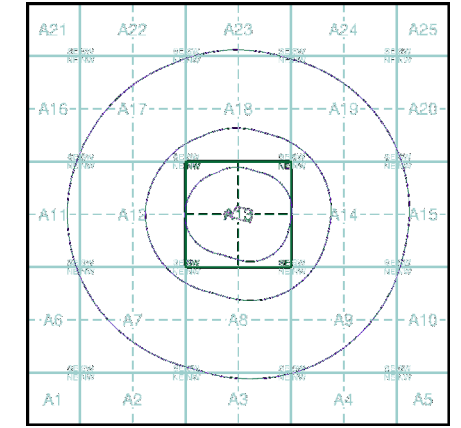
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Map Name(s) and Date(s)



Historical Map - Slice A



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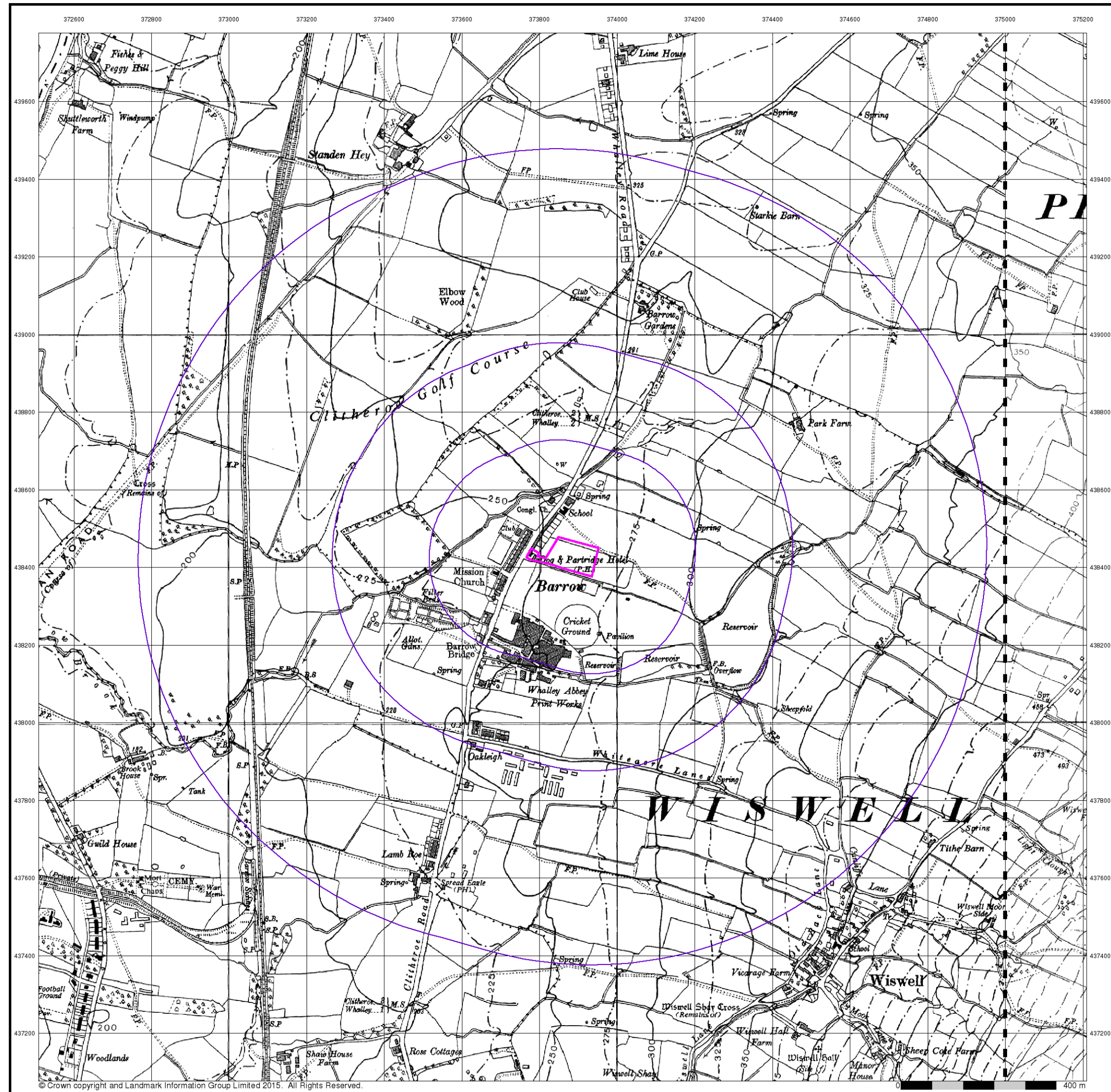
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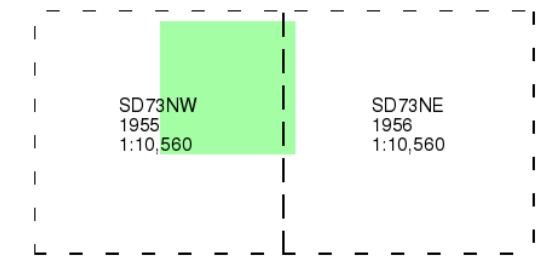
Ordnance Survey Plan

Published 1955 - 1956

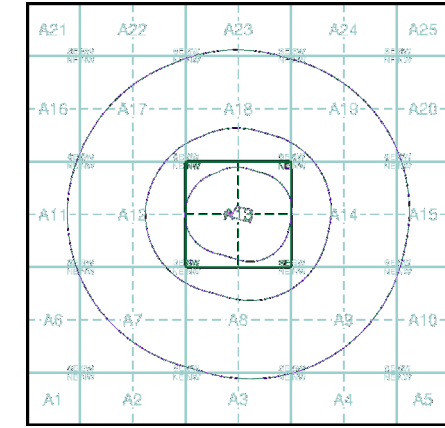
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Map Name(s) and Date(s)



Historical Map - Slice A



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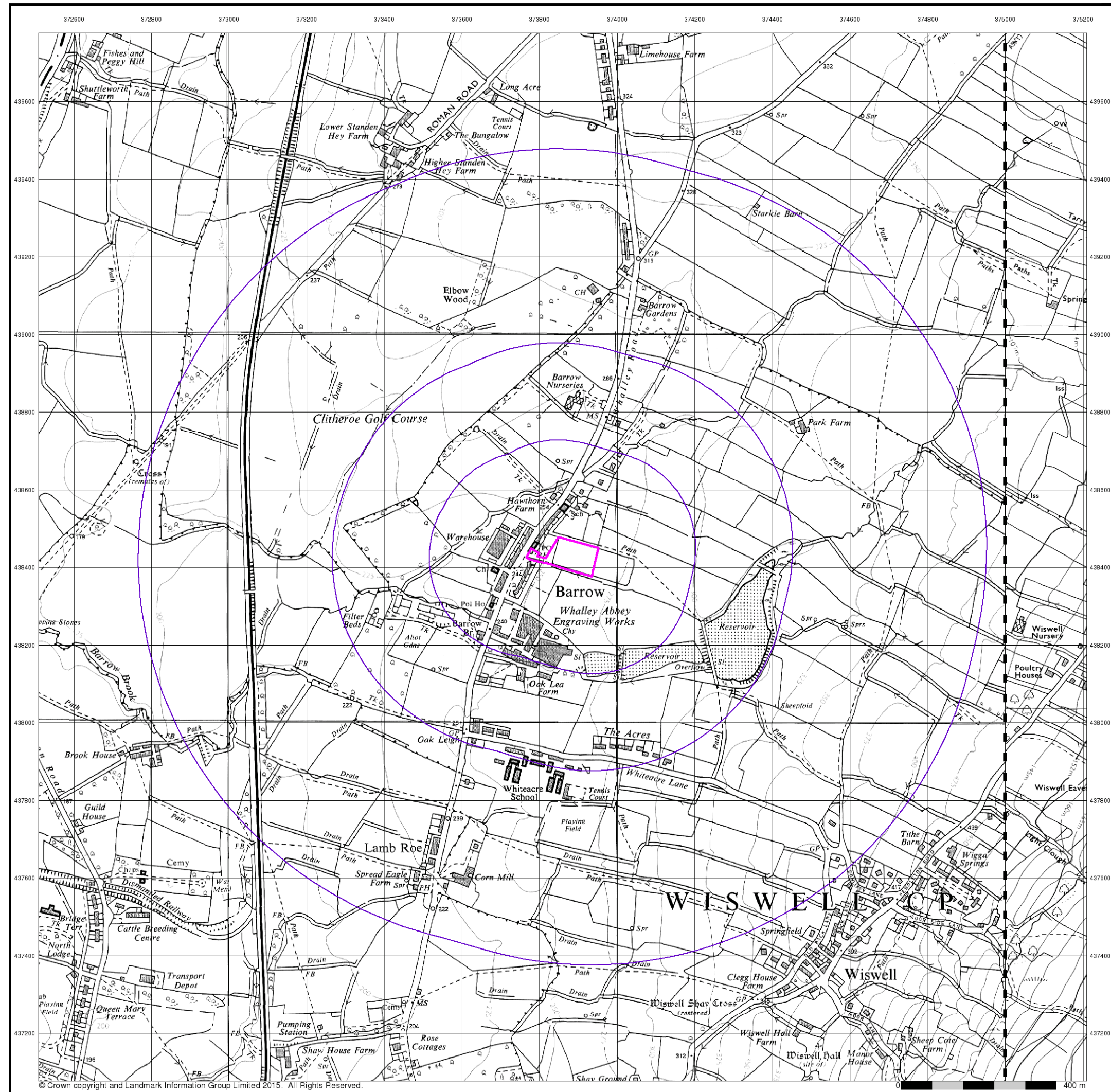
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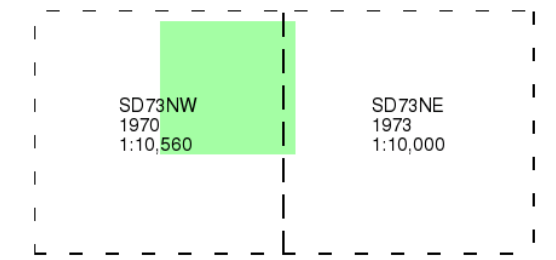
Ordnance Survey Plan

Published 1970 - 1973

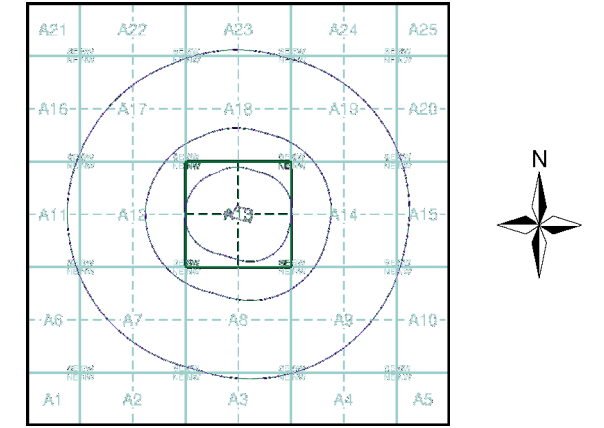
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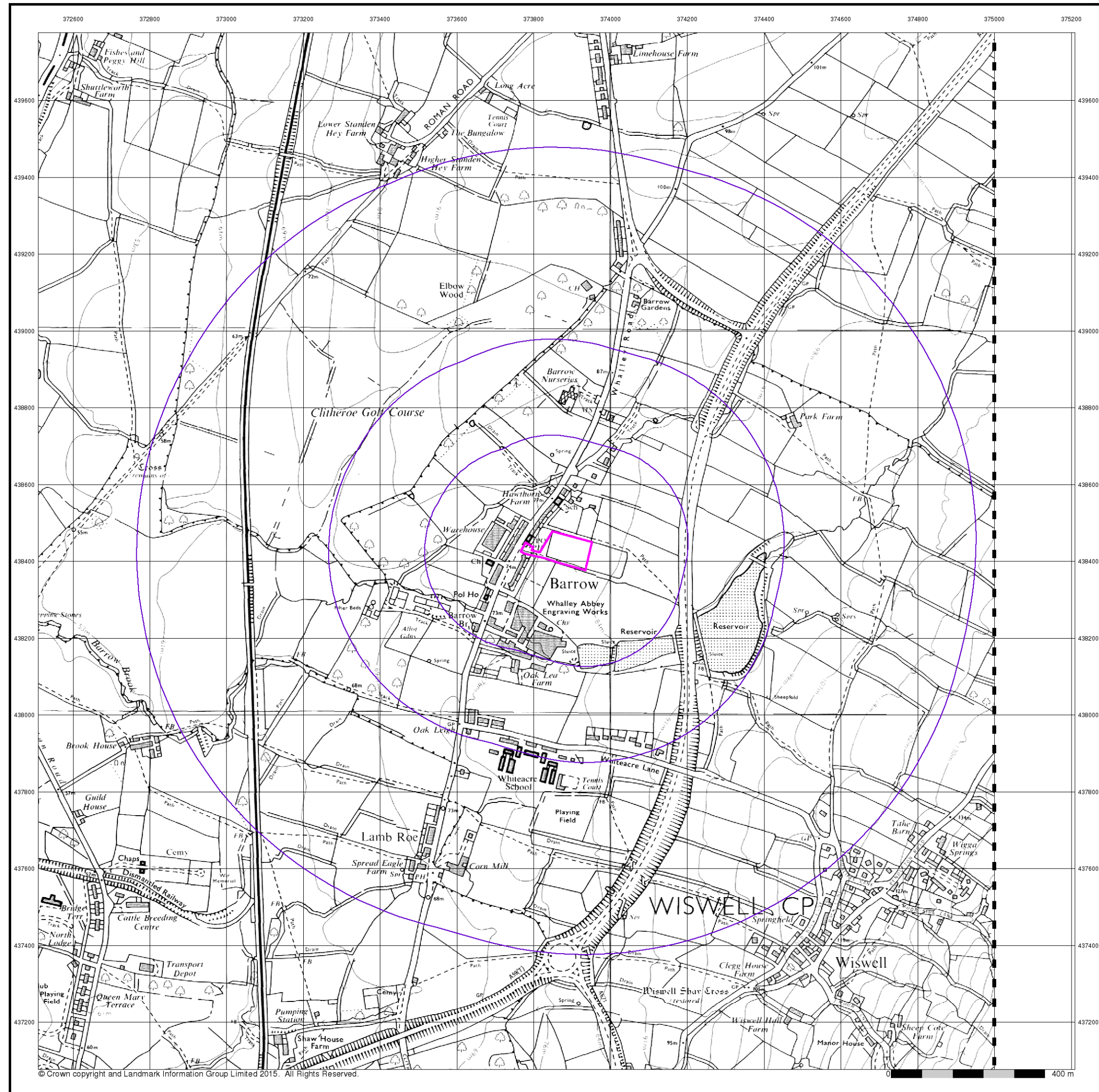
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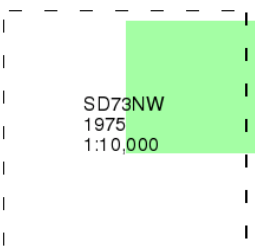
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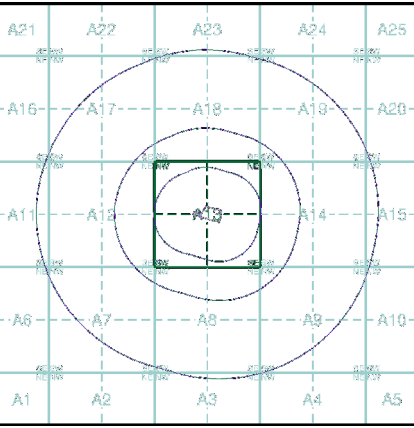
Ordnance Survey Plan
Published 1975
Source map scale - 1:10,000

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Historical Map - Slice A



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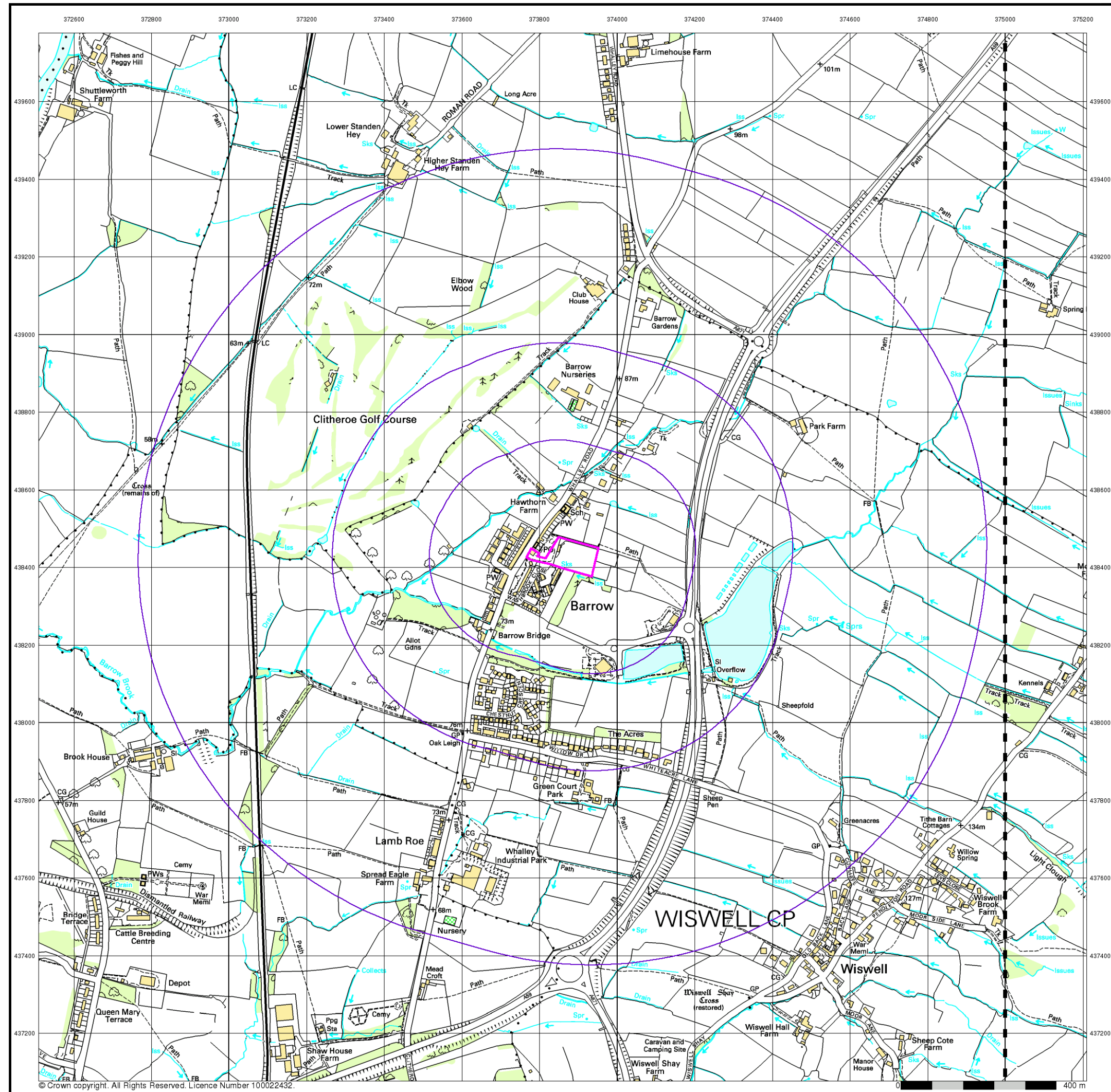
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National Grid Reference: 373870, 438430
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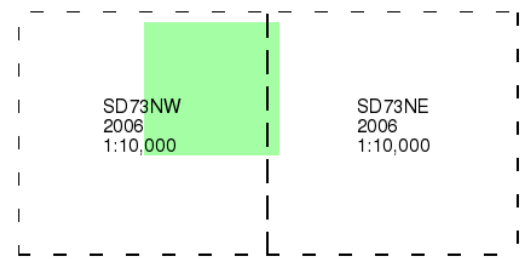
10k Raster Mapping

Published 2006

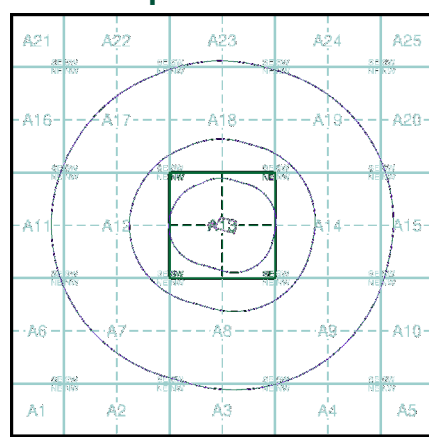
Source map scale - 1:10,000

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)



Historical Map - Slice A



Order Details

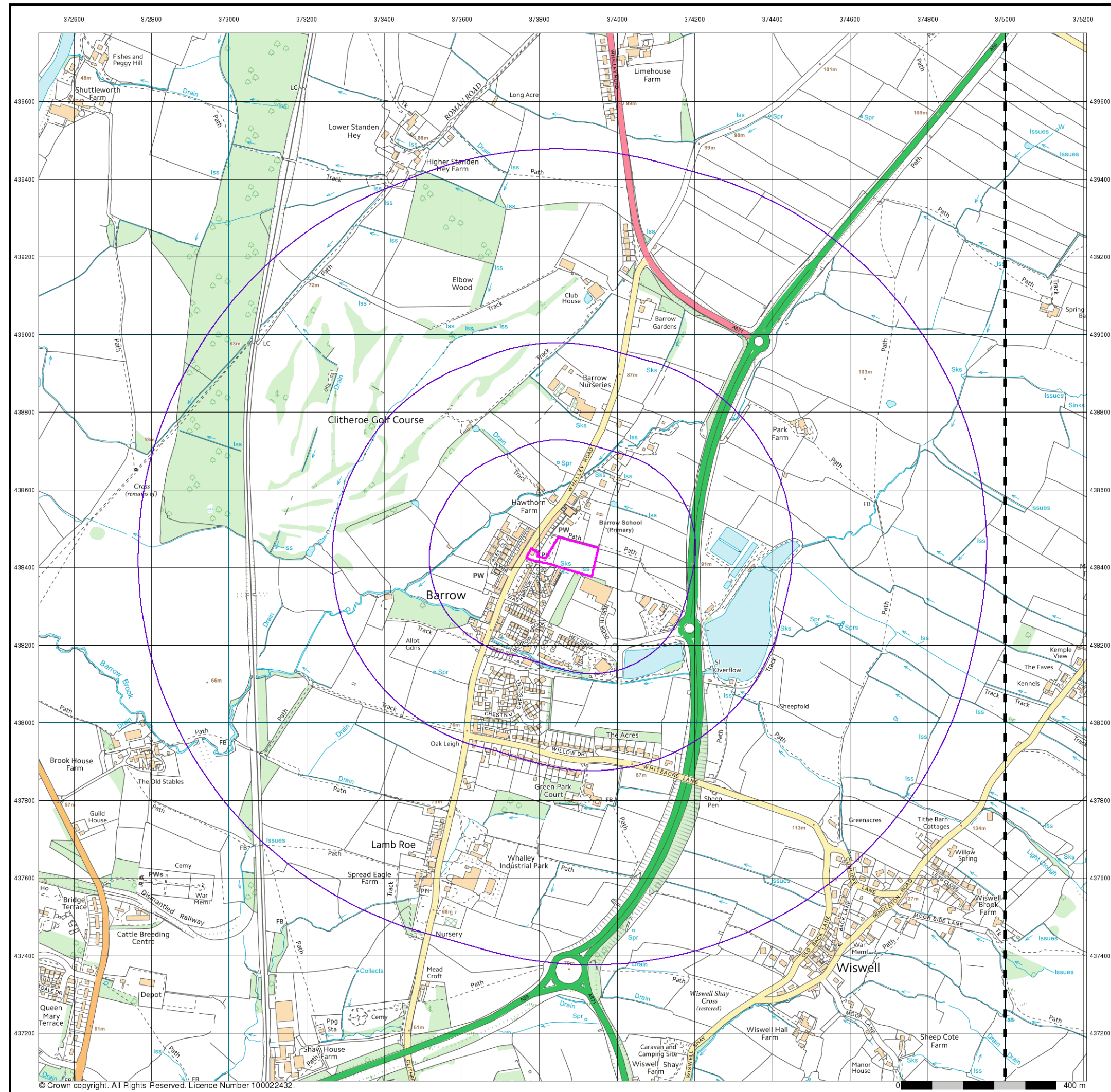
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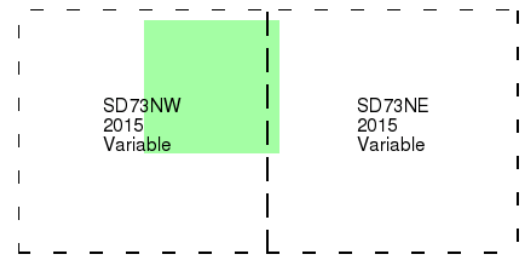
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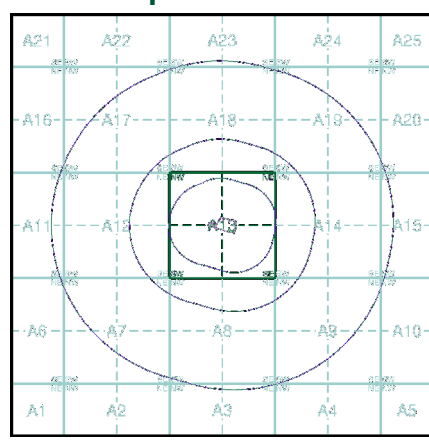
VectorMap Local
Published 2015
Source map scale - 1:10,000

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)



Historical Map - Slice A



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APPENDIX B

Envirocheck Report

Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

77556483_1_1

Customer Reference:

J-D1704.00

National Grid Reference:

373870, 438430

Slice:

A

Site Area (Ha):

0.98

Search Buffer (m):

1000

Site Details:

Co-operative Insurance Society Ltd
Ribble Valley Enterprise Park, Holm Road,
Barrow
CLITHEROE
Lancashire
BB7 9WF

Client Details:

Ms D Sykes
Opus International Consultants (UK) Ltd
1-2 Aire House
Richmond Business Park
Sidings Court
Doncaster
South Yorkshire
DN4 5NL

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	-
Geological	17
Industrial Land Use	21
Sensitive Land Use	-
Data Currency	24
Data Suppliers	29
Useful Contacts	30

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 the attached 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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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 1			8	3
Enforcement and Prohibition Notices					
Integrated Pollution Controls					
Integrated Pollution Prevention And Control					
Local Authority Integrated Pollution Prevention And Control					
Local Authority Pollution Prevention and Controls					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 3		Yes		
Pollution Incidents to Controlled Waters	pg 3		5	7	5
Prosecutions Relating to Authorised Processes					
Prosecutions Relating to Controlled Waters					
Registered Radioactive Substances					
River Quality					
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 6			1	1
Water Abstractions	pg 7			4	5 (*4)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 10	Yes	n/a	n/a	n/a
Bedrock Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Superficial Aquifer Designations	pg 10	Yes	n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
Detailed River Network Lines	pg 10		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 15		Yes		n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 16		1		
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 17	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 17	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites					
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas			n/a	n/a	n/a
Mining Instability			n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 20	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards				n/a	n/a
Potential for Ground Dissolution Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 20	Yes		n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 20	Yes		n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 21		2		23
Fuel Station Entries	pg 23		1		1
Sensitive Land Use					
Areas of Adopted Green Belt					
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones					
Ramsar Sites					
Sites of Special Scientific Interest					
Special Areas of Conservation					
Special Protection Areas					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: T Hanson & Sons Ltd Property Type: Horticulture Est. Nursery Gardens Location: Barrow Nurseries Swo Whalley Road, Barrow, Clitheroe, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190243 Permit Version: 1 Effective Date: 1st November 1994 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A18SE (N)	373	2	373870 438850
2	Discharge Consents Operator: United Utilities Water Limited Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017160031 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: 31st January 1985 Revocation Date: 13th July 2006 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12SE (W)	392	2	373385 438335
2	Discharge Consents Operator: United Utilities Water Limited Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017160031 Permit Version: 1 Effective Date: 19th October 1979 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A12SE (W)	393	2	373385 438330
2	Discharge Consents Operator: North West Water Limited Property Type: Not Given Location: Barrow Et Works Humu Authority: Environment Agency, North West Region Catchment Area: Ribble (Ex Calder) Reference: 17160031 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 1st April 1991 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Coastal Environment: Receiving Water: Barrow Brook Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A12SE (W)	398	2	373380 438330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: United Utilities Water Limited Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency, North West Region Catchment Area: Ribble (Ex Calder) Reference: 017160031 Permit Version: 2 Effective Date: 31st January 1985 Issued Date: 31st January 1985 Revocation Date: 13th July 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A12SE (W)	398	2	373380 438330
2	Discharge Consents Operator: United Utilities Water Limited Property Type: Sewage Disposal Works - Water Company Location: Barrow Stw, Barrow, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017160031 Permit Version: 1 Effective Date: 19th October 1979 Issued Date: Not Supplied Revocation Date: 30th January 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 10m	A12SE (W)	398	2	373380 438330
3	Discharge Consents Operator: Howard Rayner & Associates Ltd Property Type: Fish Farm Location: Whalley Trout Fishery A59 By Pass, Barrow, Blackburn, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190396 Permit Version: 1 Effective Date: 10th June 1991 Issued Date: Not Supplied Revocation Date: 31st March 1993 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	406	2	374300 438200
3	Discharge Consents Operator: Howard Rayner & Associates Ltd Property Type: Fish Farm Location: Whalley Trout Fishery A59 By Pass, Barrow, Blackburn, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 017190396 Permit Version: 2 Effective Date: 1st April 1993 Issued Date: Not Supplied Revocation Date: 3rd August 1993 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Barrow Brook Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	406	2	374300 438200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	Discharge Consents Operator: Whitbread Bowland Inns Property Type: Public Houses & Bars Location: Whitbread Bowland Inns, Nr Whalley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Not Given Reference: 01719190201 Permit Version: 1 Effective Date: 8th September 1986 Issued Date: Not Supplied Revocation Date: 1st November 1994 Discharge Type: Discharge Of Other Matter-Surface Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib For Drainage Area 72 Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A7SE (S)	961	2	373500 437500
5	Discharge Consents Operator: United Utilities Water Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Ps Off Cunliffe Lane, Wiswall, Ribble Valley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Calder (Ribble) Reference: 01rib0014 Permit Version: 2 Effective Date: 14th April 2009 Issued Date: 14th April 2009 Revocation Date: Not Supplied Discharge Type: Public Sewage: Storm Sewage Overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Roadside Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A9SE (SE)	963	2	374590 437670
5	Discharge Consents Operator: United Utilities Water Limited Property Type: Sewerage Network - Pumping Station - Water Company Location: Ps Off Cunliffe Lane, Wiswall, Ribble Valley, Lancashire Authority: Environment Agency, North West Region Catchment Area: Calder (Ribble) Reference: 01RIB0014 Permit Version: 1 Effective Date: 1st January 1995 Issued Date: Not Supplied Revocation Date: 13th April 2009 Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Roadside Dyke Status: Post National Rivers Authority Legislation where issue date > 31/08/1989 Positional Accuracy: Located by supplier to within 100m	A9SE (SE)	963	2	374590 437670
	Nearest Surface Water Feature	A13SE (S)	2	-	373862 438394
6	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: Barrow Brook Incident Date: 12th October 1993 Incident Reference: 93340093 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (W)	71	2	373700 438400

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Animal Waste/Slurry Note: Tributary Barrow Brook Incident Date: 22nd December 1992 Incident Reference: 92340116 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	223	2	373900 438695
7	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: Barrow Brook Incident Date: 3rd August 1992 Incident Reference: 92340088 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13NE (N)	228	2	373900 438700
8	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Animal Waste/Slurry Note: Barrow Brook Incident Date: 16th May 1992 Incident Reference: 92340061 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	242	2	374100 438200
8	Pollution Incidents to Controlled Waters Property Type: Boats/Ships Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Unknown Note: None Incident Date: 27th June 1994 Incident Reference: 94340099 Catchment Area: Ribble - Non-Tidal Receiving Water: Canal Cause of Incident: Other Incident/Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	245	2	374100 438195
9	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Barrow Brook; Barrow Brook Incident Date: 29th December 1993 Incident Reference: 93340120 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	276	2	374200 438300
10	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: Barrow Brook; Waste Plastic Cont. Incident Date: 28th November 1991 Incident Reference: 91340113 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (W)	295	2	373500 438300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	Pollution Incidents to Controlled Waters Property Type: Farm Drainage Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Animal Waste/Slurry Note: Tributary Barrow Brook Incident Date: 3rd January 1992 Incident Reference: 92320002 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	319	2	374200 438200
12	Pollution Incidents to Controlled Waters Property Type: Private Sewage: Sewage Works And Septic Tanks Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Sewage - Septic Tank Effluent Note: Tributary Barrow Brook Incident Date: 15th June 1993 Incident Reference: 93340046 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A18SW (N)	326	2	373800 438800
13	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Inert Suspended Solids Note: Barrow Brook Incident Date: 25th May 1995 Incident Reference: 95330124 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Poor Operational Practice Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NE (S)	378	2	373900 438000
14	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: Barrow Brook Incident Date: 12th May 1993 Incident Reference: 93340033 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SE (SW)	431	2	373400 438200
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Algae Note: Tributary Barrow Brook; Blue Green Algae Incident Date: 11th October 1993 Incident Reference: 93340099 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	451	2	374400 438500
16	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Animal Waste/Slurry Note: Barrow Brook; Chicken Slurry Incident Date: 16th August 1993 Incident Reference: 93340072 Catchment Area: Ribble - Non-Tidal Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A17SE (NW)	531	2	373500 438900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Lancashire Authority: Environment Agency, North West Region Pollutant: Not Given Note: None Pollution Found Incident Date: 27th May 1992 Incident Reference: 92330169 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	603	2	374500 438700
18	Pollution Incidents to Controlled Waters Property Type: Not Given Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Oils - Other Oil Note: Tributary Calder; Oil/Silt Incident Date: 12th June 1993 Incident Reference: 93330178 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	866	2	373500 437600
18	Pollution Incidents to Controlled Waters Property Type: Pollution Found Source Not Determined Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Miscellaneous - Unknown Note: Tributary River Calder Incident Date: 15th July 1993 Incident Reference: 93330217 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	870	2	373500 437595
19	Pollution Incidents to Controlled Waters Property Type: Spillage; Accident - Static Site Location: Location Description Not Available Authority: Environment Agency, North West Region Pollutant: Filter Backwash Water Note: Tributary Calder Incident Date: 14th June 1993 Incident Reference: 93330180 Catchment Area: Calder - Lancs Receiving Water: Not Given Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (SW)	902	2	373400 437600
20	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 23rd September 2015 Incident Reference: 1375313 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Contaminated Water: Suspended Solids	A13SE (S)	256	2	373886 438125
21	Substantiated Pollution Incident Register Authority: Environment Agency - North West Region, North Area Incident Date: 3rd March 2007 Incident Reference: 473953 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Agricultural Materials And Wastes: Slurry And Dilute Slurry	A17NE (NW)	996	2	373390 439365

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309052 Permit Version: 2 Location: Land At Pendle View Fisheries, Clitheroe Authority: Environment Agency, North West Region Abstraction: Other Industrial/Commercial/Public Services: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Not Supplied Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 29th June 2004 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SW (E)	312	2	374240 438310
23	Water Abstractions Operator: Clitheroe Golf Club Ltd Licence Number: 2671309036 Permit Version: Not Supplied Location: Barrow Brook, Pendleton, CLITHEROE Authority: Environment Agency, North West Region Abstraction: Industrial & Transfer Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 11 Yearly Rate (m3): 3404 Details: Additional Purpose: Transfer of water; 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	A12SE (W)	388	2	373400 438300
24	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309044 Permit Version: 102 Location: Reservoir At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Land & Premises-Whalley Trout Fisher Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th October 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	458	2	374300 438100
24	Water Abstractions Operator: Howard Rayner & Associates Licence Number: 2671309044 Permit Version: 101 Location: Reservoir At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 655 Yearly Rate (m3): 238938 Details: Land & Premises-Whalley Trout Fisher Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SW (SE)	458	2	374300 438100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
25	Water Abstractions Operator: Clitheroe Golf Club Ltd Licence Number: 2671309037 Permit Version: Not Supplied Location: Clitheroe Golf Club, CLITHEROE Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Inpoundment Of Unnamed Stream 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	A12NE (W)	572	2	373200 438500
26	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309047 Permit Version: 102 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pine Lodge Fishery,Barrow,Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th October 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	814	2	374700 438100
26	Water Abstractions Operator: Pendle View Fisheries Ltd Licence Number: 2671309047 Permit Version: 102 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pine Lodge Fishery,Barrow,Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 26th October 2001 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	814	2	374700 438100
26	Water Abstractions Operator: Howard Rayner & Associates Licence Number: 2671309047 Permit Version: 101 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Aquaculture: Fish Farm/Cress Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 33 Yearly Rate (m3): 123451 Details: Pine Lodge Fishery,Barrow,Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14SE (E)	814	2	374700 438100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Water Abstractions Operator: Howard Rayner & Associates Licence Number: 2671309047 Permit Version: 101 Location: Spring Fed Storage Tank At Barrow , Blackburn Authority: Environment Agency, North West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Pine Lodge Fishery, Barrow, Blackburn Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th October 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A14SE (E)	814	2	374700 438100
	Water Abstractions Operator: Clitheroe Golf Club Ltd Licence Number: 2671309037 Permit Version: Not Supplied Location: Clitheroe Golf Club, CLITHEROE Authority: Environment Agency, North West Region Abstraction: Not Supplied Abstraction Type: Not Supplied Source: Unknown Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Inpoundment Of Unnamed Stream 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	A7SE (SW)	1085	2	373200 437500
	Water Abstractions Operator: Mr T Whitewell Mrs A M Wood Licence Number: 2671336001 Permit Version: 100 Location: Spring At Sheepeat Farm, Wiswell. Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 5 Yearly Rate (m3): 1364 Details: Wiswell Hall Farm, Wiswell, Whalley. Authorised Start: 01 October Authorised End: 30 September Permit Start Date: 11th March 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4NE (SE)	1439	2	374600 437100
	Water Abstractions Operator: A F Scholfield Licence Number: 2671336006 Permit Version: 100 Location: Spring Fed Tank At Wiswell, Clitheroe Authority: Environment Agency, North West Region Abstraction: Household Water Supply: Drinking; Cooking; Sanitary; Washing; (Small Garden) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 133 Details: Manor House Cottage, Moor Lane, Wiswell Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st April 1987 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A4SE (SE)	1529	2	374600 437000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Colin And Vivien Middleton Licence Number: 2671310010 Permit Version: 100 Location: Borehole At Clitheroe Authority: Environment Agency, North West Region Abstraction: General Agriculture; General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 18 Yearly Rate (m3): 6570 Details: Land At Little Mitton Farm, Mitton Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 15th May 1998 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1980	2	371800 438200
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13SE (W)	0	2	373866 438427
	Drift Deposits Drift Deposit: Low permeability drift deposits occurring at the surface and overlying Major and Minor Aquifers are head, clay-with-flints, brickearth, peat, river terrace deposits and marine and estuarine alluvium Map Sheet: Sheet 10 Central Lancashire Scale: 1:100,000	A13SE (W)	0	2	373866 438427
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (W)	0	3	373866 438427
	Superficial Aquifer Designations Aquifer Designation: Unproductive Strata	A13SE (W)	0	3	373866 438427
	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				
27	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NW (N)	114	2	373803 438583
28	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	191	2	373939 438654

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	194	2	373939 438654
30	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (N)	194	2	373939 438654
31	Detailed River Network Lines River Type: Secondary River River Name: Barrow Brook Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (SW)	200	2	373666 438253
32	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	268	2	374006 438713
33	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	269	2	374003 438715
34	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13NE (NE)	282	2	374016 438724

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
35	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (N)	303	2	373907 438775
36	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	327	2	373452 438337
37	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	393	2	374289 438205
38	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	394	2	374273 438175
39	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	394	2	374273 438175
40	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	396	2	374304 438234

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	396	2	374304 438234
42	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A19SW (NE)	419	2	374220 438771
43	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (SE)	440	2	374290 438117
44	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A19SW (NE)	468	2	374285 438778
45	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	469	2	374420 438418
46	Detailed River Network Lines River Type: Lake/Reservoir River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	469	2	374420 438418

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
47	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A9NW (SE)	474	2	374299 438072
48	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A9NW (SE)	475	2	374299 438072
49	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Secondary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	475	2	373311 438292
50	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	481	2	374432 438416
51	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	482	2	373305 438287
52	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14SW (E)	482	2	374394 438231

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
53	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	484	2	373303 438289
54	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A18SE (NE)	484	2	374115 438904
55	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D011 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12NE (NW)	490	2	373346 438677
56	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13SE (S)	2	2	373862 438394
57	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NE (NE)	117	2	374003 438554
58	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NW (N)	190	2	373849 438668
59	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NE (E)	237	2	374183 438501
60	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NW (NW)	246	2	373727 438691
61	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D011	A13NE (E)	247	2	374186 438526

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
62	Historical Landfill Sites Licence Holder: Not Supplied Location: Whalley Road, Whalley, Blackburn, Lancashire Name: Barrow Lake Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD07114 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Inert Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 2300/0193 BGS Ref: Not Supplied Other Ref: K1/03/043	A13SE (S)	193	2	373934 438183
	Local Authority Landfill Coverage Name: Ribble Valley Borough Council - Had landfill data but passed it to the relevant environment agency		0	7	373866 438427
	Local Authority Landfill Coverage Name: Lancashire County Council - Had landfill data but passed it to the relevant environment agency		0	6	373866 438427

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Bowland High Group And Craven Group (Undifferentiated)	A13SE (W)	0	3	373866 438427
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (W)	0	3	373866 438427
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (E)	48	3	374000 438427
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	376	3	373866 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (S)	382	3	374000 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (SE)	396	3	374228 438110
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NE (SE)	421	3	374123 438000

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 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	439	3	374298 438131
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (SE)	454	3	374190 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	504	3	374000 437876
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	522	3	373866 439000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A18SE (N)	544	3	374000 439000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A8NE (S)	561	3	374000 437819

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 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	600	3	374487 438143
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SW (SE)	643	3	374534 438144
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A12SW (W)	767	3	373000 438427
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9SW (SE)	836	3	374475 437737
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A7NW (SW)	877	3	373000 438000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Sediment Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	902	3	374755 438000

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 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <150 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SW (NW)	955	3	373000 439000
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas In an area that might not be affected by coal mining				
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	0	3	373911 438400
	Potential for Ground Dissolution Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NW (NW)	239	3	373727 438690
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427
	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	A13SE (W)	0	3	373866 438427
	Radon Potential - Radon Affected Areas Affected Area: The property is in a lower probability radon area, as less than 1% of homes are above the action level Source: British Geological Survey, National Geoscience Information Service	A13SE (W)	0	3	373866 438427

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	Contemporary Trade Directory Entries Name: Walker Preservations Location: 13, Trafford Gardens, Barrow, Clitheroe, Lancashire, BB7 9AX Classification: Damp & Dry Rot Control Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	87	-	373749 438338
64	Contemporary Trade Directory Entries Name: Whittle Eastern Europe Logistics Ltd Location: Unit 1-7 The Printworks, Hey Road, Barrow, Clitheroe, Lancashire, BB7 9WA Classification: Road Haulage Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13SE (S)	236	-	373964 438142
65	Contemporary Trade Directory Entries Name: Cubes C A D Location: Crabyres, Whalley Road, Pendleton, Clitheroe, Lancashire, BB7 1PP Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A18NE (N)	712	-	374023 439168
66	Contemporary Trade Directory Entries Name: Dick Leigh Location: Ashleigh, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AQ Classification: Lawnmowers & Garden Machinery - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	752	-	373637 437679
67	Contemporary Trade Directory Entries Name: Healthy Options Location: 1, Meadow Court, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AE Classification: Pet Foods & Animal Feeds Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	821	-	373678 437596
67	Contemporary Trade Directory Entries Name: J & L Auto'S Location: Unit 3, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Mot Testing Centres Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (S)	840	-	373672 437578
67	Contemporary Trade Directory Entries Name: Whalley Motor Bodies Location: 4, Meadow Court, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AE Classification: Car Body Repairs Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	848	-	373669 437571
68	Contemporary Trade Directory Entries Name: Geeup Equine Laundry Location: Unit 2, Whalley Ind Pk, Clitheroe Rd, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Laundry Equipment - Sales & Service Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	823	-	373606 437615
68	Contemporary Trade Directory Entries Name: Nuttall Furniture Designs Location: Unit 7, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Furniture Manufacturers - Home & Office Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Chaigley Coach Works Ltd Location: Unit 5, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Horse Boxes & Transporting Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Carall Garments Location: Unit 1, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Clothing & Fabrics - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Contemporary Trade Directory Entries Name: British Tufting Supplies Location: Unit 4, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Carpets & Rugs - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: T D Landrovers Location: Unit 8, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Cherry Automation Location: Unit 7, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: In Furniture Location: Unit 7, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Furniture Manufacturers - Home & Office Status: Active Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Cleanchange Location: Unit 12, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Janitorial Equipment - Servicing & Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: A & K Tyres Location: Unit 8, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Abbey Electronics Location: Unit 11, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Machinery - Industrial & Commercial Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: S P C N C Engineering Ltd Location: Unit 4, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Precision Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Adremit Location: Unit 2, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Air Purification Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Enhance Glass Solutions Location: Unit 1a, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Window Tinting Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
68	Contemporary Trade Directory Entries Name: Gee-Up Equine Location: Unit 2, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AH Classification: Laundry Equipment - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Knight Labels Location: Unit 5, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AH Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Clitheroe Plastics Centre Location: Unit 12, Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9WP Classification: Window Frame Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	841	-	373613 437593
68	Contemporary Trade Directory Entries Name: Uk Precision Engineering Ltd Location: Unit 3 Meadow Court Whalley Industrial Park, Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AH Classification: Precision Engineers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	842	-	373613 437593
69	Fuel Station Entries Name: Co-Op Clitheroe Location: Ribble Valley Enterprise Park, Clitheroe, Lancashire, BB7 9HW Brand: Texaco Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned to the address or location	A13SE (SE)	154	-	374074 438311
70	Fuel Station Entries Name: Pendle Garage Location: Clitheroe Road, Barrow, Clitheroe, Lancashire, BB7 9AQ Brand: Gulf Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Automatically positioned to the address	A8SW (S)	873	-	373559 437575

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Pendle Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	April 2014 July 2013 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North West Region	November 2015	Quarterly
Enforcement and Prohibition Notices Environment Agency - North West Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North West Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North West Region	October 2015	Quarterly
Local Authority Integrated Pollution Prevention And Control Ribble Valley Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Pendle Borough Council - Environmental Health Department	June 2014 October 2014 September 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department	April 2015 June 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department	April 2015 June 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
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	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North West Region	March 2013	As notified
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 - Central Area Environment Agency - North West Region - North Area	October 2015 October 2015	Quarterly Quarterly
Water Abstractions Environment Agency - North West Region	July 2015	Quarterly
Water Industry Act Referrals Environment Agency - North West Region	October 2015	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	October 2012	As notified

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	January 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2015	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2015	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2015	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2015	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2015	Quarterly
Flood Defences Environment Agency - Head Office	November 2015	Quarterly
Detailed River Network Lines Environment Agency - Head Office	March 2012	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified

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	November 2015	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 - Central Area Environment Agency - North West Region - North Area	August 2014 August 2014	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	October 2015 October 2015	Quarterly Quarterly
Local Authority Landfill Coverage Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Pendle Borough Council - Environmental Health Department Ribble Valley Borough Council - Environmental Health Department	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Pendle Borough Council - Environmental Health Department Hyndburn Borough Council - Environmental Health Department Lancashire County Council - Waste Management Group Ribble Valley Borough Council - Environmental Health Department	April 2003 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North West Region - Central Area Environment Agency - North West Region - North Area	March 2003 March 2003	Not Applicable Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	June 2015	Bi-Annually
Explosive Sites Health and Safety Executive	June 2015	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Ribble Valley Borough Council Pendle Borough Council - Planning Hyndburn Borough Council - Planning Lancashire County Council	January 2015 November 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Ribble Valley Borough Council Pendle Borough Council - Planning Hyndburn Borough Council - Planning Lancashire County Council	January 2015 November 2014 October 2014 September 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

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	January 2010	Annually
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	November 2015	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Mining Report Service	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	July 2014	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2015	Quarterly
Fuel Station Entries Catalist Ltd - Experian	August 2015	Quarterly

Sensitive Land Use	Version	Update Cycle
Areas of Adopted Green Belt Hyndburn Borough Council Pendle Borough Council Ribble Valley Borough Council	November 201 November 201 November 201	As notified As notified As notified
Areas of Unadopted Green Belt Hyndburn Borough Council Pendle Borough Council Ribble Valley Borough Council	November 201 November 201 November 201	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	October 2015	Bi-Annually
Environmentally Sensitive Areas Natural England	October 2015	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	October 2015	Bi-Annually
Marine Nature Reserves Natural England	October 2015	Bi-Annually
National Nature Reserves Natural England	October 2015	Bi-Annually
National Parks Natural England	August 2015	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	October 2015	Bi-Annually
Sites of Special Scientific Interest Natural England	October 2015	Bi-Annually
Special Areas of Conservation Natural England	October 2015	Bi-Annually
Special Protection Areas Natural England	October 2015	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	
Centre for Ecology and Hydrology	
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
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	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
4	Natural England Suite D, Unex House, Bourges Boulevard, Peterborough, Cambridgeshire, PE1 1NG	Telephone: 0845 600 3078 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
5	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
6	Lancashire County Council - Waste Management Group Environment Directorate, Guild House, Cross Street, Preston, Lancashire, PR1 8RD	Website: www.lancashire.gov.uk
7	Ribble Valley Borough Council - Environmental Health Department Council Offices, Church Walk, Clitheroe, Lancashire, BB7 2RA	Telephone: 01200 425111 Fax: 01200 26339 Website: www.ribblevalley.gov.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.



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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

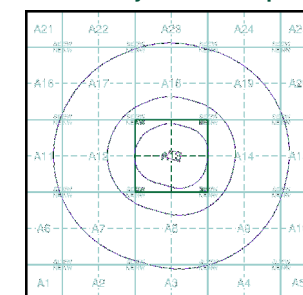
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

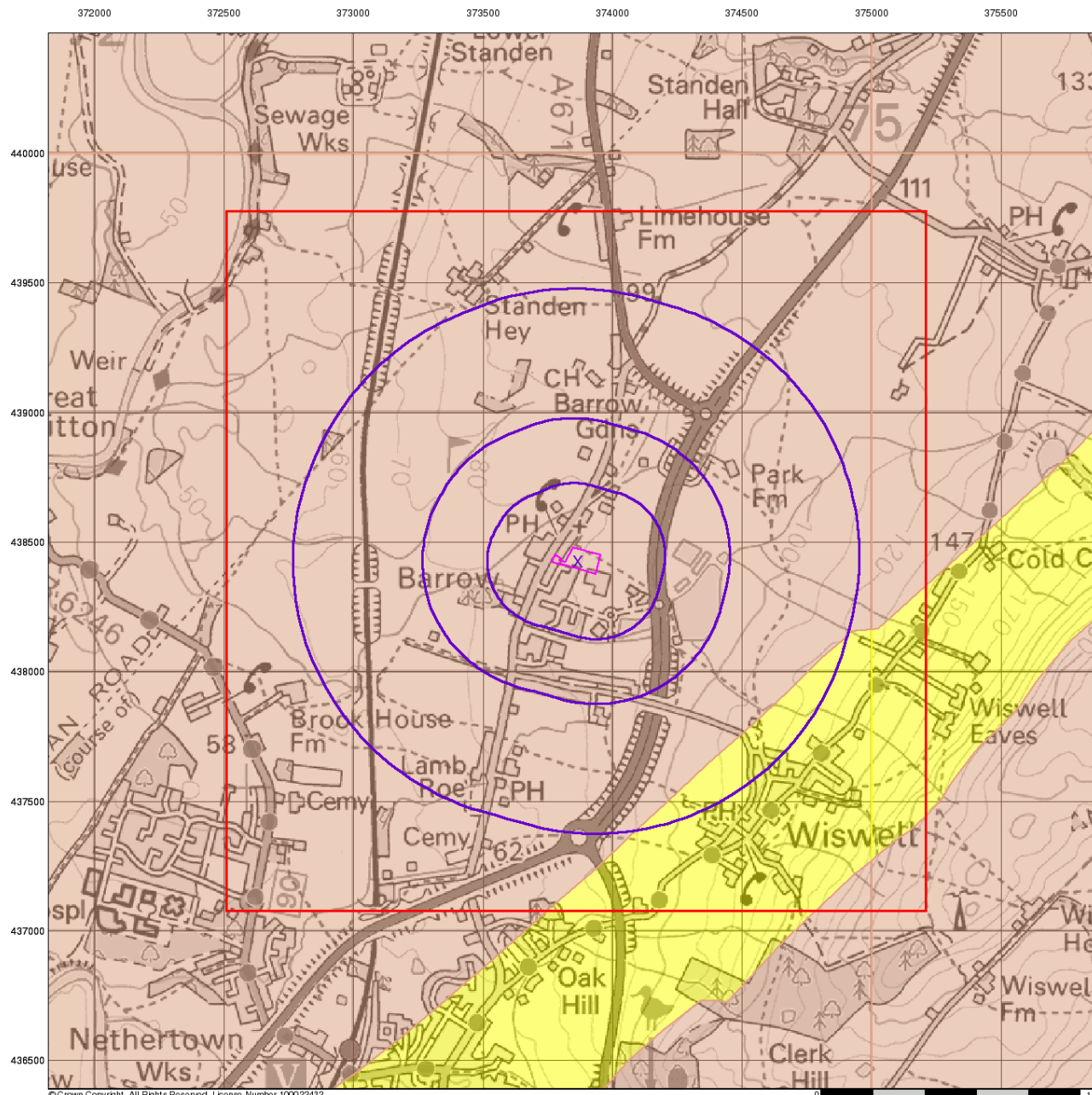
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 Customer Ref: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details

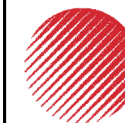
Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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 Fax: 0844 844 9951
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OPUS

Bedrock Aquifer Designation

General

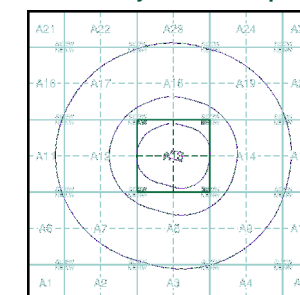
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

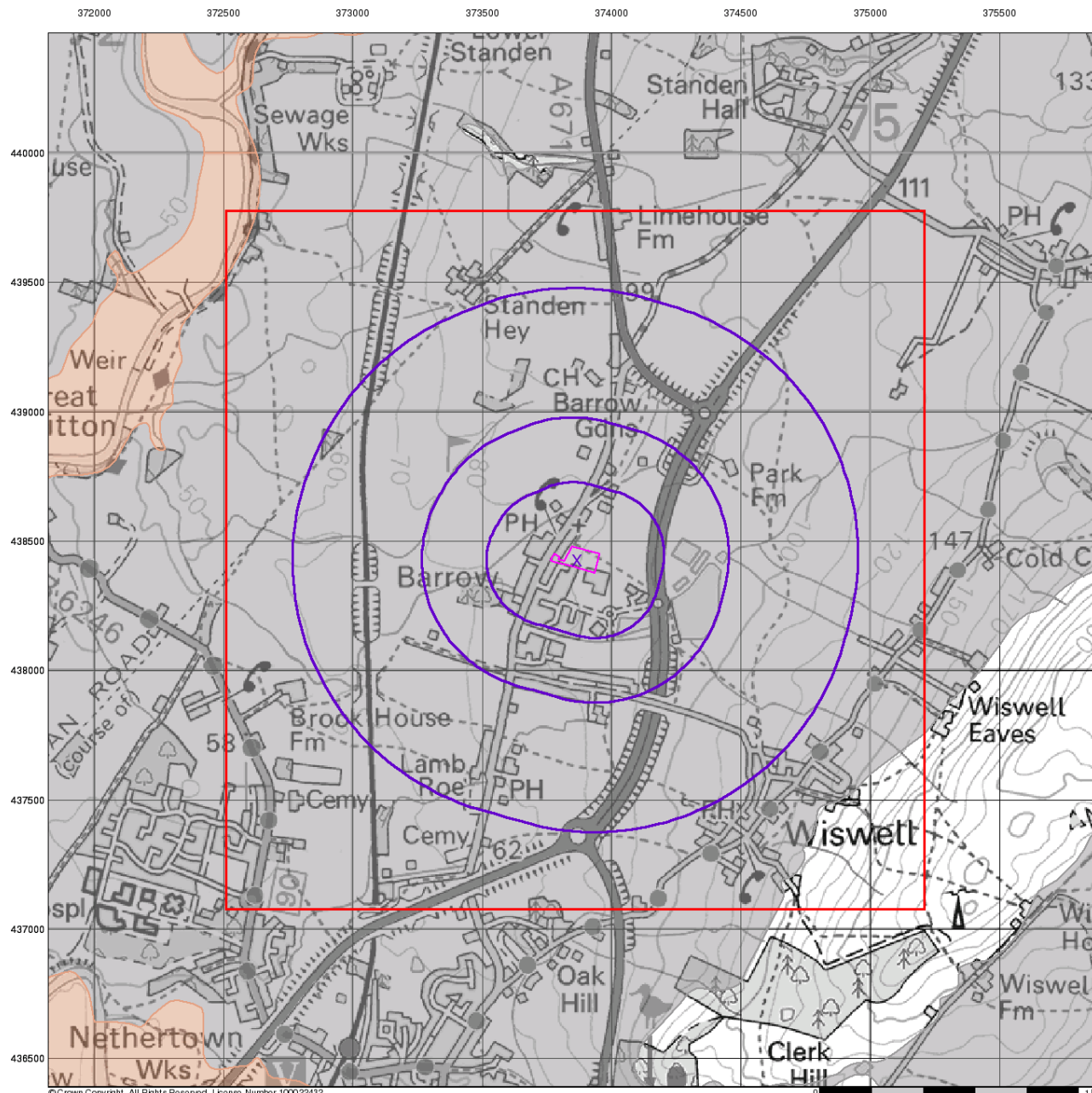
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 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details

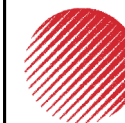
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OPUS

Superficial Aquifer Designation

General

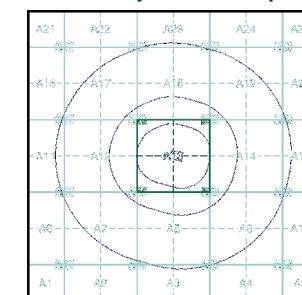
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown

Site Sensitivity Context Map - Slice A



Order Details

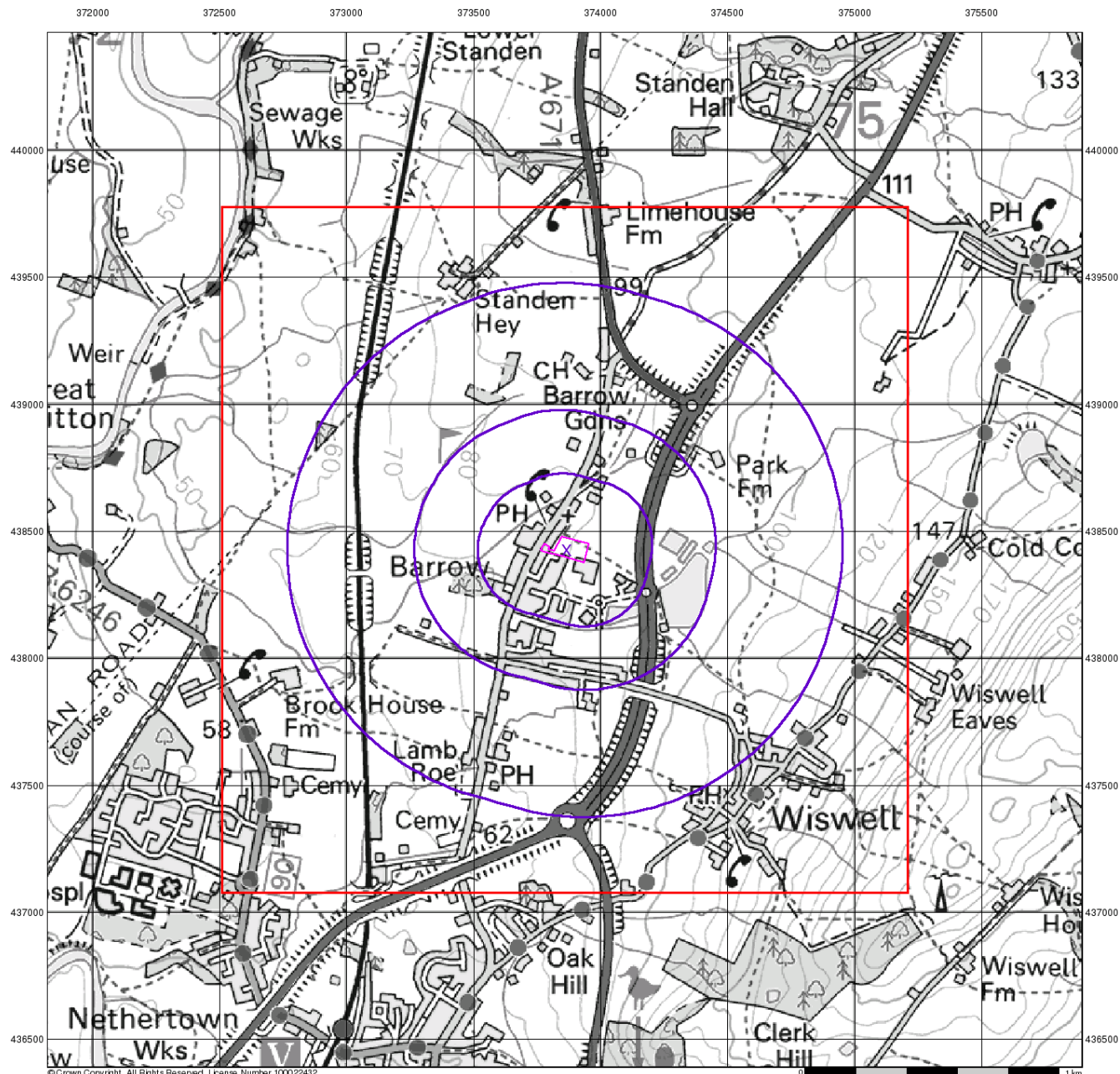
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 Customer Ref: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

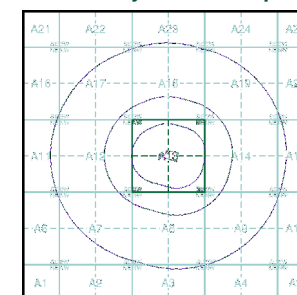
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- 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)
- Source Protection Zone Borehole

Site Sensitivity Context Map - Slice A



Order Details

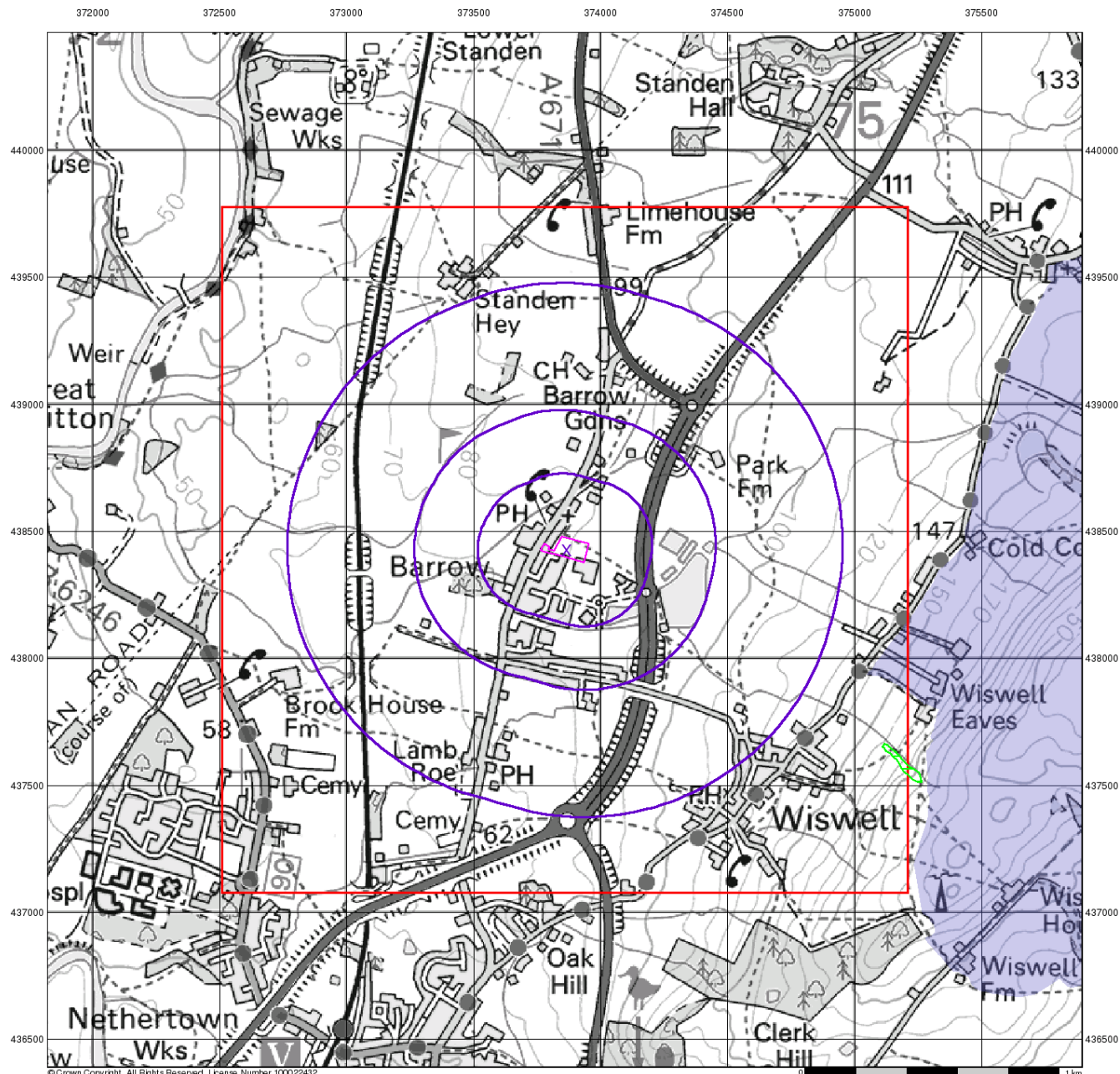
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Sensitive Land Uses

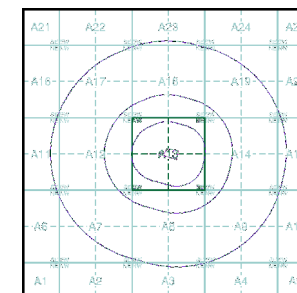
General

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

Sensitive Land Uses

- Area of Adopted Green Belt
- Area of Unadopted Green Belt
- Area of Outstanding Natural Beauty
- Environmentally Sensitive Area
- Forest Park
- Local Nature Reserve
- Marine Nature Reserve
- National Nature Reserve
- National Park
- Nitrate Sensitive Area
- Nitrate Vulnerable Zone
- Ramsar Site
- Site of Special Scientific Interest
- Special Area of Conservation
- Special Protection Area

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 77556483_1_1
 Customer Ref: J-D1704.00
 National Grid Reference: 373870, 438430
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Geology 1:50,000 Maps Legends

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay, Silt, Sand and Gravel	Flandrian - Flandrian
	TILLD	Till, Devensian	Diamicton	Devensian - Devensian
	RTD1	River Terrace Deposits, 1	Sand and Gravel	Quaternary - Quaternary

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	PRMT	Permian Rocks and Triassic Rocks (Undifferentiated)	Sandstone and Mudstone	Triassic - Permian
	SDSH	Sabden Shales	Mudstone and Siltstone	Kinderscoutian - Amsbergian
	PG	Pendle Grit Member	Sandstone	Pendleian - Pendleian
	PG	Pendle Grit Member	Siltstone and Sandstone	Pendleian - Pendleian
	WWG	Warley Wise Grit	Sandstone and Siltstone, Interbedded	Pendleian - Pendleian
	MG	Millstone Grit Group [See also Migr]	Mudstone, Siltstone and Sandstone	Namurian - Namurian
	BSG	Bowland Shale Formation	Mudstone	Yeadonian - Asbian
	BOH	Hodderense Limestone Formation	Limestone	Holkerian - Holkerian
	RKM	Rad Brook Mudstone Member	Mudstone	Holkerian - Holkerian
	PDL	Pendleside Limestone Formation	Limestone	Asbian - Holkerian
	PDL	Pendleside Limestone Formation	Mudstone	Asbian - Holkerian
	CLHOM	Clitheroe Limestone Formation and Hodder Mudstone Formation (Undifferentiated)	Mudstone	Holkerian - Chadian
	HOM	Hodder Mudstone Formation	Mudstone	Holkerian - Chadian
		Faults		



Geology 1:50,000 Maps

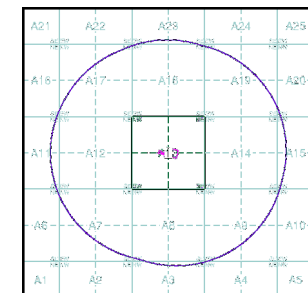
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	068
Map Name:	Clitheroe
Map Date:	1975
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

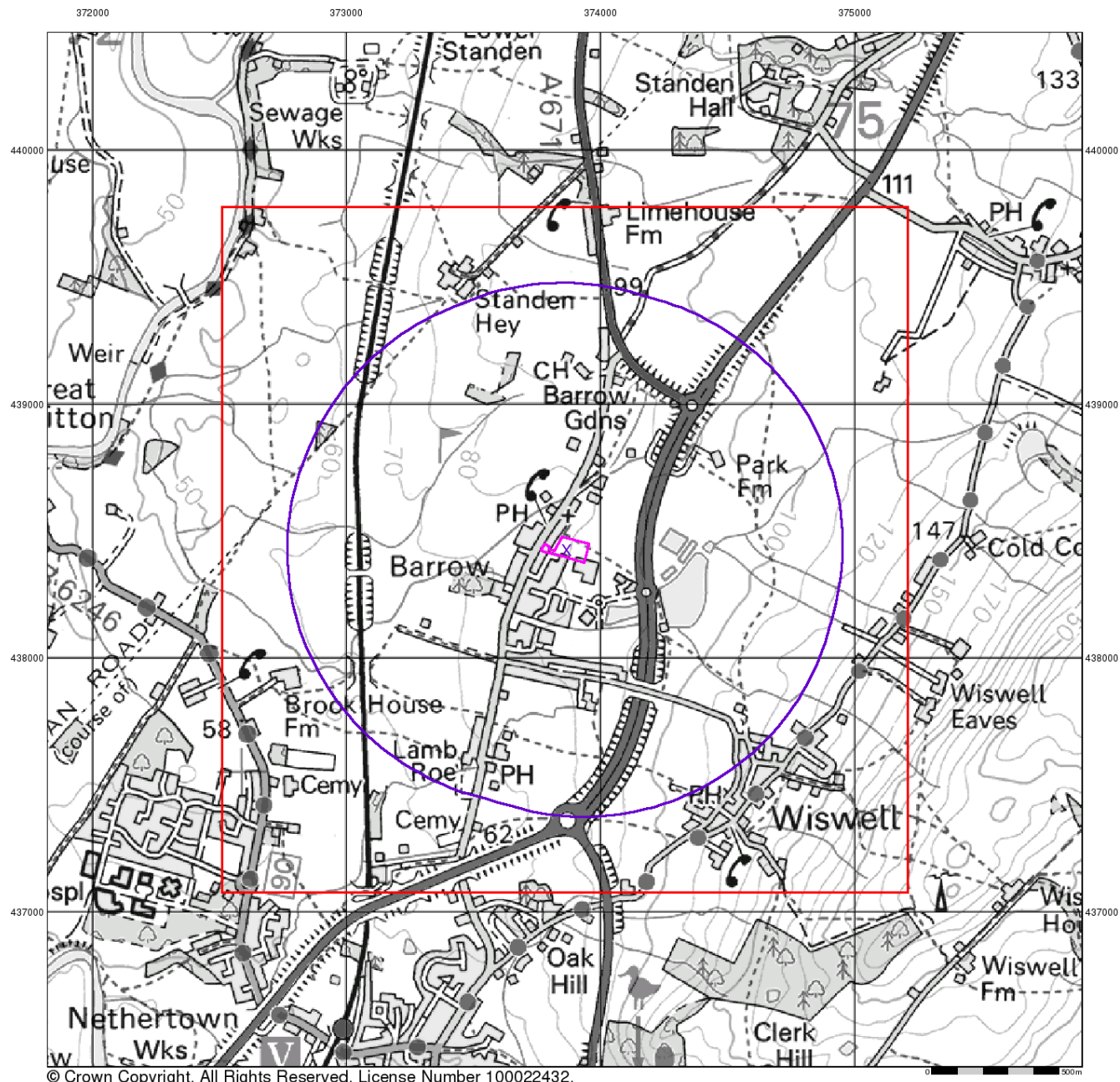
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Customer Reference:	J-D1704.00
National Grid Reference:	373870, 438430
Slice:	A
Site Area (Ha):	0.98
Search Buffer (m):	1000

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Artificial Ground and Landslip

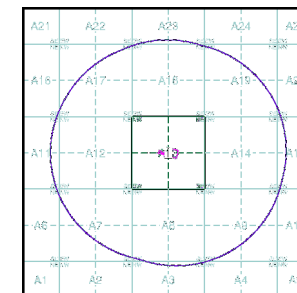
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions 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: 77556483_1_1
 Customer Reference: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details:

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



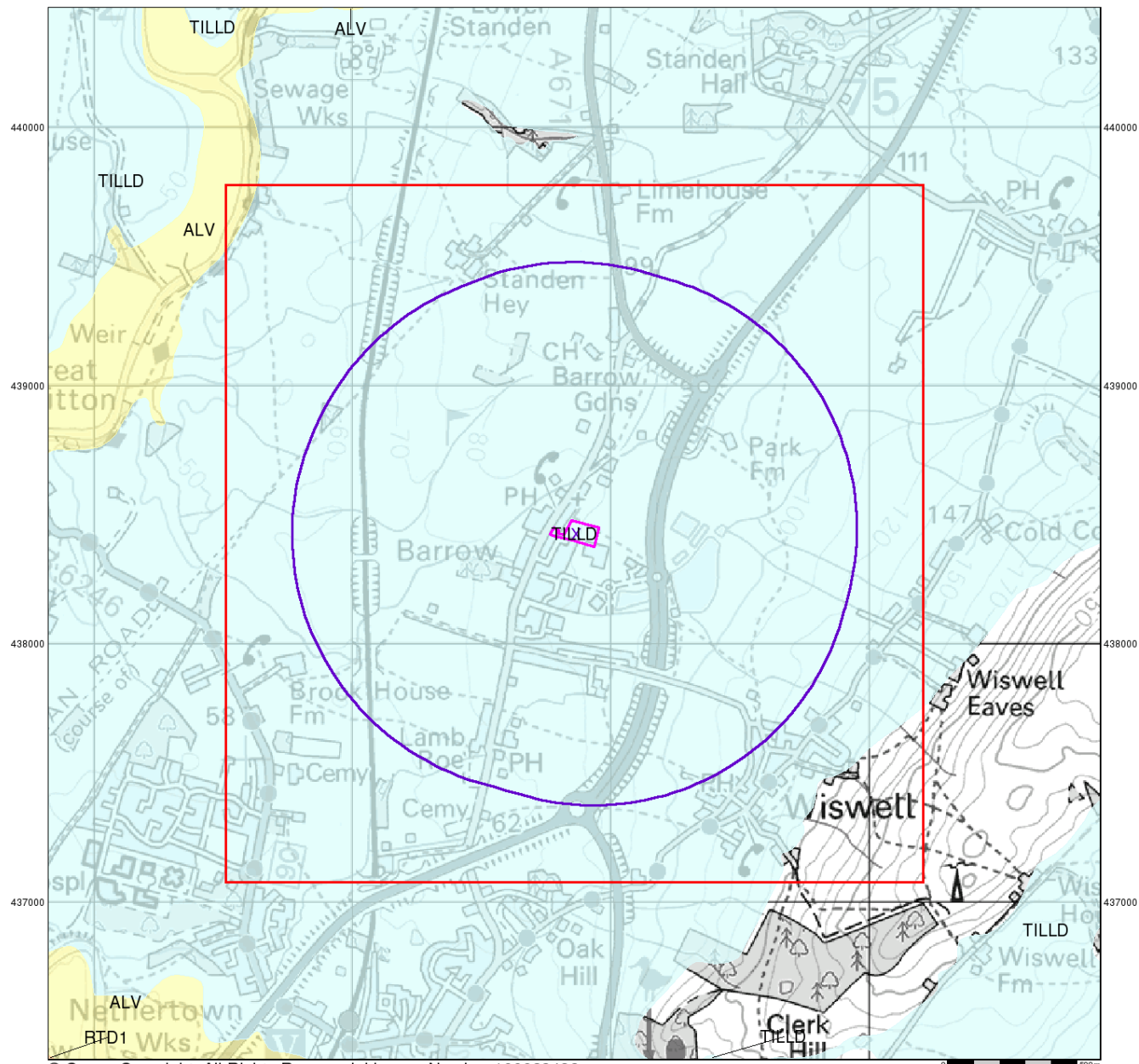
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373000

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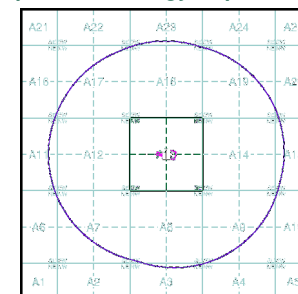
Superficial Geology

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:

Order Number: 77556483_1_1
 Customer Reference: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
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Site Details:

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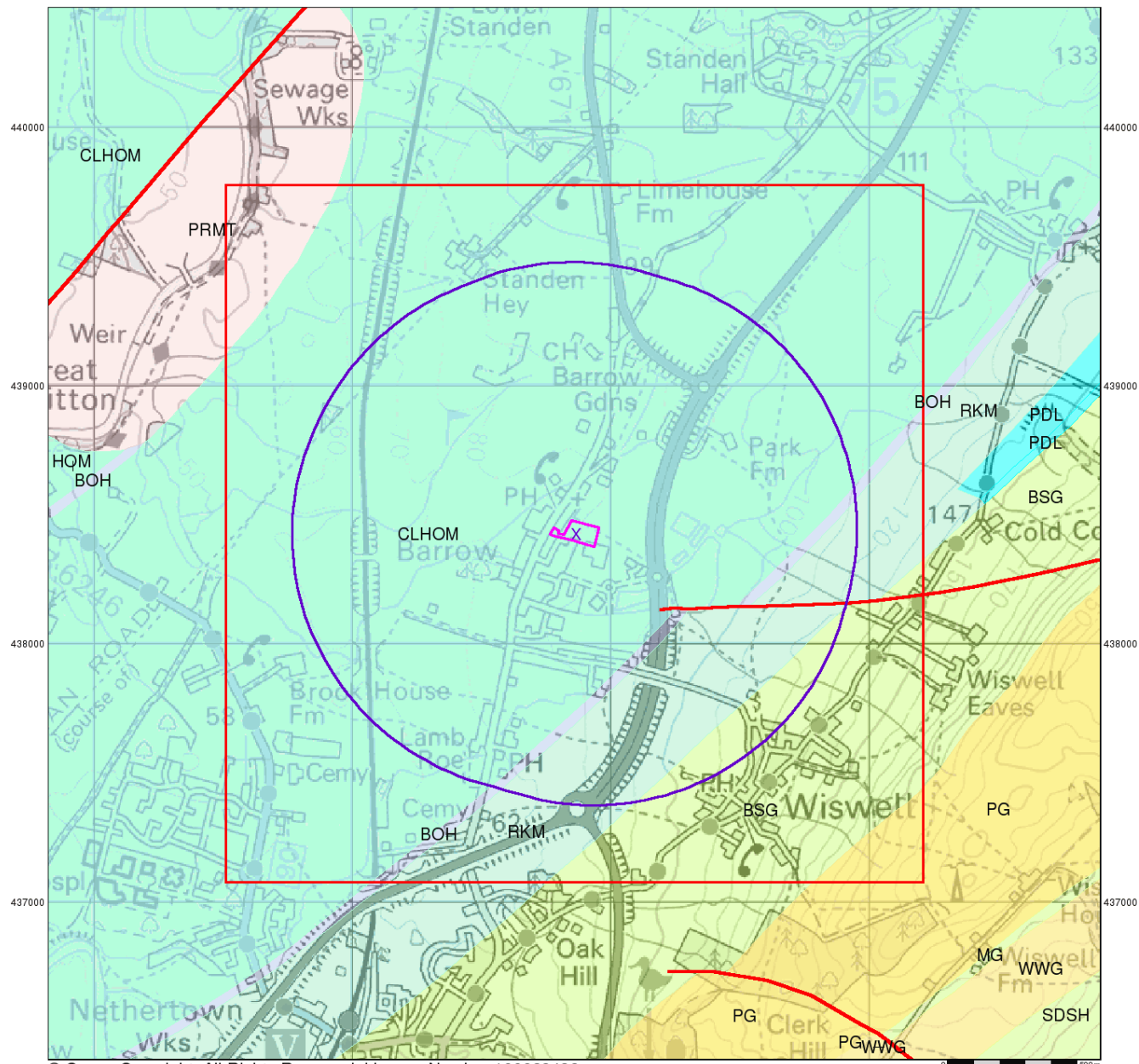
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OPUS

Bedrock and Faults

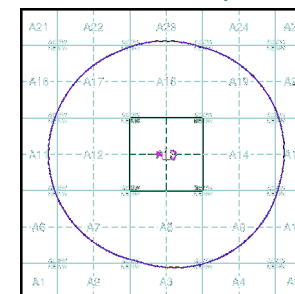
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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:

Order Number: 77556483_1_1
 Customer Reference: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details:

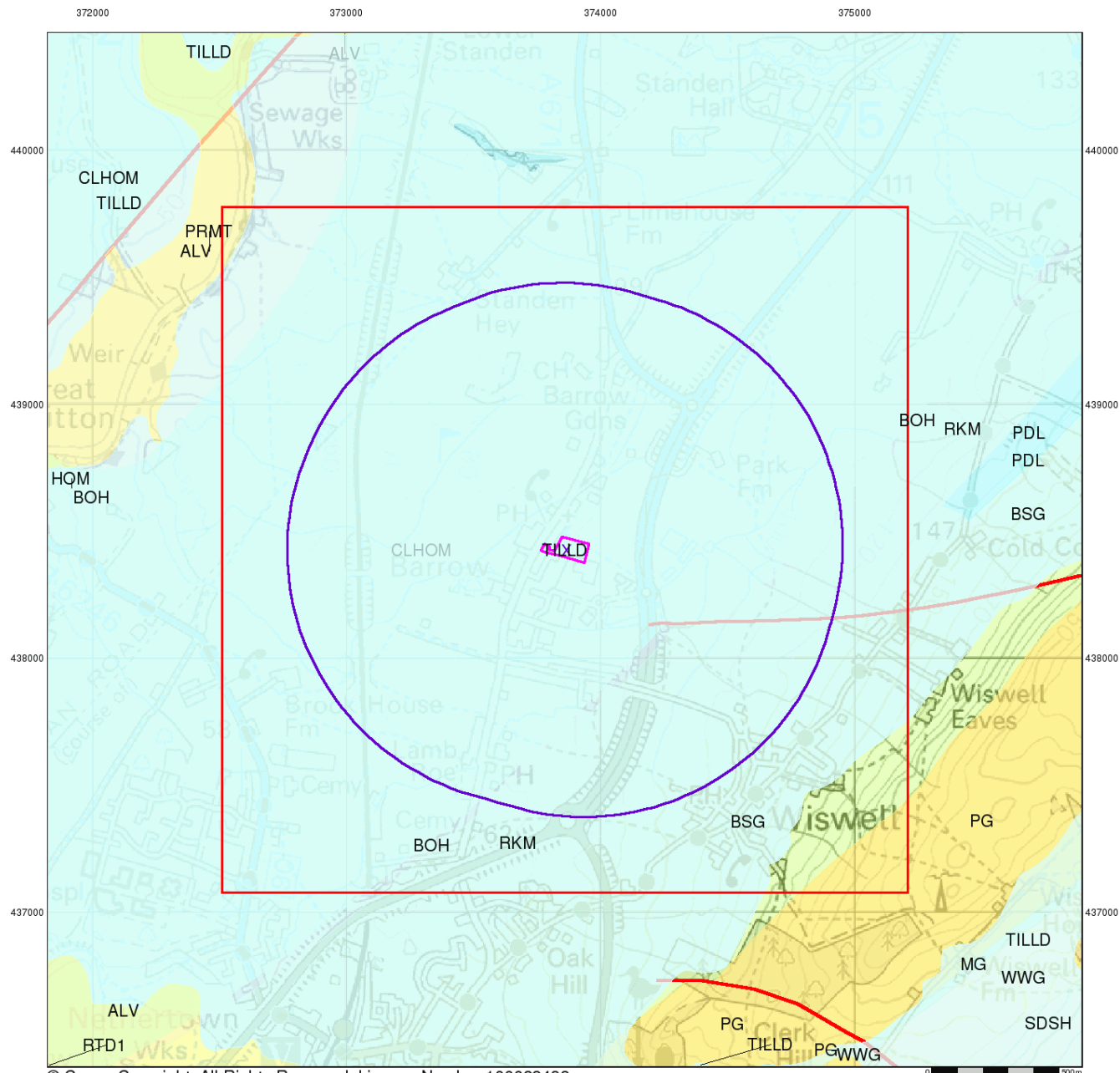
Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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v15.0 05-Jan-2016

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Combined Surface Geology

The Combined Surface Geology map combines all the previous maps into one combined geological overview of your site.

Please consult the legends to the previous maps to interpret the Combined "Surface Geology" map.

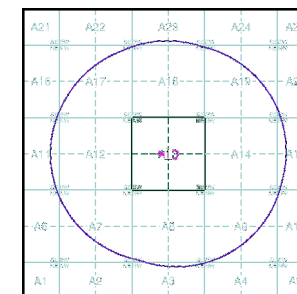
Additional Information

More information on 1:50,000 Geological mapping and explanations of rock classifications can be found on the BGS website. Using the LEX Codes in this report, further descriptions of rock types can be obtained by interrogating the 'BGS Lexicon of Named Rock Units'. This database can be accessed by following the 'Information and Data' link on the BGS website.

Contact

British Geological Survey
Kingsley Dunham Centre
Keyworth
Nottingham
NG12 5GG
Telephone: 0115 936 3143
Fax: 0115 936 3276
email: enquiries@bgs.ac.uk
website: www.bgs.ac.uk

Combined Geology Map - Slice A



Order Details:

Order Number: 77556483_1_1
Customer Reference: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details:

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

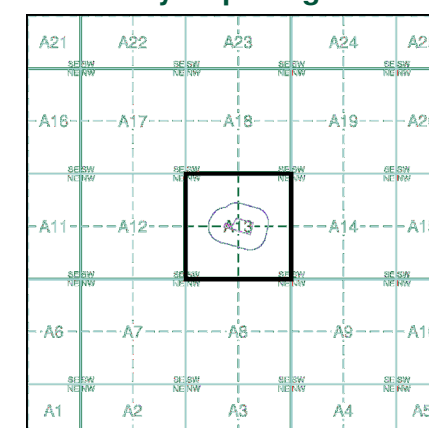
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Segment A13

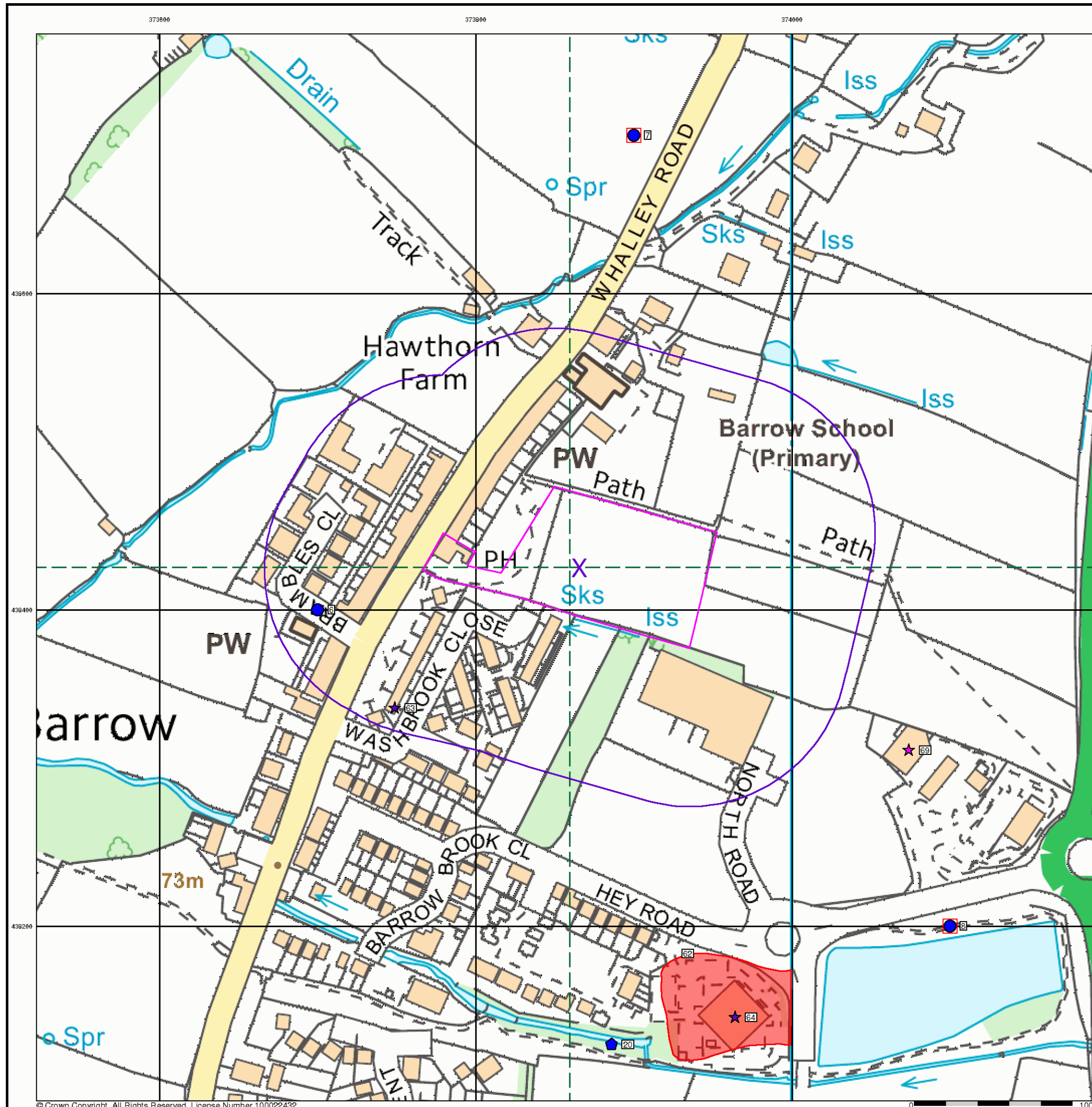


Order Details

Order Number: 77556483_1_1
 Customer Ref: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF





General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Map ID
- Several of Type at Location

Agency and Hydrological

- Contaminated Land Register Entry or Notice (Location)
- Contaminated Land Register Entry or Notice
- Discharge Consent
- Enforcement or Prohibition Notice
- Integrated Pollution Control
- Integrated Pollution Prevention Control
- Local Authority Integrated Pollution Prevention and Control
- Local Authority Pollution Prevention and Control
- Local Authority Pollution Prevention and Control Enforcement
- Pollution Incident to Controlled Waters
- Prosecution Relating to Authorised Processes
- Prosecution Relating to Controlled Waters
- Registered Radioactive Substance
- River Network or Water Feature
- River Quality Sampling Point
- Substantiated Pollution Incident Register
- Water Abstraction
- Water Industry Act Referral

Waste

- BGS Recorded Landfill Site (Location)
- BGS Recorded Landfill Site
- EA Historic Landfill (Buffered Point)
- EA Historic Landfill (Polygon)
- Integrated Pollution Control Registered Waste Site
- Licensed Waste Management Facility (Landfill Boundary)
- Licensed Waste Management Facility (Location)
- Local Authority Recorded Landfill Site (Location)
- Local Authority Recorded Landfill Site
- Registered Landfill Site
- Registered Landfill Site (Location)
- Registered Landfill Site (Point Buffered to 100m)
- Registered Landfill Site (Point Buffered to 250m)
- Registered Waste Transfer Site (Location)
- Registered Waste Transfer Site
- Registered Waste Treatment or Disposal Site (Location)
- Registered Waste Treatment or Disposal Site

Hazardous Substances

- COMAH Site
- Explosive Site
- NIHHS Site
- Planning Hazardous Substance Consent
- Planning Hazardous Substance Enforcement

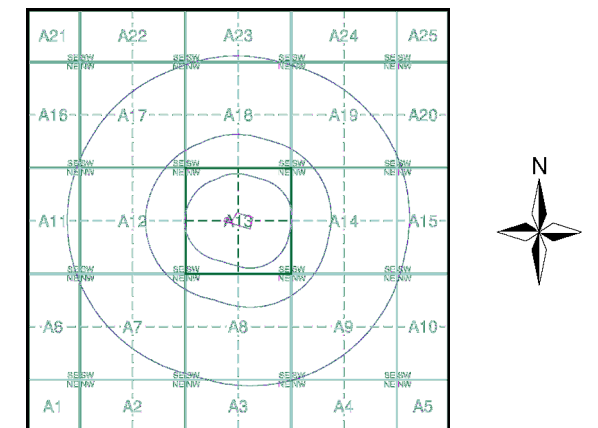
Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

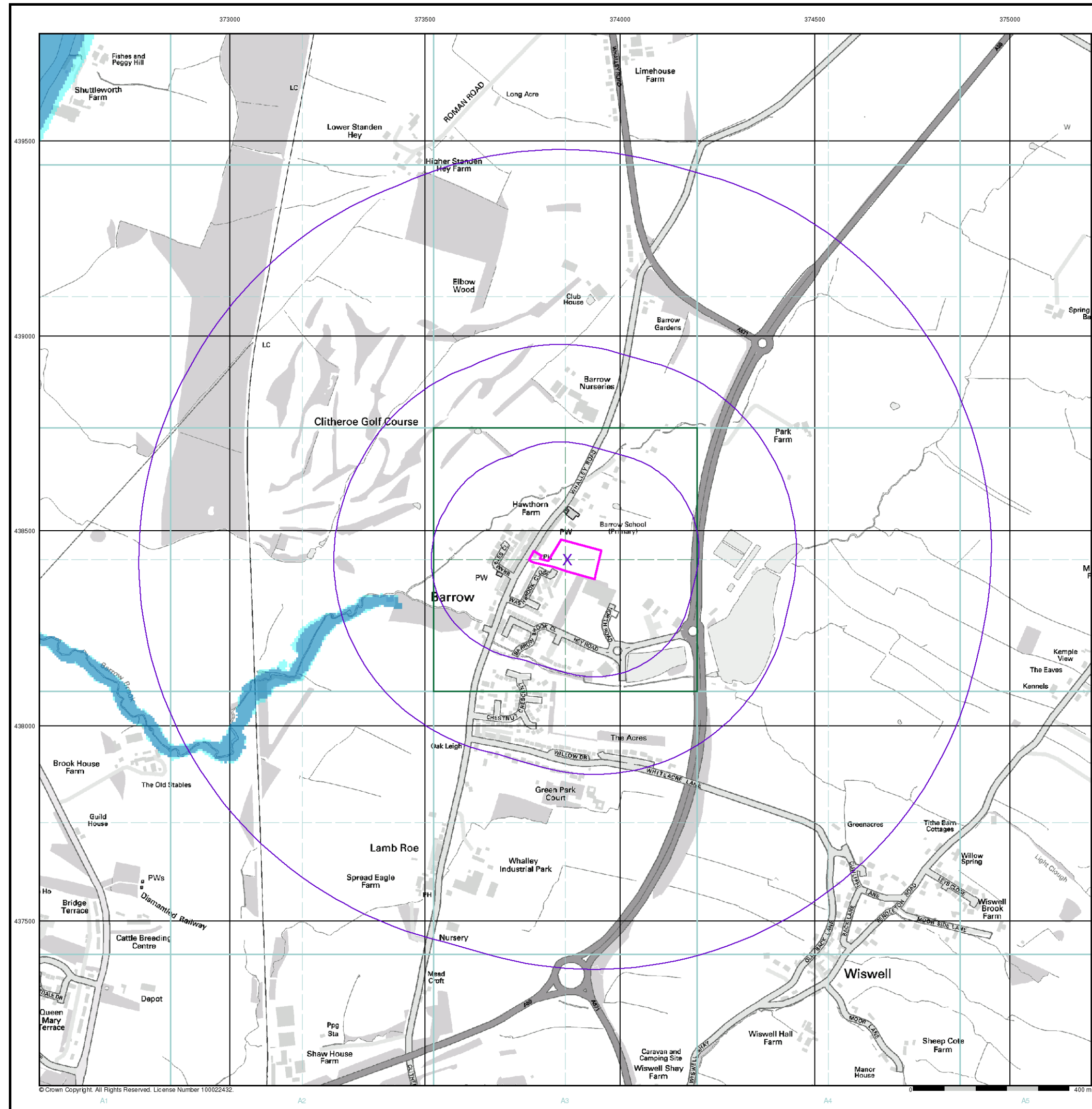
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Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

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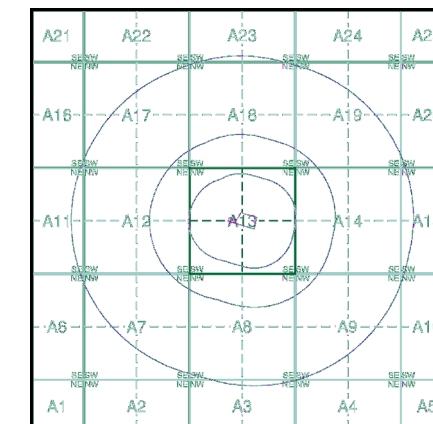
General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

Agency and Hydrological (Flood)

- Extreme Flooding from Rivers or Sea without Defences (Zone 2)
- Flooding from Rivers or Sea without Defences (Zone 3)
- Area Benefiting from Flood Defence
- Flood Water Storage Areas
- Flood Defence

Flood Map - Slice A



Order Details

Order Number: 77556483_1_1
 Customer Ref: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details

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General

-  Specified Site
-  Specified Buffer(s)
-  Bearing Reference Point
-  Map ID
-  Several of Type at Location

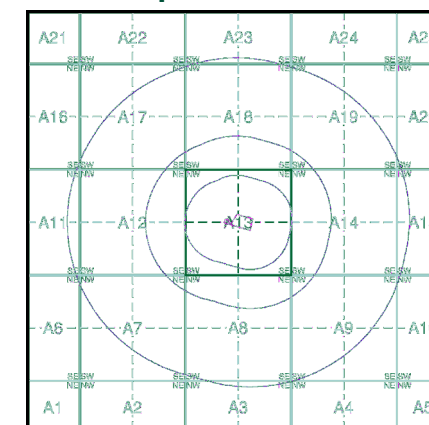
Agency and Hydrological (Boreholes)

-  BGS Borehole Depth 0 - 10m
-  BGS Borehole Depth 10 - 30m
-  BGS Borehole Depth 30m +
-  Confidential
-  Other

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

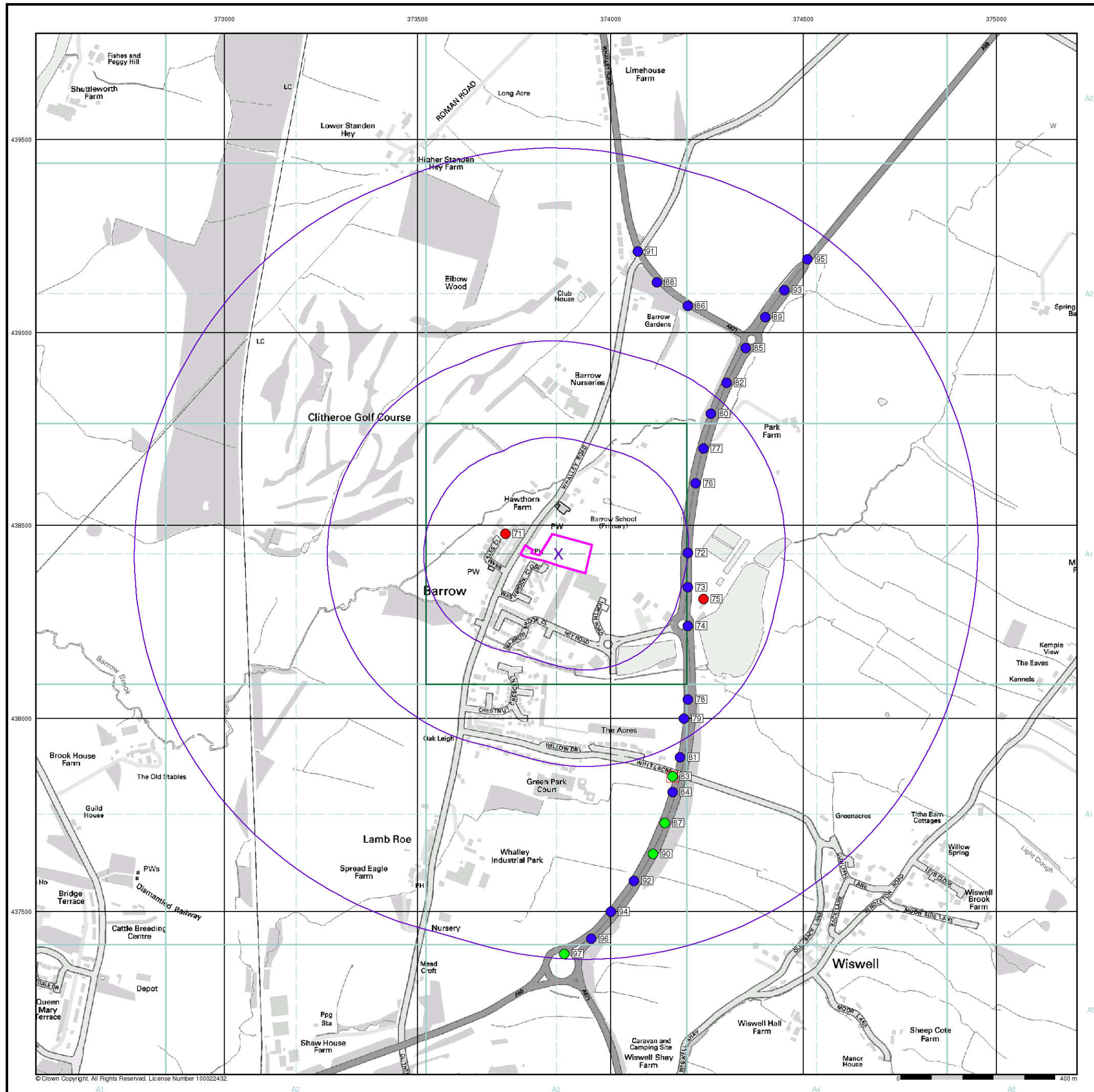


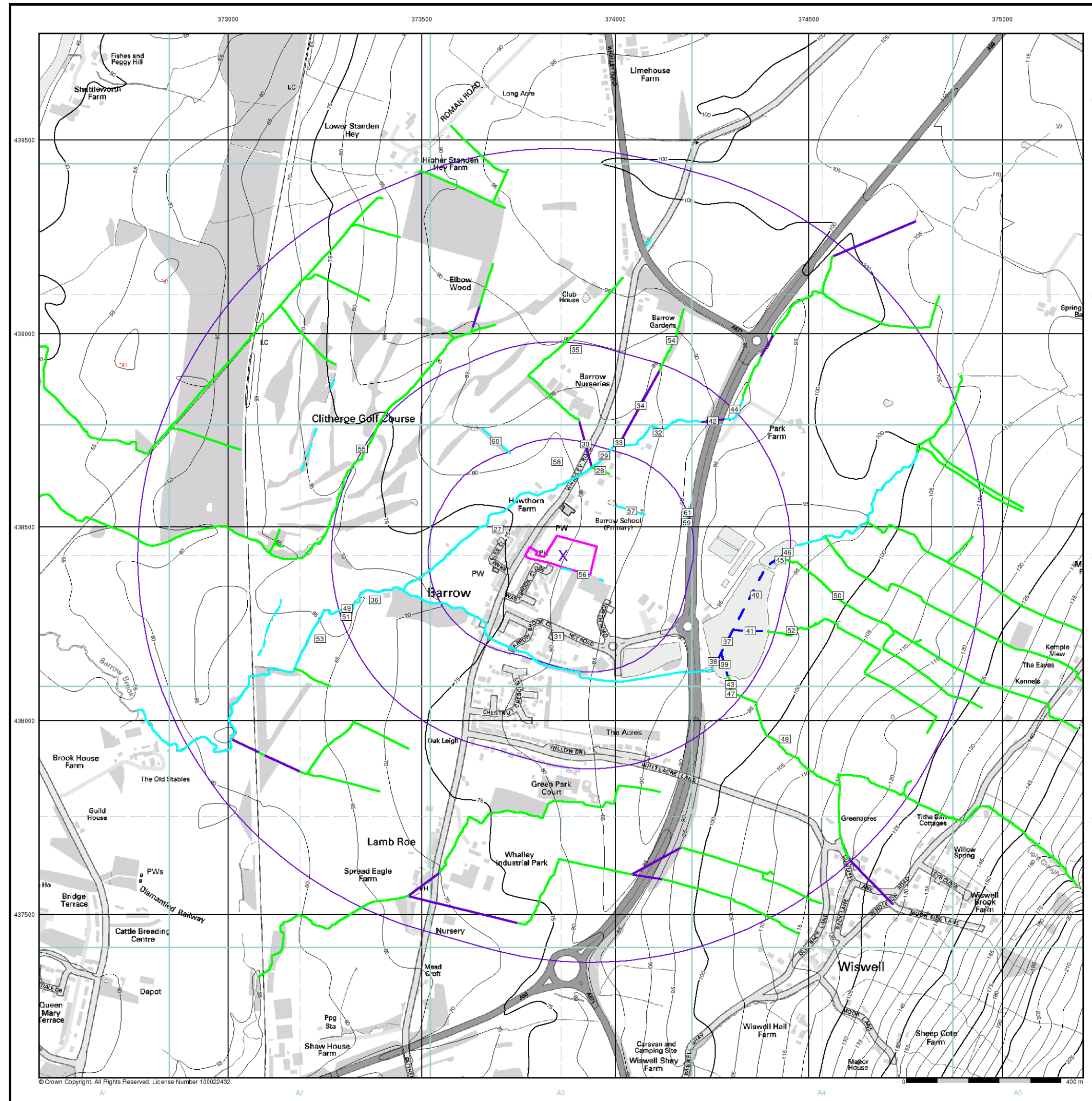
Order Details

Order Number: 77556483_1_1
 Customer Ref: J-D1704.00
 National Grid Reference: 373870, 438430
 Slice: A
 Site Area (Ha): 0.98
 Search Buffer (m): 1000

Site Details

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General

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

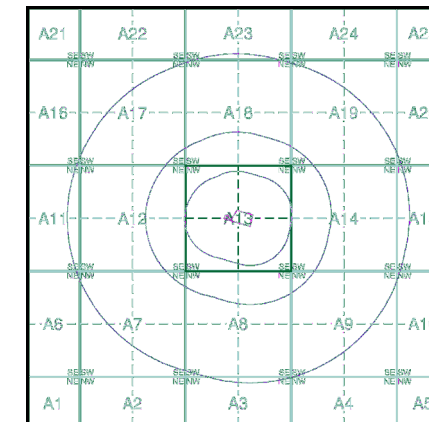
Detailed River Network Data

- Primary River
- Secondary River
- Tertiary River
- Canal
- Canal Tunnel
- Undefined River
- Lake/Reservoir
- Offline Drainage Feature
- Extended Culvert (greater than 50m)
- Underground River (inferred)
- Underground River (local knowledge)
- Downstream of High Water Mark
- Downstream of Seaward Extension
- Not assigned River feature

Contours (height in metres)

- Standard Contour
- Master Contour
- Spot Height
- MLW - Mean Low Water
- MHW - Mean High Water

E/NRW Detailed River Network Map - Slice A



Order Details

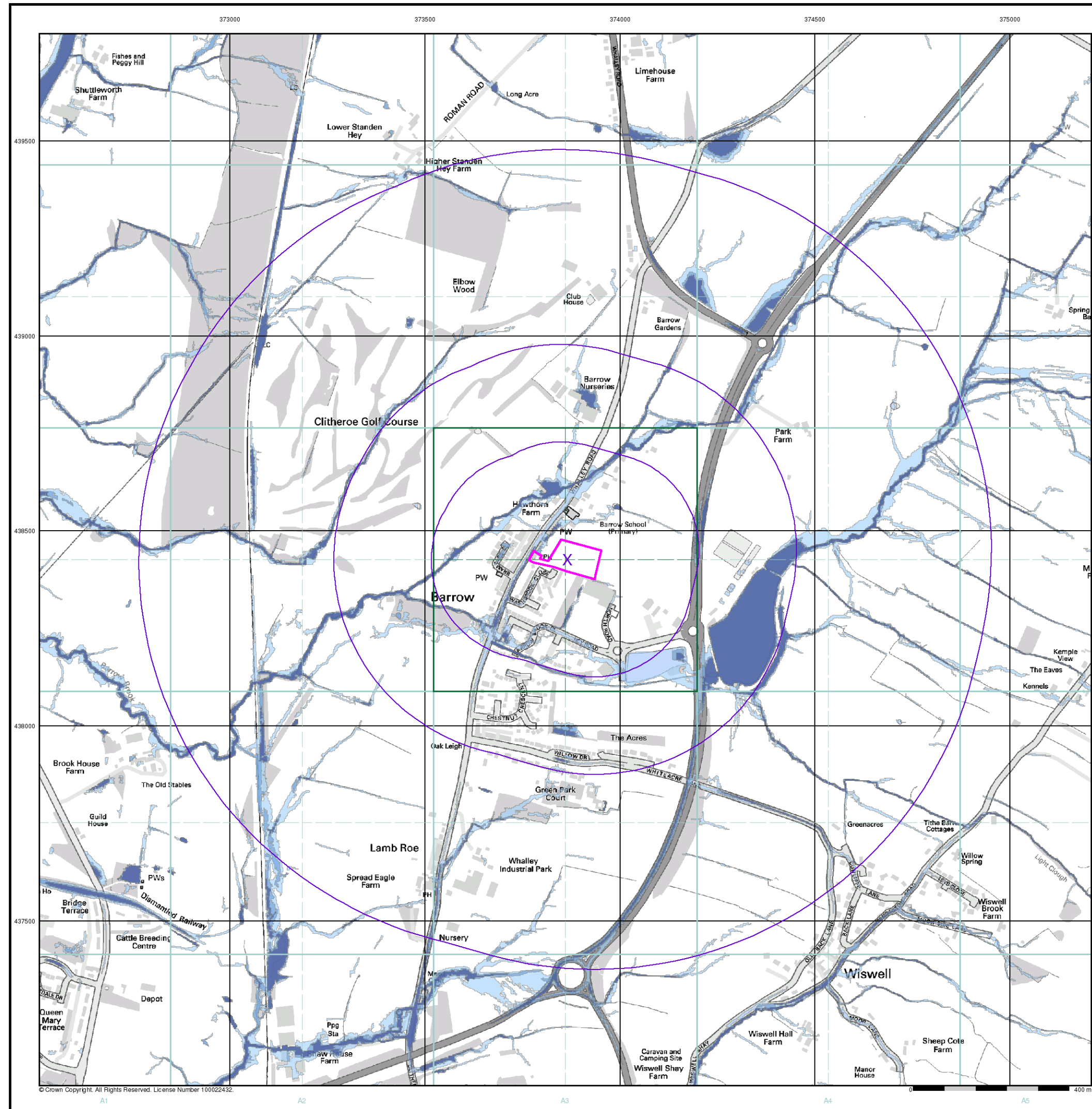
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Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

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General

- Specified Site
- Specified Buffer(s)
- Bearing Reference Point

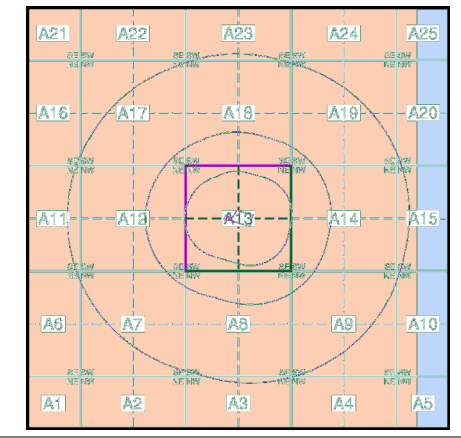
Risk of Flooding from Surface Water

- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

- See the suitability map below
- National to county
 - County to town
 - Town to street
 - Street to parcels of land
 - Property

E/NRW Suitability Map - Slice A



Order Details

Order Number: 77556483_1_1
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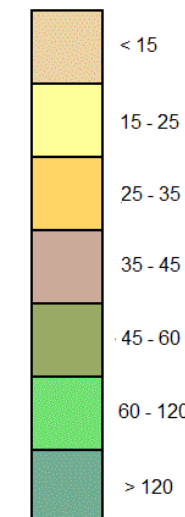


General

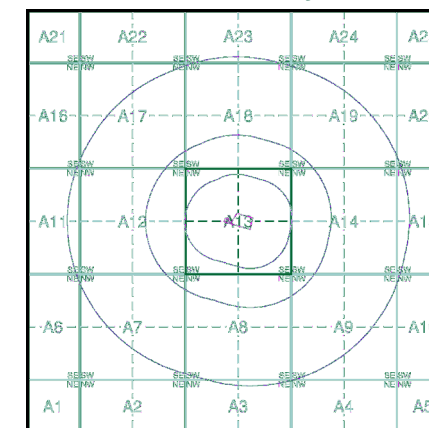
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Arsenic

Arsenic Concentrations mg/kg



Estimated Soil Chemistry Arsenic - Slice A



Order Details

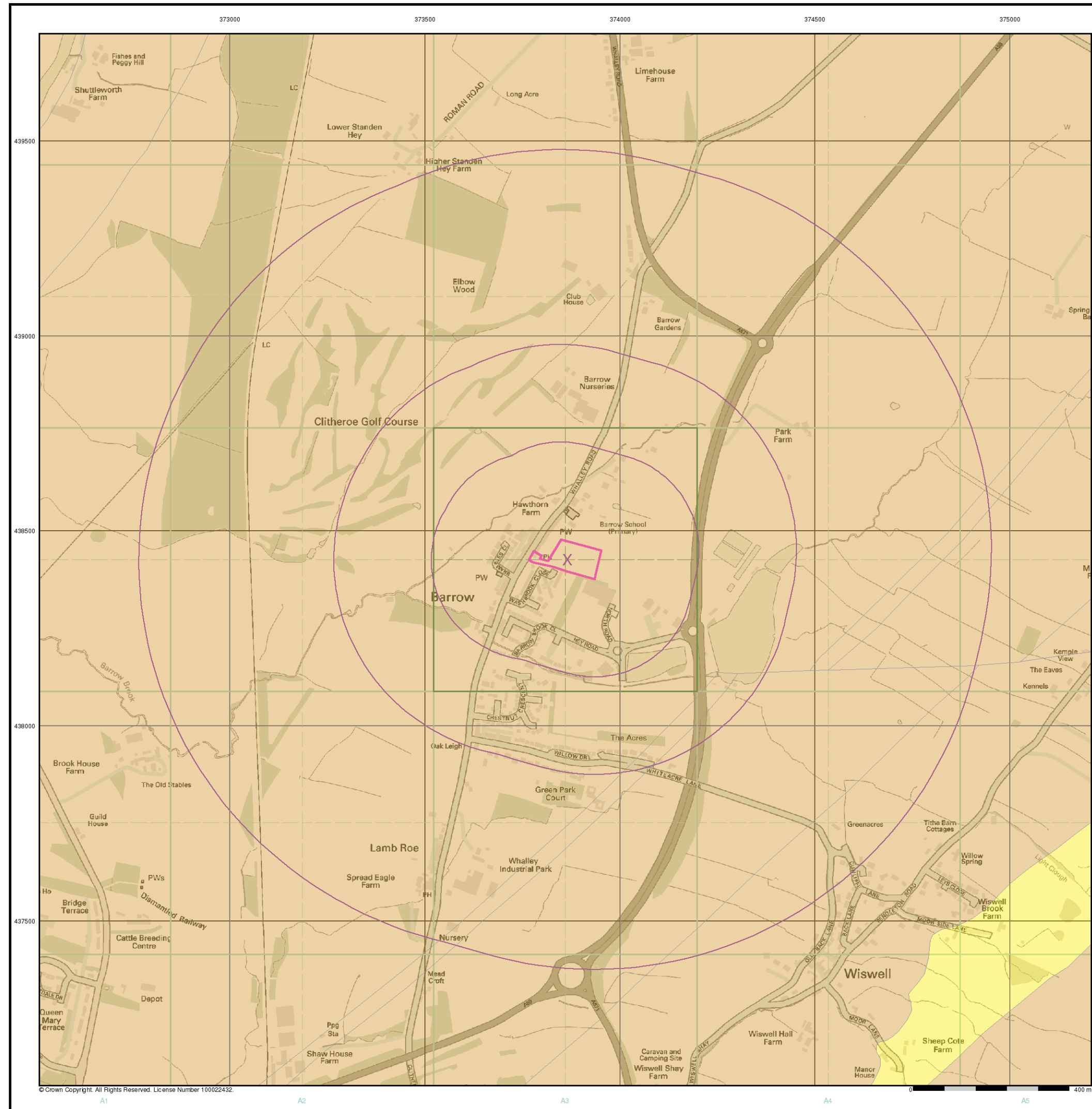
Order Details: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

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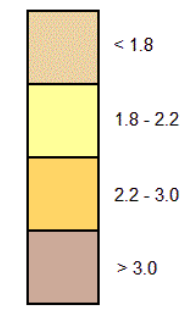


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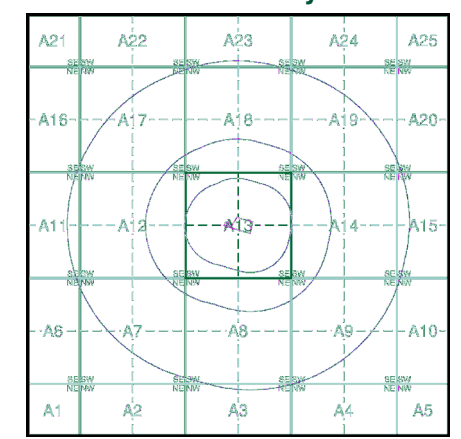
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Cadmium

Cadmium Concentrations mg/kg



Estimated Soil Chemistry Cadmium - Slice A



Order Details

Order Details: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF

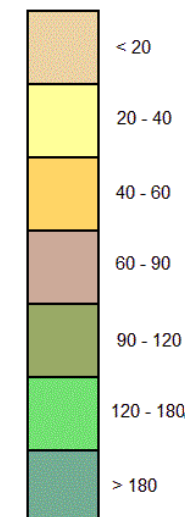


General

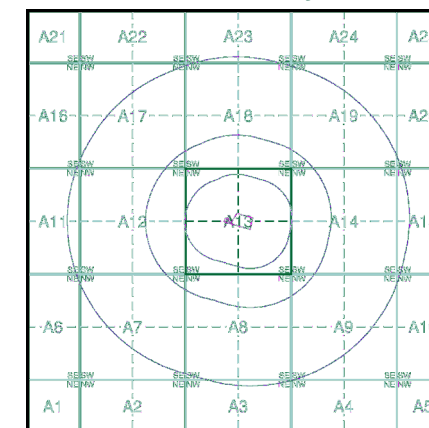
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Chromium

Chromium Concentrations mg/kg



Estimated Soil Chemistry Chromium - Slice A



Order Details

Order Details: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF



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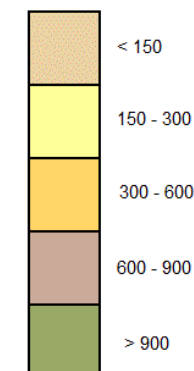


General

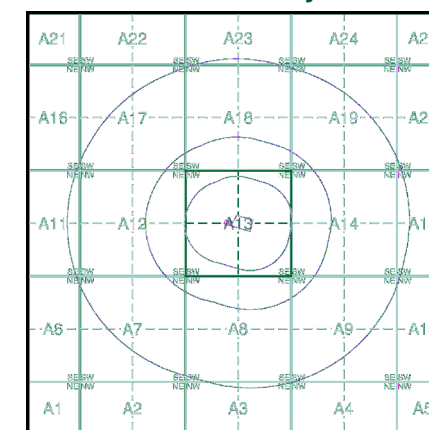
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Lead

Lead Concentrations mg/kg



Estimated Soil Chemistry Lead - Slice A



Order Details

Order Details: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

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Tel: 0844 844 9952
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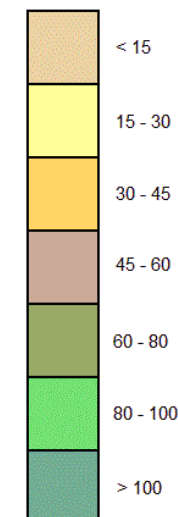


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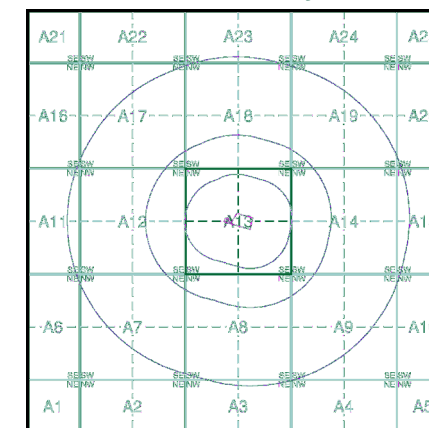
Specified Site Specified Buffer(s) Bearing Reference Point

Estimated Soil Chemistry Nickel

Nickel Concentrations mg/kg



Estimated Soil Chemistry Nickel - Slice A



Order Details

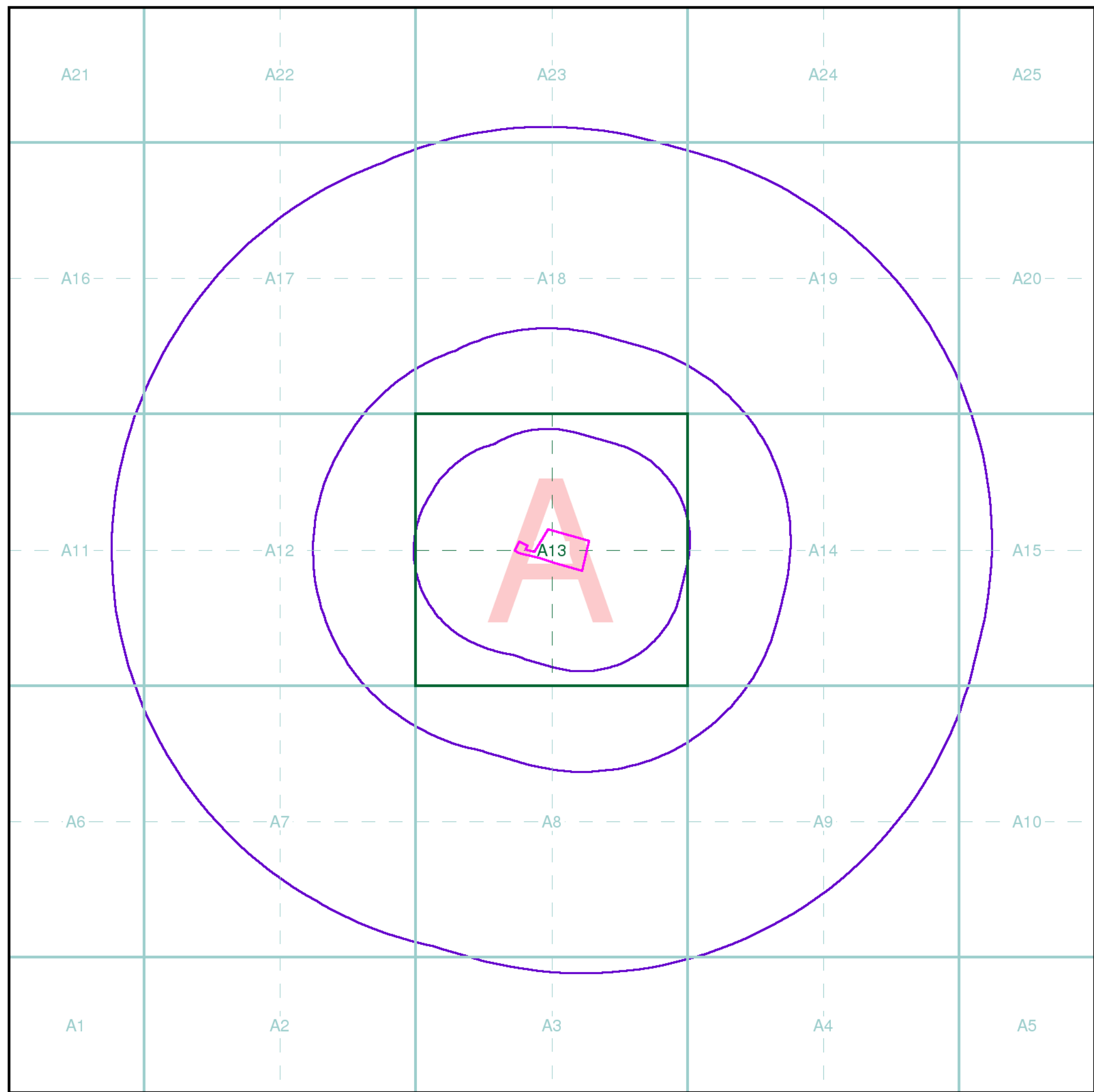
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Customer Ref: J-D1704.00
National Grid Reference: 373870, 438430
Slice: A
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

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Web: www.envirocheck.co.uk



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

Ms D Sykes, Opus International Consultants (UK) Ltd, 1-2 Aire House, Richmond Business Park, Sidings Court, Doncaster, South Yorkshire, DN4 5NL

Order Details

Order Number: 77556483_1_1
Customer Ref: J-D1704.00
National Grid Reference: 373880, 438430
Site Area (Ha): 0.98
Search Buffer (m): 1000

Site Details

Co-operative Insurance Society Ltd, Ribble Valley Enterprise Park, Holm Road, Barrow, CLITHEROE, Lancashire, BB7 9WF

Full Terms and Conditions can be found on the following link:
<http://www.landmarkinfo.co.uk/Terms/Show/515>



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

APPENDIX C

Site Walkover Photographs







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Ltd**

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Sidings Court
Doncaster, DN4 5NL
United Kingdom

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Registered in England & Wales
Company Reg. No: 2847568
Reg Office: Willow House, Brotherswood Court
Great Park Road, Bristol, BS32 4QW