

**DESKTOP GEOTECHNICAL AND
GEO-ENVIRONMENTAL SITE INVESTIGATION**

**LAND SOUTH OF NEW SMITHY AVENUE
THURLSTONE**

FOR

MR P. MULLINS

ISSUE 3



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17 January 2016

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P Richardson

Also at: Pearson Court, 3 Kings Road, Fleet, GU51 3DL Tel: 01252 360 580 Fax: 01252 360581

Directors: **P Richardson** BSc, CEng, MICE, MStructE **S D Preston** BEng, CEng, FICE, FStructE **N J Baines** BSc, CEng, MICE, MCIWEM
M J Yates BSc(Eng), ACGI, CEng, MICE, FStructE **S R Ellis** BEng, CEng, MStructE, AMICE **K R Pursall** BEng, CEng, MStructE
C A Topliss BSc, CEng, CSci, CGeol, SiLC, AMICE, FGS **S J English** BEng, CEng, MStructE **A R Priest** BEng
Senior Associates: **K Newsome** BSc, CEng, MICE, MStructE **S J Mitchell** BSc, MSc, CEng, MEI, MCIBSE, MASHRAE **A Allison** BEng
A Jones BEng, CEng, MICE, MStructE **M Young** MA, CEng, MICE, MStructE **C A Wood** BSc, CEng, MStructE, AMICE
Associates: **K Edwards** MSc, FGS **A J Kerslake** BEng **A G Marshall** BEng, CEng, MStructE **C Hodge** EngTech, TMICE
P Harrison BEng, CEng, MStructE **M P Chappell** BEng, IEng, AMStructE **P H Halberstadt** MEng, ACGI, CEng, MICE
Consultants: **G M Seaman** BSc, CEng, FICE, FStructE **J M Wood** BSc, CEng, MICE, FStructE

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Envirocheck Report

Coal Authority Mining Report

EXECUTIVE SUMMARY

1. This report presents the findings of a desktop geotechnical and geo-environmental site investigation carried out by Eastwood & Partners (Consulting Engineers) Limited for, and on the instructions of, Mr P Mullins.
2. The site is located to the south of New Smithy Avenue in Thurlstone, near Penistone, South Yorkshire, centred on National Grid Reference 423190, 403510. It is proposed to develop the site with residential dwellings.
3. The site is currently an undeveloped field with trees and hedges bordering it, with a small separate garden area in the south east. The only development on the site in the past was a single building, possibly a barn or residential dwelling, in the east of the site. The surrounding area has been a combination of agricultural, residential and commercial/industrial uses. The commercial/industrial uses include quarries, mills, a blacking works and timber yard..
4. The geology at the site comprises the Grenoside Sandstone of the Pennine Lower Coal Measures. No superficial deposits are shown to be present. Significant amounts of made ground are not expected to be present.
5. The site is not considered to be at risk from shallow mining.
6. The site overlies a Secondary A Aquifer but is not within a groundwater source protection zone.
7. There are no landfill sites within 250 m of the site.
8. No radon precautions will be required at the site.
9. Strip or trench fill foundations taken through any made ground and onto the natural ground are expected to be appropriate for the proposed development. If clay is encountered and trees are located within influencing distance, the foundations will require deepening and construction in accordance with NHBC Standards Chapter 4.2.
10. Where less than 600 mm of made ground is present and the footing depth due to trees is less than 1.5 m, ground bearing slabs may be considered. Elsewhere, reinforced suspended slabs or precast concrete floors with a ventilated void should be used.
11. It is unlikely that any of contamination will be encountered. However, allowance should be made at this stage for installing a 600mm thick capping layer wherever made ground is

present. An intrusive investigation is recommended to confirm the extent of made ground that is present.

12. At this stage we recommend that Class 2 precautions are allowed for in below ground concrete as a minimum.
13. Testing has shown that soakaway drainage will be viable within the natural sandstone. The results of the testing will be included in our Phase 2 site investigation report which is currently underway.
14. Before more definite information regarding the properties of the ground and any contamination present can be given, an intrusive ground investigation will be required. A Phase 2 investigation has been undertaken, and the results will be reported on in due course.

1.0 INTRODUCTION

1.1 Terms of Reference

This report presents the findings of a Phase 1 geotechnical and geo-environmental site investigation carried out by Eastwood and Partners (Consulting Engineers) Limited for, and on the instructions of Mr P. Mullins. Any other parties using the information in this report do so at their own risk and any duty of care is excluded.

1.2 Context

Eastwood & Partners are not aware of any other site investigations which may have been undertaken on the site or on the surrounding land in the past.

1.3 Aims and Objectives

The aims and objectives of this investigation were as follows.

- To assimilate and review information extracted from published documentation to derive an outline conceptual model identifying potential contaminants, pathways and receptors, as well as possible linkages between these;
- To detail the expected ground conditions and their geotechnical properties enabling outline foundation proposals to be made for the proposed residential units;
- Carry out preliminary risk assessment to establish the likely risks to future receptors,
- Identify likely feasible remediation options if risks are highlighted; and
- To outline proposals for further Phase 2 intrusive investigation, if required, the purpose of which would be to obtain information to test the conceptual model and assess the risks to receptors as well as to confirm the foundation proposals.

1.4 Scope of Investigation

Information regarding the current and former land uses both on and surrounding the site, as well as the environmental sensitivity of the site location as determined by factors including geology, hydrogeology and hydrology have been examined.

Information analysed in this section of the report has been obtained from a variety of sources and included the following:

- Aerial and street view imagery of the site;
- A Landmark Envirocheck Report;
- Geological Maps and associated geological memoirs; and
- A Coal Authority Mining Report.

1.5 Limitations of Investigation

This report is based on the assumption that the site will be developed with residential dwellings which will be low rise, and of conventional construction with private gardens as well as communal areas of hard and soft landscaping. It is assumed that existing ground levels will not alter significantly. If this is not the case, then the advice given in this report may not be appropriate. We have not visited the site prior to the preparation of this report.

Where assessments of site areas affected in particular ways are given, these are approximate. All information, comments and opinions given in this report are based on the documentary information examined.

This report considers the ground and groundwater and does not cover any buildings or their fabric. Risks to ecological receptors, such as bats, have not been considered.

The conclusions made in this report in relation to contamination are subject to agreement by the approving bodies and any warranty provider, and may be subject to confirmation by intrusive investigation.

2.0 THE SITE

2.1 Site Description

The site has an area of approximately 0.9 hectares and is located to the south of New Smithy Avenue in Thurlstone, near Penistone, South Yorkshire. The site is approximately rectangular on plan, with its long axis being orientated east to west, and is centred on National Grid Reference 423190, 403510.

The site is currently an undeveloped, grassed field, with a small separate grassed garden area in the south eastern corner, separated from the main site by a dry stone wall. It slopes down to the south east at a gradient of around 1 in 28 with a reduction in level of around 10 m from the north west to the south eastern corners. Trees and hedges are present along the site boundaries.

The site is bordered by residential properties to the north, east and south and by open fields to the west.

2.2 History

Historical Ordnance Survey maps, obtained as part of the Envirocheck Report, have been reviewed to assess the previous use of the site and surrounding area. Copies of the maps are presented in Appendix 1.

2.2.1 The Site

The earliest map reviewed is the 1851 1:10,560 scale map. This shows the site to occupy part of three fields.

By 1931, a rectangular building, possibly a barn or cottage, is shown in the north eastern part of the site. This remains until circa 1969.

No changes are then observed on the historical maps. Aerial imagery of the site shows the field boundaries were removed at some point between 2003 and 2009 and the site became one large field.

2.2.2 The Surrounding Area

The earliest map reviewed, dated 1851, shows the surrounding area to be predominantly agricultural, with residential properties, forming the village of Thurlstone located to the east and south of the site. A sandstone quarry is labelled approximately 150 m west of the site, the River Don

is present around 100 m south of the site and beyond this a railway line is present, around 200 m south of the site. Two mills are noted along the River Don, both around 250 m from the site.

The outline of the quarry is shown more clearly on the subsequent map of 1893 where its eastern extent can be seen to be adjacent to the south west corner of the site. A Blacking Works is also shown around 100 m south of the site along a mill race. Further south an old quarry is labelled approximately 180 m from the site. This is not shown on any subsequent maps. A timber yard is present approximately 80 m south of the site, adjacent to the River Don on the following map, dated 1906.

By 1931 the development of the surrounding area increases. This is predominantly small pockets of residential development, with associate infrastructure. Another quarry is identified approximately 300 m south of the site. A tank is shown associated with the farm buildings located adjacent to the eastern boundary of the site from 1960.

Residential development then increases in the 1960s and the site becomes enclosed on three sides with residential properties by the 1980s. No significant changes are then observed on the historical maps.

2.3 Geology

The geological maps for the area, Sheet 273 SE (1:10,560 scale) indicates the strata beneath the site to comprise strata of the Pennine Lower Coal Measures. In particular, the Grenoside Sandstone is indicated directly below the site. The strata are indicated to dip gently towards the north east at a very shallow angle.

No alluvial or other superficial deposits are indicated to be present on the site.

No faults or other lines of weakness are shown to cross the site. A fault is conjectured around 100 m to the east, however.

2.4 Hydrogeology

2.4.1 Groundwater Vulnerability

Under the Environment Agency's aquifer designations, the solid geology below the site is classified as a Secondary A Aquifer. This is defined 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 which were formerly classified as minor aquifers.

2.4.2 Groundwater Abstractions

There are no groundwater abstractions within 500 m of the site.

Information within the Envirocheck Report also states that the site does not lie within a groundwater Source Protection Zone.

2.5 Hydrology

The Envirocheck Report records the nearest surface water feature to be located around 69 m south of the site. This is a disused mill race. The nearest major surface watercourse is the River Don located approximately 80 m south of the site at its nearest point.

2.6 Mining

According to the geological maps, the nearest seam of coal recorded to outcrop is the Grenoside Sandstone Coal, around 220 m north of the site. However, the coal is stratigraphically above the Grenoside Sandstone, and therefore this seam will not be present below the site.

The shallowest coal anticipated to be present is the Upper Band Coal, which is expected at around 65 m below ground level. This seam is generally recorded as being thin and no records of workings are provided in the geological memoirs. Therefore, a significant risk is not considered to be presented to the proposed development.

A Coal Authority mining report has been obtained for the site, and this states that the site is not within a surface area that could be affected by past or present underground coal mining. No seams of coal are expected to be present at shallow depth.

The site is also not within an area where the Coal Authority is determining whether or not to grant a license to extract coal. However, reserves of coal exist in the local area which could be worked at some time in the future subject to planning consents. We consider this unlikely given the demise of the UK coal mining industry.

There are no mine shafts shown on or within 20 m of the site and there are no records of any past opencast workings having been undertaken on the site.

In conclusion, the site is not at risk from the effects of past mining activities.

2.7 Ground Gas

The Envirocheck report does not list any active or historical landfill sites within 250 m of the site.

The former quarry to west of the site is not recorded as a landfill site. The quarry does not appear to have been backfilled, as its outline can still be seen on modern mapping and imagery. Therefore this feature is not considered to pose a risk of ground gas generation or migration.

There are two other areas of potentially infilled land within 250 m of the site. Both are identified on the 1989 historical map. The first is 171 m south of the site and is believed to refer to a cutting in the now dismantled railway. As the cutting is still present on the most recent mapping (dated 2016) this is not believed to have been backfilled and thus does not pose a risk of gas migration onto the site. The second is 194 m west of the site and is believed to refer to a former quarry which was noted on the early historical maps. This was labelled as old by 1894, and was not shown after this time. Although this quarry is likely to have been backfilled, it is unlikely that biodegradable wastes were used within the fill at that time, and due to the age of the fill, any ongoing gas generation is likely to have subsided by now. At over 190 m from the site, the risk of gases migrating onto the development site is considered to be negligible.

The site is therefore not considered to be at risk from landfill gas migration.

Information contained within the Envirocheck Report also states that radon precautions will not be required for properties constructed at the site.

2.8 Pollution Incidents to Controlled Waters

The Envirocheck Report lists four pollution incidents within 250 m of the site. These are summarised in the table below:

Distance from site	Direction	Date	Pollutant	Receiving water	Category
96 m	SE	08/11/1992	Unknown	Stream/river	3 (minor)
155 m	SE	05/02/1996	Not Given	Stream/river	3 (minor)
159 m	SE	05/02/1996	Unknown	Stream/river	3 (minor)
182 m	S	21/09/1996	Sewage	Stream/river	2 (significant)

These are not expected to have significantly affected the ground/groundwater below the site.

2.9 Discharge Consents

The Envirocheck Report records two active discharge consents within 250 m of the site. These are located 196 m and 200 m south of the site and both are operated by Yorkshire Water for the discharge of sewage storm effluent to the River Don. These are not expected to affect the site.

2.10 Flooding

Information provided in the Envirocheck Report shows that the site does not lie within an indicative flood plain. A Zone 2 flood plain is located around 76 m south of the site, and a Zone 3 flood plain is around 78 m south. These both relate to the River Don.

2.11 Soil Geochemistry

The soil geochemistry maps included in the Envirocheck estimate the following concentrations of arsenic, cadmium, chromium, nickel and lead to be present in the natural soil at the site:

Contaminant	Estimated Concentration (mg/kg)	Assessment Value (mg/kg)
Arsenic	15-25	37
Cadmium	<1.8	11
Chromium	60-90	910
Lead	<150	200
Nickel	15-30	180

Concentrations of these contaminants are not therefore expected to be elevated within the natural ground.

3.0 EXPECTED GROUND CONDITIONS

On the basis of information presented on the historical Ordnance Survey Maps and geological and hydrogeological maps, it is anticipated that the natural ground at the site will comprise sandstone which is likely to have weathered to sand or clayey sand near to the surface. This is likely to be overlain by a layer of topsoil.

The only development on the site in the past was a single building, possibly a barn or farm cottage, in the east of the site. There may therefore be made ground present in the area around the former building, arising from its demolition. This is not anticipated to have spread over a large area of the site and is not expected to be of significant thickness, unless cellars are present.

The River Don is relatively close to the site. However, the river level is significantly lower than that of the site, and therefore there is not likely to be a continuity in the ground water level between the river and the strata beneath the site. Shallow groundwater is therefore not expected to be encountered.

4.0 GEOTECHNICAL APPRAISAL

4.1 General

The natural ground beneath the site is likely to comprise sand or clayey sand over sandstone. Made ground may be present overlying this in the eastern area of the site.

4.2 Foundations

It is anticipated that strip or trenchfill foundations taken through any made ground onto the underlying natural ground will be appropriate at a likely minimum depth of 750 mm below current or proposed ground level, whichever is the lower.

As the ground is expected to be granular over the majority of the site, deepening of the foundations due to the presence of trees should not be required in most cases. If clay is encountered however, and foundations are within this material, deepening and construction in accordance with NHBC Standards Chapter 4.2 will be necessary.

4.3 Ground Slabs

Where less than 600 mm of made ground is present, ground bearing slabs can be considered. Elsewhere, reinforced suspended slabs or precast concrete floors with a minimum 150 mm high ventilated void should be used.

If the footings require heave precautions due to trees, a precast concrete floor with a ventilated void will be required. The void height is dependent on the volume change potential of the clay. However, it is considered unlikely at this stage that cohesive soils will be encountered on the site.

4.4 Superstructure Precautions

It is not anticipated that any superstructure precautions will be required in the proposed buildings due to the ground conditions.

4.5 Roadworks

At this stage we anticipate that CBR values of at least 2% should be achieved, however due to the uncertainty of the strength and composition of any made ground a low CBR value should be assumed at this early stage. CBR testing should be allowed for along roadways prior to construction so that an accurate value can be obtained.

4.6 Problems Due To Past Development

As a building was located on the site previously, it is possible that the foundations remain in the ground. If this is the case these will need to be grubbed up and removed prior to development.

4.7 Excavation Problems

The stability of trenches at the site is unknown. Where excavations which workers are required to enter are over 1.2 m deep, or less where there is a risk of harm from collapse of the sides of the excavation, the sides should be supported or battered back to make them safe.

4.8 Surface Water Drainage

Soakaway drainage will be suitable for surface water dispersal. The results of infiltration testing which has been undertaken on the site will be reported on within our pending Phase 2 Site Investigation report.

4.9 Sulphate Attack of Buried Concrete

At this stage, it should be assumed that a Design Sulphate Class of DS-2 is required. This would necessitate the use of FND-2 or equivalent concrete for below ground structures at the site. Chemical testing may allow this classification to be downgraded.

5.0 CONTAMINATION APPRAISAL

5.1 Outline Conceptual Model

The development proposals for the site include outline permission for 21 residential properties with associated gardens and car parking. This is therefore a sensitive end use with respect to human health.

The site is currently an undeveloped field. Historical maps show the only development on the site was a single building, possibly a barn or cottage, in the east of the site.

The surrounding area has been a combination of agricultural, residential and commercial/industrial uses throughout its history. The commercial/industrial uses include quarries, mills, a blacking works and a timber yard. However, these were mostly downslope of the site, and therefore contamination is unlikely to have migrated onto the site.

The ground below the site is likely to be relatively permeable due to the presence of sandstone. However, the groundwater table is unlikely to be significantly shallow. The site overlies a Secondary A Aquifer, and does not lie within 500 m of a groundwater source protection zone.

The past uses of the site and surrounding area are not expected to have caused significant contamination at the site. However it is not uncommon to find slightly elevated levels of polycyclic aromatic hydrocarbons in near surface soils due to atmospheric fallout. In addition, elevated concentrations of heavy metals/metalloids or polycyclic aromatic hydrocarbons are also commonly associated with made ground, which is expected to be present over at least part of the site where the previous building was located.

Asbestos containing materials are often used in agricultural buildings, and therefore there is the potential that such materials will be present in any made ground associated with the demolition of the previous structure.

The natural ground is not expected to contain elevated levels of contamination.

No landfill sites were recorded within 250 m of the site and a significant risk of ground gas migration from the surrounding area is not expected. No radon precautions are required for properties constructed at this site.

5.2 Possible Pollutant Linkages

Contaminant	Pathways	Receptor
- Heavy metals/metalloids and PAHs in any made ground. - PAHs in near surface soils/Topsoil	- Ingestion, inhalation and dermal contact - Direct contact - Migration - Root uptake	- Future Residents and visitors to the site. - Groundworkers - Plants and vegetation - Groundwater aquifer
	Leaching and migration	Secondary A Aquifer and River Don
Asbestos containing materials within soils or demolition rubble	Inhalation of fibres	- Future Residents and visitors to the site. - Groundworkers
Sulphates within made ground or the natural ground.	Direct contact.	Below ground concrete.

5.3 Remediation

Significant contamination is not expected to be encountered across the majority of the site. At this stage it is considered that you make the following remedial allowances:

- A 600 mm thick capping layer wherever made ground is present. This may affect only a small areas in the north east of the site, where the former building was located, but this will be confirmed by an intrusive investigation. Chemical testing may allow the capping thickness to be downgraded, or omitted. Alternatively, it may be viable to remove the made ground where it is only of limited thickness/extent.
- Sulphate precautions in below ground concrete and protective water supply pipes in areas of made ground. At this stage we recommend that Class 2 precautions are allowed for as a minimum. Chemical testing of soil samples may allow this to be downgraded. However, higher resistance concrete may also be required.
- At this stage it is expected that the existing topsoil can be reused within gardens and areas of soft landscaping. This will be subject to testing of the materials, however.

6.0 RATIONALE FOR FURTHER INVESTIGATION

Before more definite information regarding the properties of the ground and any contamination present can be given, an intrusive ground investigation will be required. A trial pit investigation, involving the excavation of pits using a mechanical excavator will be the most suitable method as it provides the best method of inspecting shallow soils.

The use of trial pits to investigate the site will also allow the undertaking of infiltration tests, to determine the suitability of the ground for soakaway drainage.

The potential pollutant linkages presented in the Outline Conceptual Model will need to be investigated by means of soil analysis. The chemical testing suite should be chosen to cover the range of potential contaminants indicated above. If any elevated levels of contamination are identified the risks to receptors would need to be assessed and remediation considered. Geotechnical testing should be carried out where clay soils are encountered to determine their volume change potential.

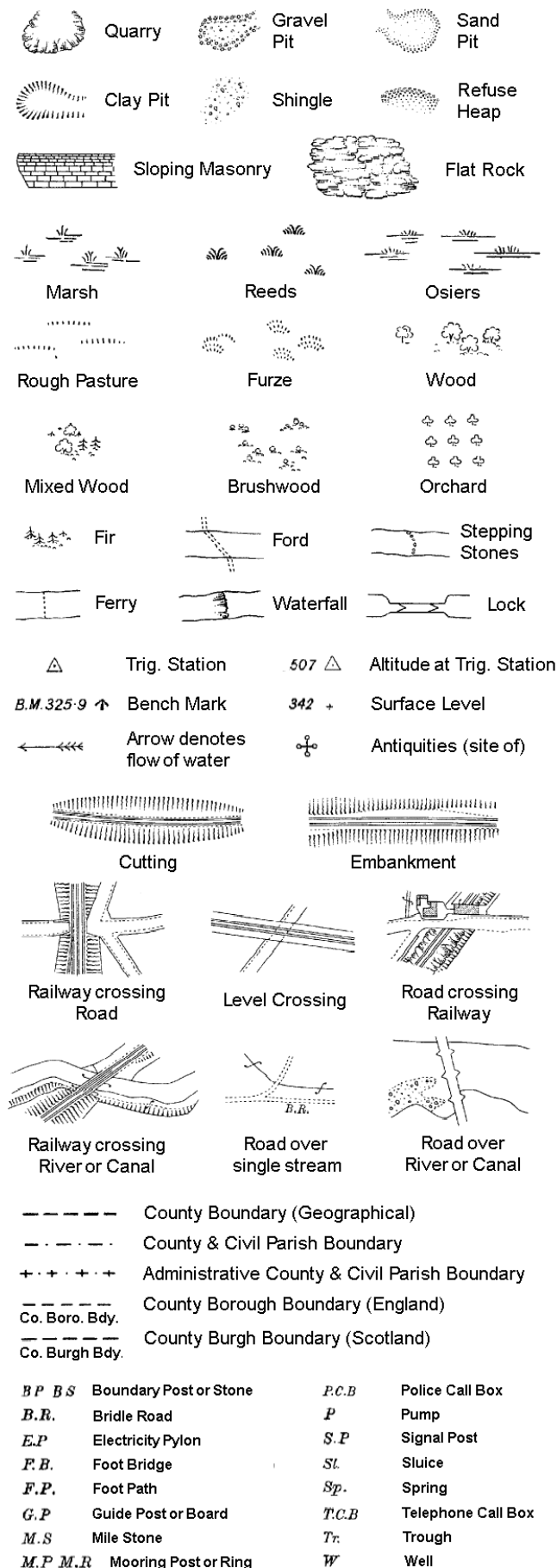
Any recommendations made within this Phase 1 report should be treated as preliminary at this stage, pending confirmation by intrusive investigation. Our recommendations are also subject to approval by the regulators.

APPENDIX

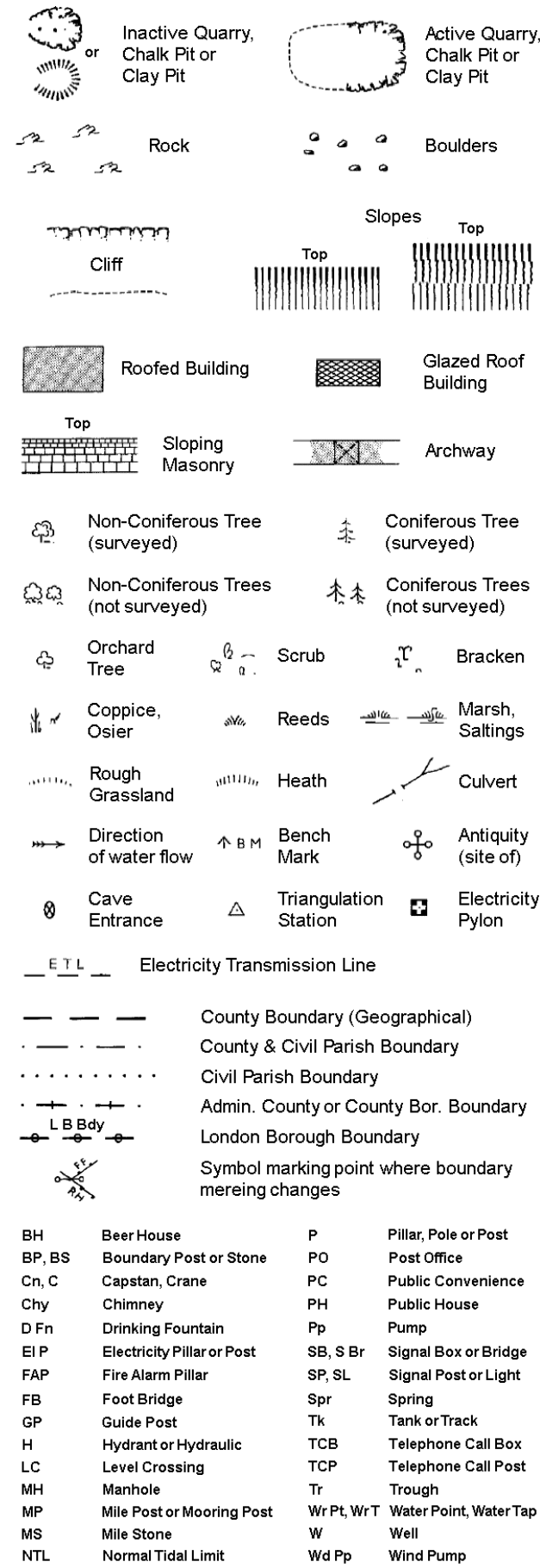
Envirocheck Report
Coal Authority Report

Historical Mapping Legends

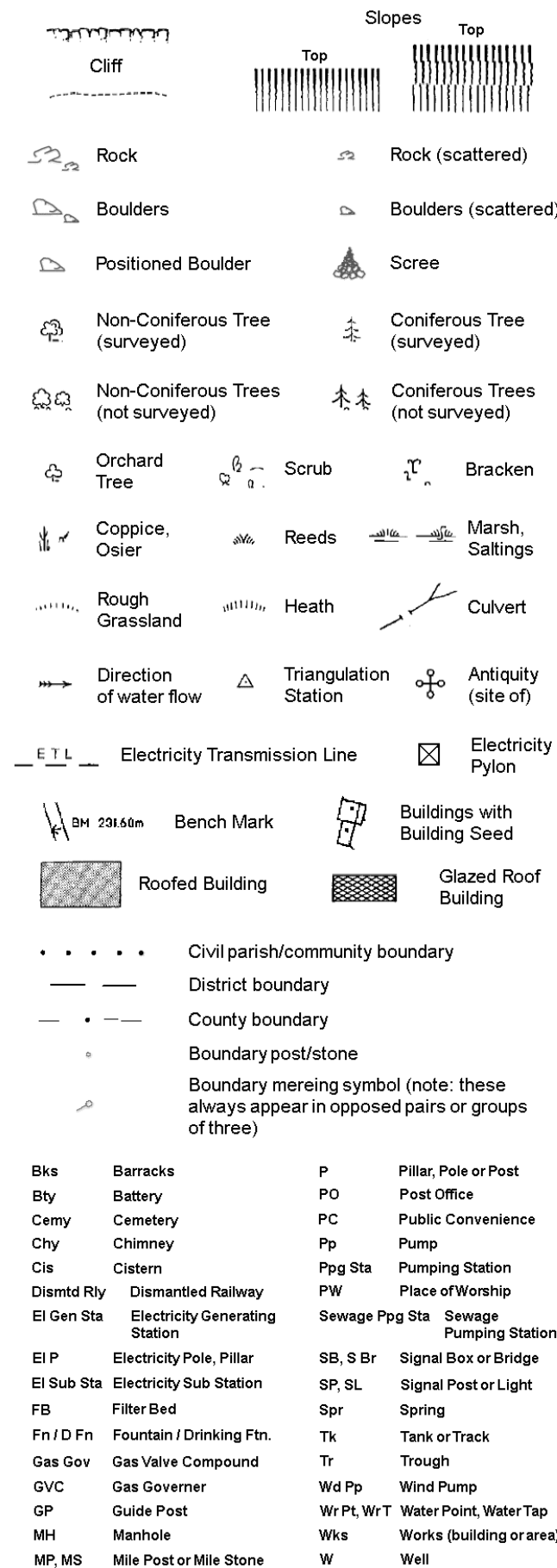
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



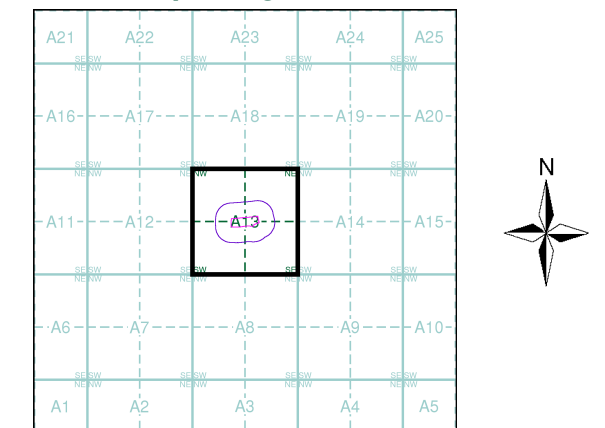
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1960	5
Ordnance Survey Plan	1:2,500	1969	6
Additional SIMs	1:2,500	1977 - 1978	7
Additional SIMs	1:2,500	1988	8
Large-Scale National Grid Data	1:2,500	1992	9
Large-Scale National Grid Data	1:2,500	1996	10
Historical Aerial Photography	1:2,500	1999	11

Historical Map - Segment A13



Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 100

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

Landmark®
INFORMATION GROUP

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

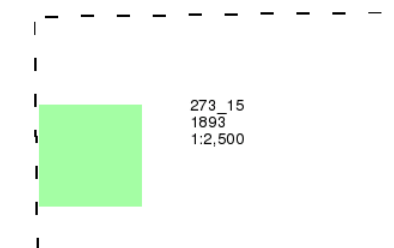
Yorkshire

Published 1893

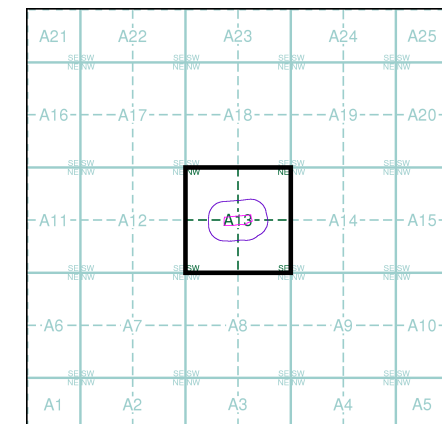
Source map scale - 1:2,500

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)



Historical Map - Segment A13

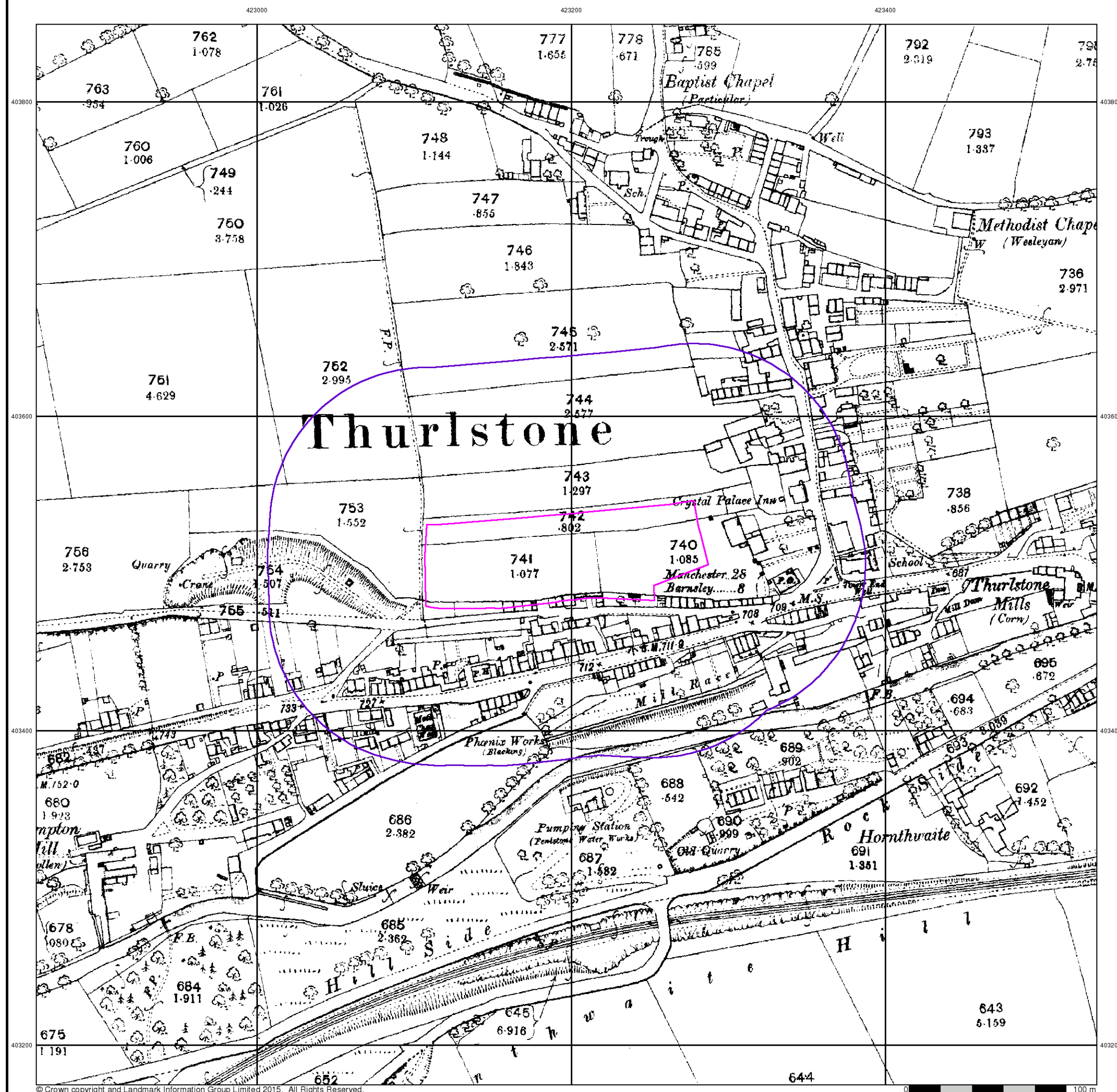


Order Details

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 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 100

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ



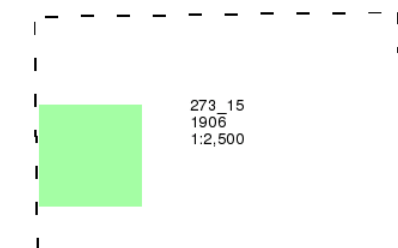
Yorkshire

Published 1906

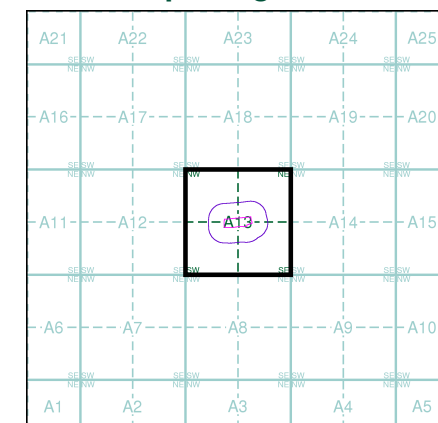
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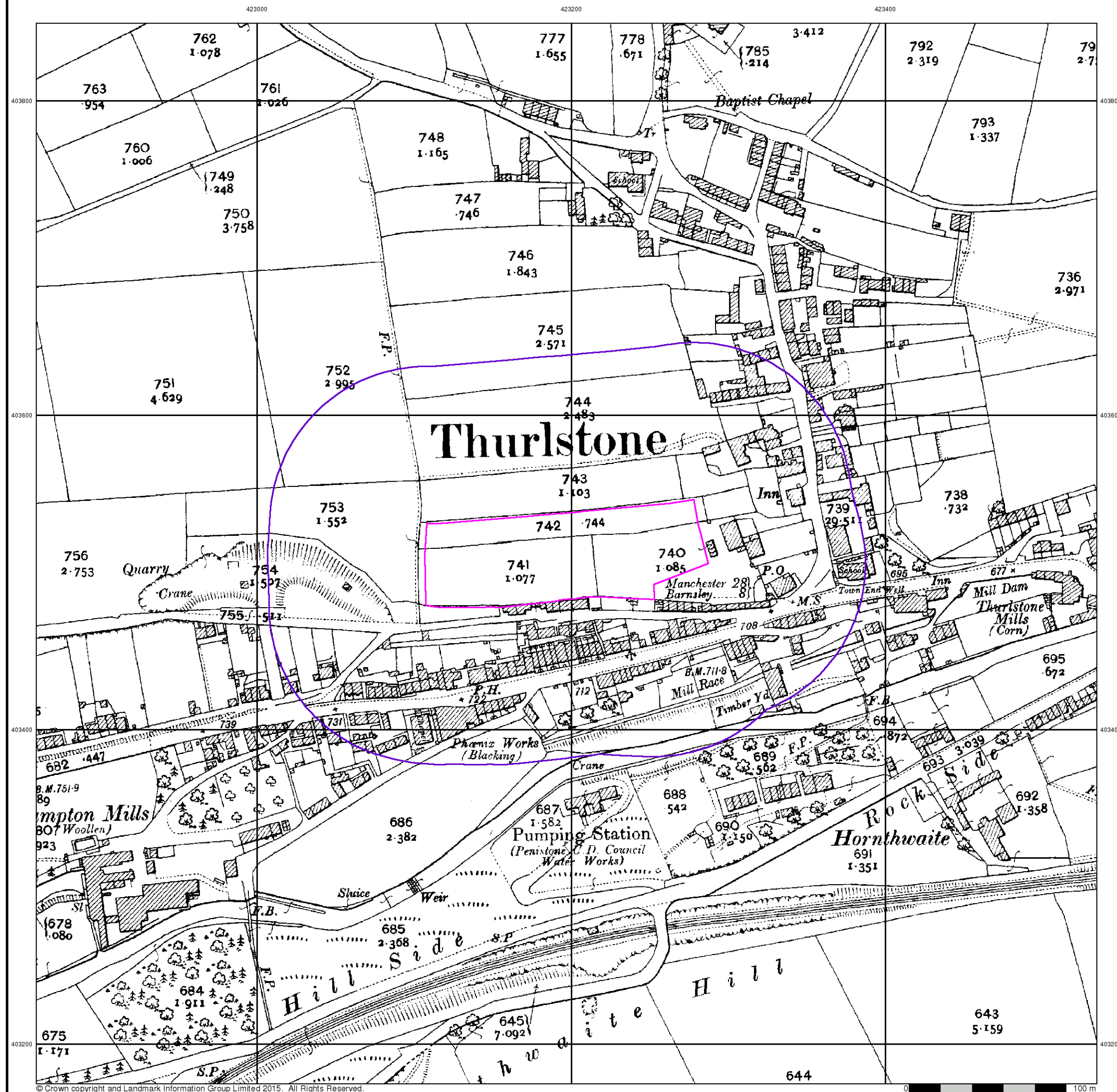


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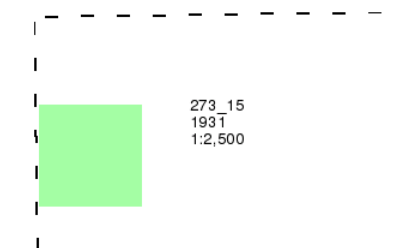
Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

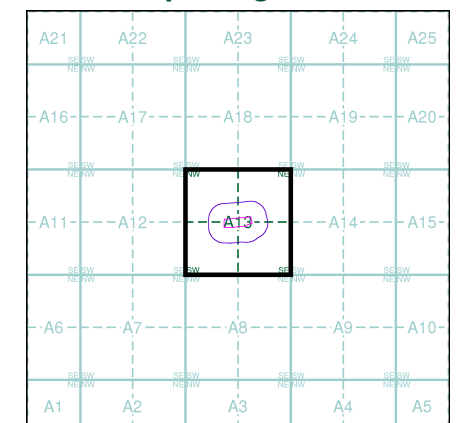


The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain. 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

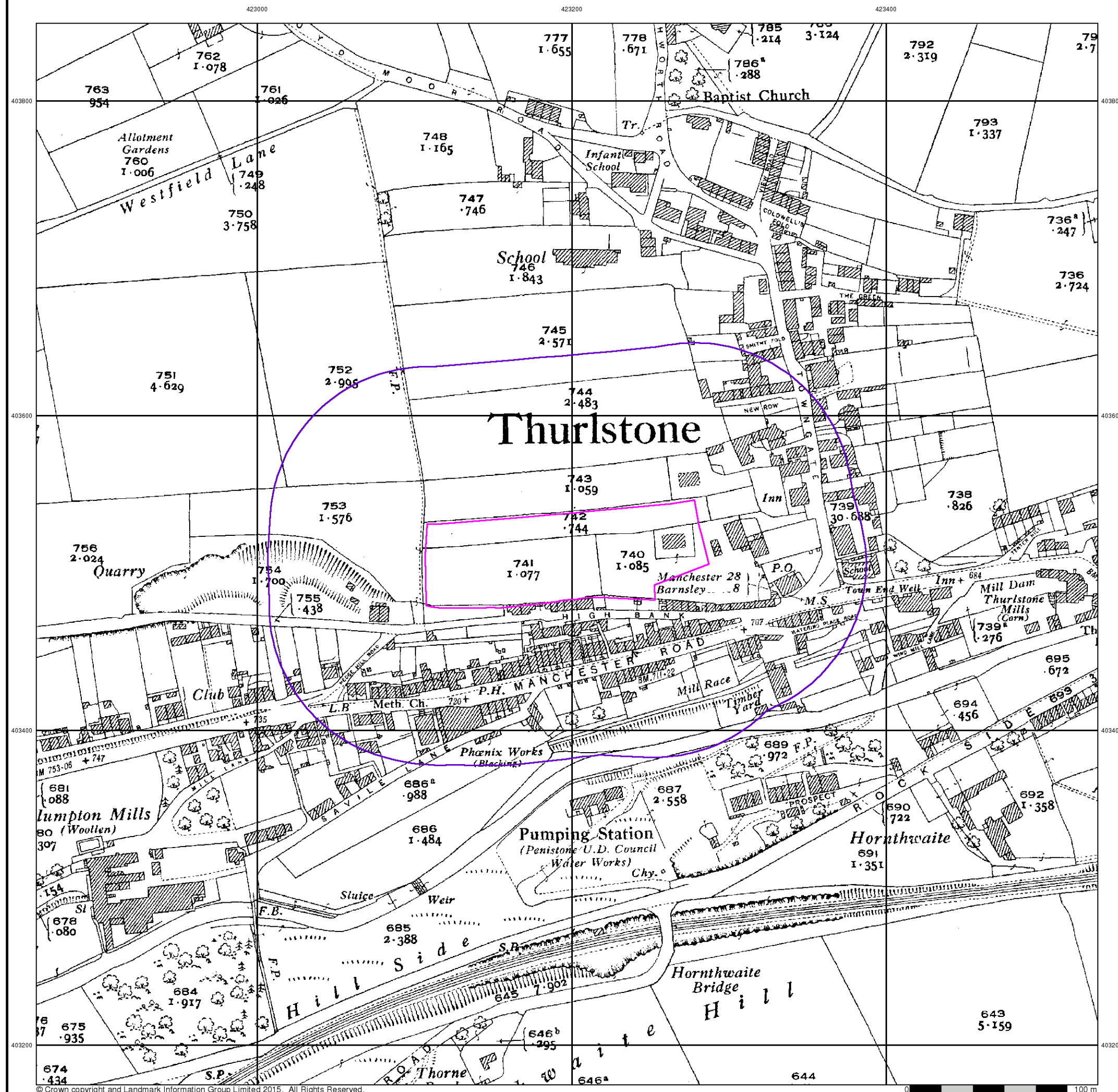


Order Details

Order Number: 103468689_1_1
 Customer Ref: 40630
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 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 100

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ



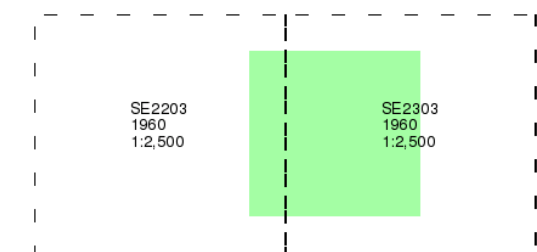
Ordnance Survey Plan

Published 1960

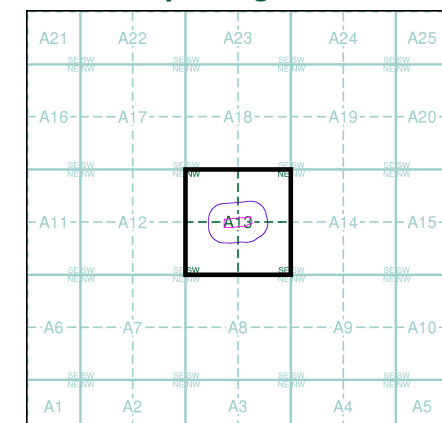
Source map scale - 1:2,500

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

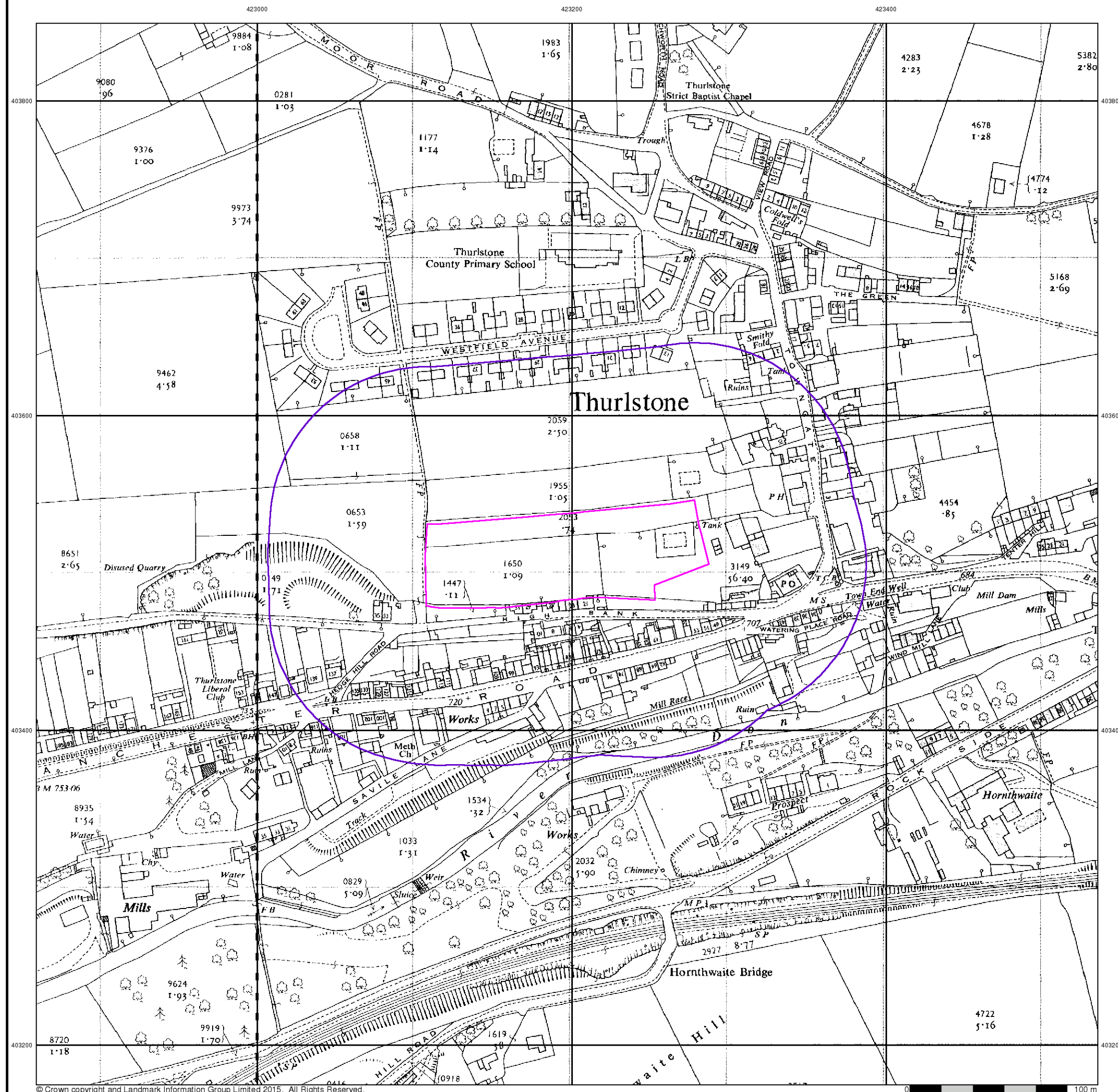


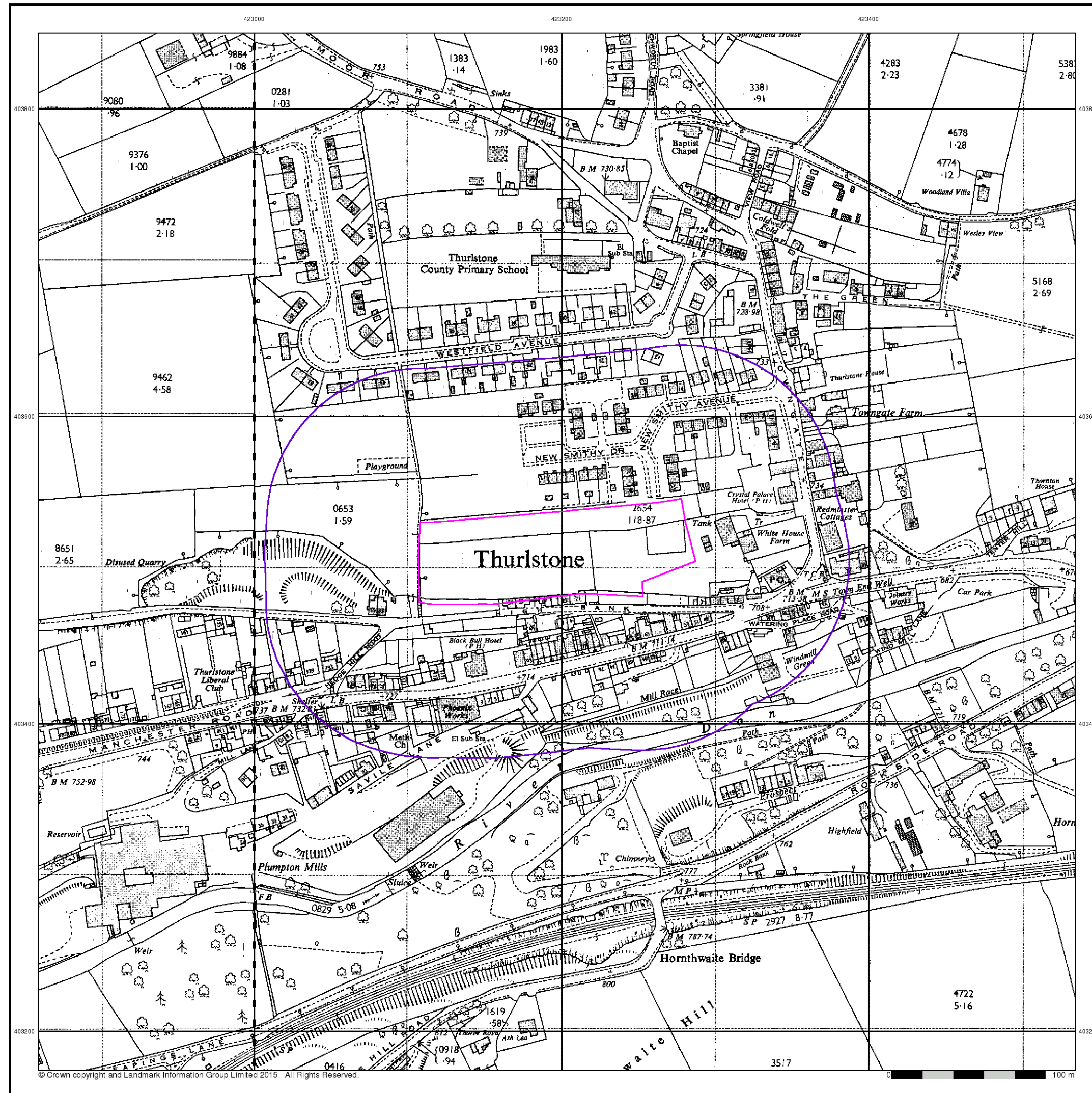
Order Details

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Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ





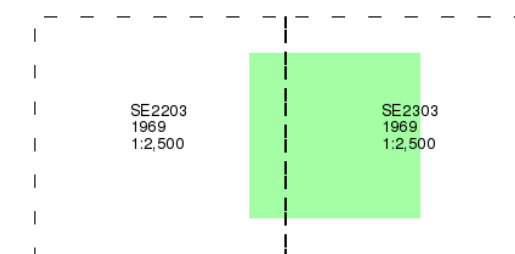
Ordnance Survey Plan

Published 1969

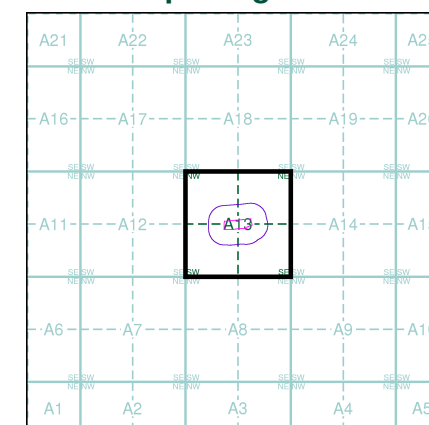
Source map scale - 1:2,500

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

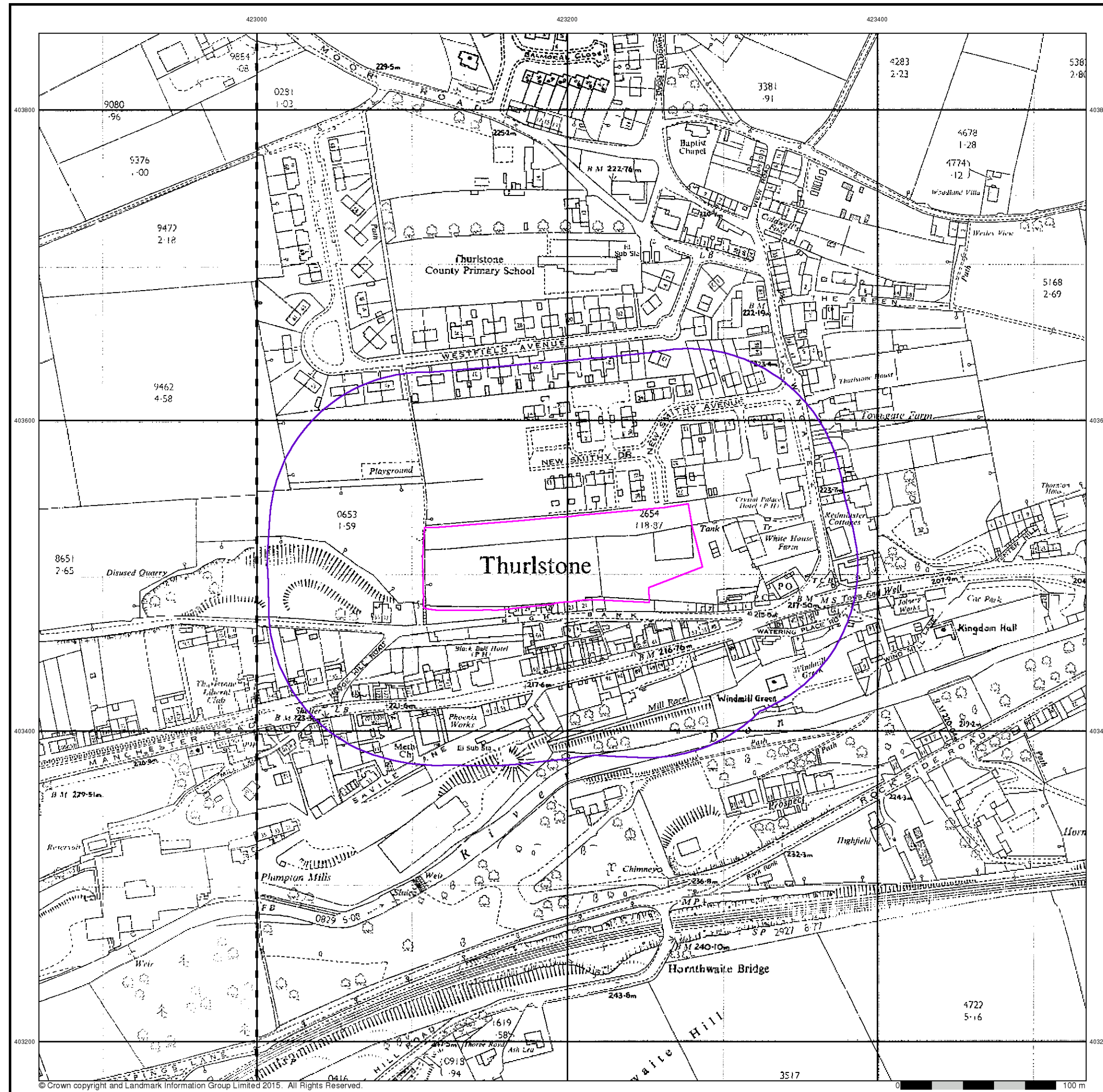


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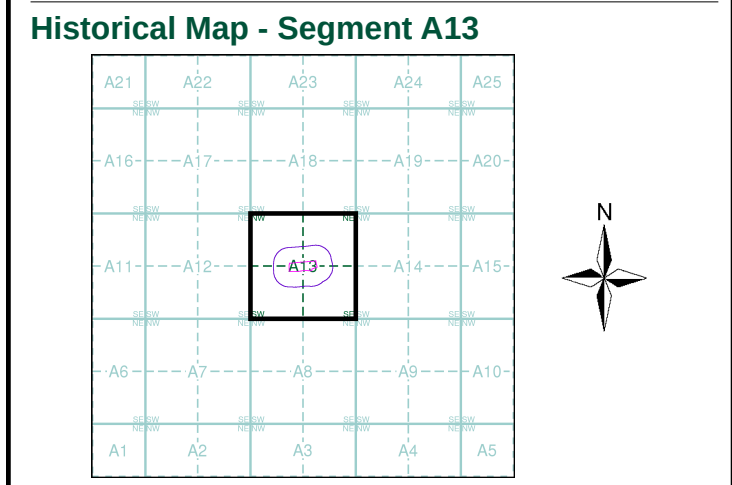
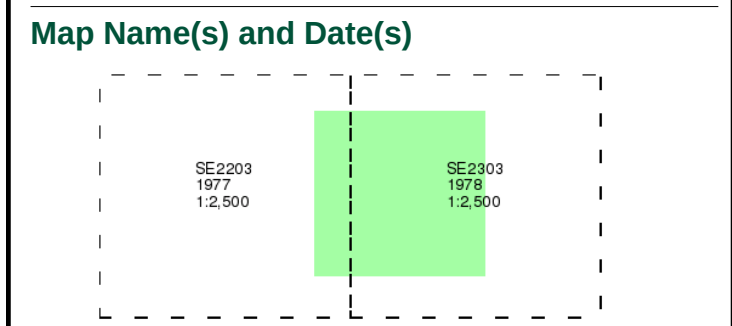
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Additional SIMs
Published 1977 - 1978
Source map scale - 1:2,500

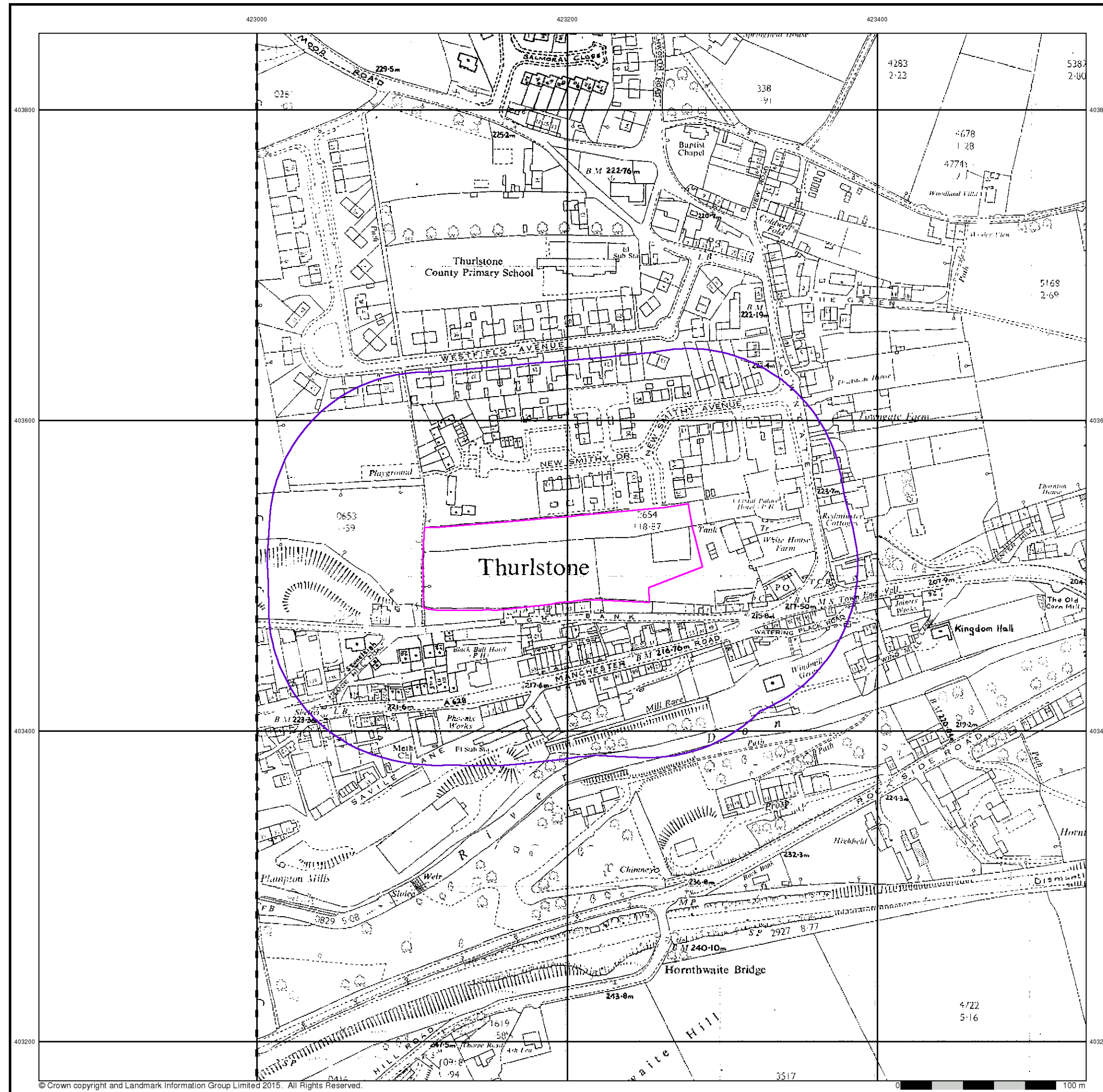
The SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') are further, minor editions of mapping which were produced and published in between the main editions as an area was updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps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



Order Details

Order Number: 103468689_1_1
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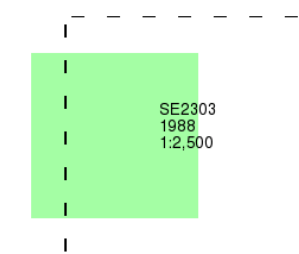
Additional SIMs

Published 1988

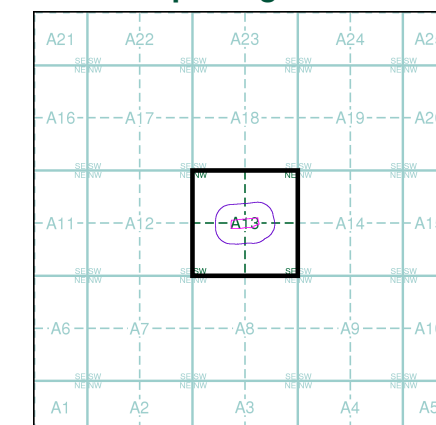
Source map scale - 1:2,500

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

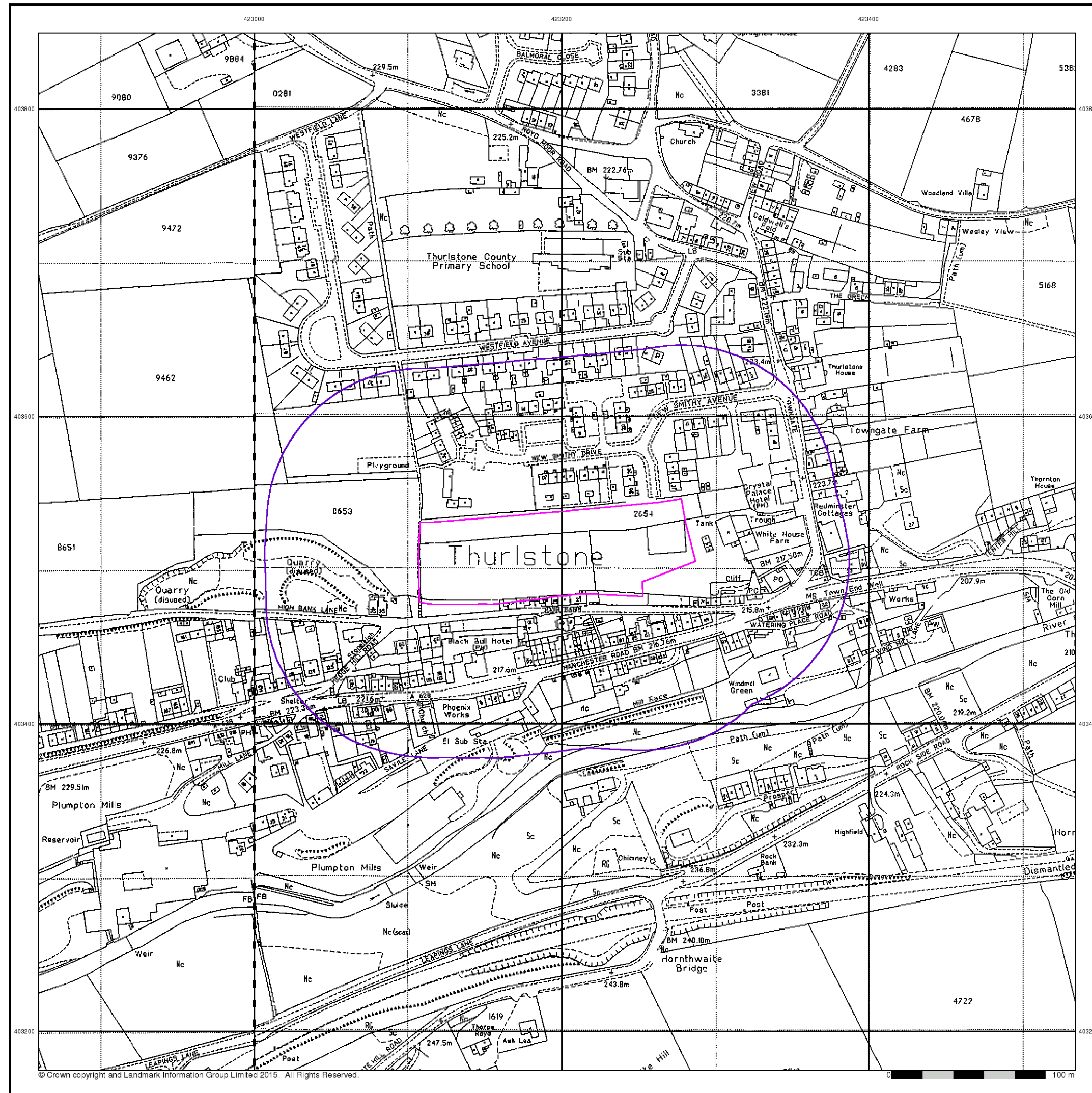
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Site Details

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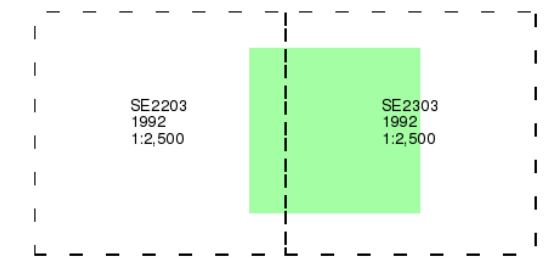
Large-Scale National Grid Data

Published 1992

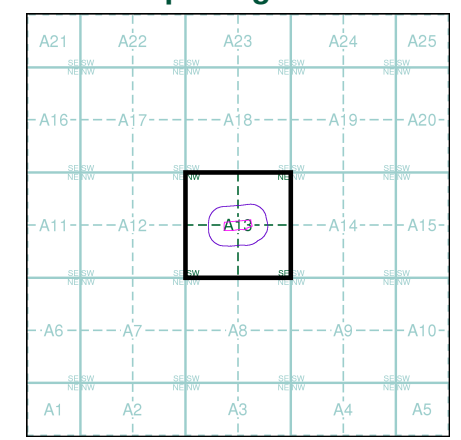
Source map scale - 1:2,500

'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

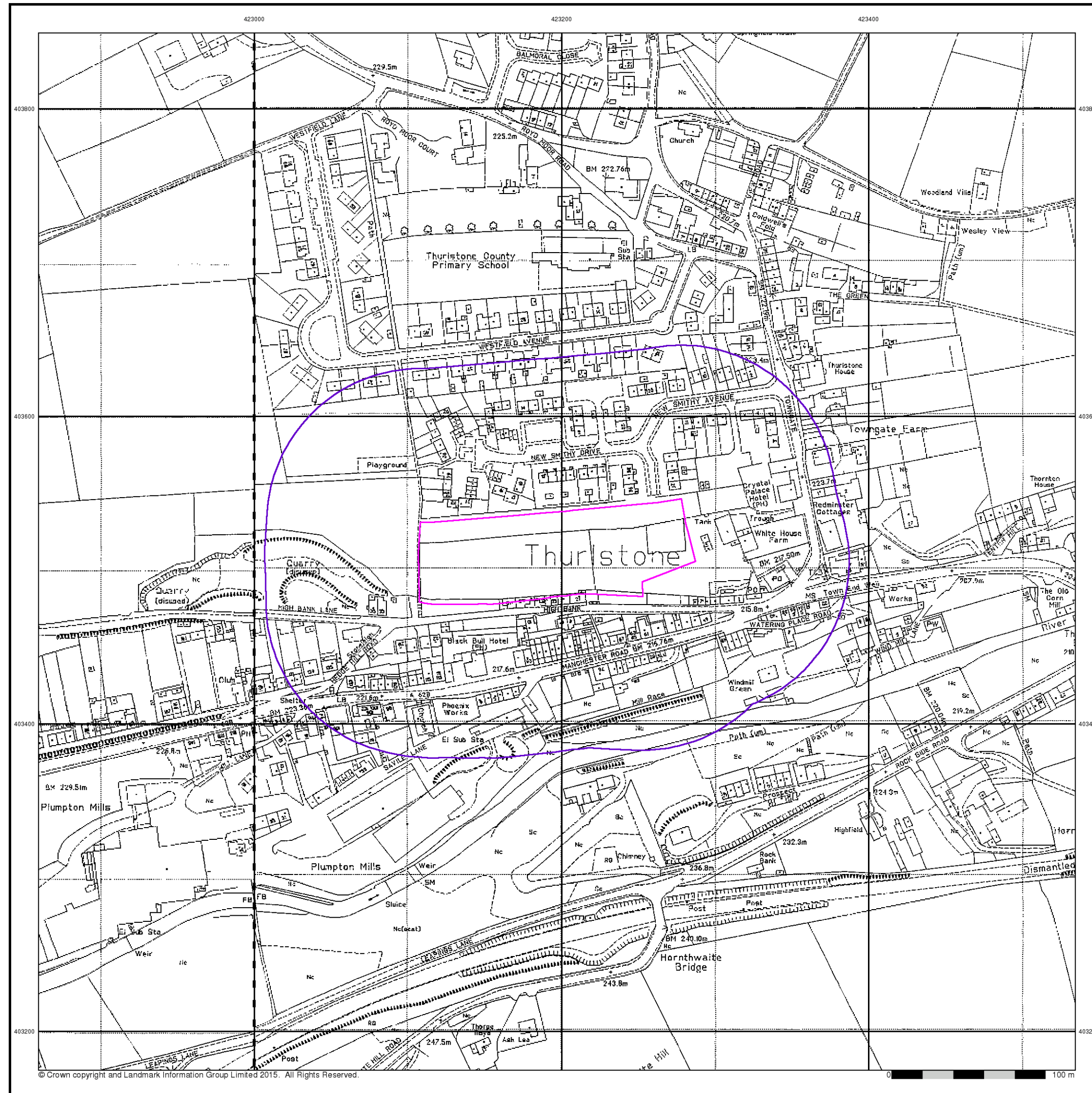


Order Details

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Site Area (Ha): 0.95
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Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ



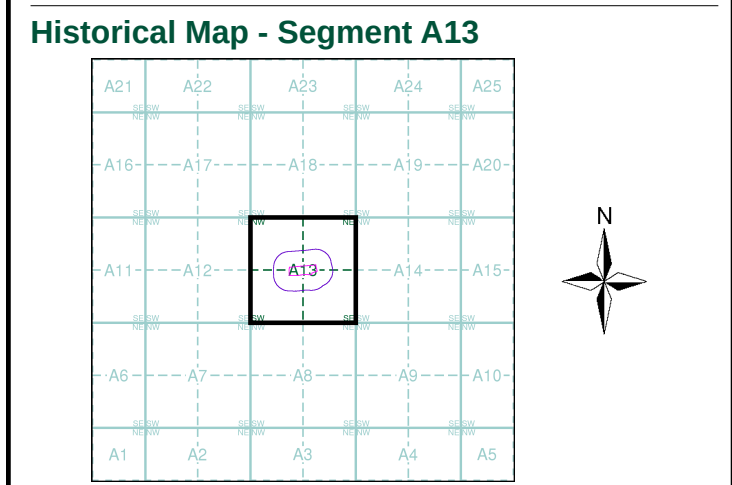
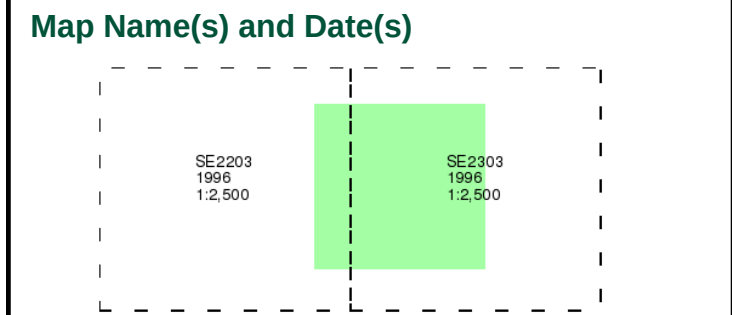
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Large-Scale National Grid Data

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.



Order Details

Order Number:	103468689_1_1
Customer Ref:	40630
National Grid Reference:	423190, 403510
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	100

Site Details

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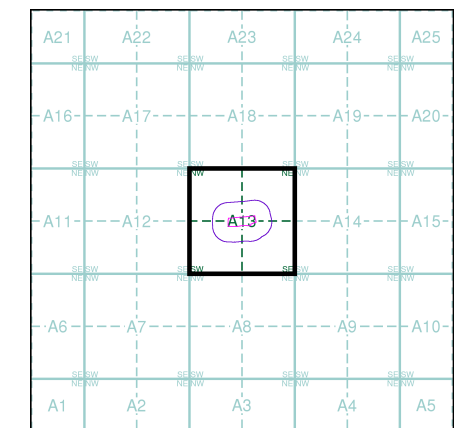
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Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 103468689_1_1
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National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 100

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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

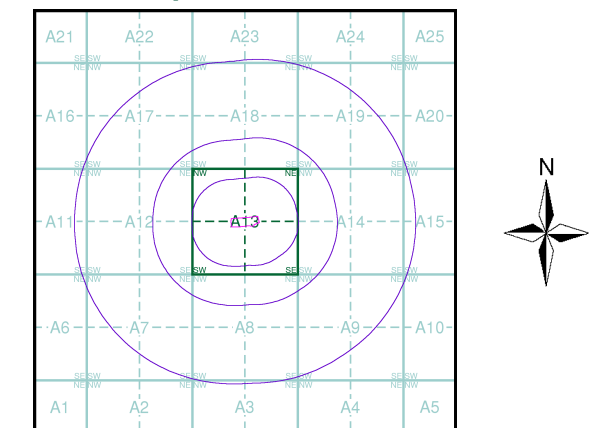
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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1851 - 1855	2
Cheshire	1:10,560	1881	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1906 - 1907	5
Yorkshire	1:10,560	1931 - 1932	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1955	9
Ordnance Survey Plan	1:10,000	1967	10
Ordnance Survey Plan	1:10,000	1989	11
10K Raster Mapping	1:10,000	2000	12
10K Raster Mapping	1:10,000	2006	13
VectorMap Local	1:10,000	2016	14

Historical Map - Slice A



Order Details

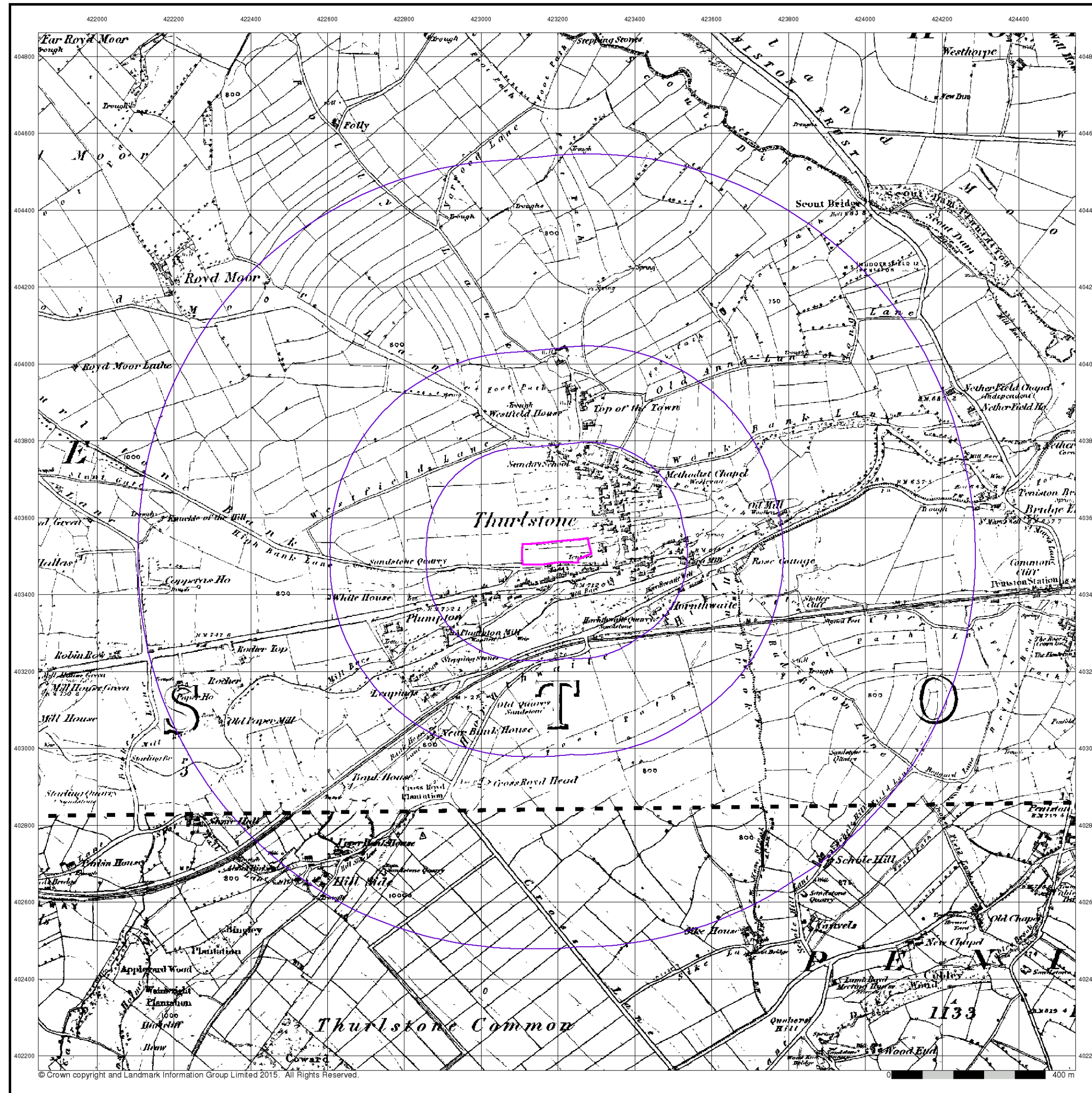
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Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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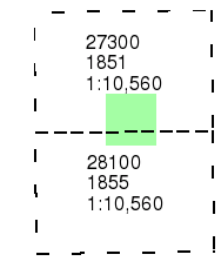
Yorkshire

Published 1851 - 1855

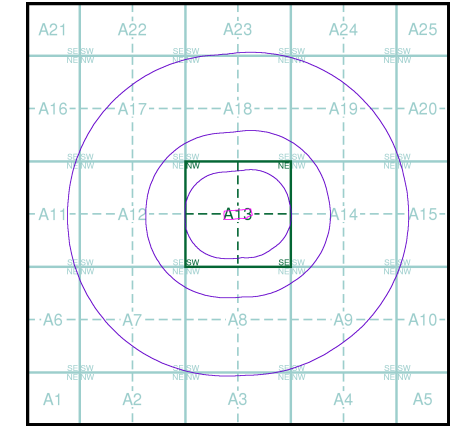
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

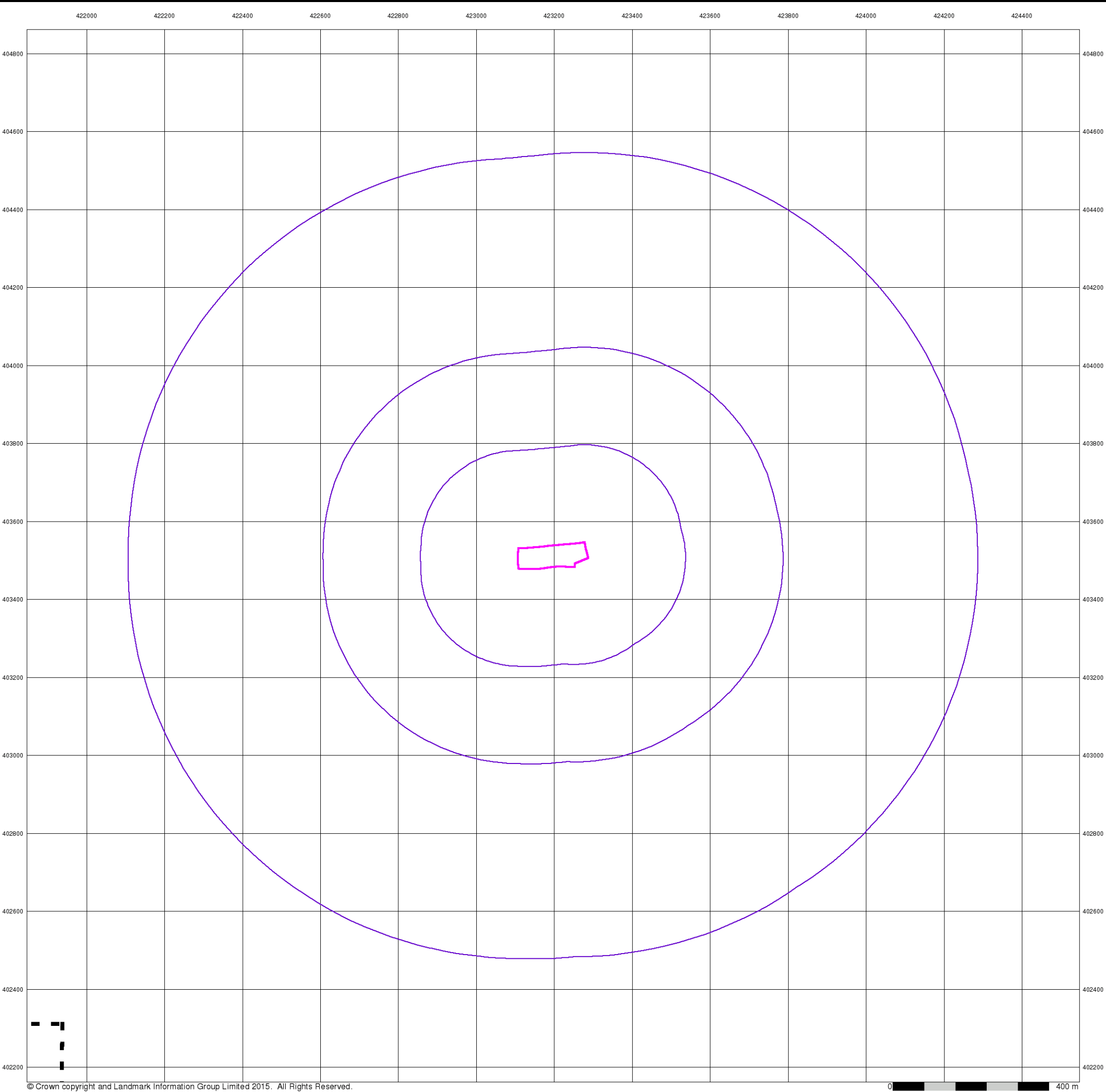
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Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

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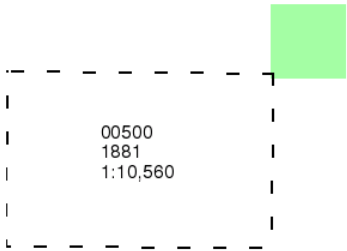
Cheshire

Published 1881

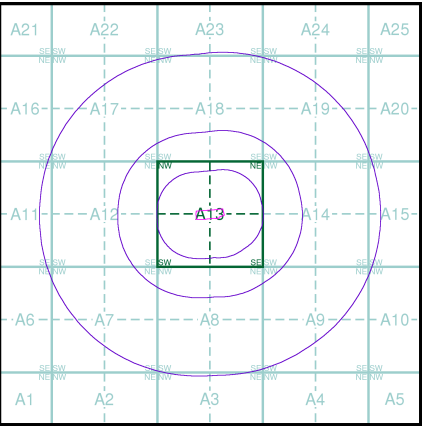
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

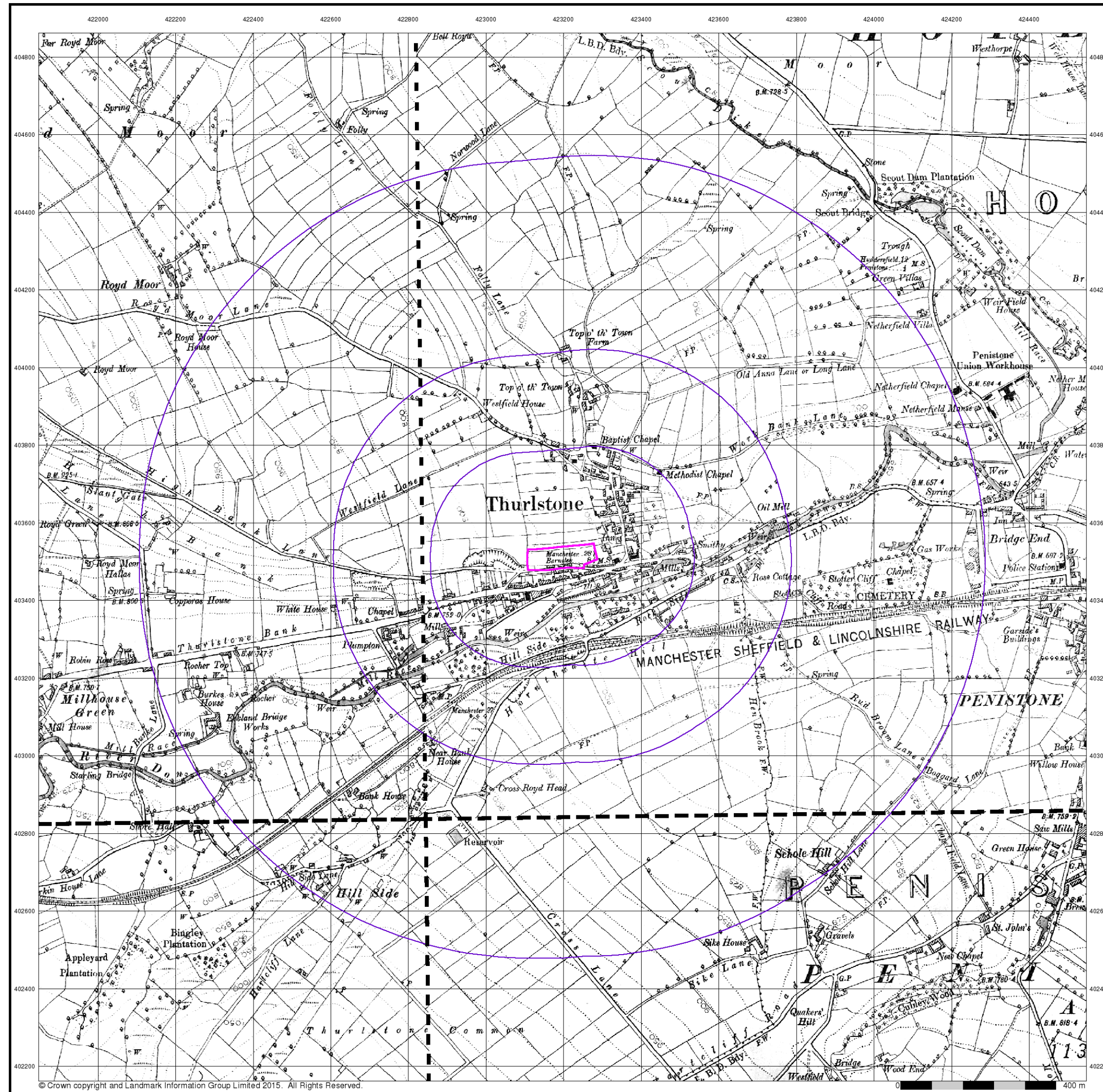
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Site Details

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Yorkshire

Published 1894

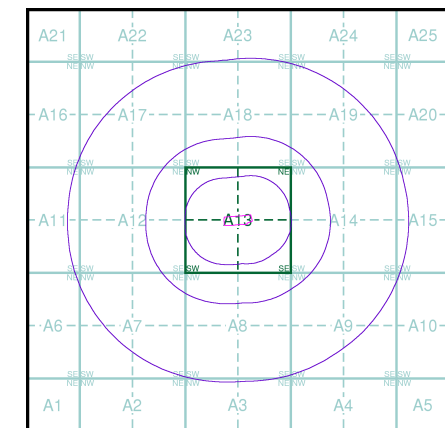
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

273SW 1894 1:10,560	273SE 1894 1:10,560
281NW 1894 1:10,560	281NE 1894 1:10,560

Historical Map - Slice A



Order Details

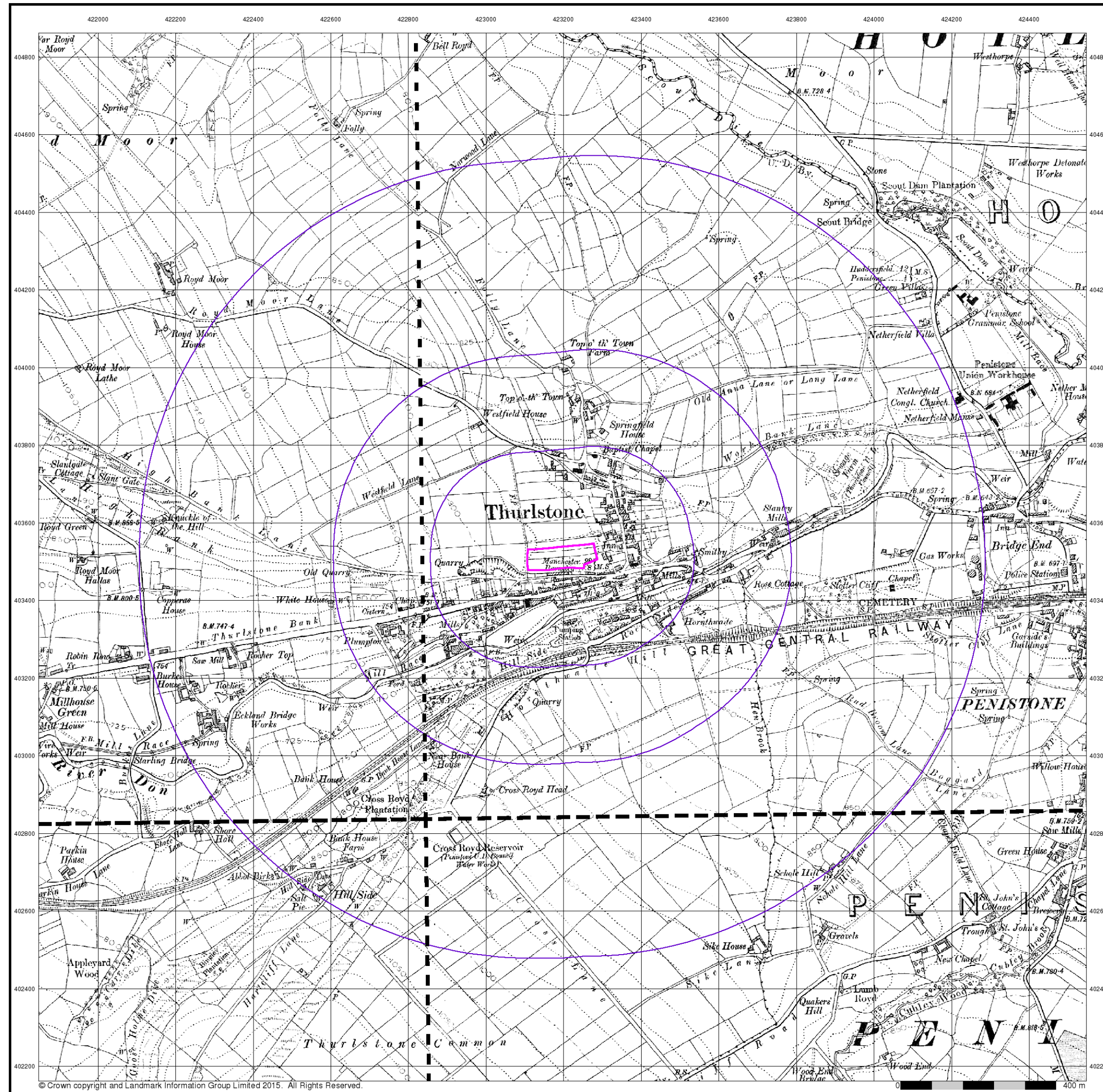
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Yorkshire

Published 1906 - 1907

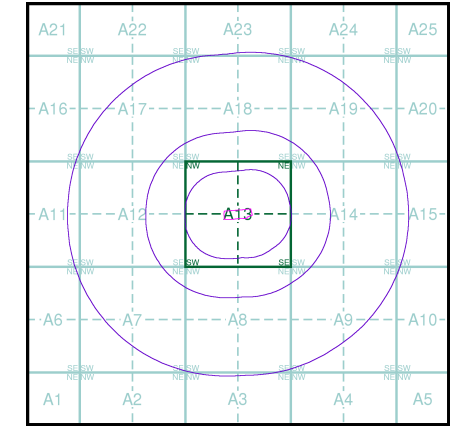
Source map scale - 1:10,560

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Map Name(s) and Date(s)

273SW 1906 1:10,560	273SE 1907 1:10,560
281NW 1906 1:10,560	281NE 1906 1:10,560

Historical Map - Slice A



Order Details

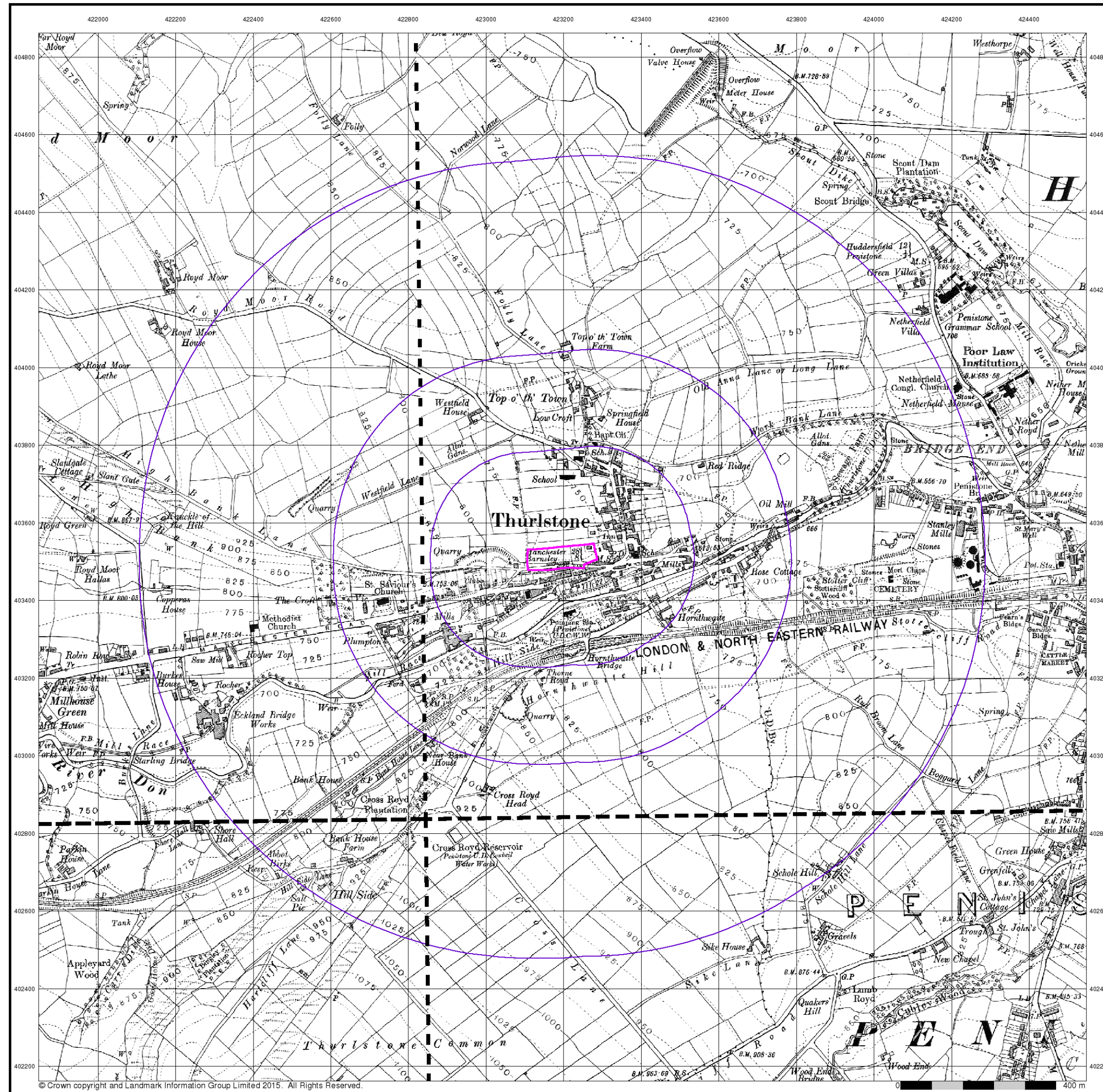
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Yorkshire

Published 1931 - 1932

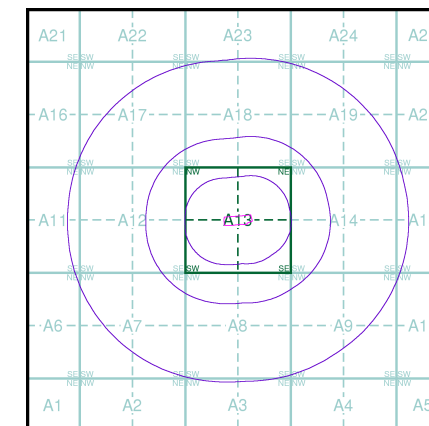
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

273SW 1932 1:10,560	273SE 1932 1:10,560
281NW 1932 1:10,560	281NE 1932 1:10,560

Historical Map - Slice A



Order Details

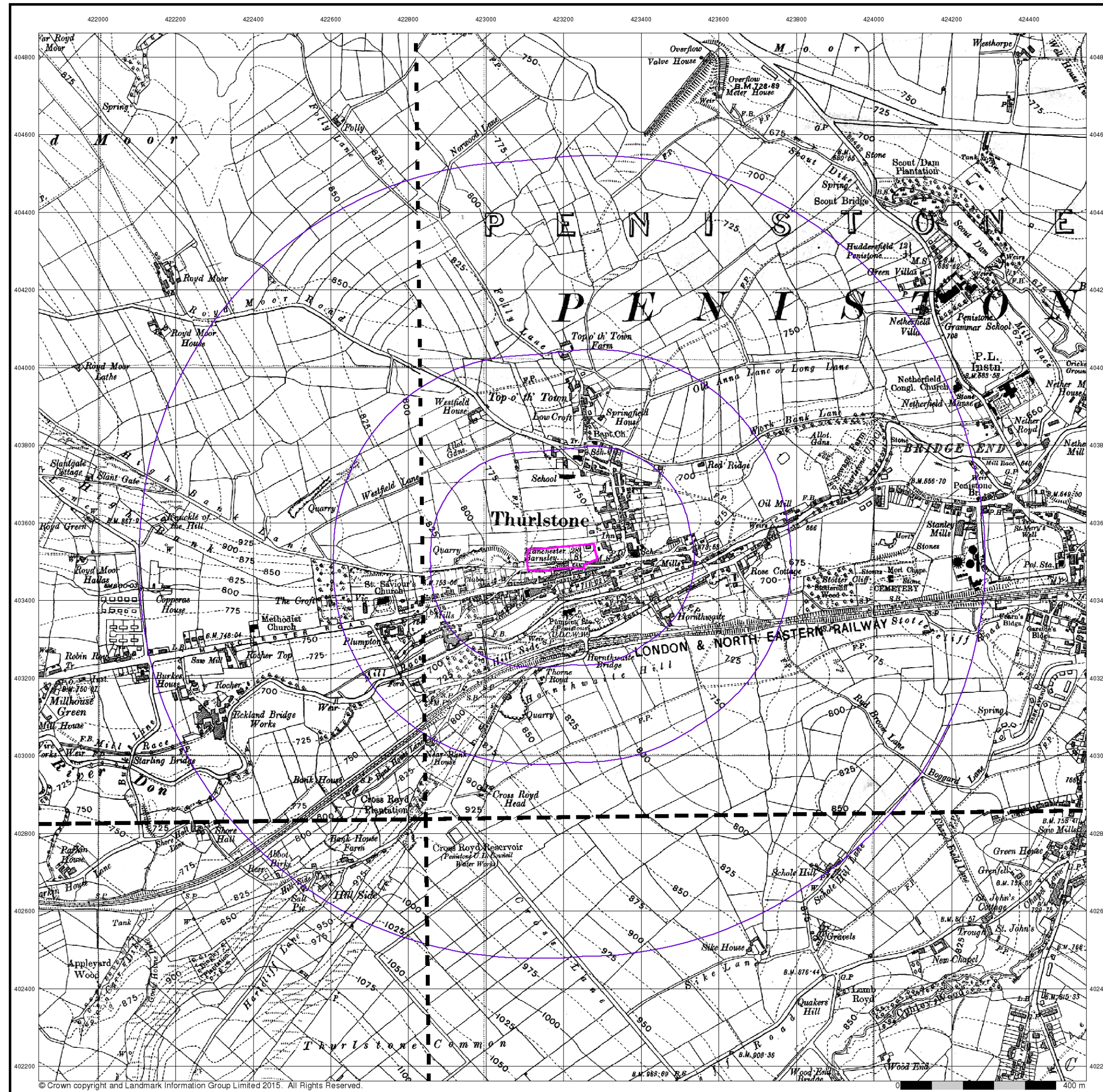
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Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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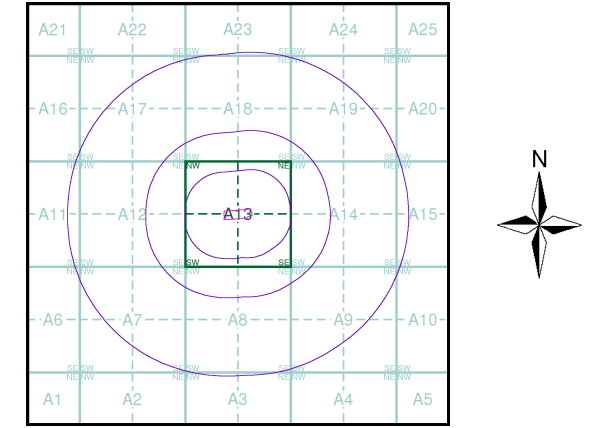
Yorkshire
Published 1938 - 1948
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

273SW 1948 1:10,560	273SE 1938 1:10,560
281NW 1948 1:10,560	281NE 1938 1:10,560

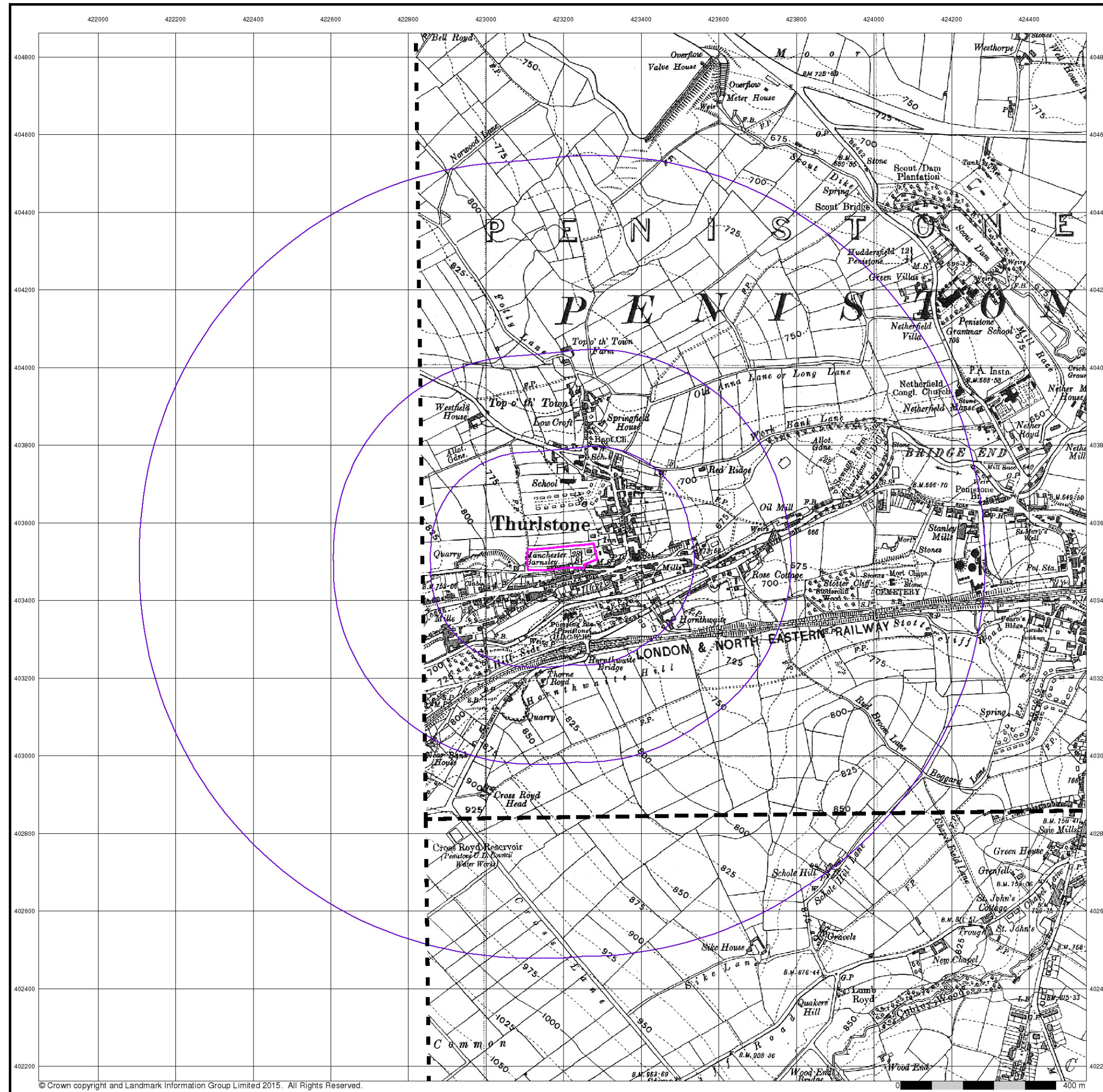
Historical Map - Slice A



Order Details
Order Number: 103468689_1_1
Customer Ref: 40630
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Yorkshire

Published 1948

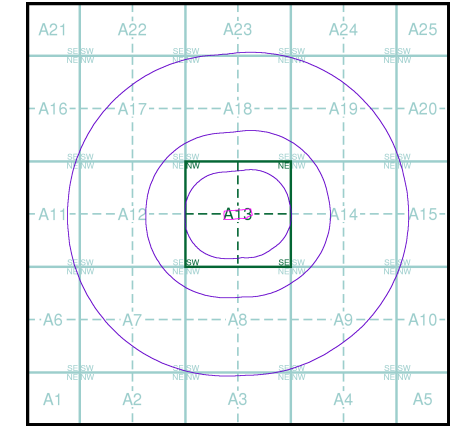
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

273SE
1948
1:10,560
281NE
1948
1:10,560

Historical Map - Slice A

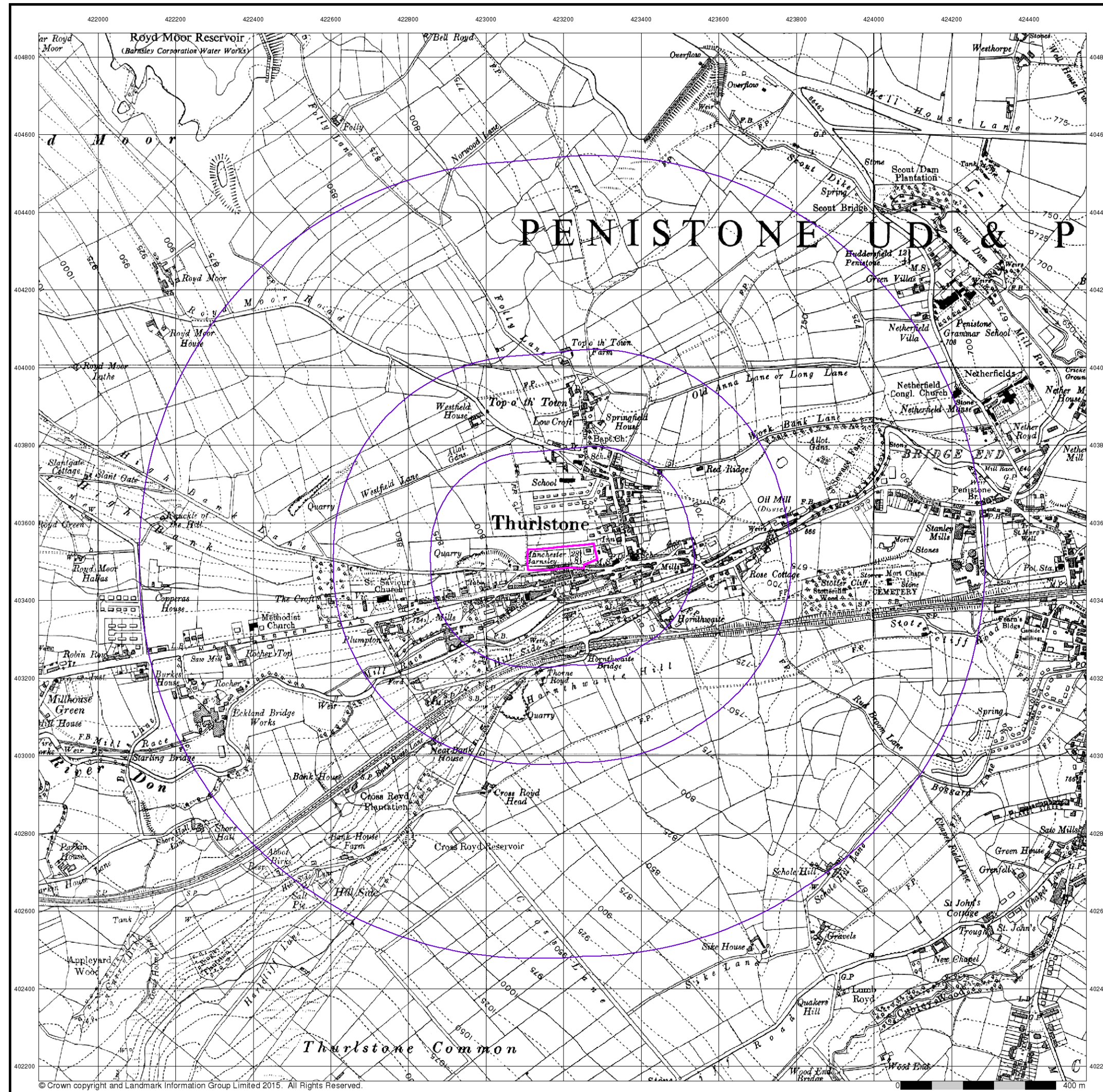


Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
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Search Buffer (m): 1000

Site Details

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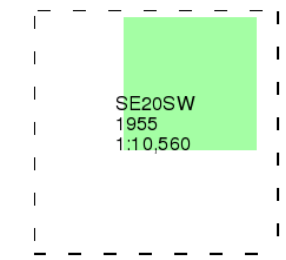
Ordnance Survey Plan

Published 1955

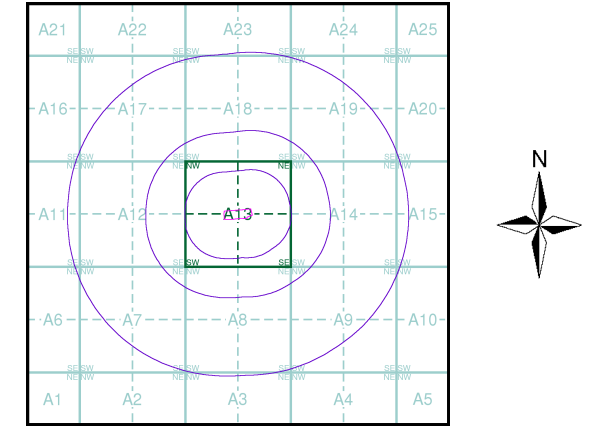
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

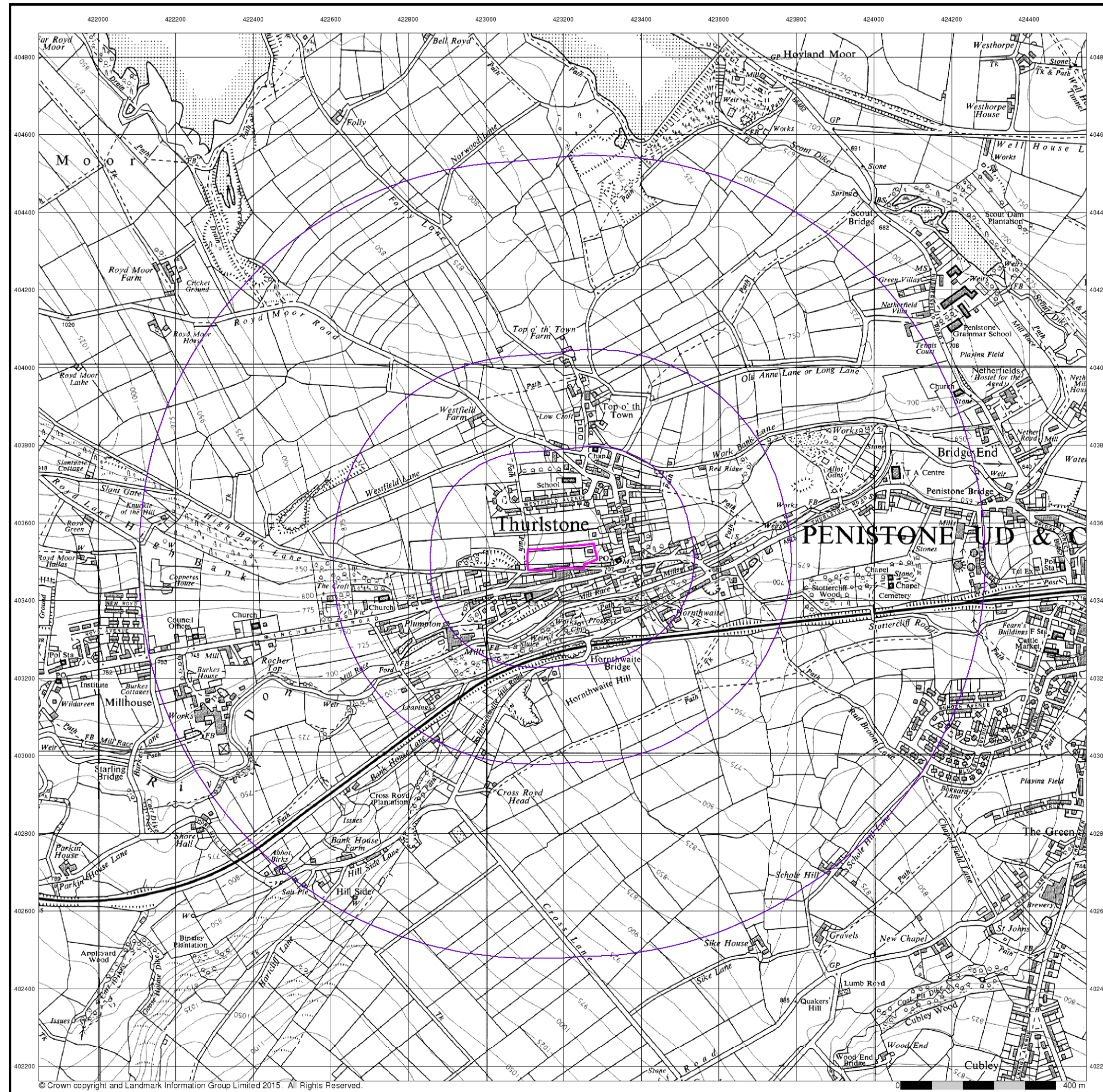


Historical Map - Slice A



Order Details	
Order Number:	103468689_1_1
Customer Ref:	40630
National Grid Reference:	423190, 403510
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

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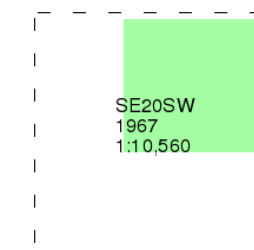
Ordnance Survey Plan

Published 1967

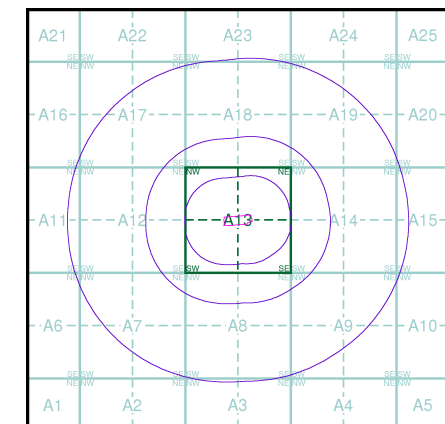
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

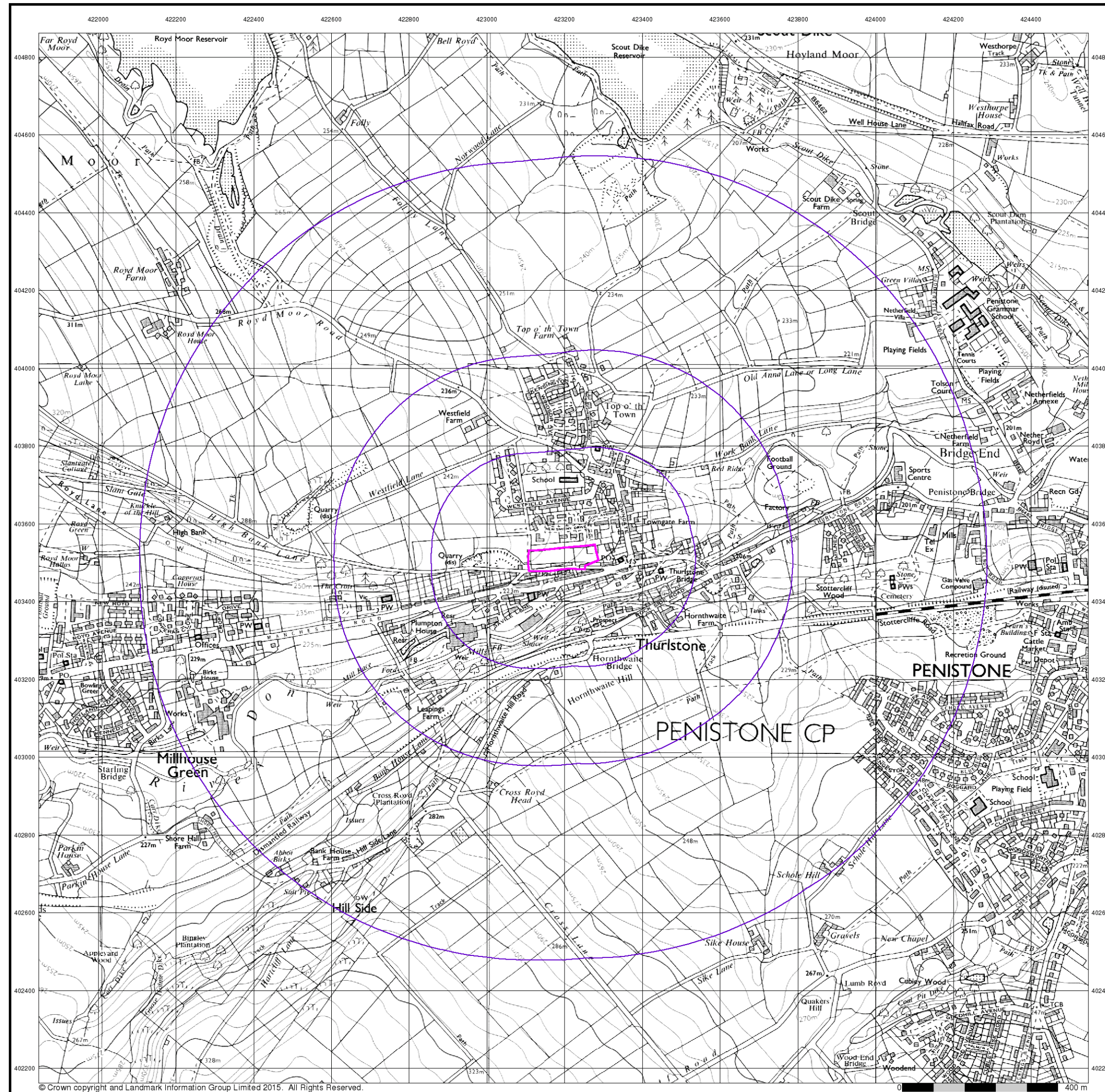
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Customer Ref: 40630
National Grid Reference: 423190, 403510
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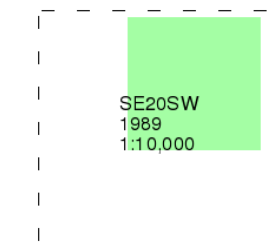
Ordnance Survey Plan

Published 1989

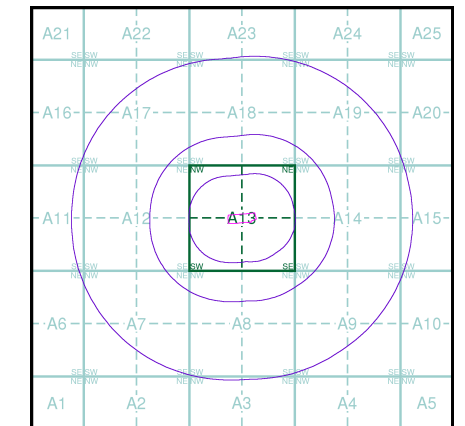
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

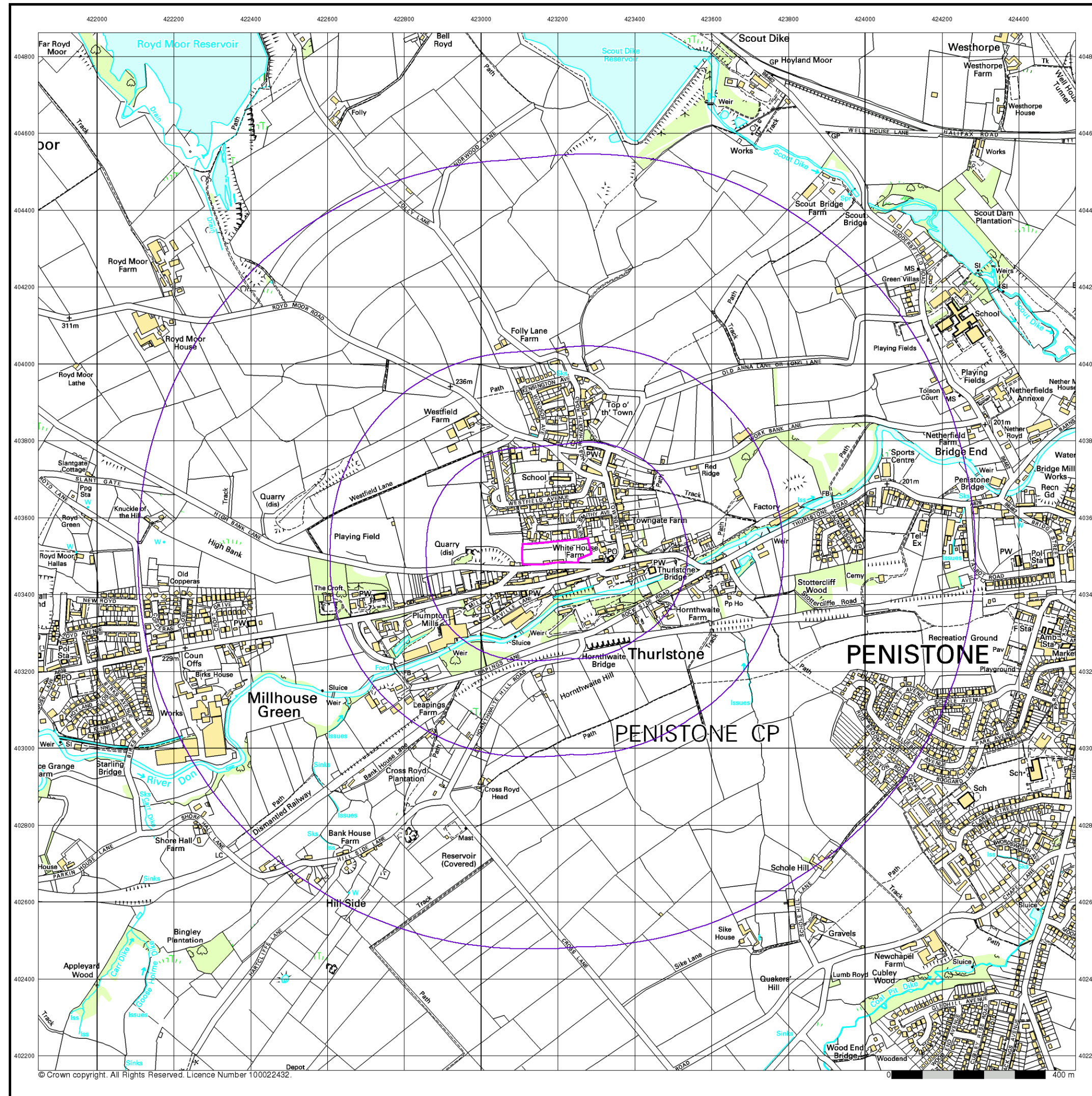
Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
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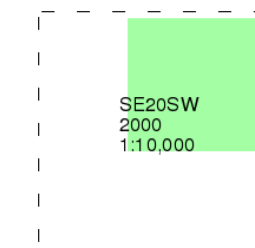
10k Raster Mapping

Published 2000

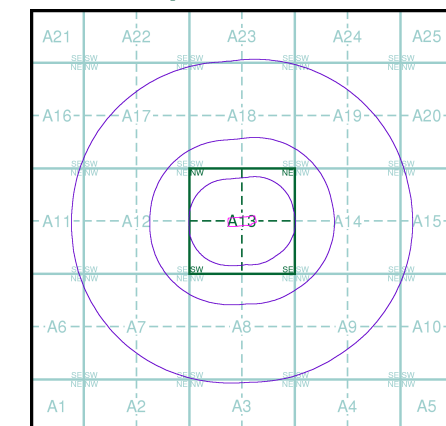
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

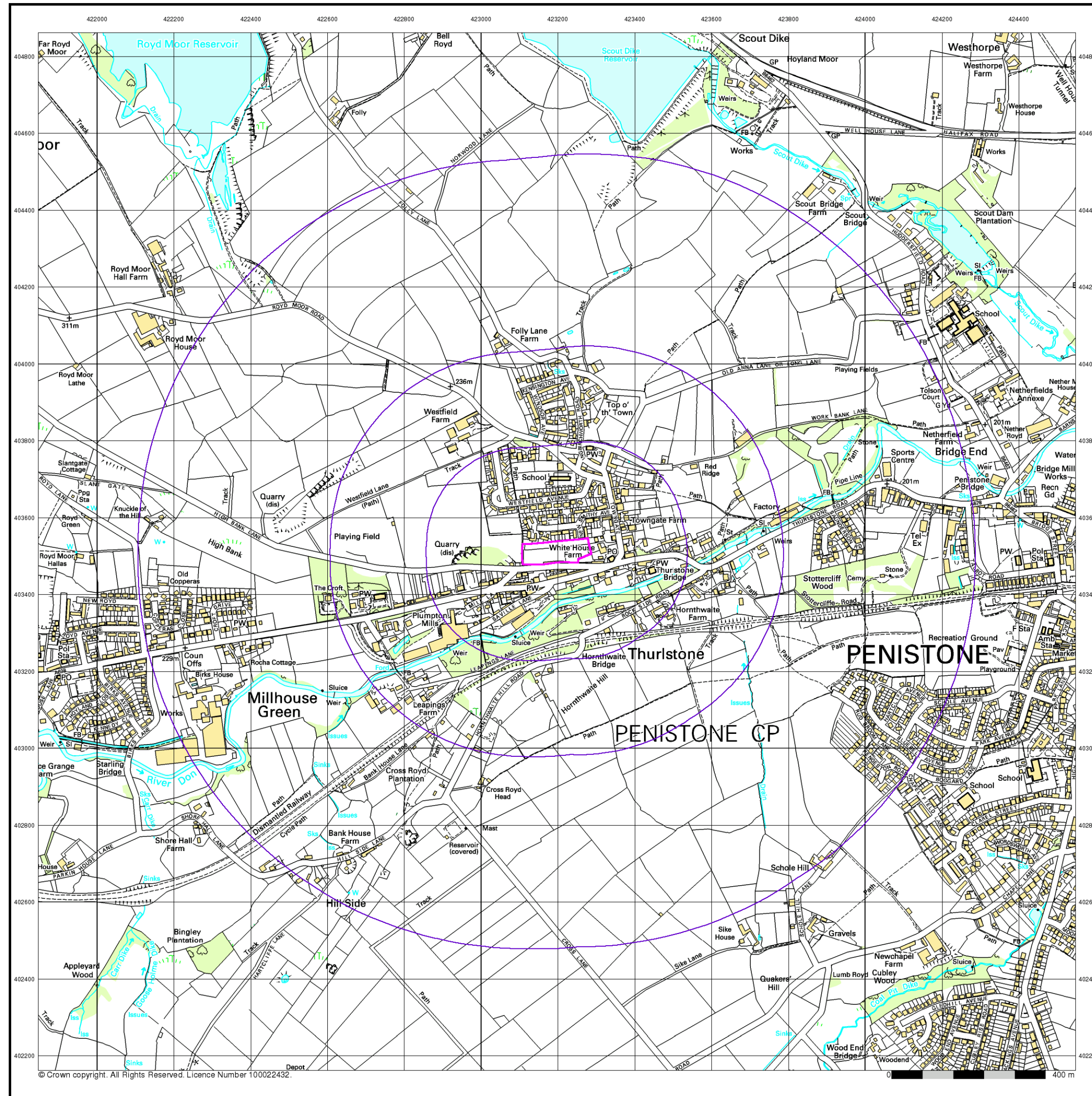
Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
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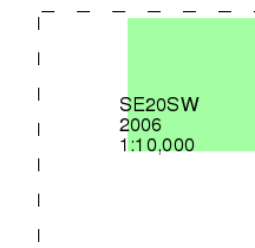
10k Raster Mapping

Published 2006

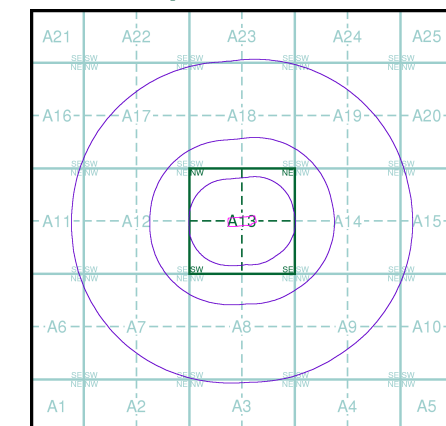
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

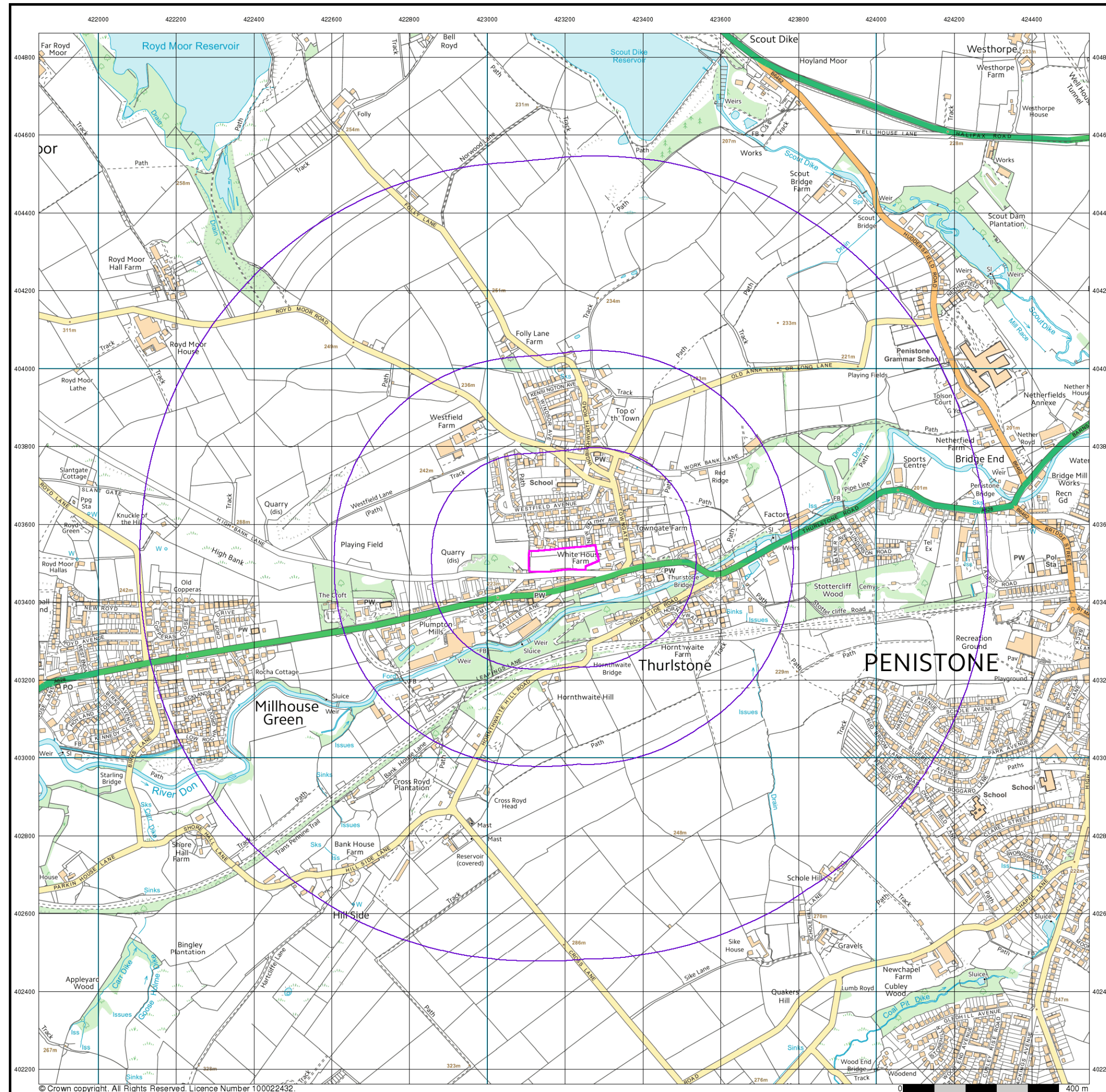
Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
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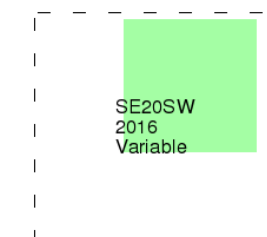
VectorMap Local

Published 2016

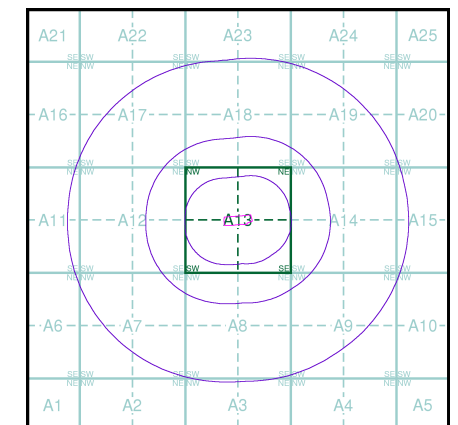
Source map scale - 1:10,000

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



Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
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Site Area (Ha): 0.95
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Datasheet

Order Details:

Order Number:

103468689_1_1

Customer Reference:

40630

National Grid Reference:

423190, 403510

Slice:

A

Site Area (Ha):

0.95

Search Buffer (m):

1000

Site Details:

11 New Smithy Avenue

Thurlstone

SHEFFIELD

S36 9QZ

Client Details:

Miss E Turner

Eastwood & Partners Ltd

St Andrews House

23 Kingfield Road

Sheffield

S11 9AS

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	20
Hazardous Substances	-
Geological	23
Industrial Land Use	31
Sensitive Land Use	35
Data Currency	36
Data Suppliers	41
Useful Contacts	42

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					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 2		2	9	18
Prosecutions Relating to Controlled Waters			n/a	n/a	n/a
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	pg 9		3		1
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 10		Yes		
Pollution Incidents to Controlled Waters	pg 10		4	10	3
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 13		1		
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 13			1	1
Water Abstractions	pg 13				1 (*16)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 17	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 17	Yes	n/a	n/a	n/a
Superficial Aquifer Designations			n/a	n/a	n/a
Source Protection Zones					
Extreme Flooding from Rivers or Sea without Defences	pg 17		Yes	n/a	n/a
Flooding from Rivers or Sea without Defences	pg 17		Yes	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 18		Yes	Yes	n/a
Detailed River Network Offline Drainage	pg 19		Yes	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	pg 20				2
Historical Landfill Sites	pg 20				4
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)					
Local Authority Landfill Coverage	pg 21	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 21				3
Potentially Infilled Land (Non-Water)	pg 21		2	4	3
Potentially Infilled Land (Water)	pg 22		1		2
Registered Landfill Sites	pg 22				2
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					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 23	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 23	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 27		2	3	5
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
Brine Compensation Area			n/a	n/a	n/a
Coal Mining Affected Areas	pg 29	Yes	n/a	n/a	n/a
Mining Instability	pg 29	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 29	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 29		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 29	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 29		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 29		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
Industrial Land Use					
Contemporary Trade Directory Entries	pg 31		7	3	6
Fuel Station Entries					
Points of Interest - Commercial Services	pg 32		2	2	
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 32		5		9
Points of Interest - Public Infrastructure	pg 33		2	4	6
Points of Interest - Recreational and Environmental					
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 35		1		
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					
World Heritage Sites					

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (N)	0	2	423194 403512
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	33	2	423200 403450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	33	2	423250 403450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	57	2	423300 403450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (S)	78	2	423150 403400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	78	2	423194 403400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	80	2	423100 403400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	83	2	423250 403400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	84	2	423350 403450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (S)	128	2	423150 403350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	142	2	423050 403350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	169	2	423000 403350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	179	2	423100 403300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	204	2	422950 403350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	310	2	422900 403250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	345	2	422850 403250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	380	2	422850 403200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	400	2	422750 403300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	416	2	422800 403200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	425	2	422750 403250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	435	2	423700 403650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	436	2	423300 403050

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	451	2	422800 403150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (SE)	458	2	423400 403050
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (SW)	468	2	422700 403250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	478	2	423194 403000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	483	2	423250 403000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	486	2	423300 403000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (SW)	487	2	422750 403150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	493	2	423350 403000
1	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Thurlstone Windmill Lane, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 27th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	196	3	423390 403340
1	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Thurlstone Windmill Lane, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 30th June 1993 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	200	3	423390 403335
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Thurlstone - Mill Lane, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 30th June 1993 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	309	3	422895 403255

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Windmill Lane, Thurlstone, BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Don Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	313	3	422895 403250
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Mill Lane, Thurlstone, BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Don Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	317	3	422890 403250
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Off Thurlstone Road, Thurlstone, Penistone, BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Don Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	317	3	422895 403245
2	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Thurlstone Bridge, Thurlstone, Penistone, BARNLEY, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge: Freshwater Stream/River Environment: Receiving Water: Don Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	320	3	422890 403245

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers - Water Company Location: Thurlstone No 2 Cso Thurlstone Road, Penistone, Sheffield, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra8207 Permit Version: 1 Effective Date: 31st March 2004 Issued Date: 4th February 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Rive Don Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NW (E)	334	3	423620 403520
4	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Pumping Station - Water Company Location: Wilson Pumping Station, Thurlstone, Penistone, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 1629 Permit Version: 1 Effective Date: 21st August 1963 Issued Date: 21st August 1963 Revocation Date: 8th August 1996 Discharge Type: Trade Discharges - Process Effluent - Water Company (Wtw) Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of River Don Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6) Positional Accuracy: Located by supplier to within 100m	A14SW (E)	427	3	423700 403400
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Thurlstone Road Off, THURLSTONE, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 30th June 1993 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (E)	439	3	423720 403575
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Thurlstone Road Off, THURLSTONE, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Reference: S/UD/91 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 27th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (E)	440	3	423720 403580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: Hoyland Fox Limited Property Type: Iron & Steel Industries Location: Eckland Bridge Works Off A628, Penistone, Sheffield, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7308 Permit Version: 1 Effective Date: 14th March 1997 Issued Date: 14th March 1997 Revocation Date: 23rd May 2007 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Don Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	847	3	422351 403100
6	Discharge Consents Operator: Hoyland Fox Limited Property Type: Iron & Steel Industries Location: Eckland Bridge Works Off A628, Penistone, Sheffield, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra6952 Permit Version: 1 Effective Date: 29th September 1993 Issued Date: 29th September 1993 Revocation Date: 17th May 2007 Discharge Type: Trade Discharges - Cooling Water Discharge: Freshwater Stream/River Environment: Receiving Water: River Don Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	848	3	422350 403100
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 7 Effective Date: 17th April 2012 Issued Date: 17th April 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 6 Effective Date: 1st April 2010 Issued Date: 1st April 2010 Revocation Date: 16th April 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 6 Effective Date: 1st April 2010 Issued Date: 1st April 2010 Revocation Date: 16th April 2012 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 5 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 31st March 2010 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 5 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 31st March 2010 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 3 Effective Date: 11th September 2003 Issued Date: 11th September 2003 Revocation Date: 31st December 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 3 Effective Date: 11th September 2003 Issued Date: 11th September 2003 Revocation Date: 31st December 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 4 Effective Date: 1st January 2004 Issued Date: 11th September 2003 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 4 Effective Date: 1st January 2004 Issued Date: 11th September 2003 Revocation Date: 31st March 2009 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 2 Effective Date: 9th September 1998 Issued Date: 9th September 1998 Revocation Date: 10th September 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 2 Effective Date: 9th September 1998 Issued Date: 9th September 1998 Revocation Date: 10th September 2003 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don & Ingbirchworth Dyke Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 1 Effective Date: 24th October 1997 Issued Date: 24th October 1997 Revocation Date: 8th September 1998 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Ingbirchworth Stw Huddersfield Road, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7365 Permit Version: 1 Effective Date: 24th October 1997 Issued Date: 24th October 1997 Revocation Date: 8th September 1998 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: River Don Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A15NW (E)	964	3	424220 403750
8	Discharge Consents Operator: Mr Tim Savage Property Type: Domestic Property (Single) Location: The Croft Hillside, Thurlstone, Sheffield, South Yorkshire, S36 9qj Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Npswqd005309 Permit Version: 1 Effective Date: 29th October 2008 Issued Date: 29th October 2008 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Culvert, Trib. Of River Don Status: New Consent (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	968	3	422562 402680

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Discharge Consents Operator: Syke Farm Property Type: Mixed Farming Location: Syke Farm, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4088 Permit Version: 2 Effective Date: 26th July 2012 Issued Date: 26th July 2012 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Adjacent To Syke Farm Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	990	3	423700 402600
9	Discharge Consents Operator: Syke Farm Property Type: Mixed Farming Location: Syke Farm, Penistone, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4088 Permit Version: 1 Effective Date: 13th December 1985 Issued Date: 13th December 1985 Revocation Date: 25th July 2012 Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge: Land/Soakaway Environment: Receiving Water: Land Adjacent To Syke Farm Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A9SW (SE)	990	3	423700 402600
10	Local Authority Pollution Prevention and Controls Name: Deepcar Service Station/Fina Petrol Station Location: HARTWELL VAUXHALL, 74-80 Manchester Road, Thurlstone, SHEFFIELD, South Yorkshire, S36 9QT Authority: Sheffield City Council, Environmental Protection Service Permit Reference: 1.4/18 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station Status: Not Supplied Positional Accuracy: Automatically positioned to the address	A13SE (SE)	50	4	423234 403434
11	Local Authority Pollution Prevention and Controls Name: James Durrans & Sons Location: Phoenix Works, Thurlstone, Sheffield, South Yorkshire, S36 9QU Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/107 Dated: 18th November 1993 Process Type: Local Authority Air Pollution Control Description: PG6/10 Coating manufacturing Status: Authorised Positional Accuracy: Automatically positioned to the address	A13SW (SW)	71	5	423127 403407
12	Local Authority Pollution Prevention and Controls Name: James Durrans & Son Location: Plumpton Mills, Leapings Lane, Thurlstone, Sheffield Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/24 Dated: 30th March 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG3/5 Coal, coke and coal product processes Status: Permitted Positional Accuracy: Manually positioned to the address or location	A13SW (SW)	197	5	423005 403311
13	Local Authority Pollution Prevention and Controls Name: Hoyland Fox Location: Eckland Bridge Works, Manchester Road, Millhouse Green, Sheffield, South Yorkshire, S36 9NR Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/41 Dated: 23rd October 1993 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic Status: Permitted Positional Accuracy: Automatically positioned to the address	A7NW (SW)	926	5	422265 403096

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	A13SE (S)	69	-	423237 403407
14	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Unknown Location: A628 Thurlstone/Birkin Lane Don 64 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 8th November 1992 Incident Reference: 138473 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	96	3	423300 403400
15	Pollution Incidents to Controlled Waters Property Type: Not Given Location: River Don, Penistone, THURLSTONE Authority: Environment Agency, North East Region Pollutant: Not Given Note: Pollution Found; No Fish Killed Incident Date: 5th February 1996 Incident Reference: SH960044 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	155	3	423400 403400
15	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: River Don, Thurlstone, PENISTONE Authority: Environment Agency, North East Region Pollutant: Unknown Note: No Fish Killed Incident Date: 5th February 1996 Incident Reference: SH960044 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SE (SE)	159	3	423400 403395
16	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Durrans, Manchester Road, THURLSTONE Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: Pollution Found; No Fish Killed Incident Date: 21st September 1996 Incident Reference: SH960400 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A13SE (S)	182	3	423200 403300
17	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Don At, Thurlstone, PENISTONE Authority: Environment Agency, North East Region Pollutant: Other Sewage Note: No Fish Killed Incident Date: 31st January 1997 Incident Reference: SH970033 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	300	3	423000 403200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: A628 Thurlstone/Birkin Lane Don 64 Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 14th August 1992 Incident Reference: 135726 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	313	3	423600 403500
18	Pollution Incidents to Controlled Waters Property Type: Road Location: Thurlstone Village, Penistone, SHEFFIELD Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Vehicle Washings And De Waxing Note: Fish Killed: No Information Incident Date: 30th August 1997 Incident Reference: SH970463 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	314	3	423600 403495
18	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Inter A628/B6462/Thurlstone Don 63 Authority: Environment Agency, North East Region Pollutant: Wood Based Products Note: Not Supplied Incident Date: 8th January 1990 Incident Reference: 106617 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	318	3	423605 403500
18	Pollution Incidents to Controlled Waters Property Type: Private Sewage (Non-PLC): Combined Sewer Overflow Location: River Don At, THURLSTONE Authority: Environment Agency, North East Region Pollutant: Sewage - Storm Overflow Note: No Fish Killed Incident Date: 18th August 1997 Incident Reference: SH970418 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	319	3	423605 403495
19	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Inter A628/B6462/Thurlstone Don 63 Authority: Environment Agency, North East Region Pollutant: Oils - Lubricating Note: Not Supplied Incident Date: 19th September 1994 Incident Reference: 153151 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14SW (E)	413	3	423700 403500
20	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Inter A628/B6462/Thurlstone Don 63 Authority: Environment Agency, North East Region Pollutant: Rubbish Note: Not Supplied Incident Date: 30th March 1990 Incident Reference: 109136 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	423	3	423700 403595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Inter A628/B6462/Thurlstone Don 63 Authority: Environment Agency, North East Region Pollutant: Construction Materials Note: Not Supplied Incident Date: 21st March 1994 Incident Reference: 150307 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A14NW (E)	424	3	423700 403600
21	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Leapings Lane Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 24th March 1989 Incident Reference: 6829 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	492	3	423000 403000
21	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Manchester Road Authority: Environment Agency, North East Region Pollutant: Mining Water Note: Not Supplied Incident Date: 30th March 1989 Incident Reference: 6833 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A8NW (S)	496	3	423000 402995
22	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Inter A628/B6462/Thurlstone Don 63 Authority: Environment Agency, North East Region Pollutant: Wood Based Products Note: Not Supplied Incident Date: 20th November 1990 Incident Reference: 117214 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NW (SE)	653	3	423700 403000
23	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Foul Sewer Location: Joan Royd Lane Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Not Supplied Incident Date: 9th May 1989 Incident Reference: 6903 Catchment Area: Not Given Receiving Water: No Pollution Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A9NE (SE)	875	3	424000 403000
24	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Sewage Treatment Works Location: Ingbirchworth Sewage Treatment Works, INGBIRCHWORTH Authority: Environment Agency, North East Region Pollutant: Sewage - Treated Effluent Note: River Don; No Fish Killed Incident Date: 30th April 1998 Incident Reference: SH980163 Catchment Area: Don Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A15NW (E)	970	3	424225 403755

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	River Quality Name: River_Don GQA Grade: River_Quality B Reach: Split_Scout_Dyk Estimated Distance (km): 4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13SE (SE)	145	3	423278 403335
25	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 16th October 2004 Incident Reference: 272357 Water Impact: Category 4 - No Impact Air Impact: Category 2 - Significant Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Commercial Waste	A14NW (E)	481	3	423761 403583
26	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 17th August 2004 Incident Reference: 260087 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Commercial Waste	A14NE (E)	632	3	423899 403662
27	Water Abstractions Operator: Hoyland Fox Ltd Licence Number: 2/27/05/127 Permit Version: 100 Location: River Don Authority: Environment Agency, North East Region Abstraction: Metal: Non-Evaporative Cooling Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Eckland Bridge Works, Penistone Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	879	3	422330 403070
	Water Abstractions Operator: Hoyland Fox Ltd Licence Number: 2/27/05/162 Permit Version: 100 Location: Borehole Authority: Environment Agency, North East Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 400 Yearly Rate (m3): 65000 Details: Eckland Bridge Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	1027	3	422200 403000
	Water Abstractions Operator: Hoyland Fox Ltd Licence Number: 2/27/05/162 Permit Version: 100 Location: Borehole - Coal Measures - Eckland Bridge Works Authority: Environment Agency, North East Region Abstraction: Metal: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Eckland Bridge Works Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7NW (SW)	1027	3	422200 403000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr E Davies Licence Number: 2/27/05/107 Permit Version: 100 Location: Borehole - Coal Measures - Penistone - Sheffield Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 9 Yearly Rate (m3): 3319 Details: Royd Moor House & Royd Moor Lathe, Nr. Penistone Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A17SW (NW)	1072	3	422200 404100
	Water Abstractions Operator: G H Dickinson Licence Number: 2/27/05/004 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: Domestic & Agriculture Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 11 Yearly Rate (m3): 3864 Details: Coal Measures Licence 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	A17NW (NW)	1190	3	422200 404300
	Water Abstractions Operator: Yorkshire Water Services Ltd Licence Number: 2/27/05/013 Permit Version: 100 Location: Royd Moor Storage Reservoir Authority: Environment Agency, North East Region Abstraction: Public Water Supply: Potable Water Supply - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 2954900 Details: N/A Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 7th December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A22SW (NW)	1454	3	422400 404800
	Water Abstractions Operator: The Coal Authority Licence Number: Ne/027/0005/001 Permit Version: 1 Location: Former Coal Mining Adit - Coal Measures at Bullhouse Colliery Authority: Environment Agency, North East Region Abstraction: Environmental: Pump & Treat: Pollution Remediation Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: N/A Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 30th June 2009 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1734	3	421472 402906

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: William Cook Hi-Tec Integrity Ltd Licence Number: 2/27/05/010 Permit Version: 100 Location: Borehole X2 - Coal Measures - Penistone Authority: Environment Agency, North East Region Abstraction: Mineral Products: General Use (Medium Loss) Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 136 Yearly Rate (m3): 45460 Details: Foundry, Green Road, Penistone. Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 31st May 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(E)	1817	3	425000 402900
	Water Abstractions Operator: O H Flint Licence Number: 2/27/05/159 Permit Version: 100 Location: Borehole - Coal Measures - Penistone Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 5 Yearly Rate (m3): 1990 Details: Edge Hill Farm, Penistone, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th February 1975 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1817	3	423600 401700
	Water Abstractions Operator: A Dickinson Licence Number: 2/27/05/003 Permit Version: 100 Location: Borehole - Coal Measures - Thurlstone Sheffield Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 14 Yearly Rate (m3): 4546 Details: Far Royds Moor Farm, Thurlstone, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 21st May 1976 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A21SW (NW)	1831	3	421700 404700
	Water Abstractions Operator: Hoyland Fox Ltd Licence Number: 2/27/05/127 Permit Version: 100 Location: River Don Authority: Environment Agency, North East Region Abstraction: Other Industrial/Commercial/Public Services: General Cooling (Existing Licences Only) (Low Loss) Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): 5564 Yearly Rate (m3): 392229 Details: Eckland Bridge Works, Penistone Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 11th January 1999 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(W)	1847	3	421300 403100

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Booth Brothers Ltd Licence Number: Ne/027/0005/006 Permit Version: 1 Location: River Don At Millhouse Green Authority: Environment Agency, North East Region Abstraction: Electricity: Transfer Between Sources Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Millhouse Green, Penistone Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 12th October 2010 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1871	3	421280 403082
	Water Abstractions Operator: F Aspinall Licence Number: 2/27/05/051 Permit Version: 100 Location: Spring-Hartcliffe Farm-Penistone Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 6 Yearly Rate (m3): 2273 Details: Hartcliff House, Hartcliff Farm, Penistone Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 1966 Permit End Date: Not Supplied Positional Accuracy: Unknown	(SW)	1879	3	422350 401760
	Water Abstractions Operator: F Aspinall Licence Number: 2/27/05/155 Permit Version: 100 Location: Borehole - Coal Measures - Penistone Sheffield Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 8 Yearly Rate (m3): 2820 Details: Hartcliffe Farm, Penistone, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 28th December 1972 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(SW)	1882	3	422390 401740
	Water Abstractions Operator: Mr & Mrs B & M Fretwell Licence Number: 2/27/05/037 Permit Version: 100 Location: Quarry Hole - Coal Measures - Penistone Sheffield Authority: Environment Agency, North East Region Abstraction: General Farming And Domestic Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 4 Yearly Rate (m3): 1318 Details: Rock House Farm, Penistone, Sheffield Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 20th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(S)	1948	3	423180 401530

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Booth Brothers Ltd Licence Number: Ne/027/0005/008 Permit Version: 2 Location: Borehole - Coal Measures - Bullhouse Mill Authority: Environment Agency, North East Region Abstraction: Paper And Printing; Heat Pump 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 April Authorised End: 31 March Permit Start Date: 19th May 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1990	3	421190 402950
	Water Abstractions Operator: Booth Brothers Ltd Licence Number: Ne/027/0005/008 Permit Version: 1 Location: Borehole - Coal Measures - Bullhouse Mill Authority: Environment Agency, North East Region Abstraction: Paper And Printing; Heat Pump 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 April Authorised End: 31 March Permit Start Date: 11th January 2011 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(W)	1990	3	421190 402950
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (H3)- Coarse textured or moderately shallow soils which readily transmit non-absorbed pollutants and liquid discharges but which have some ability to attenuate absorbed pollutants because of their large clay or organic matter contents Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A13SW (N)	0	3	423194 403512
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SW (N)	0	2	423194 403512
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	76	3	423236 403400
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models and Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	203	3	422999 403308
	Extreme Flooding from Rivers or Sea without Defences Type: Extent of Extreme Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Events Boundary Accuracy: As Supplied	A13SW (SW)	206	3	422976 403321
	Flooding from Rivers or Sea without Defences Type: Extent of Flooding from Rivers or Sea without Defences Flood Plain Type: Fluvial Models Boundary Accuracy: As Supplied	A13SE (S)	78	3	423240 403399
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	Detailed River Network Lines River Type: Primary River River Name: River Don Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DON Name: Water Course: 0252 Reference:	A13SE (S)	94	3	423221 403381
29	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 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)	205	3	423027 403291
30	Detailed River Network Lines River Type: Primary River River Name: River Don Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DON Name: Water Course: 0252 Reference:	A13SW (SW)	210	3	423038 403281
31	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 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)	378	3	423659 403444
32	Detailed River Network Lines River Type: Secondary River River Name: Not Supplied Hydrographic Area: D004 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)	378	3	423659 403444
33	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 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:	A14SW (E)	382	3	423662 403439

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
34	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 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)	405	3	423669 403372
35	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Not Supplied Hydrographic Area: D004 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:	A14SW (E)	413	3	423668 403348
36	Detailed River Network Lines River Type: Primary River River Name: Not Supplied Hydrographic Area: D004 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Flood Risk Management Indicative/Statutory Main River Management Status: Water Course: RIVER DON Name: Water Course: 0252 Reference:	A14NW (E)	413	3	423697 403553
37	Detailed River Network Lines River Type: Tertiary River River Name: Not Supplied Hydrographic Area: D004 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)	459	3	423686 403279
38	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A13SE (S)	77	3	423222 403403
39	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A13NW (N)	274	3	423150 403808
40	Detailed River Network Offline Drainage River Type: Tertiary River Hydrographic Area: D004	A18SW (N)	446	3	423182 403984

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
41	BGS Recorded Landfill Sites Site Name: Thurlstone Road Location: PENISTONE, South Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A14NW (NE)	556	-	423767 403811
42	BGS Recorded Landfill Sites Site Name: Stottercliffe Road Location: PENISTONE, South Yorkshire Authority: British Geological Survey, National Geoscience Information Service Ground Water: No threat to ground water Surface Water: No threat to surface water Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Moderate	A14SE (E)	838	-	424113 403364
43	Historical Landfill Sites Licence Holder: Not Supplied Location: Penistone, South Yorkshire Name: Thurlstone Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04307 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Household Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0519 BGS Ref: Not Supplied Other Ref: 20B261(33), 4400/B261, (117)B	A14NW (NE)	554	3	423765 403811
44	Historical Landfill Sites Licence Holder: Not Supplied Location: Penistone, South Yorkshire Name: Thurlstone Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD31835 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste: Deposited Waste included Industrial and Commercial Waste, and Liquid Sludge Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: Not Supplied BGS Ref: 715 Other Ref: Not Supplied	A14NW (NE)	556	3	423767 403811
45	Historical Landfill Sites Licence Holder: Mr A Gill Location: Thurlstone Road, Penistone, Sheffield Name: T.A. Centre Operator Location: Nethfield Farm, Huddersfield Road, Penistone Boundary Accuracy: As Supplied Provider Reference: EAHLD04924 First Input Date: 7th May 1982 Last Input Date: 29th April 1994 Specified Waste: Deposited Waste included Inert and Commercial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0436 BGS Ref: Not Supplied Other Ref: 4400/(33), WD20 B261	A14NE (E)	796	3	424046 403754

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
46	Historical Landfill Sites Licence Holder: Barnsley Metropolitan Borough Council Amenities and Recreation Dept Location: Penistone, South Yorkshire Name: Stottercliffe Road Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04305 First Input Date: 30th April 1978 Last Input Date: 31st December 1984 Specified Waste: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0413 BGS Ref: 714 Other Ref: 20B60(10), 4400/B60, WD20 B60	A14SE (E)	814	3	424087 403361
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	5	423194 403512
47	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 117 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14NW (NE)	554	5	423758 403822
48	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 33 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14NE (E)	796	5	424046 403754
49	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 10 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14SE (E)	855	5	424129 403361
50	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SE (S)	171	-	423275 403314
51	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SW (W)	194	-	422915 403458
52	Potentially Infilled Land (Non-Water) Bearing Ref: S Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A13SW (S)	290	-	423094 403189
53	Potentially Infilled Land (Non-Water) Bearing Ref: W Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A12SE (W)	325	-	422784 403458
54	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NW (SW)	407	-	422978 403094

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A8NW (SW)	425	-	422991 403071
56	Potentially Infilled Land (Non-Water) Bearing Ref: E Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A14SE (E)	685	-	423910 403221
57	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A7SE (SW)	879	-	422743 402680
58	Potentially Infilled Land (Non-Water) Bearing Ref: SE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1989	A9NE (SE)	884	-	424002 402987
59	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A13SE (E)	187	-	423473 403492
60	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1907	A19SW (NE)	699	-	423632 404149
61	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1955	A14NE (E)	751	-	424037 403533
62	Registered Landfill Sites Licence Holder: A Gill Licence Reference: WD20 B 261 MOD 3 Site Location: Adj. T.A. Centre, Thurlston Road, Penistone, Sheffield, South Yorkshire Licence Easting: 424100 Licence Northing: 403750 Operator Location: Huddersfield Road, Penistone, Sheffield, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Medium (Equal to or greater than 25,000 and less than 75,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1982 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Demolition Wastes Excav'N Spoil, Sub/Topsoil Prohibited Waste: Waste N.O.S.	A14NE (E)	847	3	424100 403750
63	Registered Landfill Sites Licence Holder: Barnsley M.B.C. Licence Reference: WD20 B 60 Site Location: Stottercliffe Road, Penistone, Sheffield, South Yorkshire Licence Easting: 424200 Licence Northing: 403350 Operator Location: Amenities/Recreation, 50 Huddersfield Road, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st April 1978 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction And Demolition Wastes Foundry Sand Prohibited Waste: Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	A14SE (E)	927	3	424200 403350

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Lower Coal Measures Formation And South Wales Lower Coal Measures Formation (Undifferentiated)	A13SW (N)	0	2	423194 403512
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (N)	0	2	423194 403512
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (S)	54	2	423201 403425
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (E)	140	2	423410 403592
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SW (SW)	194	2	423077 403286
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13SE (E)	213	2	423500 403512
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (E)	222	2	423500 403567

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: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A13SW (SW)	265	2	422946 403270
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	274	2	423500 403706
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SE (N)	317	2	423223 403879
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A13NE (NE)	360	2	423500 403829
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	362	2	423648 403488
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	397	2	423684 403500

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: Rural Soil Arsenic: 25 - 35 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 120 - 180 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 30 - 45 mg/kg Concentration:	A12SE (SW)	420	2	422796 403198
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	451	2	423698 403320
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: <15 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A8NW (S)	478	2	423194 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A18SW (NW)	491	2	422964 404000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A14SW (E)	600	2	423871 403370
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic: 15 - 25 mg/kg Concentration: Cadmium: <1.8 mg/kg Concentration: Chromium: 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel: 15 - 30 mg/kg Concentration:	A17SE (NW)	682	2	422613 404000

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: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	713	2	424000 403496
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	719	2	424000 403420
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14SE (E)	731	2	424017 403500
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A14NE (E)	772	2	424000 403817
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NW (SE)	773	2	423872 403000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: 100 - 200 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	808	2	424000 403907

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: Rural Soil Arsenic <15 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A19SE (NE)	853	2	424000 404000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 90 - 120 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	881	2	424002 402992
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic 15 - 25 mg/kg Concentration: Cadmium <1.8 mg/kg Concentration: Chromium 60 - 90 mg/kg Concentration: Lead Concentration: <100 mg/kg Nickel 15 - 30 mg/kg Concentration:	A9NE (SE)	881	2	424008 403000
64	BGS Recorded Mineral Sites Site Name: Thurlstone Location: , Thurlstone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37968 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SW (W)	112	2	422996 403490
65	BGS Recorded Mineral Sites Site Name: Hornthwaite Location: , Thurlstone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37967 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	163	2	423341 403346
66	BGS Recorded Mineral Sites Site Name: Thurlstone Location: , Thurlstone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37966 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (SW)	380	2	423006 403114

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
67	BGS Recorded Mineral Sites Site Name: Thurlstone Location: , Thurlstone, Penistone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 10052 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (S)	387	2	423060 403095
68	BGS Recorded Mineral Sites Site Name: White House Location: , Thurlstone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 95892 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12SE (W)	403	2	422705 403465
69	BGS Recorded Mineral Sites Site Name: Rock Side Location: , Thurlstone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 97482 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NE (W)	545	2	422592 403703
70	BGS Recorded Mineral Sites Site Name: Rock Side Location: , Thurlstone, Penistone, Sheffield Source: British Geological Survey, National Geoscience Information Service Reference: 10532 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A12NW (W)	608	2	422505 403605
71	BGS Recorded Mineral Sites Site Name: Rud Brook Lane Location: , Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 37965 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A9NE (SE)	893	2	424006 402976
72	BGS Recorded Mineral Sites Site Name: Hillside Quarry Location: Cross Lane, Thurlstone, Sheffield, South Yorkshire, S36 9qj Source: British Geological Survey, National Geoscience Information Service Reference: 37982 Type: Opencast Status: Active Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Grenoside Sandstone Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	894	2	422745 402663

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
73	BGS Recorded Mineral Sites Site Name: Scout Dike Reservoir Puddle Field Location: Scout Dike Reservoir, Thurlstone, Penistone, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 111469 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Lower Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18NE (N)	901	2	423346 404444
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SW (N)	0	6	423194 403512
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SW (N)	0	-	423194 403512
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	113	2	423197 403369
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	113	2	423197 403369
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	29	2	423195 403450
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	113	2	423197 403369
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	250	2	423534 403472
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	29	2	423195 403450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	113	2	423197 403369
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	156	2	423280 403325
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	170	2	423061 403316
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SW (SW)	200	2	423091 403280
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	235	2	423378 403762
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SW (N)	0	2	423194 403512

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
74	Contemporary Trade Directory Entries Name: Triple S Trucking Location: 83, Manchester Road, Thurlstone, Sheffield, S36 9QR Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (S)	36	-	423198 403447
74	Contemporary Trade Directory Entries Name: Springvale Service Station Location: 83, Manchester Road, Thurlstone, Sheffield, S36 9QR Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SE (S)	36	-	423198 403447
75	Contemporary Trade Directory Entries Name: D C Agricultural Supplies Location: 60, Manchester Road, Thurlstone, SHEFFIELD, S36 9QT Classification: Agricultural Merchants Status: Active Positional Accuracy: Automatically positioned to the address	A13SE (SE)	43	-	423267 403443
76	Contemporary Trade Directory Entries Name: M B S Northern Location: 26, New Smithy Avenue, Thurlstone, Sheffield, S36 9QZ Classification: Blast Cleaning Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (NE)	63	-	423238 403604
77	Contemporary Trade Directory Entries Name: James Durrans Group Location: Phoenix Works, Thurlstone, Sheffield, S36 9QU Classification: Coating Specialists Status: Active Positional Accuracy: Automatically positioned to the address	A13SW (SW)	72	-	423127 403407
78	Contemporary Trade Directory Entries Name: Crossland Location: Westfield Av, Thurlstone, Sheffield, South Yorkshire, S36 9RL Classification: Water Coolers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (N)	110	-	423154 403644
79	Contemporary Trade Directory Entries Name: Fast Tyres Uk Ltd Location: Mill Lane Cottage, Mill Lane, Thurlstone, Sheffield, S36 9QX Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13SW (SW)	182	-	422962 403371
80	Contemporary Trade Directory Entries Name: J K'S Recovery & Mechanical Services Location: Stottercliffe Road, Thurlstone, Sheffield, South Yorkshire, S36 9RF Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14SW (E)	364	-	423641 403423
81	Contemporary Trade Directory Entries Name: Scrap My Car Now For Money Sheffield Kws Location: The Parsonage House, Manchester Road, Thurlstone, Sheffield, S36 9QS Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SE (W)	431	-	422690 403373
82	Contemporary Trade Directory Entries Name: Kent Transport Location: Syke View, Hornthwaite Hill Road, Thurlstone, Sheffield, S36 9QL Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8NW (S)	500	-	422987 402994
83	Contemporary Trade Directory Entries Name: J F Aqua Services Location: 84, Bluebell Avenue, Penistone, Sheffield, S36 6LQ Classification: Blast Cleaning Status: Active Positional Accuracy: Automatically positioned to the address	A14SE (E)	777	-	423994 403186
84	Contemporary Trade Directory Entries Name: Ben Addison Ltd Location: 12, Foxmill View, Millhouse Green, Sheffield, S36 9AB Classification: Electrical Engineers Status: Inactive Positional Accuracy: Automatically positioned to the address	A12SW (W)	844	-	422302 403231

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
85	Contemporary Trade Directory Entries Name: Plastics Recycled Location: Unit 3, Century Works, Manchester Rd, Millhouse Green, Sheffield, South Yorkshire, S36 9LQ Classification: Recycling Centres Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A12SW (W)	893	-	422242 403262
86	Contemporary Trade Directory Entries Name: Eiland Communication Ltd Location: 29, Ecklands Croft, Millhouse Green, Sheffield, S36 9AJ Classification: Marine Electrical Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NW (W)	924	-	422247 403145
87	Contemporary Trade Directory Entries Name: Penistone Wire Location: Stanley Mills, Talbot Road, Penistone, Sheffield, S36 9ED Classification: Wire Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A15NW (E)	939	-	424223 403572
88	Contemporary Trade Directory Entries Name: Century Commercials Ltd Location: Unit 3, Century Works, Manchester Rd, Millhouse Green, Sheffield, South Yorkshire, S36 9LQ Classification: Commercial Vehicle Bodybuilders & Repairers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A7NW (SW)	960	-	422256 403036
89	Points of Interest - Commercial Services Name: Triple S Trucking Location: 83 Manchester Road, Thurlstone, Sheffield, S36 9QR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	36	7	423198 403447
89	Points of Interest - Commercial Services Name: Triple F Trucking Location: 83 Manchester Road, Thurlstone, Sheffield, S36 9QR Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13SE (S)	36	7	423198 403447
90	Points of Interest - Commercial Services Name: Kent Transport Location: Syke View, Hornthwaite Hill Road, Thurlstone, Sheffield, S36 9QL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	500	7	422987 402994
90	Points of Interest - Commercial Services Name: Kent Transport Location: Syke View, Hornthwaite Hill Road, Thurlstone, Sheffield, S36 9QL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A8NW (S)	500	7	422987 402994
91	Points of Interest - Manufacturing and Production Name: Phoenix Works Location: S36 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A13SW (SW)	68	7	423133 403410
91	Points of Interest - Manufacturing and Production Name: Phoenix Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	71	7	423132 403407
92	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: S36 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A13SW (W)	126	7	422981 403508

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
92	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: S36 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to an adjacent address or location	A13SW (W)	161	7	422947 403484
93	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A13SE (E)	137	7	423421 403480
94	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	510	7	423789 403594
94	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	526	7	423800 403622
94	Points of Interest - Manufacturing and Production Name: Factory Location: S36 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NW (E)	529	7	423806 403608
94	Points of Interest - Manufacturing and Production Name: Works Location: S36 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NW (E)	534	7	423807 403626
95	Points of Interest - Manufacturing and Production Name: Quarry (Disused) Location: S36 Category: Extractive Industries Class Code: Unspecified Quarries Or Mines Positional Accuracy: Positioned to address or location	A12NW (W)	601	7	422512 403607
96	Points of Interest - Manufacturing and Production Name: Tank Location: S36 Category: Industrial Features Class Code: Tanks (Generic) Positional Accuracy: Positioned to an adjacent address or location	A7NW (W)	855	7	422316 403157
97	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	937	7	422244 403116
97	Points of Interest - Manufacturing and Production Name: Eckland Bridge Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	993	7	422198 403082
98	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A7NW (SW)	974	7	422271 402981
99	Points of Interest - Public Infrastructure Name: Weir Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	172	7	423114 403306

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Points of Interest - Public Infrastructure Name: Sluice Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	199	7	423091 403281
100	Points of Interest - Public Infrastructure Name: Weir Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A13SW (SW)	290	7	422929 403251
101	Points of Interest - Public Infrastructure Name: Weir Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	435	7	423720 403546
101	Points of Interest - Public Infrastructure Name: Sluice Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	439	7	423722 403561
101	Points of Interest - Public Infrastructure Name: Weir Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	475	7	423758 403567
102	Points of Interest - Public Infrastructure Name: Weir Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	590	7	422627 403137
102	Points of Interest - Public Infrastructure Name: Sluice Location: S36 Category: Water Class Code: Weirs, Sluices and Dams Positional Accuracy: Positioned to an adjacent address or location	A7NE (SW)	603	7	422604 403148
103	Points of Interest - Public Infrastructure Name: Cemetery Location: S36 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	686	7	423966 403412
103	Points of Interest - Public Infrastructure Name: Stottercliffe Cemetery Location: S36 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	739	7	424021 403419
103	Points of Interest - Public Infrastructure Name: Stottercliffe Cemetery Location: Not Supplied Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A14SE (E)	784	7	424065 403416
104	Points of Interest - Public Infrastructure Name: Graveyard Location: S36 Category: Infrastructure and Facilities Class Code: Cemeteries and Crematoria Positional Accuracy: Positioned to an adjacent address or location	A19SE (E)	971	7	424180 403904

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	Areas of Adopted Green Belt Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Unitary Development Plan Status: Adopted Plan Date: 31st December 2000	A13SW (W)	24	9	423084 403487

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Sheffield City Council - Environmental Protection Service Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Kirklees Metropolitan Borough Council - Planning Services	January 2015 July 2013 November 2013	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	July 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North East Region	July 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Kirklees Metropolitan Borough Council - Environmental Health Department Sheffield City Council - Environmental Protection Service	April 2014 April 2014 June 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Kirklees Metropolitan Borough Council - Environmental Health Department Sheffield City Council - Environmental Protection Service	April 2014 April 2014 June 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Kirklees Metropolitan Borough Council - Environmental Health Department Sheffield City Council - Environmental Protection Service	April 2014 April 2014 June 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 East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North East 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 East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2016 July 2016	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	July 2016	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	July 2016	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	August 2015	As notified

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	October 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	October 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	October 2016	Quarterly
Flood Defences Environment Agency - Head Office	October 2016	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
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	August 2016	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	August 2016 August 2016	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2016 July 2016	Quarterly Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Kirklees Metropolitan Borough Council - Planning Services Sheffield City Council - Environmental Protection Service	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Kirklees Metropolitan Borough Council - Planning Services Sheffield City Council - Environmental Protection Service	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Kirklees Metropolitan Borough Council - Planning Services Peak District National Park - Development Control Sheffield City Council Barnsley Metropolitan Borough Council - Planning Department	August 2015 February 2016 February 2016 January 2016	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Kirklees Metropolitan Borough Council - Planning Services Peak District National Park - Development Control Sheffield City Council Barnsley Metropolitan Borough Council - Planning Department	August 2015 February 2016 February 2016 January 2016	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	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
Brine Compensation Area Cheshire Brine Subsidence Compensation Board	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	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	May 2015	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	October 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	July 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	September 2016	Quarterly
Points of Interest - Education and Health PointX	September 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	September 2016	Quarterly
Points of Interest - Public Infrastructure PointX	September 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	September 2016	Quarterly
Underground Electrical Cables National Grid	January 2016	Bi-Annually

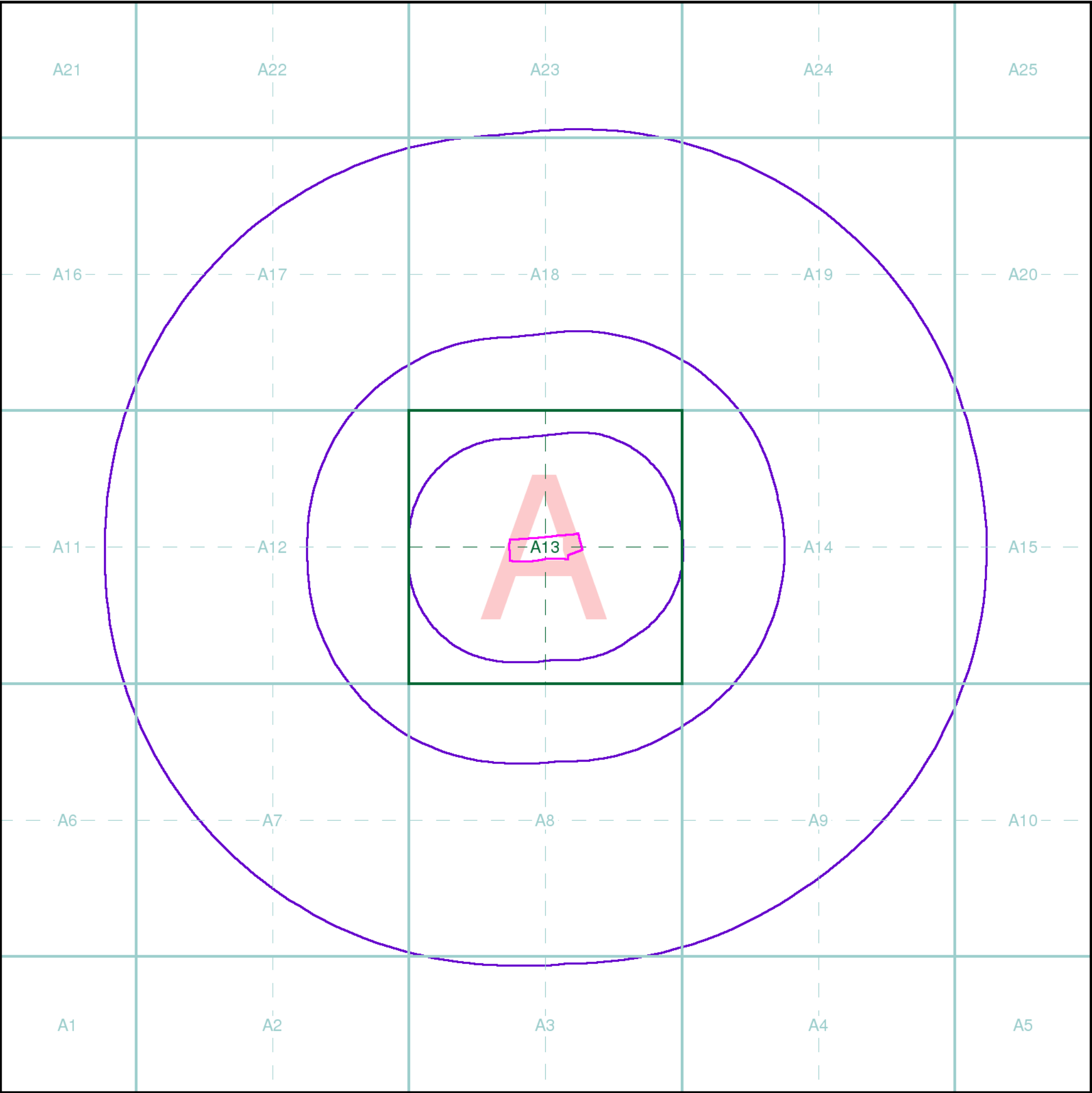
Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Kirklees Metropolitan Borough Council Sheffield City Council	September 2016 September 2016 September 2016	As notified As notified As notified
Areas of Unadopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Kirklees Metropolitan Borough Council Sheffield City Council	September 2016 September 2016 September 2016	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	April 2016	Bi-Annually
Environmentally Sensitive Areas Natural England	September 2016	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	April 2016	Bi-Annually
Marine Nature Reserves Natural England	September 2016	Bi-Annually
National Nature Reserves Natural England	September 2016	Bi-Annually
National Parks Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	April 2016	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2016	Bi-Annually
Special Areas of Conservation Natural England	April 2016	Bi-Annually
Special Protection Areas Natural England	April 2016	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 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	 British Geological Survey NATURAL ENVIRONMENT RESEARCH COUNCIL
Centre for Ecology and Hydrology	 Centre for Ecology & Hydrology NATURAL ENVIRONMENT RESEARCH COUNCIL
Natural Resources Wales	
Scottish Natural Heritage	
Natural England	
Public Health England	
Ove Arup	
Peter Brett Associates	

Contact	Name and Address	Contact Details
2	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
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Sheffield City Council - Environmental Protection Service 2-10 Carbrook Hall Road, Sheffield, S9 2DB	Telephone: 0114 272 6444 Website: www.sheffield.gov.uk
5	Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	Barnsley Metropolitan Borough Council - Planning Department Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
10	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
11	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	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.



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

Miss E Turner, Eastwood & Partners Ltd, St Andrews House, 23 Kingfield Road, Sheffield, S11 9AS

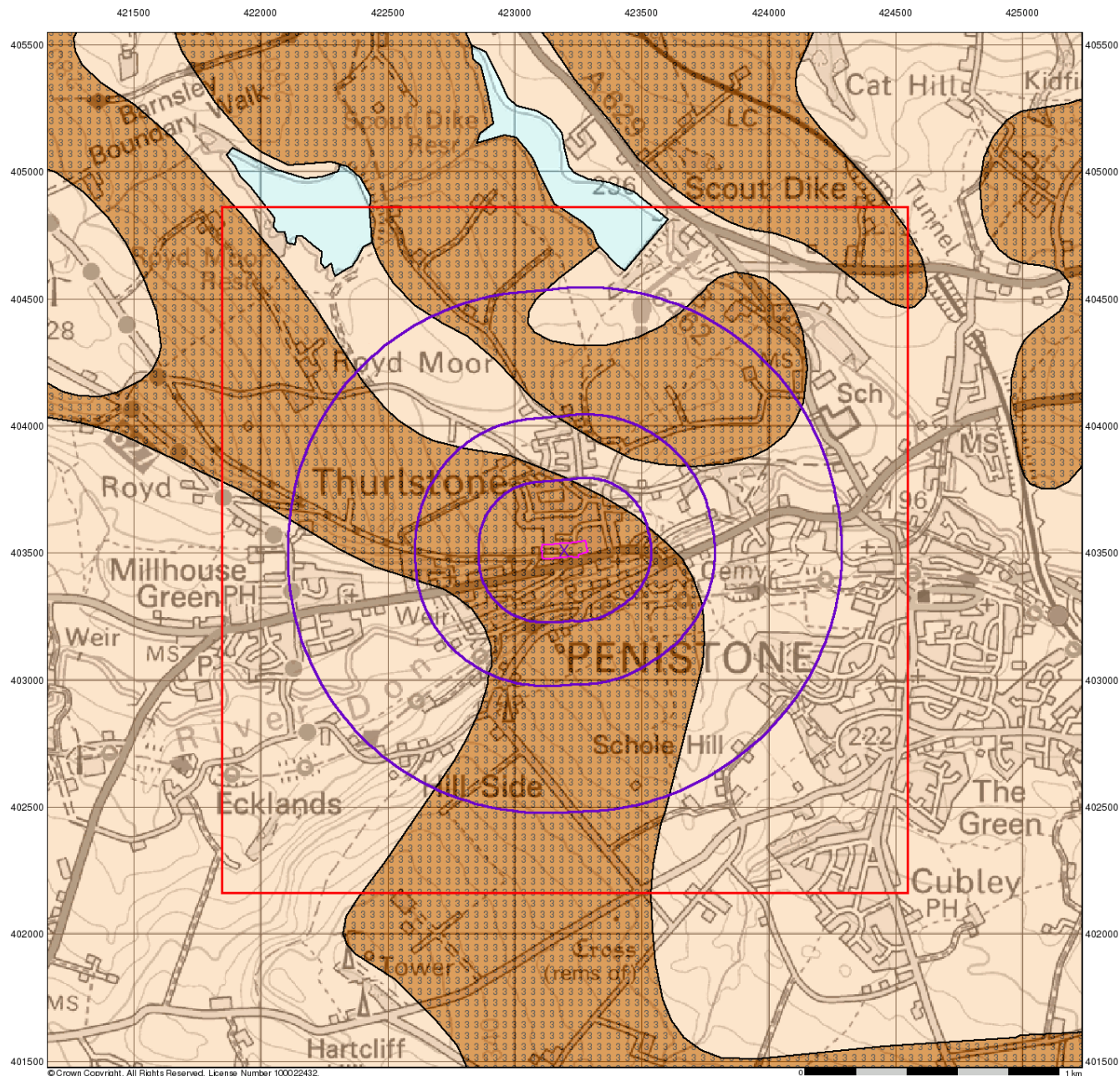
Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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<http://www.landmarkinfo.co.uk/Terms/Show/515>



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0 1 km

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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

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

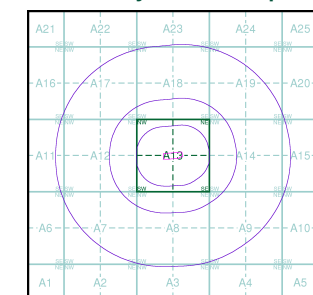
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

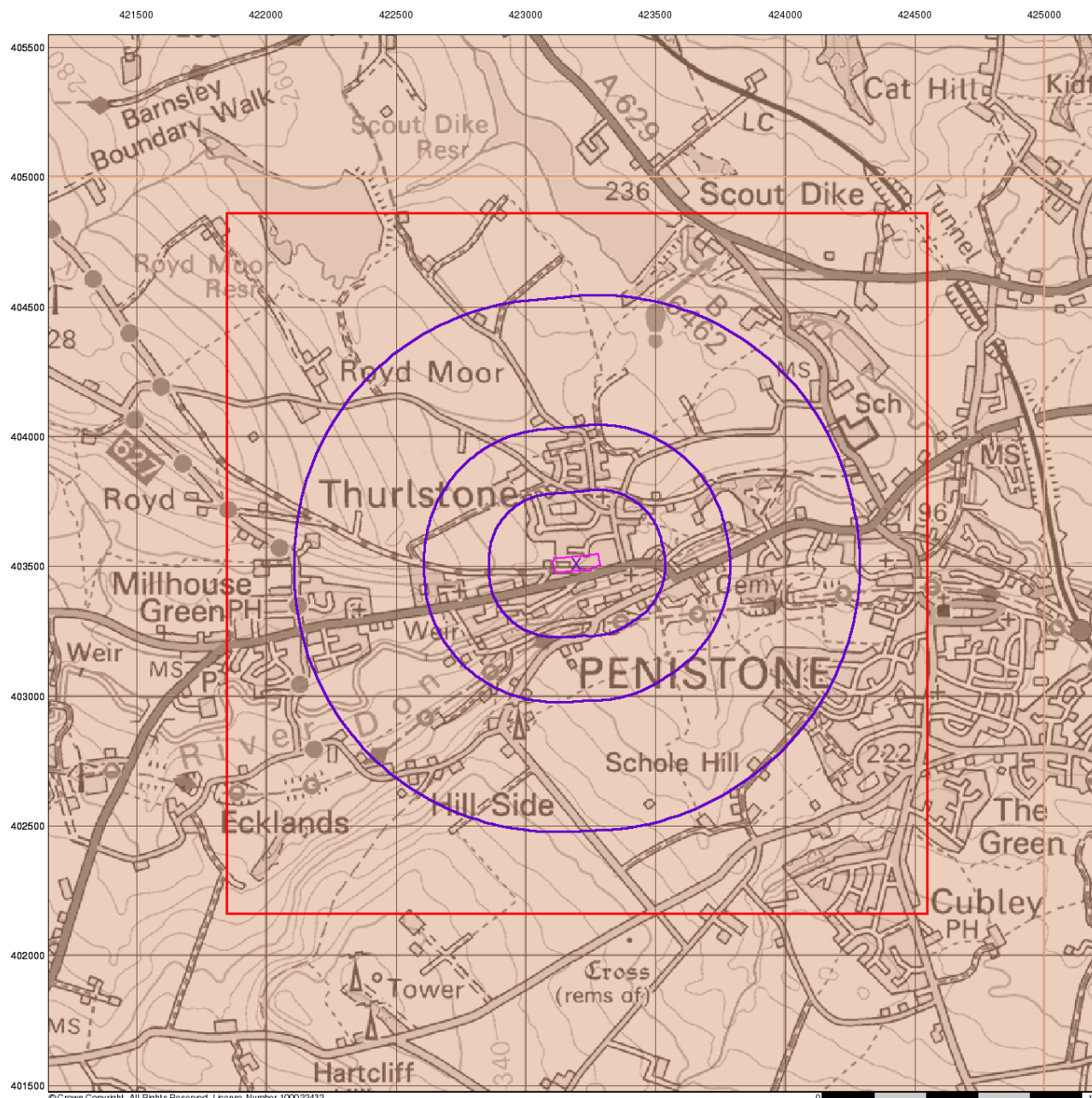
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National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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0 1 km

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Bedrock Aquifer Designation

General

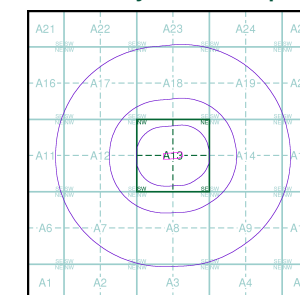
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

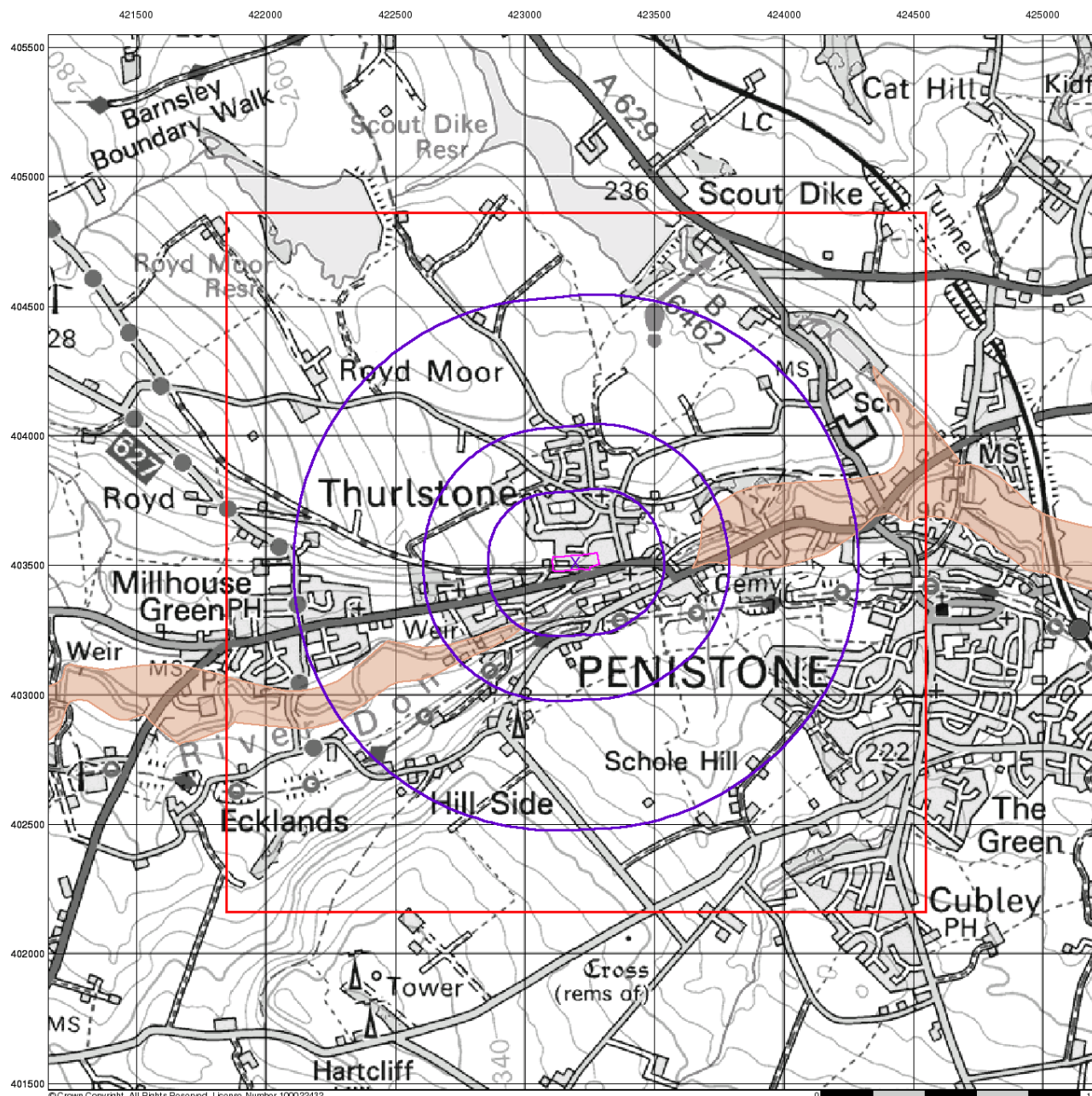
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 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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Superficial Aquifer Designation

General

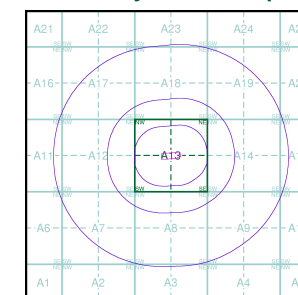
- ◇ Specified Site
- Specified Buffer(s)
- X Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

- Principal Aquifer
- Secondary A Aquifer
- Secondary B Aquifer
- Secondary Undifferentiated
- Unproductive Strata
- Unknown
- Unknown (Lakes and Landslip)

Site Sensitivity Context Map - Slice A



Order Details

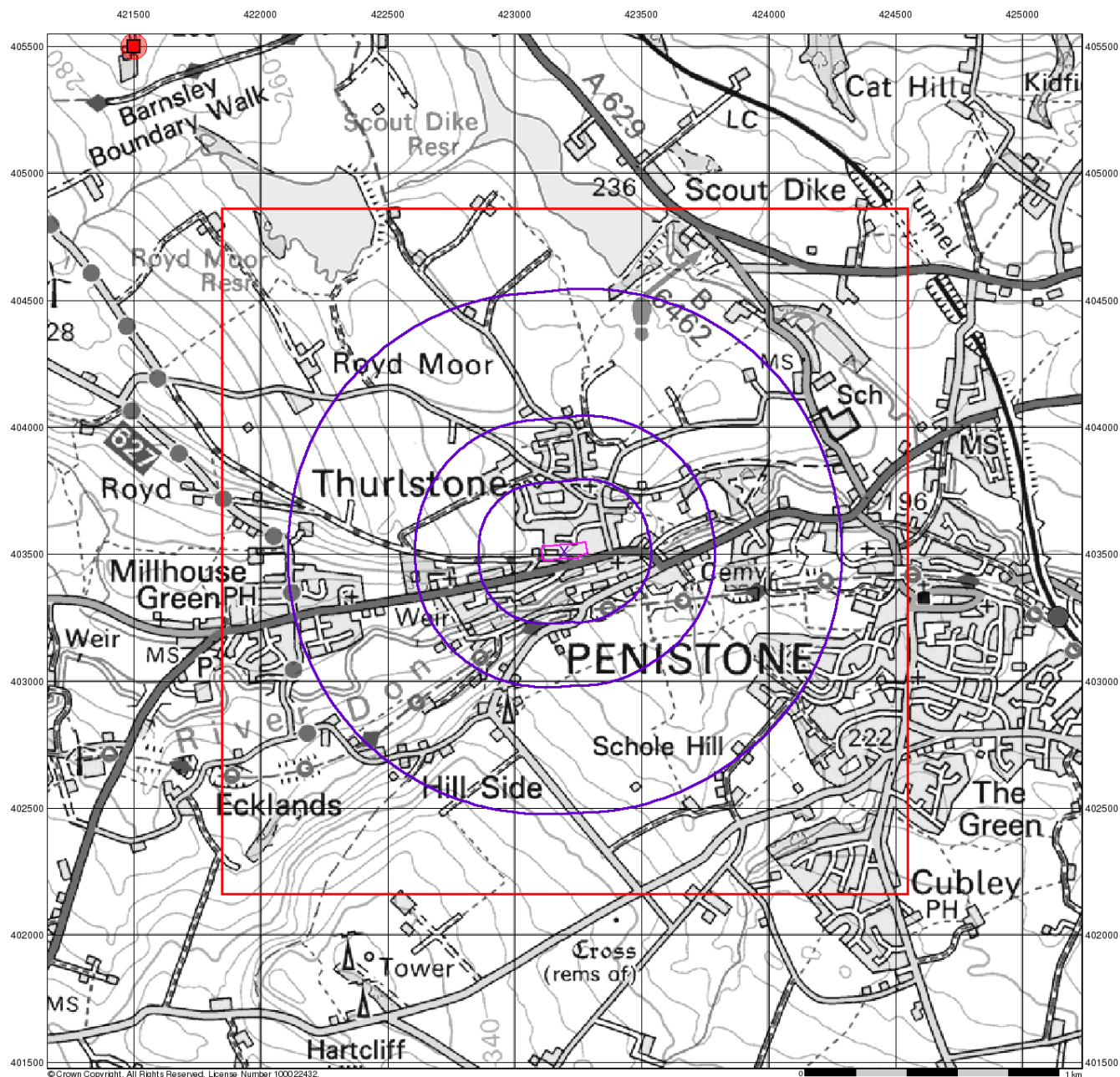
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 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 1000

Site Details

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Source Protection Zones

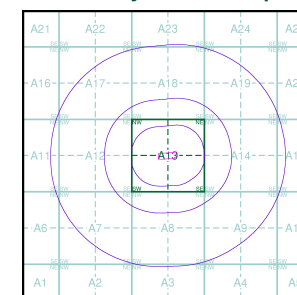
General

- 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

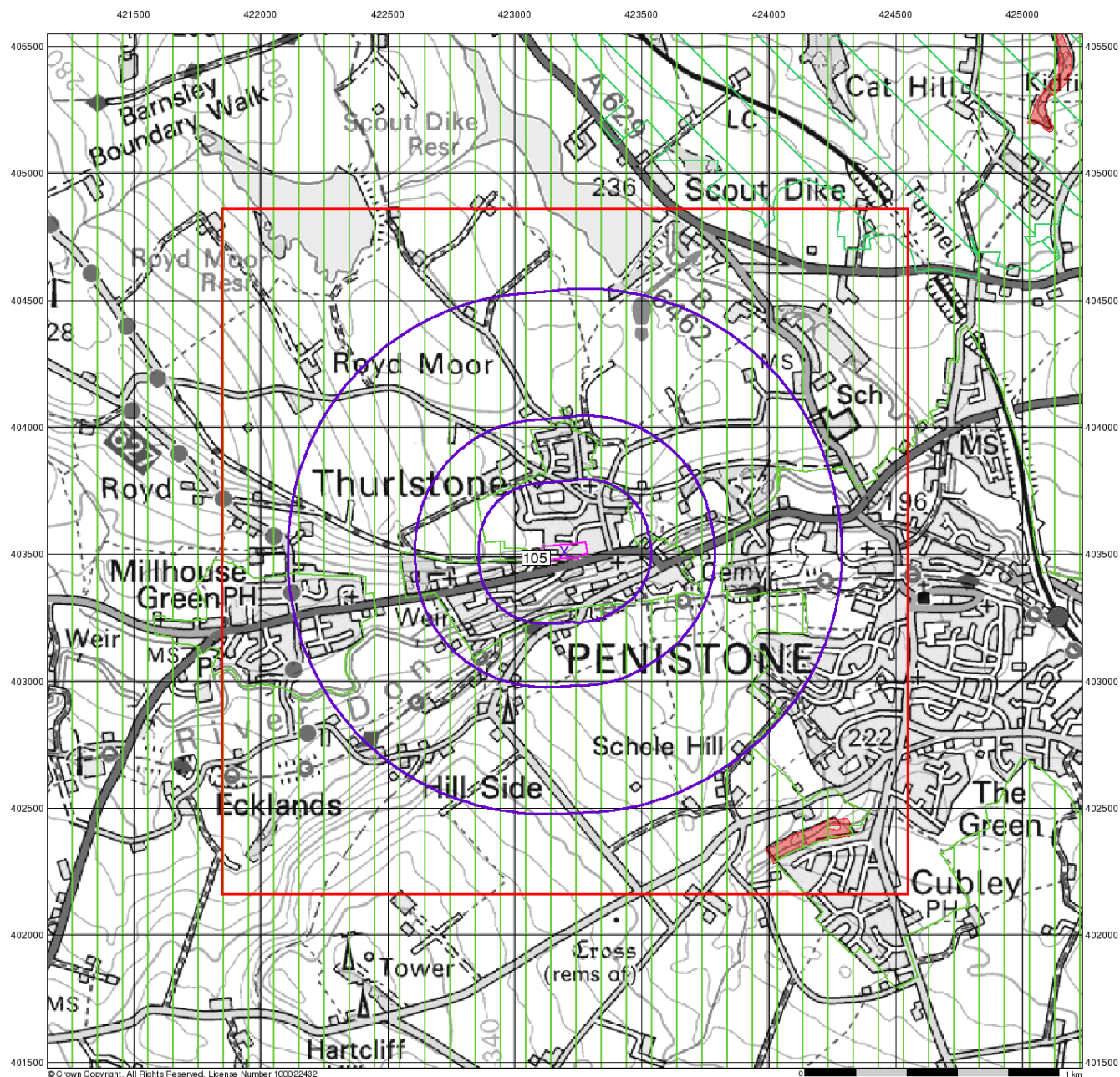
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 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 1000

Site Details

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Sensitive Land Uses

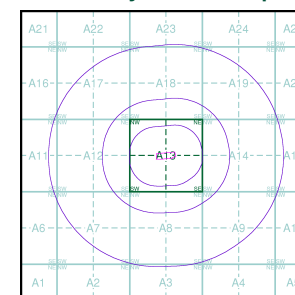
General

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

Sensitive Land Uses

- Ancient Woodland
- 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
- World Heritage Sites

Site Sensitivity Context Map - Slice A



Order Details

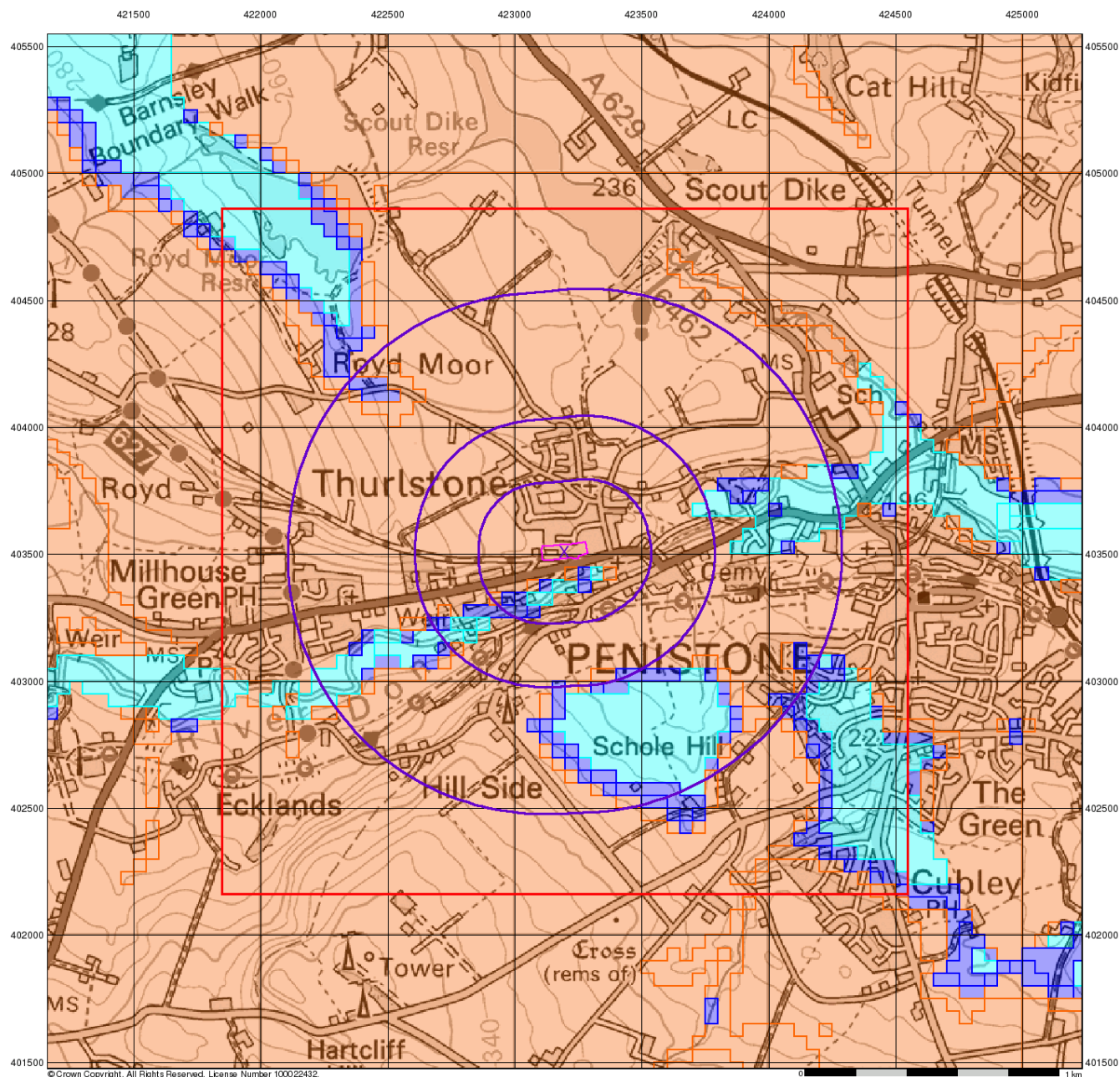
Order Number: 103468689_1_1
 Customer Ref: 40630
 National Grid Reference: 423190, 403510
 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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 Fax: 0844 844 9951
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BGS Flood GFS Data

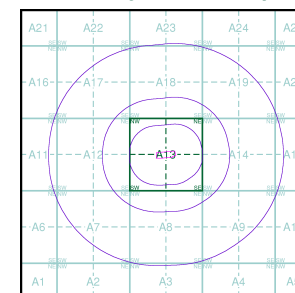
General

- ◇ Specified Site
- ◇ Specified Buffer(s)
- X Bearing Reference Point
- Slice

Agency and Hydrological (Flood)

- Limited Potential for Groundwater Flooding to Occur
- Potential for Groundwater Flooding of Property Situated Below Ground Level
- Potential for Groundwater Flooding to Occur at Surface

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 103468689_1_1
 Customer Ref: 40630
 National Grid Reference: 423190, 403510
 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 1000

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	MGR	Made Ground (Undivided)	Artificial Deposit	Holocene - Holocene
	WGR	Worked Ground (Undivided)	Void	Holocene - Holocene

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	SUPNM	Superficial Theme Not Mapped [For Digital Map Use Only]	Unknown/Unclassified Entry	Not Supplied - Not Supplied
	ALV	Alluvium	Clay, Silty [Unlithified Deposits Coding Scheme]	Flandrian - Flandrian
	ALV	Alluvium	Clay and Silt	Flandrian - Flandrian
	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
	GR	Grenoside Sandstone	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone and Siltstone	Langsettian - Langsettian
	GM	Greenmoor Rock	Sandstone	Langsettian - Langsettian
	PF	Penistone Flags	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Sandstone	Langsettian - Langsettian
	EYR	80 Yard Rock	Sandstone	Langsettian - Langsettian
	PLCM	Pennine Lower Coal Measures Formation	Mudstone, Siltstone and Sandstone	Langsettian - Langsettian
	STNR	Stanningley Rock	Sandstone	Langsettian - Langsettian
		Rock Segments		
		Faults		

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Geology 1:50,000 Maps

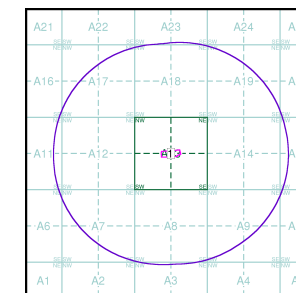
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published 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:	086
Map Name:	Glossop
Map Date:	2012
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A



Order Details:

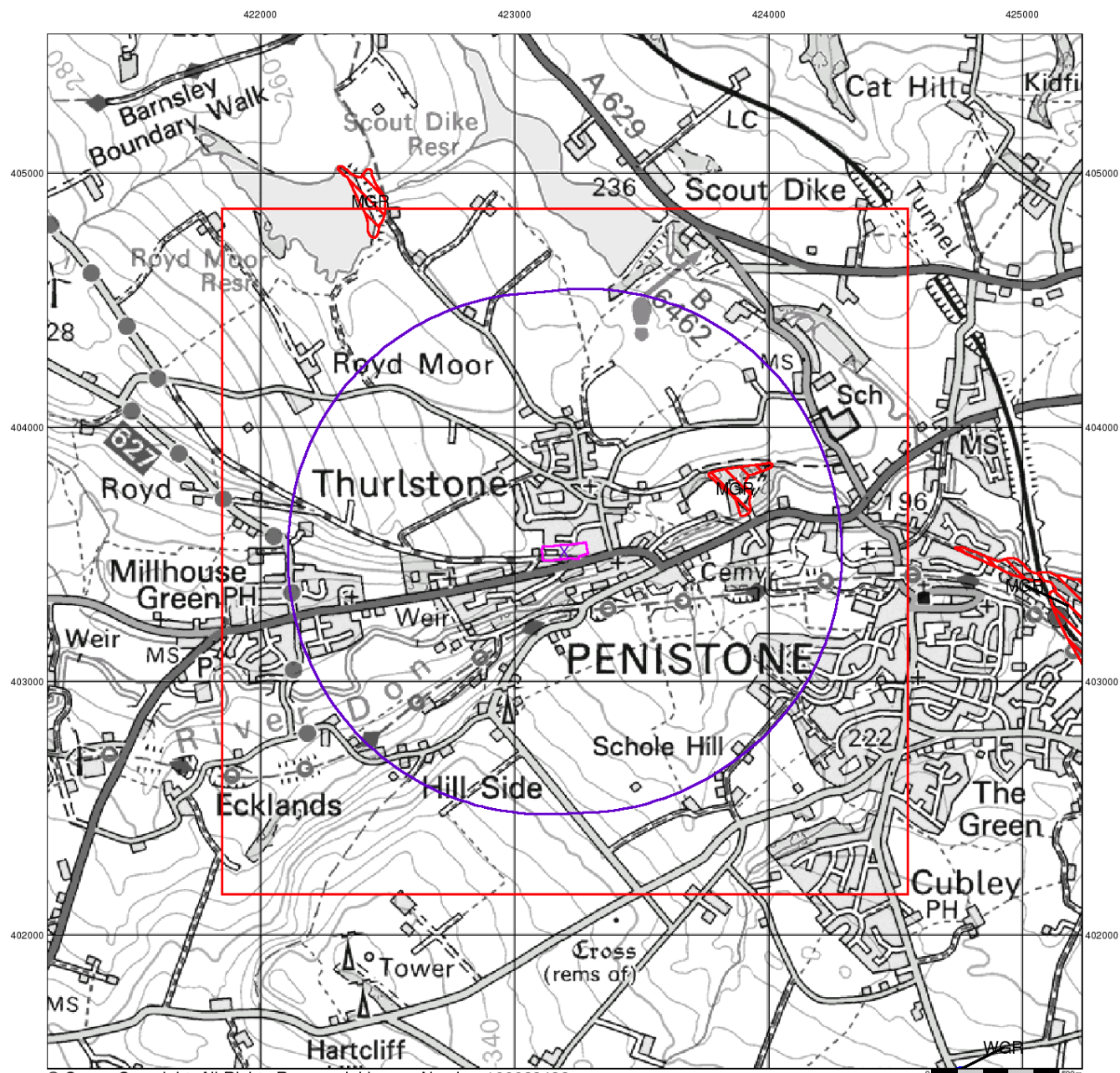
Order Number:	103468689_1_1
Customer Reference:	40630
National Grid Reference:	423190, 403510
Slice:	A
Site Area (Ha):	0.95
Search Buffer (m):	1000

Site Details:

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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Artificial Ground and Landslip

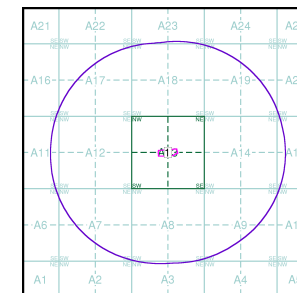
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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



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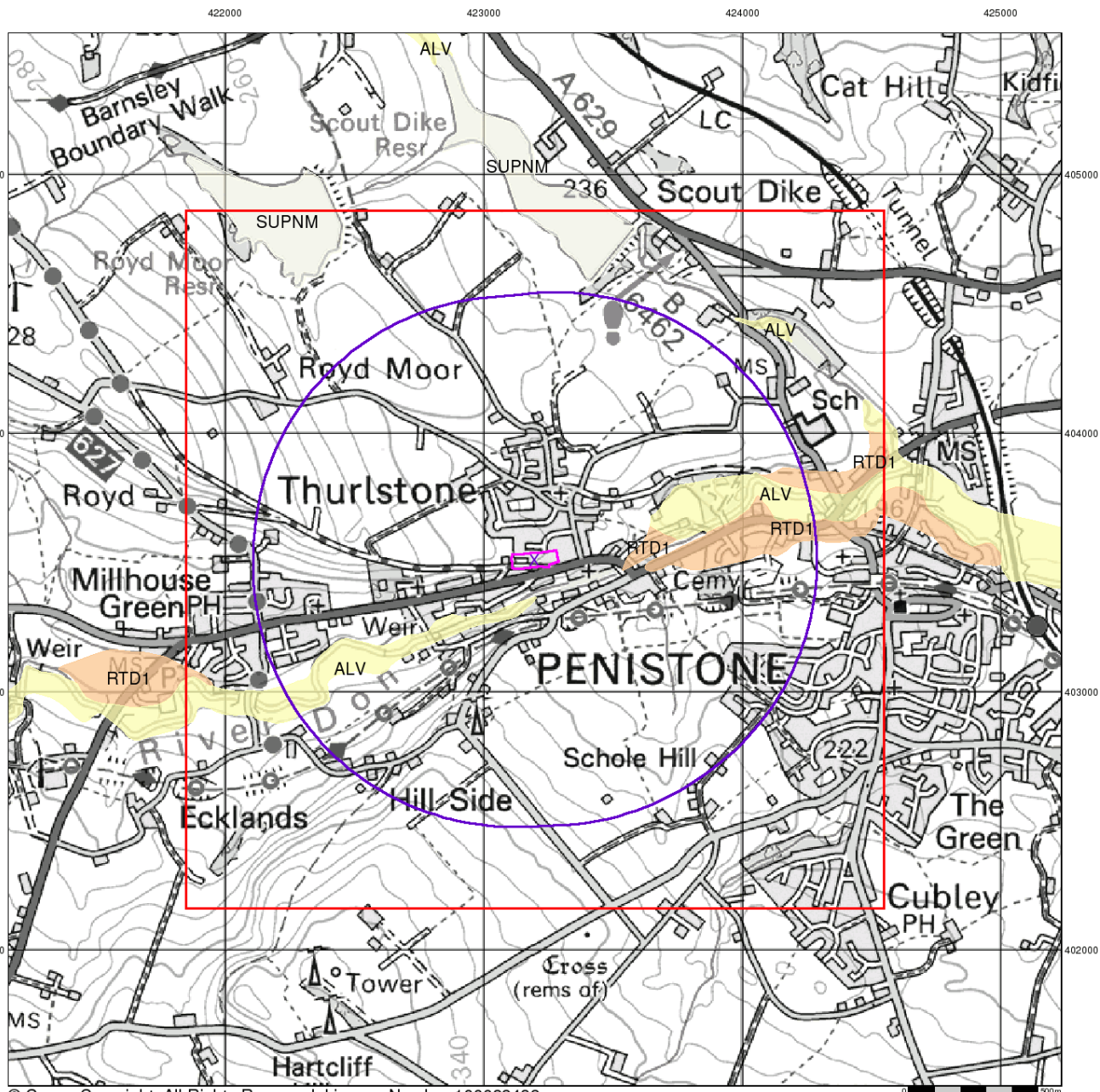
Order Number: 103468689_1_1
 Customer Reference: 40630
 National Grid Reference: 423190, 403510
 Slice: A
 Site Area (Ha): 0.95
 Search Buffer (m): 1000

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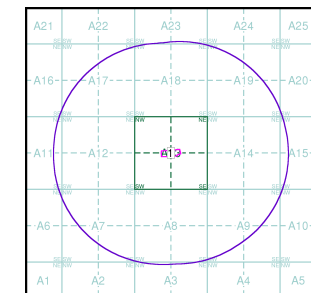
Superficial Geology

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: 103468689_1_1
Customer Reference: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details:

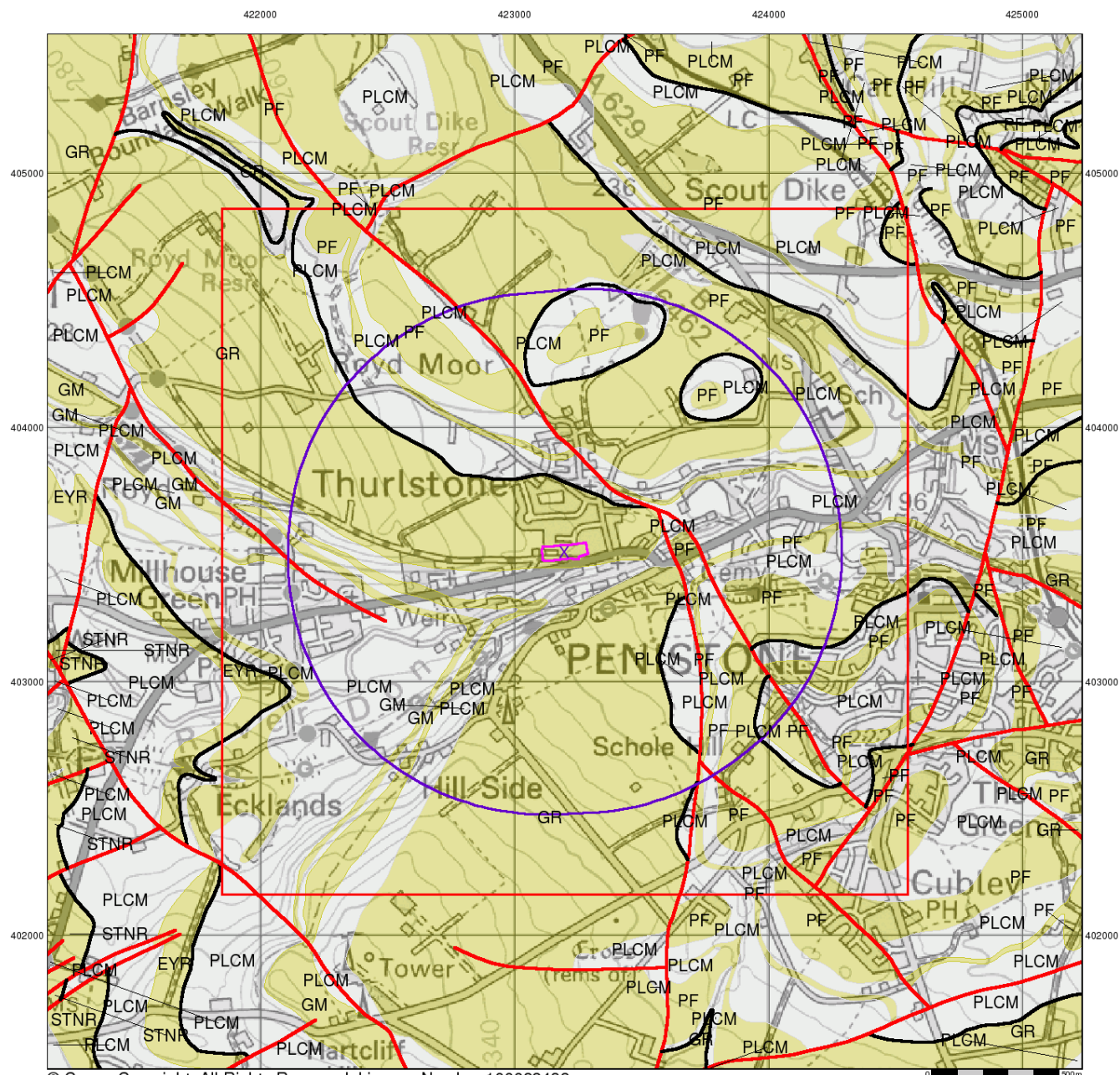
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Bedrock and Faults

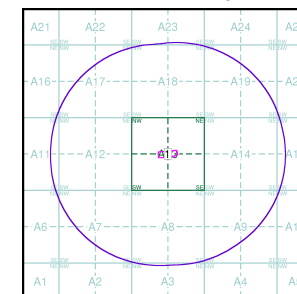
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

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

Bedrock and Faults Map - Slice A



Order Details:

Order Number: 103468689_1_1
Customer Reference: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details:

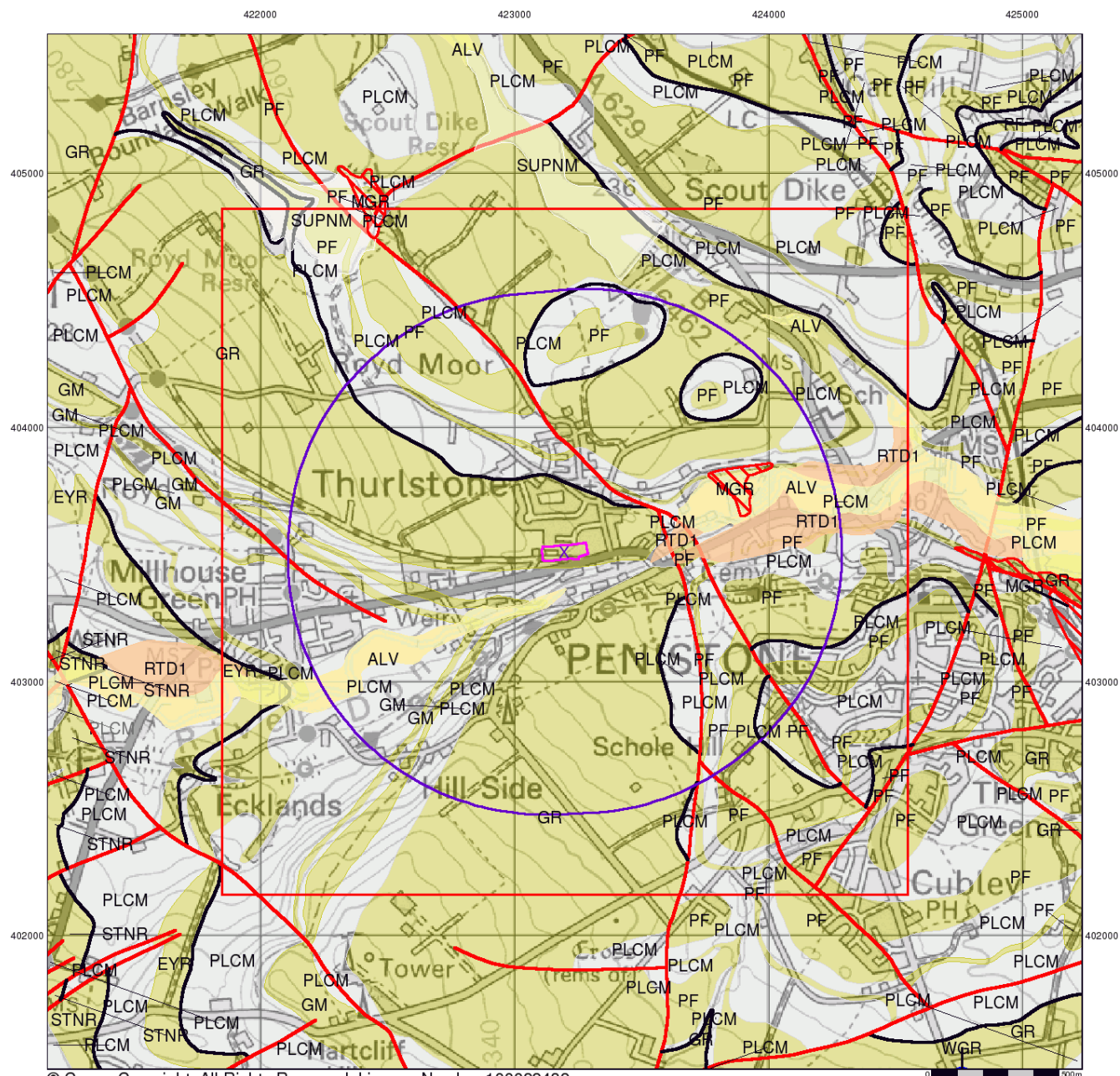
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Combined Surface Geology

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.

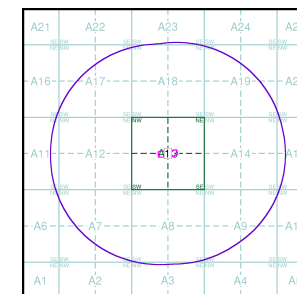
Additional Information

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: 103468689_1_1
Customer Reference: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details:

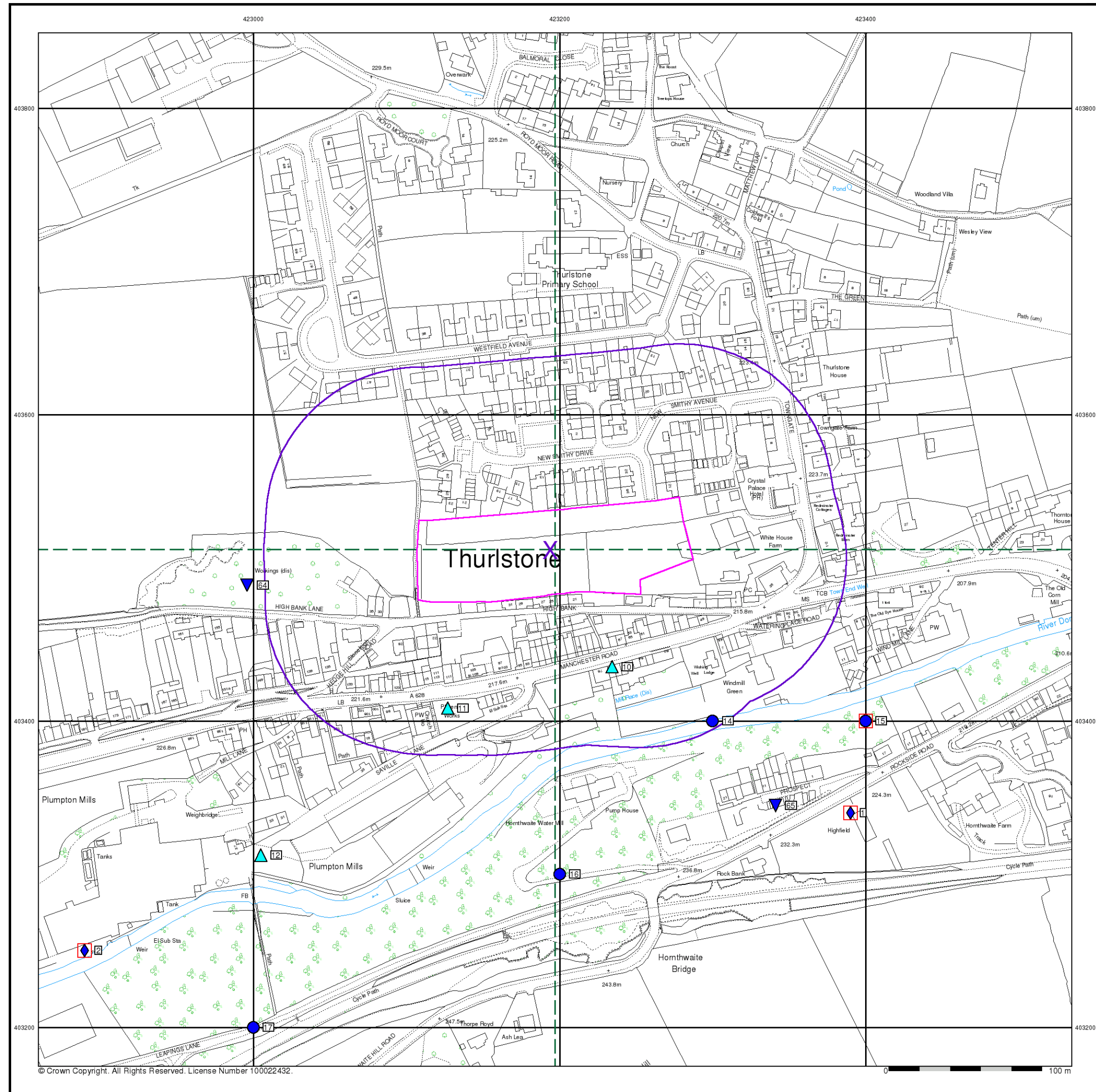
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General

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

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

Hazardous Substances

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

Geological

- BGS Recorded Mineral Site

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
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Non-water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- Potentially Infilled Land (Water)
- 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

Site Sensitivity Map - Segment A13

Order Details

Order Number:	103468689_1_1
Customer Ref:	40630
National Grid Reference:	423190, 403510
Slice:	A
Site Area (Ha):	0.95
Plot Buffer (m):	100

Site Details

11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

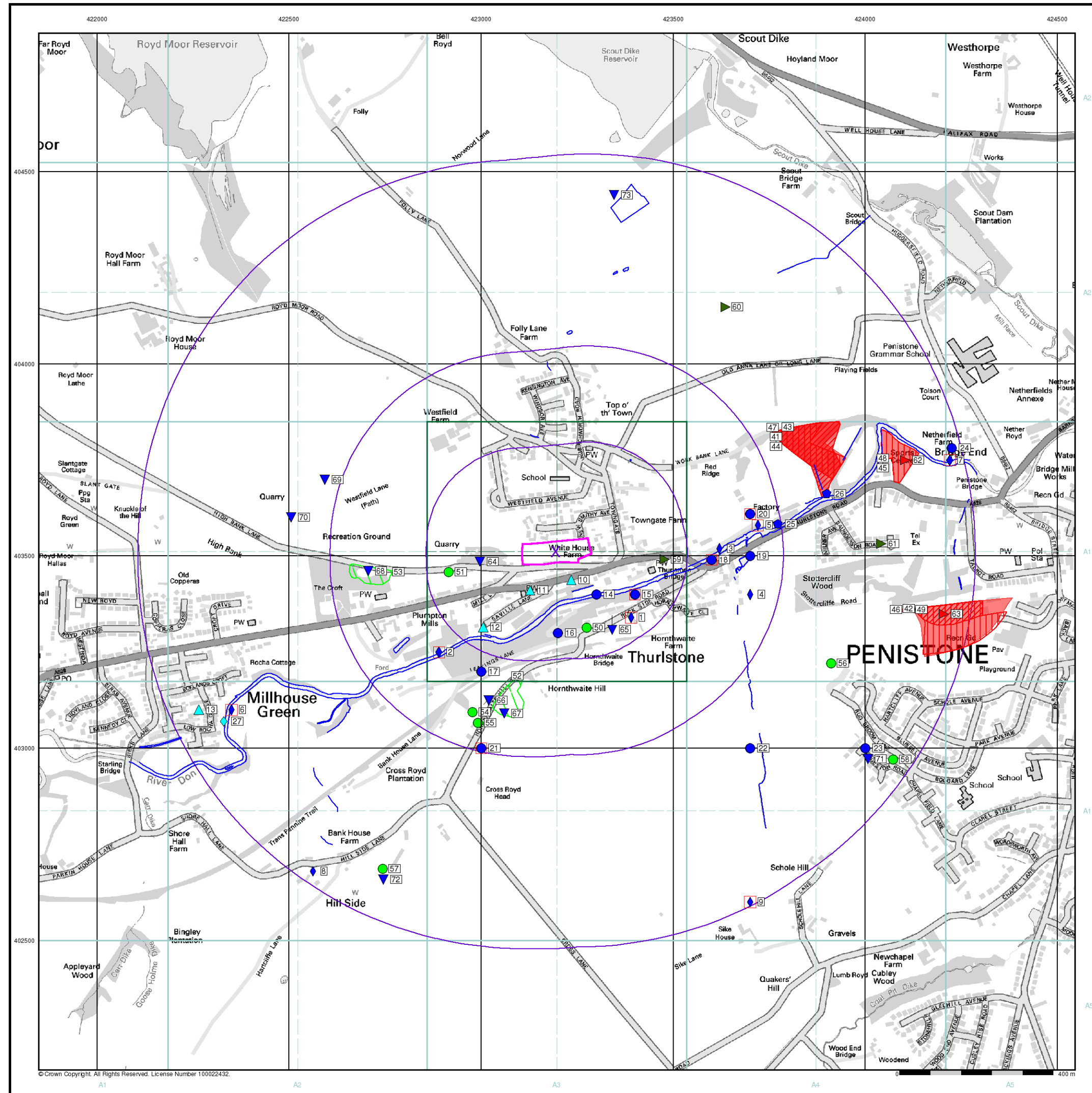
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A Landmark Information Group Service v50.0 03-Nov-2016 Page 1 of 1



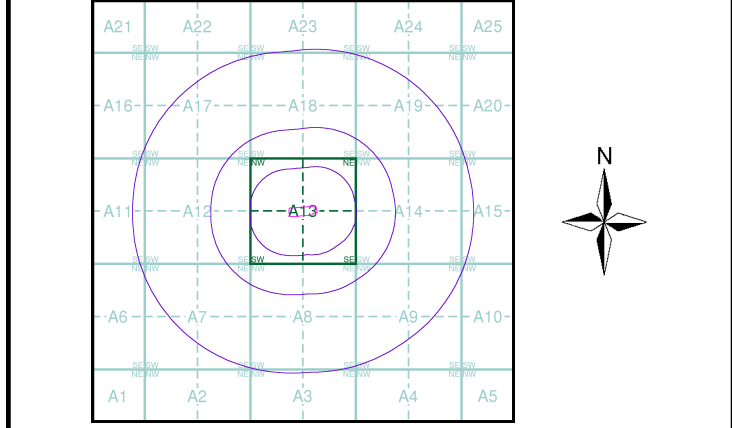
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Contaminated Land Register Entry or Notice
 - 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
 - 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
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - 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
 - BGS Recorded Mineral Site
- Geological**
- BGS Recorded Mineral Site

Site Sensitivity Map - Slice A



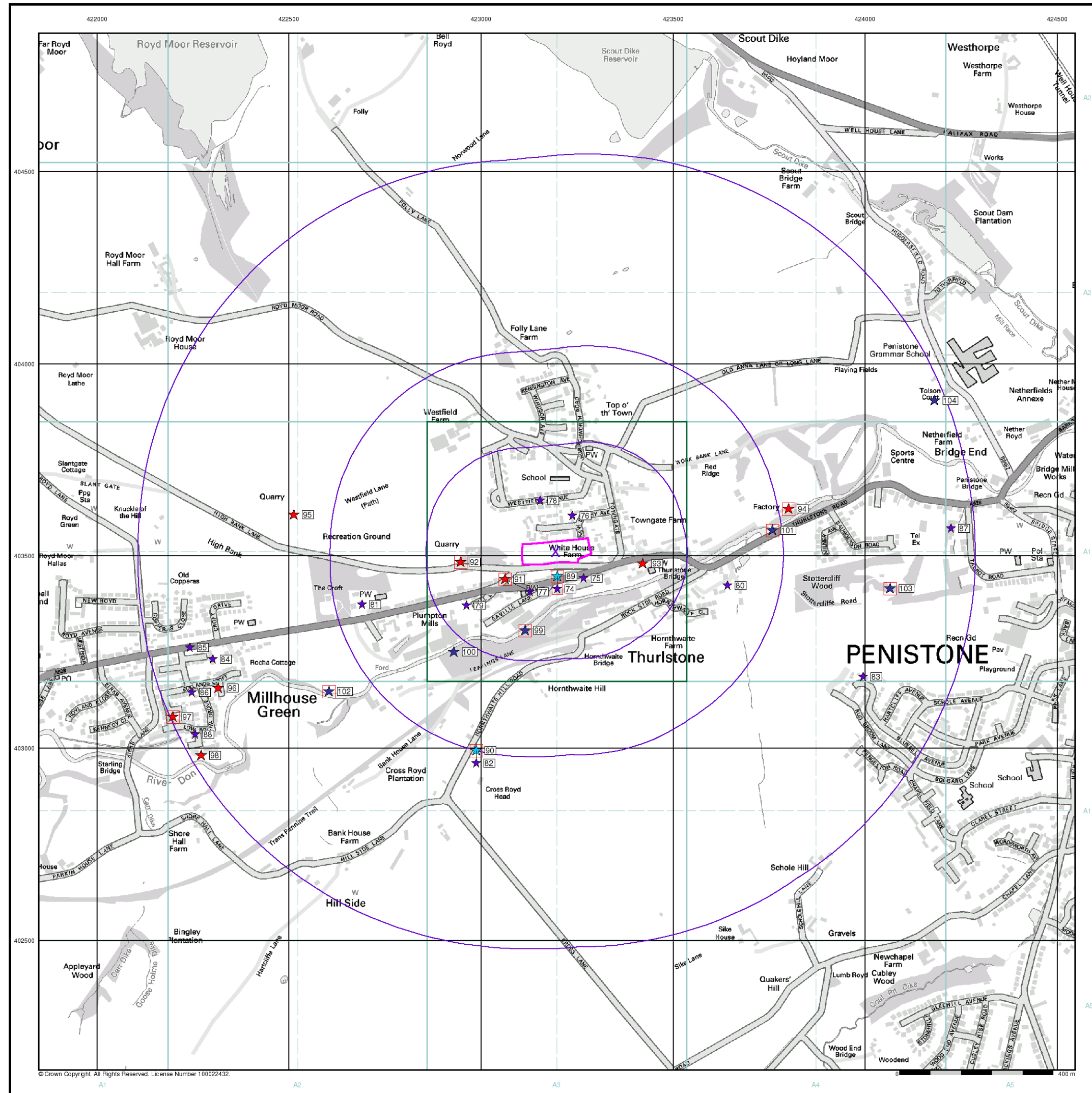
Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details
11 New Smithy Avenue, Thurlstone, SHEFFIELD, S36 9QZ

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Industrial Land Use Map

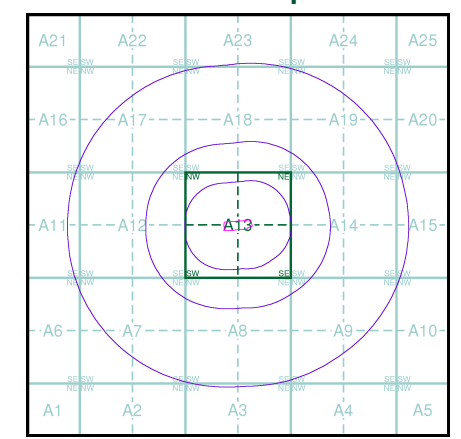
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Points of Interest - Commercial Services
- Points of Interest - Education and Health
- Points of Interest - Manufacturing and Production
- Points of Interest - Public Infrastructure
- Points of Interest - Recreational and Environmental
- Underground Electrical Cables

Industrial Land Use Map - Slice A



Order Details

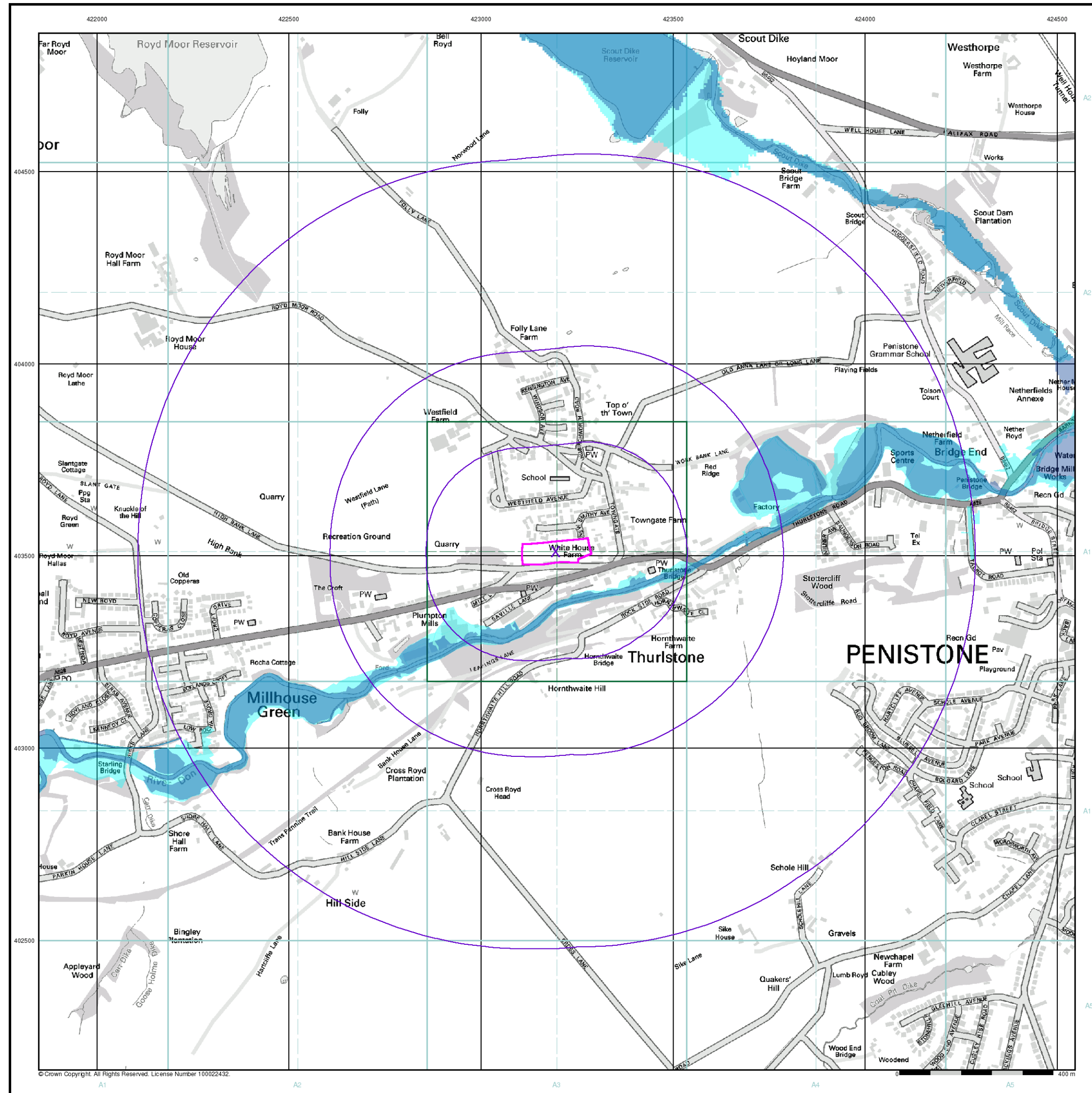
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Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

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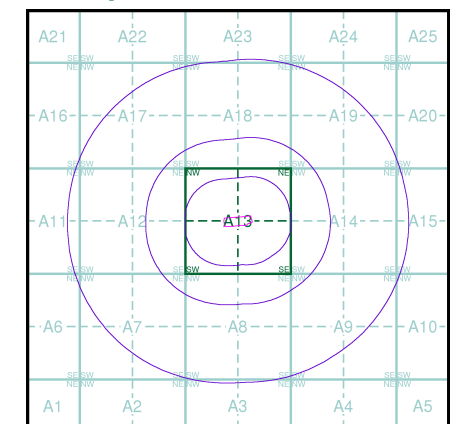
General

- 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

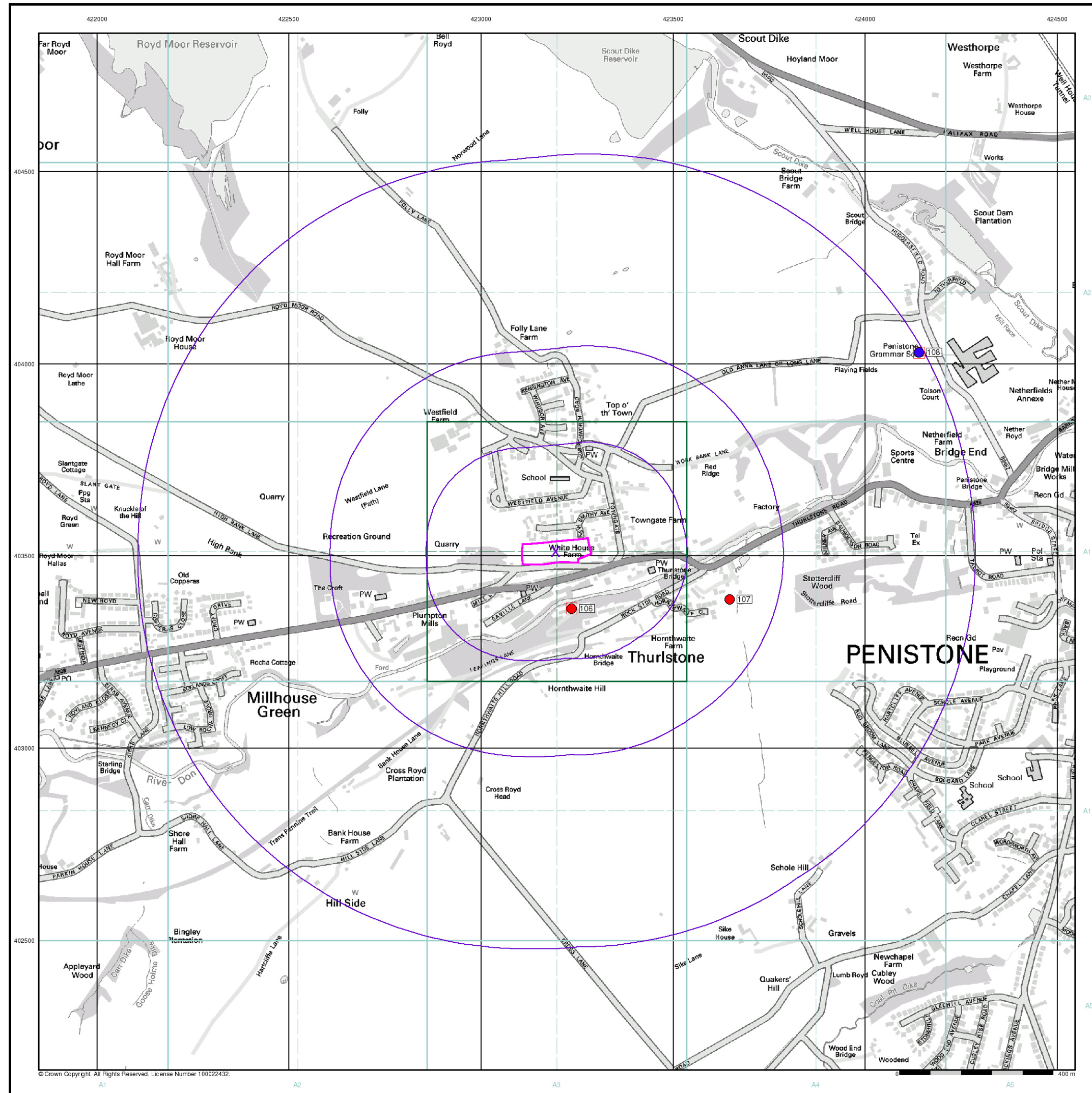


Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
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

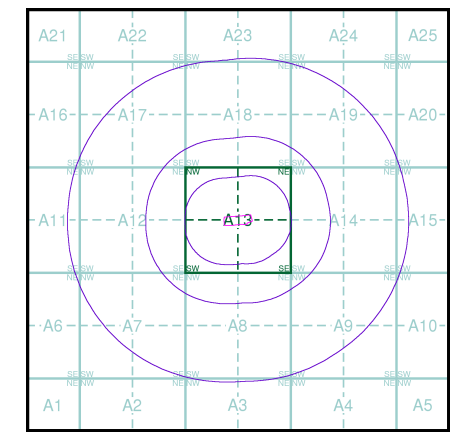
Agency and Hydrological (Boreholes)

- 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

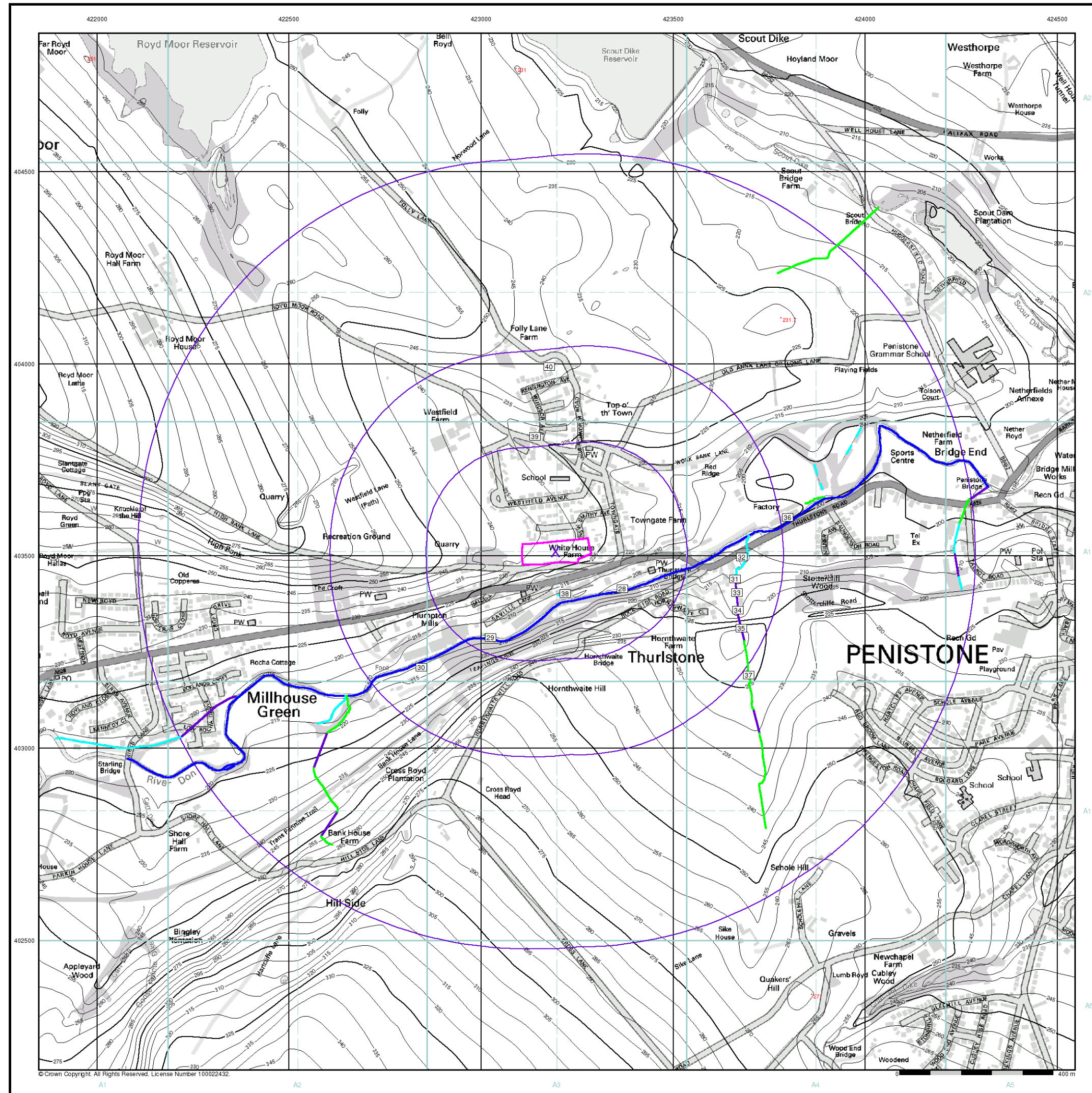
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Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

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General

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

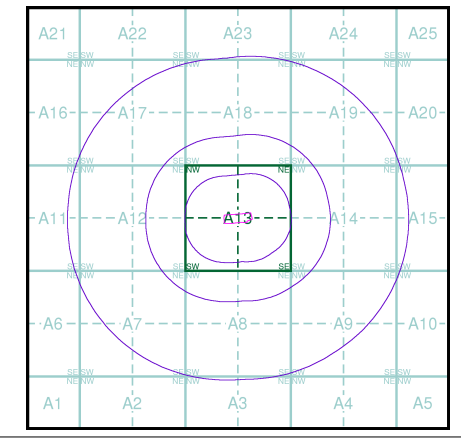
Detailed River Network Data

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

Contours (height in metres)

- Standard Contour 105 100 95
- Master Contour 105 100 95
- Spot Height 167.3
- MLW Mean Low Water
- MHW Mean High Water

E/NRW Detailed River Network Map - Slice A



Order Details

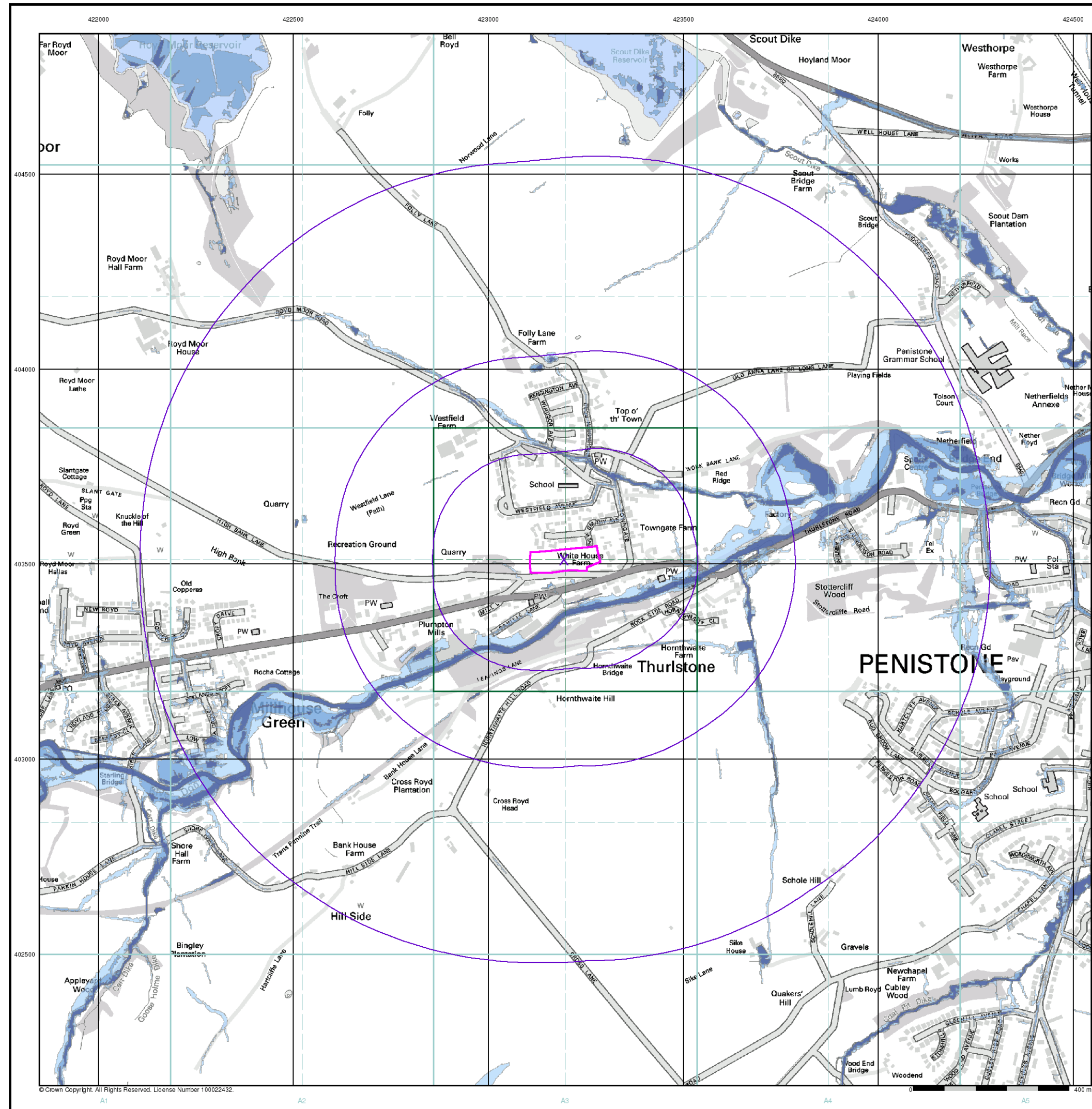
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Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
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General

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- Specified Buffer(s)
- Bearing Reference Point

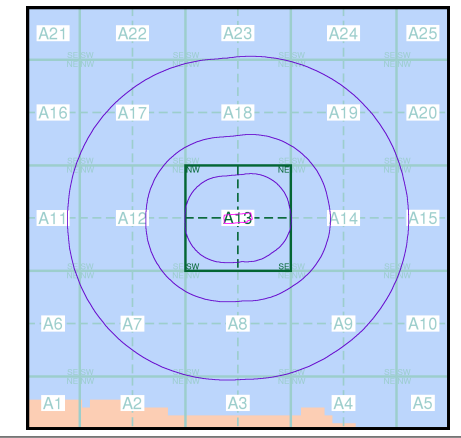
Risk of Flooding from Surface Water

- 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

EANRW Suitability Map - Slice A



Order Details

Order Number: 103468689_1_1
Customer Ref: 40630
National Grid Reference: 423190, 403510
Slice: A
Site Area (Ha): 0.95
Search Buffer (m): 1000

Site Details

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The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

11 NEW SMITHY AVENUE
THURLSTONE
SHEFFIELD
SOUTH YORKSHIRE

Date of enquiry: 03 November 2016
Date enquiry received: 03 November 2016
Issue date: 03 November 2016

Our reference: 51001286579001
Your reference: 103468689_2 |



CON29M Non-Residential Mining Report

This report is based on, and limited to, the records held by the Coal Authority and the Cheshire Brine Subsidence Compensation Board's records, at the time we answer the search.

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

11 NEW SMITHY AVENUE, THURLSTONE,
SHEFFIELD, SOUTH YORKSHIRE

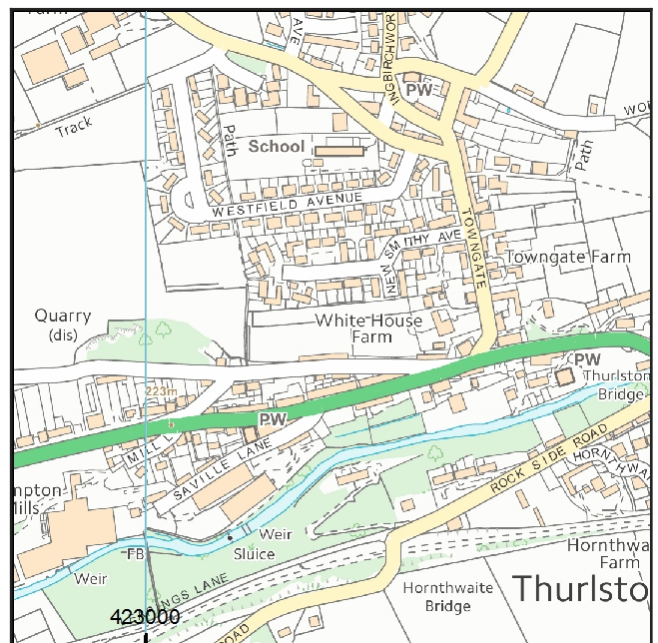
How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority
 /thecoalauthority
 /coalauthority



Approximate position of property



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Summary

Has the search report highlighted evidence or potential of		
1	Past underground coal mining	No
2	Present underground coal mining	No
3	Future underground coal mining	Yes
4	Mine entries	No
5	Coal mining geology	No
6	Past opencast coal mining	No
7	Present opencast coal mining	No
8	Future opencast coal mining	No
9	Coal mining subsidence	No
10	Mine gas	No
11	Hazards related to coal mining	No
12	Withdrawal of support	No
13	Working facilities order	No
14	Payments to owners of former copyhold land	No
15	Information from the Cheshire Brine Subsidence Compensation Board	No

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is not within a surface area that could be affected by past underground mining.

2. Present underground coal mining

The property is not within a surface area that could be affected by present underground mining.

3. Future underground coal mining

The property is not in an area where the Coal Authority has plans to grant a licence to remove coal using underground methods.

The property is not in an area where a licence has been granted to remove or otherwise work coal using underground methods.

The property is not in an area likely to be affected from any planned future underground coal mining.

However, reserves of coal exist in the local area which could be worked at some time in the future.

No notices have been given, under section 46 of the Coal Mining Subsidence Act 1991, stating that the land is at risk of subsidence.

4. Mine entries

There are no known coal mine entries within, or within 20 metres of, the boundary of the property.

5. Coal mining geology

The Coal Authority is not aware of any damage due to geological faults or other lines of weakness that have been affected by coal mining.

6. Past opencast coal mining

The property is not within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

The property does not lie within 200 metres of the boundary of an opencast site from which coal is being removed by opencast methods.

8. Future opencast coal mining

There are no licence requests outstanding to remove coal by opencast methods within 800 metres of the boundary.

The property is not within 800 metres of the boundary of an opencast site for which a licence to remove coal by opencast methods has been granted.

9. Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres, since 31 October 1994.

There is no current Stop Notice delaying the start of remedial works or repairs to the property.

The Coal Authority is not aware of any request having been made to carry out preventive works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991.

10. Mine gas

The Coal Authority has no record of a mine gas emission requiring action.

11. Hazards related to coal mining

The property has not been subject to remedial works, by or on behalf of the Authority, under its Emergency Surface Hazard Call Out procedures.

12. Withdrawal of support

The property is not in an area where a notice to withdraw support has been given.

The property is not in an area where a notice has been given under section 41 of the Coal Industry Act 1994, cancelling the entitlement to withdraw support.

13. Working facilities order

The property is not in an area where an order has been made, under the provisions of the Mines (Working Facilities and Support) Acts 1923 and 1966 or any statutory modification or amendment thereof.

14. Payments to owners of former copyhold land

The property is not in an area where a relevant notice has been published under the Coal Industry Act 1975/Coal Industry Act 1994.

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Additional remarks

Information provided by the Coal Authority in this report is compiled in response to the Law Society's Con29M Coal Mining and Brine Subsidence Claim enquiries. The said enquiries are protected by copyright owned by the Law Society of 113 Chancery Lane, London WC2A 1PL. Please note that Brine Subsidence Claim enquiries are only relevant for England and Wales. This report is prepared in accordance with the Law Society's Guidance Notes 2006, the User Guide 2006 and the Coal Authority and Cheshire Brine Board's Terms and Conditions applicable at the time the report was produced.

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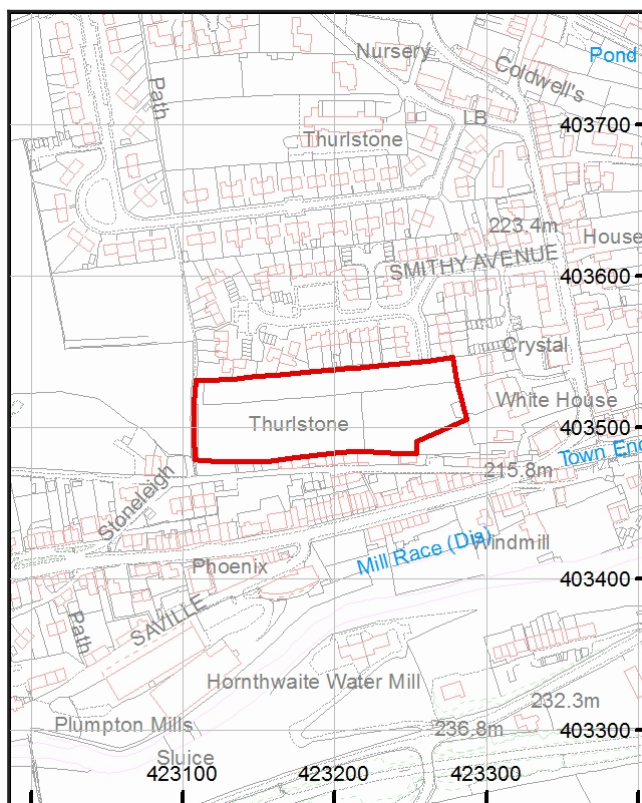
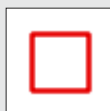
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Enquiry boundary

Key

Approximate position of enquiry boundary shown



How to contact us

0345 762 6848 (UK)
+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority

 /thecoalauthority

 /coalauthority



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