

Harworth Group PLC

J36 Phase 2, Rockingham

Preliminary Risk Assessment and Coal Mining Risk Assessment

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RSK GENERAL NOTES

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Office: RSK, 172 Chester Road, Helsby, WA6 0AR , Tel.: 44 01928 726006, Contact: Jon Clayton

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Author	R Park	**Technical reviewer**	G McGuicken
Signature		Signature	
Date:	11 February 2019	Date:	11 February 2019
Project manager	R Park	**Quality reviewer**	A Wallis
Signature		Signature	
Date:	11 February 2019	Date:	11 February 2019

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Where field investigations have been carried out, these have been restricted to a level of detail required to achieve the stated objectives of the work.

This work has been undertaken in accordance with the quality management system of RSK Environment Ltd.

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1 INTRODUCTION

RSK Environment Limited (RSK) was commissioned by Harworth Group PLC (Harworth) to carry out a preliminary geo-environmental data review for a site (referred to as Junction 36 (J36) Phase 2) at the land at Rockingham, Hoyland. The review is to comprise two distinct elements: a preliminary risk assessment (PRA) in respect of potentially contaminated land and a coal mining risk assessment (CMRA).

It is understood the site is being considered for redevelopment for commercial and residential purposes. A site location plan is included as Figure 1.

1.1 Objective

The objective of the assessment is to determine whether potential environmental and coal mining legacy constraints exist, which would need to be addressed prior to the proposed commercial and residential redevelopment of the site. This to be based on available desk-based information on the current and historical use of the site.

1.2 Scope

The scope and layout of this report has been designed with consideration of Environment Agency publication CLR11 and BSI Standards BS 10175:2013, as well as guidance on land contamination reports issued by the Environment Agency. A summary of relevant UK legislation and policy in relation to potentially contaminated land is provided in Appendix A.

The project was carried out to an agreed brief as set out in RSK's proposal (322494-TL01A, dated 19 June 2018). The scope of works for the PRA included:

- review of historical and recent Ordnance Survey maps to ascertain previous land use and identify potential historical sources of contamination
- purchase and review of a commercially available environmental database to provide information pertaining to local land use, and identify potential sources and receptors
- review of available published geological maps including British Geological Survey Borehole Records
- undertake a coal mining search considering the potential risks from past, present and future coal mining activities
- a site reconnaissance survey to assess the visual condition of the site
- develop an initial conceptual site model to consider any potentially complete linkages

- make recommendations for further investigations, if required.

The scope of works for the CMRA included:

- review information provided within a Coal Authority Consultants Mining Report
- review information provided on the Coal Authority Interactive Map Viewer
- review information provided within an environmental database report
- Review information provided on the British Geological Survey geological maps, 1:50,000 series
- review historical borehole records provided on the BGS website
- review information provided on the Coal Authority mine abandonment plans obtained from the Coal Authority
- present a desk-based review of all available information on the coal mining issues that are relevant to the site
- identify and assess the risks to the proposed development from coal mining legacy, including the cumulative impact of issues
- set out appropriate mitigation measures to address the coal mining legacy issues affecting the site, including any necessary remedial works and/or demonstrate how coal mining issues may influence the proposed development
- demonstrate to the Local Planning Authority that the site is, or can be made, safe and stable to meet the requirements of national planning policy with regard to development on unstable land.

1.3 Existing reports

The following reports have been produced by RSK that all relate to some extent to ground conditions on various parts of the current site:

- RSK Report Reference 321393 – R1 (01), dated July 2013: Rockingham, South Yorkshire: Appraisal of Ground Conditions and Coal Mining Review
- RSK Report Reference 321393 – R5 (00), dated June 2014: Rockingham, South Yorkshire: Appraisal of Wentworth Estates Land
- RSK Report Reference 321393 – R4 (01), dated April 2015: Geo-environmental Site Assessment: Rockingham 3.

These reports are summarised in Section 4. RSK is not aware of any other reports relating to the ground conditions on the current site.

1.4 Limitations

The opinions expressed in this report and the comments made are based on the information obtained from published data, the site reconnaissance survey and previous works completed at the site by RSK. It should be noted that there may be conditions pertaining to the site that have not been disclosed by the assessment and therefore could not be considered.

This report is subject to the service conditions included in the RSK and Harworth Framework agreement.

2 THE SITE

2.1 Site location and description

The site, which is referred to as J36 Phase 2, is split into two distinct areas, identified herein as the western site area and the eastern site area. The site is located at Rockingham, Hoyland, South Yorkshire at National Grid reference 434810, 401210, as shown on Figure 1.

The site covers approximately 20 hectares, lies generally at an elevation of between 120m and 130m above Ordnance Datum (AOD), and comprises predominantly agricultural land, with several tracks and boundaries crossing the site. There are also significant areas of semi-mature trees on the eastern site area, and it is crossed by several footpaths. The site boundary plan is shown on Figure 2.

The site comprises two irregularly shaped areas of land with an elongate section that connects between them. The two site areas lie approximately east/west of one another and are similar in size. The site surroundings for the two parts of the site are detailed in Table 1 and 2.

Table 1: Site surroundings for western site area

To the north:	Agricultural land with residential properties beyond
To the east:	Agricultural land
To the south:	Industrial/commercial units (Rockingham 1)
To the west:	Residential properties and agricultural land with Birdwell Recreation Ground beyond

Table 2: Site surroundings for eastern site area

To the north:	Agricultural land and residential properties
To the east:	Industrial/commercial units (Shortwood Business Park)
To the south:	Dearne Valley Parkway (road) with agricultural land beyond
To the west:	Pond within an area of rough vegetation and industrial/commercial units beyond (Rockingham 1 at the south), and agricultural land (at the north)

2.2 Proposed development

The site is being considered for redevelopment for commercial purposes, comprising several large units. At the time of writing this report the proposed layout is not confirmed.

3 GROUND CONDITIONS AND ENVIRONMENTAL SITE SETTING

3.1 Site walkover

The site was visited on 17 August 2018 to undertake a site walkover. Photographs are provided in Appendix B. Key findings and potentially significant issues arising from the reconnaissance survey are summarised below.

The site is split into numerous agricultural fields divided by fencing and hedges. There are a number of public footpaths crossing the eastern site area, and there are also areas of semi-mature trees and dense vegetation on the eastern area, particularly over the south eastern corner.

The site is predominantly relatively flat with a general slight fall to the north. In the south eastern corner of the eastern site area the ground level rises steeply toward the adjacent road. A mound of soil (from a former loading test completed by RSK) is present close to the western boundary of the eastern site area.

A ditch runs from west to east across the western site area, and this was dry at the time of the site walkover.

Surrounding land uses include agricultural fields to the north, with the town of Birdwell further to the north. Agricultural fields are present to the north east, with commercial units of Shortwood Business Park on the eastern boundary. The A6195 formed the southern site boundary with fields present further to the south. Commercial units (Rockingham 1) were present on the immediate south western boundary of the site, with residential properties immediately to the west of the site.

A dry pond is present off to the west of the eastern site area (and south of the western area). Three drain headwalls joined the pond aligned to the west, north west and east.

Overhead electric cables cross the western site area aligned approximately north to south.

No obvious sources of contamination were noted on site.

3.2 Ground conditions

Information presented in this section is based on records available to RSK including geological maps, the environmental database report (presented in Appendix C), Coal Authority report (presented in Appendix D), and information obtained from the Coal Authority archives.

3.2.1 Geology

Published geological records indicate that there are no superficial deposits beneath the site. The bedrock is recorded as being Pennine Middle Coal Measures, comprising mudstone, siltstone and sandstone with coal seams. A fault is shown to pass through the far eastern end of the site, aligned north west to south east and downthrown on the north eastern side. A further fault is shown off site to the north, crossing Hay Green Lane and aligned south west to north east, and this is shown to be downthrown on the north western side. Much of the site is known to have been subject to opencast coal mining and in these areas the present ground conditions will be significantly different from those indicated on the geological maps.

The six-inch geological map for the area (Geological Survey of Great Britain, six-inch to one statute mile scale map series, Yorkshire (West Riding) Sheet 282NE, 1932) shows the Swallow Wood coal seam to sub-crop near the western boundary of the western site area. In the vertical section the next recorded coal seam beneath the Swallow Wood is Lidgett, some 56m deeper.

A fault crosses the site, known as the Elsecar Fault. This crosses the site in approximately a northwest to south-easterly direction and is downthrown by between 60m and 70m on the north eastern side. The fault plane is inclined at between 60º and 80º.

A BGS borehole record (borehole reference SE30SE13, presented as Appendix E) has been reviewed, which is located in the western part of the eastern site area. This was drilled many years ago before the opencast coal mining. This indicates a thin layer of soil and clay initially, with the Swallow Wood Coal seam recorded at 20.93m depth, which was 0.93m in thickness. The borehole recorded the Lidgitt Coal seam at 88.47m depth, which was 1.24m in thickness. Beneath these several further bands of coal are reported to the base of the borehole at 313m bgl.

3.2.2 Coal Authority report

Coal Authority information (see Coal Authority Consultants Mining Report in Appendix D) for the site area confirms that substantial surface mining has been carried out together with underground mining.

The underground workings are recorded from 1862 to the last workings at Rockingham colliery in 1979. The Coal Authority report indicates that up to ten seams were worked underground to depths of between 54m and 394m from four named (Rockingham, High Royd, Wharncliffe and Barrow) collieries and one un-named colliery.

The seams worked include the Swallow Wood and the next underlying seam the Lidgett, which is indicated to be some 60m below the Swallow Wood. The CA report indicates the thickness of the Lidgett seam is recorded as 1.25m.

The site is within an area where notices to withdraw support were given in 1950.

Mine gas remedial works are reported by the Coal Authority for a location some 400m east of the site, and it is indicated that the site requires further investigation in respect of mine gas.

Eastern site area:

Six mine entries (four shafts and two adits) are indicated as being present on the eastern site area. Of these, three (one shaft and the two adits) were completely removed during opencast mining operations, and two were partially removed and then plugged/capped at the base of the opencast excavation in June 1992. For the final mineshaft, reference 435401-001, the Coal Authority report indicates that it may have been wholly or partially removed by opencast workings.

The Coal Authority report indicates that the entire eastern site area is within an area worked by opencast methods (within the licenced area). The report also shows a small area of older opencast workings (unlicensed opencast) overlapping the eastern boundary of the site.

Western site area:

No mine entries are shown on the western site area.

The Coal Authority report indicates that most of the western site area is within an opencast area (the licenced area), with the exception of the north western corner of the site. The report also shows an area of older opencast (unlicensed opencast) in the west, which extends into the north western corner beyond the boundary of the licensed opencast.

3.2.3 Further Coal Authority information

Two sets of plans have been obtained by RSK from the Coal Authority showing details of the Rockingham colliery (underground mining) completion plans and Rockingham opencast (surface mining) completion plans. These plans are referenced below and key information is summarised in the subsequent section.

Plans relating to underground mining are as follows:

- Rockingham Colliery, Thorncliffe Seam (signed 5 May 1981). Coal Authority catalogue number NE856 Sheet info
- Rockingham Colliery, Flockton Thick Seam (signed 21 November 1980). Coal Authority catalogue number NE852 Sheet info
- Rockingham Colliery (incorporating Wharncliffe Silkstone Colliery), Low Fenton Seam (signed 16 April 1981). Coal Authority catalogue number NE854 Sheet info.

Plans relating to opencast mining are:

- Rockingham Completion Plan, RJB Mining (UK) Limited, dated 13 February 1998. Sheets 1 to 7. Drawing numbers 82/CP-1 to CP-7.

Sheet 1 of the completion plan shows an overview of the Rockingham opencast site, highlighting the area where compaction of backfill had been undertaken and areas in which coal seams had been worked. Each of the subsequent sheets provides details of areas of working for individual coal seams. Figure 3 in this report shows the outlines of the worked areas for these seams.

This data from the Coal Authority is considered in subsequent sections within this report, particularly in Section 3.2.4.

3.2.4 Opencast coal mining

Information on the opencast coal mining history of the site is included in the Mott McDonald Completion Report and RJB Mining Completion Plans.

3.2.4.1 Western site area

Except for the north western corner, the western site area has been subject to opencast extraction of coal. Figure 3 shows the extent of the workings in two seams removed by RJB Mining by opencast methods. The names of the worked seams are listed below, starting with the shallowest:

- Swallow Wood (RJB Code AR)
- Unnamed 3 (RJB Code 1AQ).

The shallowest worked seam on the western site area was the Swallow Wood (AR), with the base of excavation for this (within the site area) being just below 126m AOD. It is evident that this seam dipped downwards towards the north-east. A significant number of former bell-pit workings were recorded at the time of RJB opencast works in the southern corner of the site, which are indicated to have previously extracted coal from the Swallow Wood seam.

The underlying Unnamed 3 seam (1AQ) was worked across the site. The maximum depth reached ranged between 125.5m AOD at the south western edge of the site to 102.3m AOD, at the north eastern end of the workings.

Based on the given depths of workings and the known site levels, the depth of backfilled materials in the former opencast area varies from approximately 3m and 28m from south west to north east. Based on a review of the available information, the area subject to the opencast extraction of coal is considered unlikely to have been backfilled under controlled conditions, although given the time elapsed since the restoration was completed any self-weight settlement would be expected to have creased by now.

A plan showing the anticipated depths of fill in the RJB Mining opencast areas is presented as Figure 4. This is based on the difference in elevation between existing ground level and the base of the opencast workings taken from the abandonment plans. It should be noted that topographical data for the existing ground surface is limited in places, particularly at the south eastern corner of the eastern site area.

The north western part of the western site area was not been subject to the opencast extraction of coal by RJB Mining, however part of this area may have been subject to older opencast workings.

3.2.4.2 Eastern site area

Much of the former Rockingham colliery (understood to have been present up to early 1980's) was located within the eastern site area. The entire area was subsequently subject to opencast workings by RJB Mining, with the exception of the north eastern corner.

The names of the seams worked by opencast methods are listed below, starting with the shallowest:

- Kents Thick (RJB code AZ11) (shallowest)
- Unnamed 1 (RJB code AY)
- Barnsley Rider Upper A
- Barnsley Rider Lower A
- Dunsil Rider Upper (RJB code 2AU)
- Dunsil Rider Lower 1(RJB code AU)
- Dunsil (RJB code AU)
- Swallow Wood Rider (RJB code 1AR)
- Swallow Wood (RJB code AR)
- Unnamed 3 (RJB code 1AQ) (deepest).

The basal seam worked to the west of the Elsecar fault was the Unnamed 3 seam (1AQ). This was worked both on site and off to the south and west. In the area to the east of the Elsecar fault the abandonment plans show the basal seam worked to have predominantly been the Unnamed 1 (AY). A small area of the deeper Barnsley Rider Upper A seam is also shown to have been worked east of the fault. Figure 3 shows the extent of the excavations for these seams.

The available abandonment plans do not show any opencast workings in the north eastern corner of the eastern site area. However, the Coal Authority report (detailed in

Section 3.2.2) indicates that opencast workings have previously extended to the site boundary here.

The coal seams dipped downwards towards the north-east. Due to this dip, the depth of excavation for each seam gradually increases to the north-east. A high wall was present on the east of the eastern site area as a result of opencast operations, running northwest to southeast through this area. This in part coincides with the location of the Elsecar fault.

Based on the given depths of workings and the known site levels, the amount of fill material now present on site is variable. At the eastern end of the eastern area, fill thickness is likely to be up to around 50m. A plan showing the anticipated depths of fill in the RJB Mining opencast areas is presented as Figure 4.

This area is believed to have been backfilled by means of end-tipping and tracking of mechanical plant. However, there is no confirmation of this and there are no records of the material deposited, or of any compaction undertake. Given the time elapsed since it was placed it is likely that self-weight settlement is largely complete.

3.2.5 Radon

The environmental database report (appendix C), sourcing data from the British Geological Survey, National Geoscience Information Service, indicates that the site is partly located within a lower probability radon area, where less than 1% of homes are estimated to be at or above the Action Level as defined by the Public Health England, and partly within an intermediate probability radon area, where between 1% and 3% of homes are estimated to be at or above the Action Level.

3.2.6 Landfilling and land reclamation

Evidence has been sought to identify any landfilling or land reclamation operations, past and present, which have taken place in the vicinity of the site. The sources of information include:

- environmental database report (Appendix C)
- old Ordnance Survey maps and plans (Appendix C).

Historical landfill sites and waste treatment facilities close to the site detailed in the environmental database report are listed below.

- British Rail Railway Cutting, a historical landfill site for inert and commercial waste from 1983 to 1989, operated by Hartwood Exports Machinery Ltd. Located 230m south of the western site area. The same area is listed as a registered landfill site, with authorised wastes including foundry slag, waste ex coal processing and hardcore. This appears to be also listed as a Local Authority recorded landfill site,

and records indicate that the same operator also operated a scrapyard at the same location

- Birdwell Common Quarry, a historical landfill site approximately 440m to the south west of the western site area. Operated by BDR Waste Disposal Ltd. No information about the waste type accepted and dates of filling is provided. This appears to be also listed as a Local Authority recorded landfill site, although this record shows it to be larger and closer (330m)

- Shortwood historical landfill site was licensed for inert and industrial waste from 1960 to 1990, operated by Hoyland Marshall Limited. This is located 290m northeast of the eastern site area. At the same location is listed a registered landfill site operated by G R Stein Refractories Ltd from 1979, with authorised wastes including fired refractory clay. This location also appears to be listed as a Local Authority recorded landfill site

- a registered waste transfer site is listed 250m south of the western site area at Unit 12 Rockingham Road, Birdwell. The waste type is given as empty used containers.

No other waste management facilities relevant to the site or landfill sites within 500m of the site are listed.

The site has been subject to extensive open cast mining and subsequent landfilling and reclamation as detailed in Section 3.2.4, above.

Historical mapping shows a number of spoil heaps, areas of cuttings and arisings at the site, associated with the former deep mining activities. These will all have been removed by the subsequent opencast mining operations.

3.2.7 Ground gas

Given the anticipated ground conditions, the risk associated with ground gas is considered high in accordance with Figure 6 of BSI Standards BS 8576:2013 (classified as landfill (mid 1960s to early 1990s) or mine workings – unflooded, less than 50 years since last worked).

3.3 Hydrogeology

3.3.1 Aquifer characteristics

Based on the information provided in the environmental database report, the bedrock underlying the site is classified as a secondary A aquifer.

Groundwater at the site area is anticipated to flow in a north easterly direction, following the dip of the coal measures bedrock and the local topography. The anticipated depth to

the groundwater table is unknown, and it is unknown if groundwater is still recharging following the previous mining activities.

It is possible that perched water may be locally present within the backfilled opencast mining voids, where cohesive soils have been placed and are well compacted.

3.3.2 Vulnerability of groundwater resources

According to the environmental database report, the soils beneath the eastern site area and the western extent of western site area are classified as having a vulnerability class of high urban (HU). Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere, so a worst-case vulnerability classification is assumed until proven otherwise. To the centre and east of the western site area the soils are classified with a vulnerability class of low. These include soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal, or they contribute to groundwater recharge elsewhere in the catchment.

3.3.3 Licensed groundwater abstraction

Information available from the environmental database report indicates that there are no licensed groundwater abstractions within 1km of the site. Information available on the EA website indicates the site does not lie within currently designated groundwater Source Protection Zones.

3.4 Hydrology

3.4.1 Surface watercourses

Several linear surface water features are shown on the eastern site area in the environmental database report, but these do not connect to any other features. The stream on the western site area connects to the pond off-site to the south, though no further connection from this is shown. The nearest connected water feature shown on the environmental database report is a stream starting around 100m to the north of the eastern site area and flowing away to the north east.

According to the environmental database report there is river water quality data for a watercourse in the vicinity called Blacker Dyke, and this had a GQA grade of River Quality C in the year 2000.

There are no on-site pollution incidents to controlled waters shown in the environmental database report. There are several pollution incidents to freshwater streams/rivers listed within 1km of the site, though none of these are likely to have affected the site.

It is anticipated that surface water flows from the site are toward the north and east into Blacker Dike.

3.4.2 Surface water abstractions

The environmental database reports no surface water abstractions within 1km of the site.

3.5 History of site and surrounding area

The history of the land-use and development of the sites and surrounding area has been assessed based on the historical maps dating from 1849 to 2017 included within the environmental database report, a copy of which is included in Appendix C. Reference to historical maps provides invaluable information regarding the land use history of the site, but historical evidence may be incomplete for the period pre-dating the first edition and between successive map editions.

The development history of the site and surroundings, is summarised in Table 3.

Table 3: Summary of historical development on and surrounding the site

Date	Land use/features on site	Land use/features in vicinity of site (of relevance to the assessment)
1849 (OS map 1:10,000)	Western site area – agricultural fields Eastern site area – dominantly agricultural fields with a railway track labelled South Yorkshire Railway running through the site from the south west to the north east. Old quarry sandstone labelled in the south of the site.	The surrounding area generally comprises agricultural land. Woodlands surround the eastern site area with Short Wood is located 250m north and Singleton Wood located 50m south.
1893 (OS map 1:2,500)	Development of the Rockingham Colliery over much of the eastern site area, including rail sidings, numerous buildings, a saw mill, coke ovens and buildings. Two areas labelled as shafts and one air shaft shown. No change on the western site area.	Reservoir located 50m south of the eastern site area. 125m north of the eastern site area is brick works including clay pits.
1893 (OS map 1:10,000)	No significant change	Hoyland Silkstone Collieries located west of the eastern site area. Further residential development east of the eastern area including Upper Hoyland, Hoyland Lane End and Hoyland Nether. Birdwell Quarry located 500m south west of the western site area. Further development of Birdwell, Hoyland Common
1905 (OS map 1:2,500)	Spoil heap shown alongside the railway tracks in the north west of the eastern site area.	Further out building development of Hay Green House 75m north of the western site area.
1907	Railway tracks through the centre of site running parallel to the ones on the	Further development of Birdwell and Hoyland Common including residential, schools, churches

Date	Land use/features on site	Land use/features in vicinity of site (of relevance to the assessment)
(OS map 1:10,000)	eastern site area. Rockingham Colliery labelled in the centre of site south of the train tracks.	and recreation ground.
1931-1932 (OS map 1:2,500 and 1:10,000)	Further building development on site in the eastern site area. Spoil heap across south eastern boundary.	Further development of Birdwell residential housing and allotments 150m west from the site. Further allotments and residential buildings to the north of the western site area.
1938 (OS map 1:10,000)	No significant change	Further development of Blacker Hill, Hoyland Nether, West Bank, Birdwell and Hoyland Common.
1948 (OS map 1:10,000)	No significant change	Large mounds along the southern boundary of the eastern site area. Further residential development of Hoyland Nether, Birdwell, Hoyland Common and Platts Common.
1956 (OS map 1:10,000)	No significant change	Further development in Pillay, Birdwell, Hoyland Nether and Blacker Hill.
1956-1962 (OS map 1:2,500)	Buildings within the Rockingham Colliery in south of the eastern site area now labelled as “Mine”.	Commercial buildings in Birdwell 350m south west of the western site area is labelled NCB Central Workshops. Birdwell quarry no longer present. Hoyland Brickworks now labelled Works with the addition of a pond and quarry 100m north of the eastern site area.
1965-1966 (OS map 1:10,000)	No significant change	Residential development of Birdwell, Hoyland Common, Pilley, Hoyland Nether and Blackerhill. Further buildings immediately south west of the eastern site area within the Rockingham Colliery.
1971-1974 (OS map 1:2,500)	No significant change	Slag heap labelled 100m east of the site. Significant residential development of Birdwell 100m north of the western site area.
1978 (OS map 1:10,000)	Partial coverage of site	Partial coverage of surrounding area. Significant development of nearby towns and villages.
1980-1982 (OS map 1:10,000)	The northern railway line in the eastern site area appears as just a trackway and not a railway line. Southern boundary of the eastern area is a large area of refuse or slag heap which extends 400m south off site.	Further development of nearby towns and villages including commercial and residential.
1986 (OS map 1:10,000)	Partial coverage of site. No significant change.	No coverage of surrounding area.
1988-1991 (OS map 1:2,500 & 1:10,000)	Partial coverage of the site. In the eastern site area all railway tracks are no longer present, area to the east, south and centre labelled as tip (disused). Most of the buildings are no longer present. No coverage of the western site area.	Partial coverage of the surrounding area. Further development in Birdwell. Area surrounding south, east and west of the eastern site area labelled as tip disused. Reservoir to the south of the eastern area no longer present and not labelled as tip. Small development of Hoyland

Date	Land use/features on site	Land use/features in vicinity of site (of relevance to the assessment)
		Nether east of site.
1993 (OS map 1:2,500)	No significant change	Partial coverage of the surrounding area. No significant change.
1996 (OS map 1:2,500)	No significant change	Further development of Birdwell north of the western site area.
2000 (OS map 1:10,000)	Footpath running through the eastern site area site from the north east to the south west.	No significant change.
2018 (OS map 1:10,000)	No significant change	No significant change.

The eastern site area was used as a colliery from 1849, with rail track sidings, buildings and railway lines, which were largely dismantled or removed by 1988. The mining had ceased by 1982 and the southern section of the site was formed into a tip. By 1988 the rest of the site was converted into a tip with slag heaps. The main railway line that ran through the centre of the site remains as a footpath today. The area surrounding the eastern site area has predominately been agricultural land and woodland. Industrial activities including a tannery from 1855 and brick works from 1893 were present to the north east. Residential properties in the villages of Hoyland Common and Upper Hoyland were present to the south and north east respectively from the earliest available map 1849.

The western site area was predominantly undeveloped agricultural land, as shown on the earliest available map of 1855, and the site appears to remain relatively unchanged. The surrounding area consists predominantly of agricultural land with allotments present in the north from 1893.

The historical opencast coal extraction (the unlicensed opencast) and the 1990's RJB opencast (the licensed opencast) are not captured on the historic mapping.

3.6 Sensitive land uses

The environmental database report shows Short Wood, an area of ancient woodland, present 40m to the northeast of the eastern site area. The site is within an area of adopted greenbelt.

3.7 Licenced waste facilities

Details of active and inactive licensed waste management facilities listed in the vicinity of the site in the environmental database report are provided below:

- Hangmanstone Depot, 390m to the south of the western site area, was operated by Hartwood Estates, the licence status for which is labelled as surrendered. The licence was issued in 1996 and the site was classed as a metal recycling site (vehicle dismantlers)

- Lidget Garage, 620m south of the western site area, was operated by Richard Adrian Goodwin, the licence status for which is labelled as expired. The licence was issued in 2006 and the site was classed as physico-chemical treatment facilities

- Land/Premises at Blacker Hill Sidings, 770m north of the eastern site area, was operated by Warwick Ward Machinery Ltd for which is labelled as Issued. The licence was issued in 1993 and the site was classed as a metal recycling site (vehicle dismantlers).

4 PREVIOUS INTRUSIVE INVESTIGATIONS AND GEOTECHNICAL ASSESSMENT

Sections 4.1 and 4.2 provide a summary of the site investigation reports previously produced by RSK that relate to various parts of the wider Rockingham site under Harworth Estate's ownership.

In Section 4.3 we present an outline geotechnical assessment of the key findings of these investigations in relation to the proposed development of the site. In particular this considers potential settlement mechanisms and other issues related to the identified ground conditions.

4.1 Rockingham 1 area

4.1.1 Background

The Rockingham 1 area is a parcel of land situated adjacent to the south of the western site area, and west of the eastern area. This area was also subject to the opencast extraction of coal, with the basal seam workings extending to depths of up to 20m below the restoration ground level.

The opencast void was infilled between 1990 and 1996, apparently in a controlled manor and with fill materials compacted to a defined specification. Mott MacDonald were tasked with supervising the controlled reinstatement, and produced the following document to certify the works:

- Rockingham opencast coal site; compaction of backfill certificate report, report reference 10023/3C, February 1997, Mott MacDonald.

The records show that within Rockingham 1 the opencast backfill material was placed and compacted to a defined specification to reduce future settlements. There are no records of similar compaction of backfill materials taking place elsewhere on the Rockingham opencast area.

4.1.2 RSK intrusive site investigation

- Rockingham 1 Geo-environmental Assessment: RSK Report 321393-R2 (01) November 2013.

A site investigation carried out by RSK in July 2013 on the Rockingham 1 parcel confirmed the thickness and composition of the fill material. The investigation confirmed that the site is underlain by a variable thickness of made ground overlying Coal Measures bedrock. The made ground generally comprised very firm to stiff, friable clay

with a significant proportion of granular material. Gravels, cobbles and boulders were all encountered within the fill. The made ground ranged in thickness from 1.8m at the south western side of Rockingham 1 to 16.7m in the north eastern corner (close to the south eastern corner of the western site area), demonstrating an increase in opencast backfill from the south west to the north east.

During the trial pit investigation, hard or difficult digging was noted as depth increased. Within the cable percussion boreholes, in situ SPT tests were completed at 1.5m intervals and indicated relative densities in the range of medium to very dense throughout the backfill. The values were consistent with well compacted engineered fill.

Elevated concentrations of carbon dioxide were also recorded during a programme of ground gas monitoring, with the report concluding the need for gas mitigation measures in proposed commercial development buildings.

4.1.3 RSK load test and further investigation

- Rockingham 1, South Yorkshire: Ground Settlement Assessment: RSK Report 321393-R7 (00) March 2015.

In order to provide detailed foundation design requirements for a proposed commercial development RSK undertook further monitoring and investigation works, including surface and groundwater monitoring, a load test, and an inundation test.

Monitoring undertaken showed no evidence that groundwater levels were consistently recharging.

The load test was undertaken by surcharging an area of the site with a mound of soil to replicate a 100kPa load. Over the full period (approximately 200 days) of the test, total settlements of around 55mm were recorded. The surcharge was found to rapidly induce settlement, with half of the total settlement recorded taking place in the 11 days taken to construct the test.

An inundation test was undertaken within an excavated trench 5m long and 1m deep, backfilled with un-compacted material. Surface markers were installed in the vicinity of the trench, and approximately 2,500 litres of water were discharged into it in one day. The installed surface markers were surveyed before and during the inundation, and showed variations from their initial datum levels between a heave of 11mm, and a settlement of 2mm. The average elevation at the time of the final monitoring was 2mm above the initial datum level. The overall test results suggest slight heave, presumably as a result of swelling of clay materials, rather than any tendency towards collapse compression.

4.2 Eastern site area

4.2.1 RSK intrusive site investigation 2015

- Rockingham 3, South Yorkshire; Geo-environmental Site Assessment: RSK Report 321393-R4 (01) April 2015.

RSK undertook an intrusive site investigation of a parcel of land identified at the time as Rockingham 3, which broadly corresponded to the current eastern site area. The purpose of this assessment was to investigate existing ground conditions and assess the contamination status of the site and the ground treatment required to enable the proposed redevelopment of the land for commercial end use. The lateral coverage of the investigation works were constrained by the presence of dense vegetation and semi-mature trees preventing access to the south eastern part of the site.

The investigation generally confirmed the expected presence of a variable thickness of opencast backfill across the area, ranging between around 20m in the west and 55m in the east. The fill comprised an upper layer (ranging from 0.3m to 1.7m thick) of apparent re-worked natural slightly gravelly clay. The re-worked clay layer was underlain by made ground generally comprising firm to stiff friable clay with a significant proportion of granular material. Gravels, cobbles and boulders encountered were generally angular to subangular grey mudstone, sandstone and siltstone. Coal fragments were occasionally encountered throughout the stratum. In one location there was a layer of burnt orange shale gravels with coal and dark grey siltstone. All of the cable percussive boreholes were terminated due to obstructions thought to be mudstone boulders within the made ground.

Three rotary boreholes were advanced to rockhead to confirm the full thickness of fill. These were used to validate the depth of previous opencast workings recorded on abandonment plans. In two of the boreholes the depth to the base of the fill was consistent with that estimated from the plans, but in the third there was significant variation, suggesting that the historic plans may not always provide accurate depths.

Groundwater was not encountered in any of the boreholes or trial pits. Subsequent monitoring of installed boreholes recorded the presence of groundwater at a range of depths. The monitoring did not indicate the presence of a continuous water body.

No visual or olfactory evidence of significant contamination was observed in any of the boreholes or trial pits. The fill comprised reworked natural materials and anthropogenic materials were not generally encountered. No asbestos fibres were detected during laboratory screening of soil samples.

Limited laboratory analyses of soil samples for a range of chemical contaminants did not record any significantly elevated concentration (there was negligible risk to human health as a result of direct contact with the soils). However, further assessment may be required in respect of future water supply pipes, particularly semi-volatile organic

compounds (SVOC) concentrations. It was indicated that the possibility remains that localised areas of significant soils contamination could be encountered at the site.

Laboratory analysis of groundwater samples was undertaken and recorded negligible impact. The risk assessment completed indicated that a potential contaminant linkage between subsurface contaminants and groundwater in the underlying secondary A aquifer is discounted, due to the minimal impact in groundwater on site, no identified contamination source within shallow soils and no continuous groundwater body.

Six rounds of ground gas monitoring of the installed boreholes were undertaken. This monitoring indicated that the site should be classified as CS2 in respect of ground gases. As such, appropriate gas protective measures are required in the proposed buildings at the site. It was not considered that off-site migration of hazardous ground gases presented a significant risk to the adjacent residential and commercial properties.

A total organic content of 16% is reported in one soil sample. Considering the risks of combustible materials in the subsurface, further assessment total organic carbon and calorific value was recommended.

A number of SPT tests were undertaken within the backfill in cable percussive boreholes, at depths from 1.0m to 6.7m bgl, and these recorded medium dense to very dense conditions. The density of backfill materials below 6.7m bgl was not tested. A laboratory compaction test undertaken on a sample of the backfill material revealed a maximum dry density of 1.93Mg/m^3 and an optimum moisture content of 10.0%.

Several surface PGM markers were installed across the site, and these were monitored for a 19-month period. The results recorded were variable, and whilst averaged values indicated the possibility of ongoing self-weight settlement ongoing of 7mm or 8mm per year, further monitoring was required to complete the assessment.

4.2.2 RSK load test and settlement monitoring 2016

Subsequent to the intrusive works detailed above, in 2016 RSK undertook a surcharge load test and continued to monitor a number of PGMs distributed around the eastern site area.

4.2.2.1 Load test

RSK carried out a surcharge load test on the western part of the eastern site area. This comprised the construction of a surcharge soil mound of approximately 40m by 55m in plan (plus sloping sides) and 5.0m in height. This was designed to apply a load of approximately 100kN/m^2 across a broad ground surface, which would apply stress to the full depth of opencast backfill. The test was designed to mimic the area and load expected to be exerted by a typical light industrial or commercial building.

To facilitate settlement monitoring two hydrostatic profile gauge (HPG) access pipes were installed at the site surface before the surcharge mound was constructed. These

passed across the plan footprint of the surcharge mound in two directions and were identified as L1 and L2. The HPG monitoring consists of a probe which traverses a length of the access tubes, and readings are taken at regular intervals. Each round of monitoring is referenced to a datum, and subsequent settlement monitoring readings are reduced to an elevation height (m AOD). The datum is surveyed at regular intervals during the monitoring period and therefore any potential change in level of the datum is taken in to account. HPG monitoring measures settlement in a horizontal plane immediately beneath the surcharge mound, and does not monitor settlement through a vertical profile.

In addition, a borehole extensometer was installed close to the proposed mound's centre, and this was extended upwards through the mound as it was built up with soil. This system uses magnets installed at various depths within the borehole which can move vertically to record settlement at different depths as the surcharge mound is constructed and during subsequent monitoring. The extensometer was installed with five spider magnets at approximate 2.0m intervals between 2.4m and 10.4m bgl (prior to mound construction), and three magnets installed between 13.4m and 20.2m bgl. The datum magnet was installed within bedrock at around 30m bgl.

Monitoring of the induced settlement began with baseline monitoring (prior to mound construction) taking place at the end of February 2016. Monitoring continued whilst the mound was being constructed throughout March, with the last of the material added by mid-April. Following construction of the mound settlement was monitored for a period of approximately nine months.

The positions of the surcharge mound, the two HPG access pipes and the borehole extensometer are indicated in Figure 5.

Tables and graphs showing the settlement recorded during the monitoring are presented in Appendix F. The results are discussed below.

HPG Monitoring

Monitoring within both pipes L1 and L2 generally show a pattern of settlement as would be expected, with a higher rate of initial settlement recorded at the start of the test, during surcharge mound construction, and a much slower rate of ongoing settlement thereafter. For both pipes, the slow ongoing settlement suggests that further settlement would have been record had the monitoring period been extended.

The maximum settlements recorded are around 200mm, and as would be expected, the highest settlements were recorded toward the centre of the surcharge mound.

Borehole Extensometer

The extensometer installation suffered from vandalism and this is likely to have significantly affected some of the results, which must be viewed with some caution.

The results for the shallow magnets do appear to generally show a pattern of rapid settlement during the mound construction, followed by stability once the mound is complete. A broad summary of results is as follows:

- M1 and M2 (at depths of 2.4m and 4.3m) recorded total settlements of between 60mm and 68mm
- M3 (at 6.3m) recorded a total settlements of 38mm
- M4 (at 8.8m) recorded settlements of between 10mm and 20mm
- M5 (at 10.4m) recorded settlements of between zero and 10mm
- M5 to M8 (between 13m to 20m) all recorded marginal heave (up to 10mm).

The settlement recorded from these magnets is greater in the shallower horizons, which is as would be expected. Little settlement was recorded at or below 10.4m depth (M5).

4.2.2.2 PGM monitoring

During 2015, RSK undertook additional topographical elevation monitoring of the available PGMs from those that had been previously installed at the site as part of the Rockingham 3 site works in 2015. The locations of the PGMs monitored during 2016 are shown in Figure 3, and these were entirely on the central and western parts of the eastern site area, with none available in east. The monitoring took place over a 10-month period.

The results of the monitoring recorded a modest reduction in the elevation of all of the PGMs, with the lowest reduction being 4mm and the maximum 18mm. On average an 8mm reduction in elevation was recorded at the end of the 10-month period, but average settlements were less than 1mm in the first five months of the monitoring.

4.3 Geotechnical assessment

The investigation works completed have identified that across most of the site significant thicknesses of opencast backfill are present and around the perimeter of the opencast areas steep interfaces (highwalls) between the underlying bedrock and overlying opencast backfill will be present. These represent significant potential constraints to future development and require full assessment, part of which has been completed by the work undertaken by RSK in recent years. In this section we consider the key issues and how these need to be addressed.

4.3.1 Mechanisms of ground settlement

The site is predominantly underlain by significant thicknesses of opencast backfill and such materials may be susceptible to a number of settlement mechanisms. These are

listed and described below (with comments on how they are being assessed in brackets):

- self weight settlement – poorly consolidated backfill materials may settle under their own weight. The timescale is dependent on grain size and is generally short-term in granular soils and long-term in fine grained/cohesive soils (establishment of surface PGMs and long-term monitoring)

- inundation settlement – water entering loosely placed fill can induce significant settlement as particles are softened and collapse into the interstitial voids. The mechanism is most likely in loosely placed backfill with large sized weak fragments and would not be expected in backfill placed as an engineered fill. Water inundation may be from either rising groundwater from the base of the backfill or from surface water infiltration (surface inundation soakage tests and a long-term programme of monitoring of deep groundwater levels)

- construction and loading induced settlement – loose or weak backfill would be susceptible to settlement induced by loading from new structures, or from fill placed to provide a development platform (large scale load tests and geotechnical settlement modelling).

4.3.2 Assessment of settlement mechanisms

The PGM monitoring has been carried out in a number of phases, with breaks between and consequently a complete monitoring dataset is not available. At some locations it appears that some ongoing settlement may be occurring, however at other locations negligible ground movement has been recorded and there is some uncertainty over the surveying accuracy of some of the data. In order to progress the site, it is fundamental that stable ground conditions are confirmed, it is therefore recommended that a regular accurate monitoring programme is established. This should include all existing PGMs (that remain operable) but should be supplemented by additional pins where required. These should be re-established and monitored monthly for 3 months then quarterly for a further 12-month period.

To assess the potential for inundation settlement it will be necessary to carry out plot specific surface inundation tests and to confirm the long-term resting levels of deep groundwater. In respect of deep groundwater a number of installations are present and these have been monitored periodically by RSK. It is recommended that more regular groundwater monitoring is carried out over a long period (comparable to the recommended PGM in the paragraph above). If recovery of water levels is indicated (i.e. rising levels in deep installations) then consideration would have to be given to adding further monitoring installations.

The large load test in the eastern area recorded settlements of the order of 200mm from an approximate load of 100kPa. This confirms that the opencast backfill will be susceptible to significant settlements from the proposed development construction loads. In order to address this some form of ground treatment will be required. Details of

this would be dependent on the size and structural loads of the proposed development and a range of treatment methods may be suitable (including for example surcharging, dynamic compaction, HEIC possibly combined with partial excavation and replacement with engineered fill or partial depth treatment with vibro-compaction).

Outside of the areas of opencast mining it is expected that competent natural soils and/or bedrock will be present at shallow depth and these settlement mechanisms will not be relevant. In such areas conventional shallow strip or pad spread foundations and ground-bearing floor slabs are likely to be possible (however in these areas shallow coal seams may be present, which may have been worked underground and this would need to be assessed).

4.3.3 Highwalls

A highwall associated with the Elsecar Fault is present in the east of the eastern site area. Also, across the north west of the western site area, another highwall is expected at the boundary of the former opencast workings. At this stage the variation in thickness of fill across these features is not fully known, and it would usually be advised that the highwalls be considered no-build zones. However, they could be used for roads, car parking and landscaping. If building over or across highwalls is proposed this could only be considered following addition site-specific investigation work, loading tests and assessment work.

4.3.4 Geotechnical conclusions

The opencast backfill is not currently considered to be a suitable founding stratum for the building development, and so it will require treatment to improve its bearing capacity. A range of ground treatment options might be considered and both surcharging and HEIC treatment have been successfully adopted locally; with surcharging on the neighbouring Shortwood Business Park (RSK designed and supervised this work); and HEIC treatment for Unit 5 at Rockingham 1 development.

5 PRELIMINARY RISK ASSESSMENT

The pertinent information presented in earlier sections of this report has been used to compile an initial conceptual site model (CSM) in respect to potential pollutant linkages. The identified potential sources of contamination, associated contaminants and receptors have been considered with plausible pathways that may link them. The resulting potential pollutant linkages are considered in Section 5.5. The risk classification has been estimated in accordance with information in Appendix G.

5.1 Summary of potential contaminant sources

Potential sources and contaminants of concern are summarised in Table 4.

Table 4: Potential sources and types of contamination

Potential sources	Contaminants of concern
On-site historical	
Potential for localised contamination in vicinity of buildings on eastern area associated with deep mining activities, coke manufacture, railway and the saw mill. Potential for ashy materials, oil and fuel leakages and minor spillages from machinery and equipment, etc. Also, possible made ground containing demolition materials. It is possible that such localised contamination was relocated during the subsequent opencast mining of the site and incorporated into the backfill materials.	Fuel oils, lubricating oils, polycyclic aromatic hydrocarbons (PAHs), ash (PAHs and heavy metals), asbestos.
On-site present day	
Opencast backfill to the surface mine, likely to include reworked overburden and bedrock. Possibility of some contaminated materials from historical industrial on-site activities.	Fuel oils, lubricating oils, polycyclic aromatic hydrocarbons (PAHs), ash (PAHs and heavy metals), asbestos.
Off-site	
Opencast backfill extends off site to south, east and west, same potential impacted as on-site fills.	Fuel oils, lubricating oils, polycyclic aromatic hydrocarbons (PAHs), ash (PAHs and heavy metals), asbestos.
Gas sources	
Opencast backfill, likely to be predominantly inert. Underlying Coal Measures Bedrock and deeper mining including mine shafts.	Carbon dioxide, methane and trace gases. Intrusive assessment of ground gases previously completed on eastern site area has found risks to be negligible, but situation on western area is unknown.

RSK considers that contaminated soils may be present within the backfill materials in the former opencast voids on site. These could have resulted from inclusion within the backfill of localised contaminated soils from in and around the former colliery and associated industries on site. However, it is considered unlikely that this contamination is significant given the environmental site setting and the proposed end-use. Given the thickness of made ground and deeper mining sources at the site risks from hazardous ground gases need to be considered for the western site area. However, it is considered that the majority of the made ground will be inert with very low gas generation potential.

5.2 Sensitive receptors

Sensitive receptors identified at the site (following redevelopment) include:

- future site workers on commercial development
- adjacent site users
- users of the public footpaths crossing the site
- proposed buildings, infrastructure and services
- potable water supply pipes
- groundwater beneath the site (secondary A aquifer comprising the Pennine Lower Coal Measures Formation bedrock)
- surface watercourses (stream on site, Blacker Dike to the north).

Please note that construction workers have not been identified in the conceptual model as receptors because risks are considered to be managed through health and safety procedures including CDM regulations.

5.3 Summary of plausible pathways

The plausible pathways for identified for the site are summarised below:

- direct contact (soil, dust and vegetable ingestion, dermal contact, dust and fibre inhalation)
- ground gas and soil gas accumulation and/or inhalation
- vertical and lateral migration including leaching
- root uptake
- permeation of plastic water supply pipes.

5.4 Data gaps and uncertainties

The composition of fill within the former opencast voids is expected to comprise predominantly reworked overburden and bedrock materials. On the western site area there has not been any intrusive investigation to confirm the absence of other, potentially contaminative materials.

On the western part of the site Coal Authority evidence indicates that was previously an area of old (unlicensed) opencast. The ground conditions in this area are unknown.

5.5 Potentially complete pollutant linkages

The outline CSM has identified several potentially complete pollutant linkages and these, along with an estimate of the risk associated with each linkage, are presented in Table 5. The risk classification has been undertaken in accordance with CIRIA guidance, a summary of which is included in Appendix G.

Table 5: Risk estimation for potentially complete pollutant linkages

Potential Contaminant	Potential receptor	Possible pathway	Likelihood	Severity	Risk and justification
Possible contamination in soils placed within opencast backfill (materials originally from areas around former colliery and associated infrastructure, colliery spoil, and possible demolition rubble). (on-site sources)	Future workers in commercial development	Direct contact (soil, dust and vegetable ingestion, dermal contact, dust and fibre inhalation)	Low likelihood	Medium	**Moderate / Low:** Prior to being excavated as part of opencast operations, overburden soils and bedrock may have been locally contaminated due to the former presence of a colliery on site. Demolition materials from the former buildings (potentially including asbestos) may have been mixed with the overburden materials.
	Residents/users of adjacent commercial and residential areas	Direct contact with windblown dust	Unlikely	Medium	**Low:** If contamination is present on site it is unlikely to significantly impact residents/users off-site. It is expected that during the construction phase dust generated from soils will be controlled as required by CDM regulations.
	Future workers in commercial development	Permeation of water supply pipes	Low likelihood	Medium	**Moderate / Low**: If organic contamination is present there is a potential for quality of water supply pipes to be affected.
	Secondary 'A' aquifer in Pennine Lower Coal Measures	vertical and lateral migration of contaminants into underlying bedrock aquifer	Low likelihood	Medium	**Moderate / Low**: it is possible that any contamination within the filled voids on site could leach and impact the aquifer.
	Surface watercourse (ditch on-site and Blacker Dike)	Surface water run-off, lateral migration of contaminants	Unlikely	Medium	**Low:** It is possible that any contamination within the shallow soils on site could leach and migrate to the nearby stream, though the stream is likely to be perched above the groundwater within the filled voids.
Ground gases from opencast backfill (and from underlying Coal Measures)	Future workers in commercial development	Vertical and lateral migration and build-up of methane in confined spaces, leading to	Low likelihood	Severe	**Moderate**: Given the considerable depth of infilled voids there is potential for gas generation, but the fill is likely to comprise almost entirely inert materials. Significant ground gas generation has not been recorded on the eastern site area.
	Off-site occupants		Unlikely	Severe	**Moderate/Low**: Given the considerable depth of opencast backfill (and

Potential Contaminant	Potential receptor	Possible pathway	Likelihood	Severity	Risk and justification
	of nearby residential and commercial properties.	explosion, or inhalation of carbon dioxide in confined spaces, resulting in suffocation.			underlying Coal Measures) there is potential for gas generation, but the backfill is likely to comprise almost entirely inert materials. Off-site properties are less likely to be affected than those on site.
	Proposed buildings and infrastructure		Low likelihood	Medium	**Moderate/Low**: Given the considerable depth of opencast backfill (and underlying Coal Measures) there is potential for gas generation, but the backfill is likely to comprise almost entirely inert materials. Proposed buildings and infrastructure are a less sensitive receptor.

The potential pollutant linkages with a risk of moderate/low or above that may drive site investigation and assessment works are:

1. vertical and lateral migration of ground gas into enclosed spaces which would affect future workers on-site (and possibly workers on adjacent sites and future buildings on site) – **Moderate risk**

2. direct contact (including ingestion and inhalation) between soils on site and future workers in the proposed commercial properties – **Moderate/Low risk**

3. permeation of water supply pipes by contaminants in soils and subsequent ingestion by workers in the proposed on-site commercial buildings – **Moderate/Low risk**

4. vertical and lateral migration of contaminants into underlying bedrock aquifer – **Moderate/Low risk**.

6 COAL MINING RISK ASSESSMENT

The Coal Authority, in common with other statutory consultees, utilises a risk-based approach for the advice that they offer on proposed developments in relation to coal mining legacy issues. The site lies within the Coal Authority Consultation Area and includes Development High Risk areas. It is a requirement for High Risk areas to prepare a desk-based Coal Mining Risk Assessment (CMRA) report to support planning applications.

A CMRA should consider all available sources of coal mining information and from this assess the site-specific mining issues and risks. It then needs to determine the mitigation measures required to address these issues for the proposed site end use. Coal Authority Mining Reports and all other available coal mining data for the site have been obtained, reviewed and considered in Section 3 above and the proposed development summarised in Section 6.1 below. The site-specific coal mining issues are assessed and outlined in Section 6.2 and the mitigation required to address the identified issues is presented in Section 6.3.

It is considered that the CMRA presented here is adequate to support a detailed planning application in relation to coal mining risk assessment and mitigation.

6.1 Proposed development

The site is proposed for development with large commercial units together with areas of car parking, road pavement and landscaping. Some cut and fill operations will be required to provide level development platforms.

The buildings will include two separate structural elements: the floor slab and the building structure. Typically, but dependant on ground conditions, a ground bearing floor slab would be adopted with the building structure supported on a grid of pad foundations with columns spread across the building footprint.

6.2 Assessment of coal mining risks

6.2.1 Underground workings

Where coal is extracted by underground mining techniques a void is left behind where the coal seam has been removed. Over time this can collapse with the result that the void progressively migrates upwards. Where the mining is at significant depth this will be accommodated by bulking up of the overlying materials until no further progression is possible, however if the workings are at shallow enough depth this may result in formation of crown holes and instability at the overlying ground surface. It is generally accepted that collapse within a coal seam causes only negligible risk to the stability of the ground surface above provided the thickness of intact rock above the seam is at

least ten times the thickness of the worked seam, although this will be dependent on the materials present and site-specific conditions.

Opencast Area

In the areas subject to opencast mining the shallowest coal seams have been completely removed. In these areas the only concern, in respect of underground workings, will be the possible collapse and void migration from the underlying coal seams which were worked underground. The greatest risk is posed from the next underlying coal seam in the sequence.

The two deepest seams worked by opencast methods are the Swallow Wood and the underlying "Un-named" seam (1AQ). From the abandonment records the Un-named seam lies approximately 7m below the Swallow Wood. The next underlying seam is the Lidgett seam which is recorded as lying some 60m below the Swallow Wood [NB the legend on the BGS six-inch series geological map indicates it to be 56m below, but a BGS borehole record indicates it is 65m below, which is supported by the Rockingham Shaft records that indicate a spacing between the seams of 63m (Shaft No. 1) and 68m (Shaft No. 2)]. Therefore, the Lidgett seam, which is locally recorded as typically less than 1.25m in thickness, has an approximate rock cover of over 50m, which is sufficient to preclude any possible void migration.

Areas outside the Opencast

The north western corner of the western site area and in the north eastern corner of the eastern area are indicated to lie outside the area of opencast mining by RJB Mining. These areas can be seen on Figure 3 (where there is no expected thickness of fill indicated). Within these areas it is likely that the same coal seams which have been removed by opencast mining in the adjacent areas will be present at shallow depth. If there are underground workings in these shallow seams there is the possibility that collapse of the workings could cause instability at the surface.

It will be necessary to investigate these parts of the site to assess these risks.

6.2.2 Mine entries

Mine entries that remain in place and untreated represent a risk to development due to the potential for collapse.

Six mine entries were recorded on the site in the Coal Authority report, all within the eastern land parcel. These are commented on as follows:

- the Coal Authority records (see Appendix D) indicate two of these (adit 435401-008 and adit 435401-009) were completely removed by the opencast mining operations

- the Coal Authority records also indicate that shaft 435401-001 may have been wholly or partially removed by the opencast mining operations (see further comments below)

- the three other mine shafts were subject to some form of treatment between 1953 and 1990 before being partially removed by the subsequent opencast mining activities. Details of each are as follows:

    - Shaft 435401-002, plugged at the depth of the Flockton seam in 1990, partially removed by opencast mining and capped at the base of the opencast workings in June 1992

    - Shaft 435401-003, was filled in 1990, partially removed by opencast mining and capped at the base of the opencast workings in June 1992

    - Shaft 435401-007, was filled in 1953, and totally removed by opencast mining.

Therefore, five of the mine entries have either been entirely removed or have been partially treated and capped at rockhead. These are not considered to represent a risk to the proposed development.

One shaft (435401-001) is recorded by the Coal Authority as having been wholly or partially removed by opencast mining. There is no record of this being capped at rockhead (base of the opencast excavation) by RJB Mining during their operations, and this suggests that it may have been a relatively shallow shaft (such as an air or ventilation shaft) which did not extend beneath the base of the opencast excavation. This is supported by historic mapping from 1893, 1905 and 1931 which indicates two shafts and an air shaft in positions that correspond with the records of the three closest shafts detailed in the Coal Authority report [NB the underground mining abandonment plans obtained by RSK (for the Flockton Thick, Low Fenton and Thorncliffe seams) show only two shafts at Rockingham colliery, labelled as No. 1 shaft and No. 2 shaft]. As this shaft appears to have been a shallow feature we would concur with the Coal Authority assessment of it having been wholly removed by the opencast mining and believe it is unlikely to pose a risk to the site development.

6.2.3 Opencast mining

There are a number of potential issues relating to the opencast mining operations recorded on site which need to be considered. These are discussed in turn below.

Settlement mechanisms for opencast backfill

In earlier sections of this report (Section 4.3) the plausible settlement mechanisms for the opencast backfill present on site were outlined, together with comments on both the assessment work already completed on site and recommendations for additional future work. The key findings are summarised below.

The opencast backfill has been in place for over 20 years and self-weight settlement would now be expected to be largely complete. Monitoring of surface pins (PGMs) has been carried out periodically, however there is uncertainty over some results and a complete monitoring dataset is not available. Consequently, additional monitoring is required to confirm that the present surface is stable and that development can proceed.

Inundation settlement is a potential settlement mechanism for poorly compacted opencast backfill, particularly if boulders and coarse grained materials are present. This type of backfill is present on site and it will be necessary to complete further assessment work. This will require both surface inundation tests and long-term monitoring of resting levels of deep groundwater. Some assessment and monitoring work have been completed but additional work is required.

The settlement behaviour of the opencast backfill to loads typical of the proposed development have been assessed by carrying out a large scale surcharge load test (in the eastern area). This recorded settlements of the order of 200mm from an approximate load of 100kPa. This confirms that the opencast backfill will be susceptible to significant settlements from the proposed development construction loads. In order to address this some form of ground treatment will be required, which may include for example; surcharging; dynamic compaction; HEIC; possibly combined with partial excavation and replacement with engineered fill; or partial depth treatment with vibro-compaction.

Highwalls

Around the perimeter of the opencast excavations steeply sloping interfaces will be present between the overlying opencast backfill and bedrock. An extensive highwall associated with the Elsecar Fault is present in the east of the eastern site area. Also, across the north west of the western site area, another highwall is expected at the boundary of the former opencast workings.

At this stage the variation in thickness of fill across these features is not fully known, however the variable ground conditions across these features make them particularly susceptible to differential settlements. Consequently, it would usually be advised that the highwalls be considered no-build zones. However, they could be used for roads, car parking and landscaping. If building over or across highwalls is proposed this could only be considered following additional site-specific investigation work, loading tests and assessment work.

Source of ground gases

The opencast backfill should be considered a potential source of hazardous (permanent) ground gases. The ground gas regime will need to be fully assessed by a programme of monitoring of gas concentrations and flows, together with barometric pressure and standing groundwater levels. The results of this would be used to determine any gas ingress prevention requirements for the proposed development. Although the eastern site area has previously been assessed

6.3 Mitigation measures

6.3.1 Underground workings

Beneath the areas of opencast mining the next underlying coal seam is over 50m below the base of the opencast workings. This provides adequate intact rock cover and in

these areas there is no significant risk to surface stability from possible collapse of workings. Consequently, no mitigation measures are required.

Outside the opencast areas there are likely to be shallow coal seams, which if worked underground, would pose a potential risk to ground surface stability. In these areas it will be necessary to carry out a programme of rotary borehole drilling investigation works to confirm the ground conditions. If this indicates shallow workings are present, ground treatment by drilling and grouting consolidation works will be required across the footprint and a perimeter area for all proposed buildings.

6.3.2 Mine entries

The mine entries recorded on site have all been either removed or treated and capped at rockhead and do not represent a constraint to future development. Consequently, no mitigation measures are required.

6.3.3 Opencast mining

Most of the site area has been subject to the opencast extraction of coal by RJB Mining in the 1990's.

Self-weight settlement of the opencast backfill would now be expected to be largely complete. However, in order to confirm this additional monitoring is required, possibly including further load testing.

The potential for inundation settlement requires further assessment work. This should include both surface inundation tests and long-term monitoring of resting levels of deep groundwater.

The large scale load test recorded settlements of up to 200mm, which confirms that the opencast backfill is susceptible to significant settlements from the proposed development construction loads. Some form of ground treatment will therefore be required before development can commence. This might include; surcharging; dynamic compaction; HEIC possibly combined with partial excavation and replacement with engineered fill; or partial depth treatment with vibro-compaction.

The highwalls present beneath parts of the site represent areas where ground conditions can change rapidly over short distances and any future development may be susceptible to differential settlement. At this stage it is recommended that the highwall areas be considered no-build zones. However, they could be used for roads, car parking and landscaping. If building over or across highwalls is proposed this could only be considered following addition site-specific investigation work, loading tests and assessment work.

The opencast backfill (and underlying Coal Measures) are potential sources of hazardous permanent ground gases. Prior to development a programme of up-to-date ground gas monitoring and assessment needs to be completed to inform the requirements for ground gas preventative measures for any new development.

7 CONCLUSIONS AND RECOMMENDATIONS

7.1 Preliminary risk assessment

The information obtained for the site (including RSK's previous investigation of the eastern site area) indicates the presence of opencast backfill materials on-site. The backfill material is mostly inert, being the reworked natural soil and bedrock overburden from the opencast mining. However, there is the possibility of localised contaminative materials present, these originating from the previous use of the site as a colliery with associated operations.

The PRA for the site has identified a moderate risk to receptors from migration of hazardous ground gases into enclosed spaces (on the western site area), and this requires further assessment. Moderate/low risks to receptors have been identified from direct contact with soils, permeation of plastic water pipes, and migration of any contaminated groundwater.

Further site investigation work is required to assess the potential contamination linkages identified in the PRA. Assessment of ground gas conditions on the western site area should be included as part of these works, and gas monitoring across the complete site should be brought up to date (the local authority is likely to only accept monitoring results from the last two years). This is likely to include installation of wells and a programme of monitoring. Also, during the intrusive works soil samples should be recovered and analysed to confirm an absence of significant contamination and rule out the moderate/low risks identified in the PRA.

During future earthworks a watching brief should also be maintained to observe for the presence of any unforeseen contamination.

7.2 Coal mining risk assessment

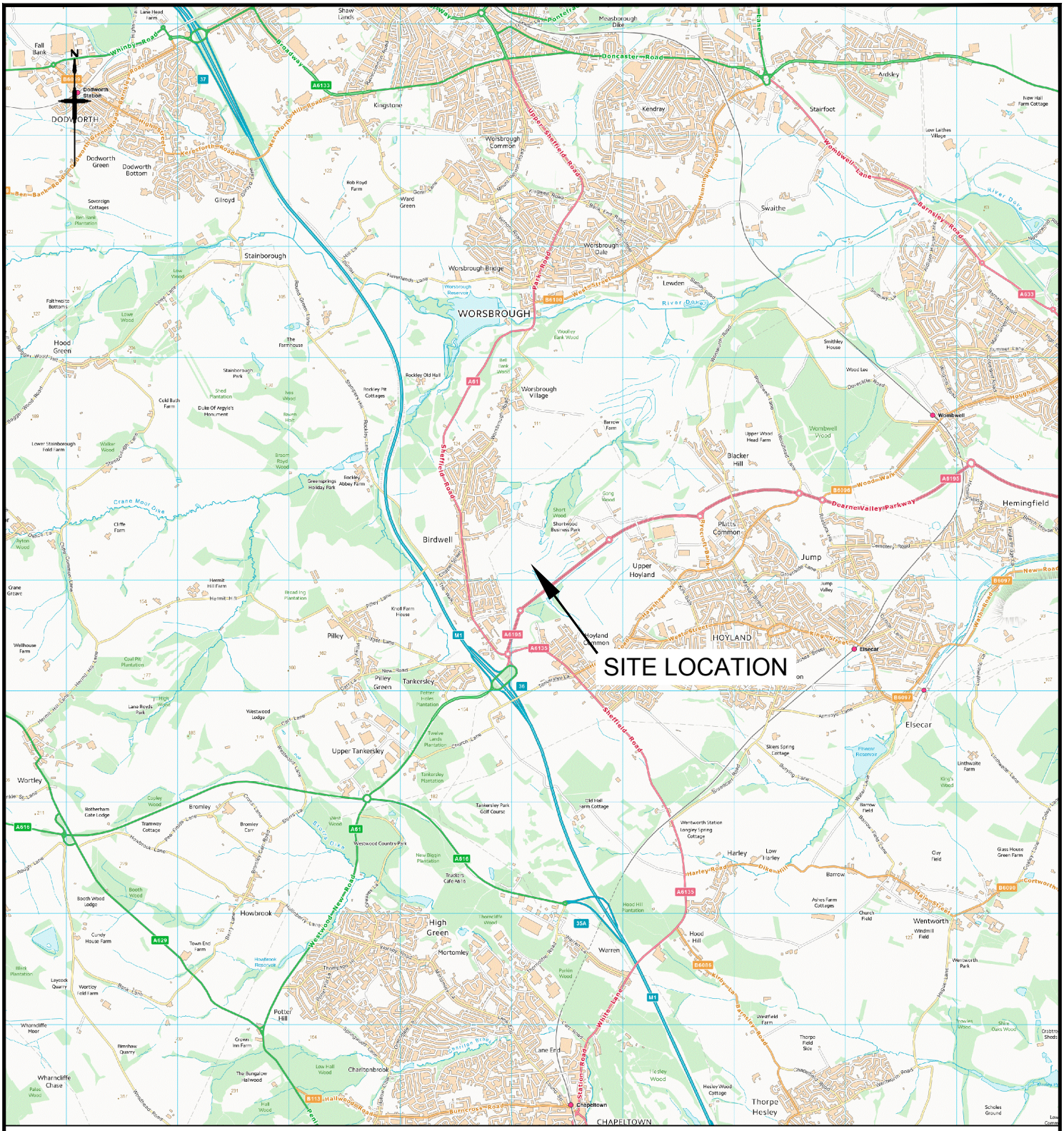
The greatest constraint to be overcome in the development of the site is the design of a ground treatment solution that enables the proposed building loads to be supported on the opencast backfill materials. This may be achieved by a range of methods and will need to be designed to induce adequate settlement across the proposed building footprints in advance of construction, such that any residual settlements once the buildings are in place are acceptably low.

Highwalls are present across parts of the site. It is recommended that these should not be used for building development, however if this is to be considered then additional site investigation works would be required possibly including load tests.

There are areas of the site with the potential for shallow underground coal workings to be present. These will require investigation to confirm their presence or absence and may subsequently require drilling and grouting consolidation treatment.

The opencast backfill and Coal Measures are considered to be potential sources of hazardous ground gases and a full, up-to-date assessment of the ground gas regime is required. This would be used to design appropriate gas-ingress preventative measures.

FIGURES



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RSK
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR
Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

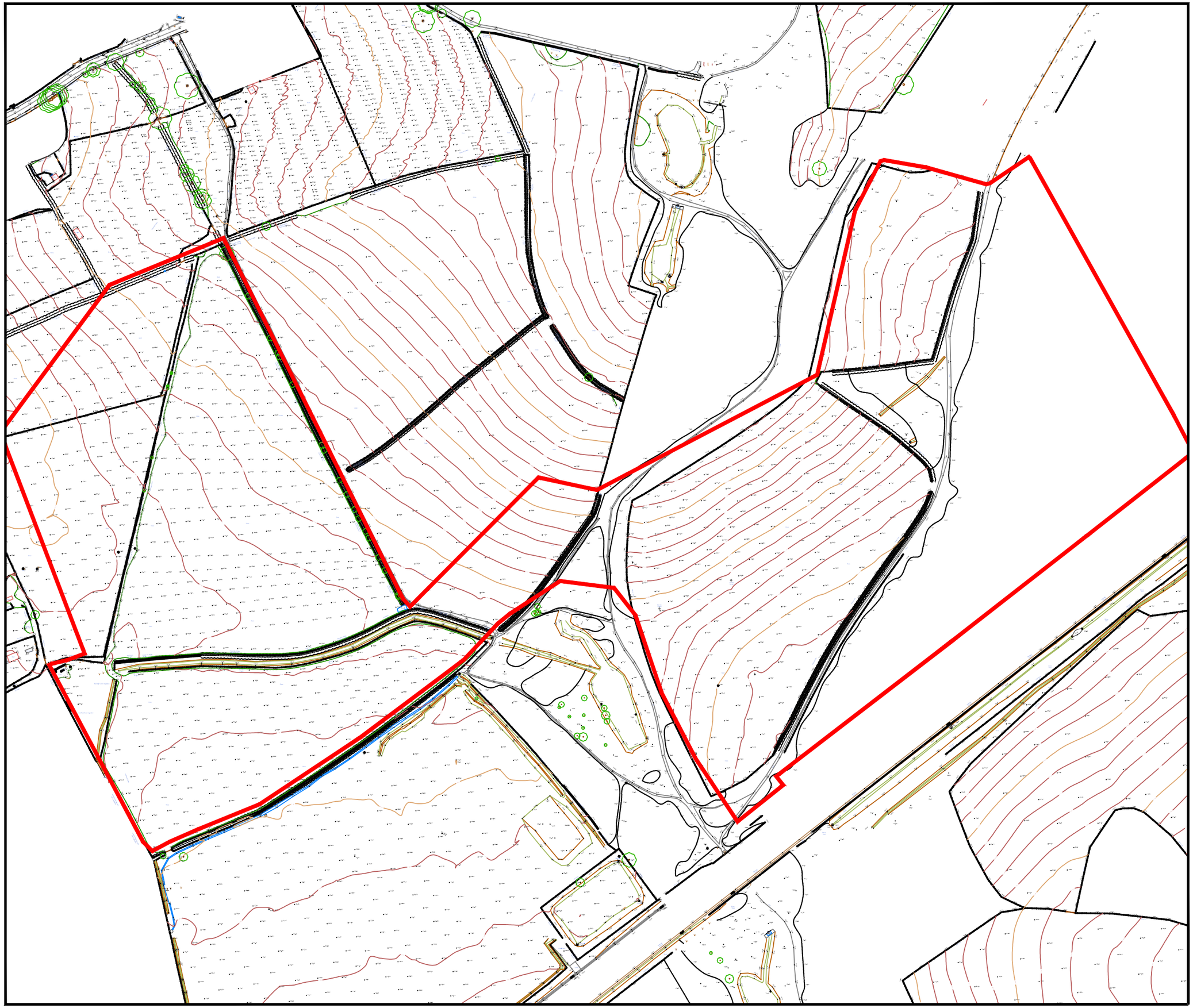
Client: HARWORTH ESTATES LIMITED

Project Title: J36 PHASE 2, ROCKINGHAM

Drawing Title: SITE LOCATION PLAN

Drawn	Date	Checked	Date	Approved	Date	Project No.	Drawing File
AP	04.02.19	RP	04.02.19	GMG	04.02.19	322494	322494-R01(00)D001A

Scale	Orig Size	Dimensions	Drawing No.	Rev.
1:50000	A4	—	FIGURE 1	A



LEGEND:

Site Boundary

N

Notes

Base plan from Greenhatch Group, Drawing No. 20379_3D-OGL, Revision 3, Dated 20.07.17

REV.	DATE	DESCRIPTION	BY	CHD.	APR.
A	04.02.19	FIRST ISSUE	AP	RP	GMG

Dimensions	Projection	Scale	Orig Size
m		1:2500	A3

RSK
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR
Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

CLIENT
HARWORTH ESTATES LIMITED

PROJECT
J36 PHASE 2, ROCKINGHAM

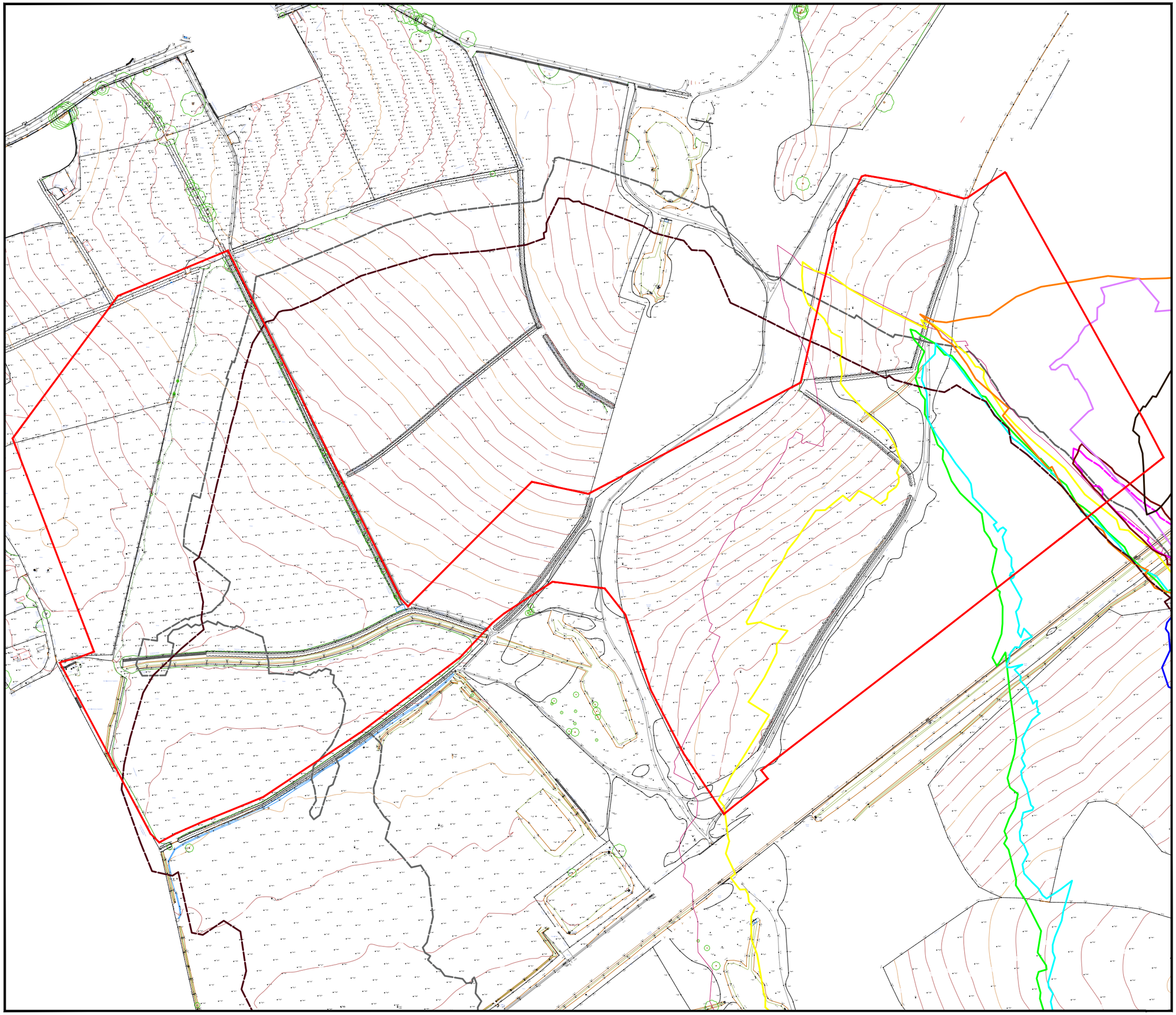
TITLE
SITE BOUNDARY PLAN

JOB No.:	DRAWING FILE:
322494	322494-R01(00)D002A

BY:	DATE:	CONTRACT NO.		REV:
AP	04.02.19		FIGURE 2	A

Scale 1 : 2,500

0 20 40 60 80 100m



LEGEND:

- Beamshaw BB
- Kents Thin BA
- Unnamed 1AZ
- Kents Thick AZ11
- Unnamed 1AY
- Barnsley Rider Upper A
- Barnsley Rider Lower A
- Barnsley AVX
- Dunsil Rider Upper 2AU
- Dunsil Rider Lower 1AU
- Dunsil AU
- Swallow Wood Rider 1AR
- Swallow Wood Ar
- Unnamed 1AQ

N

Notes

Base plan from Greenhatch Group, Drawing No. 20379_3D-OGL, Revision 3, Dated 20.07.17

REV.	DATE	DESCRIPTION	BY	CHD.	APR.
A	04.02.19	FIRST ISSUE	AP	RP	GMG

Dimensions	Projection	Scale	Orig Size
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RSK
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR
Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

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J36 PHASE 2, ROCKINGHAM

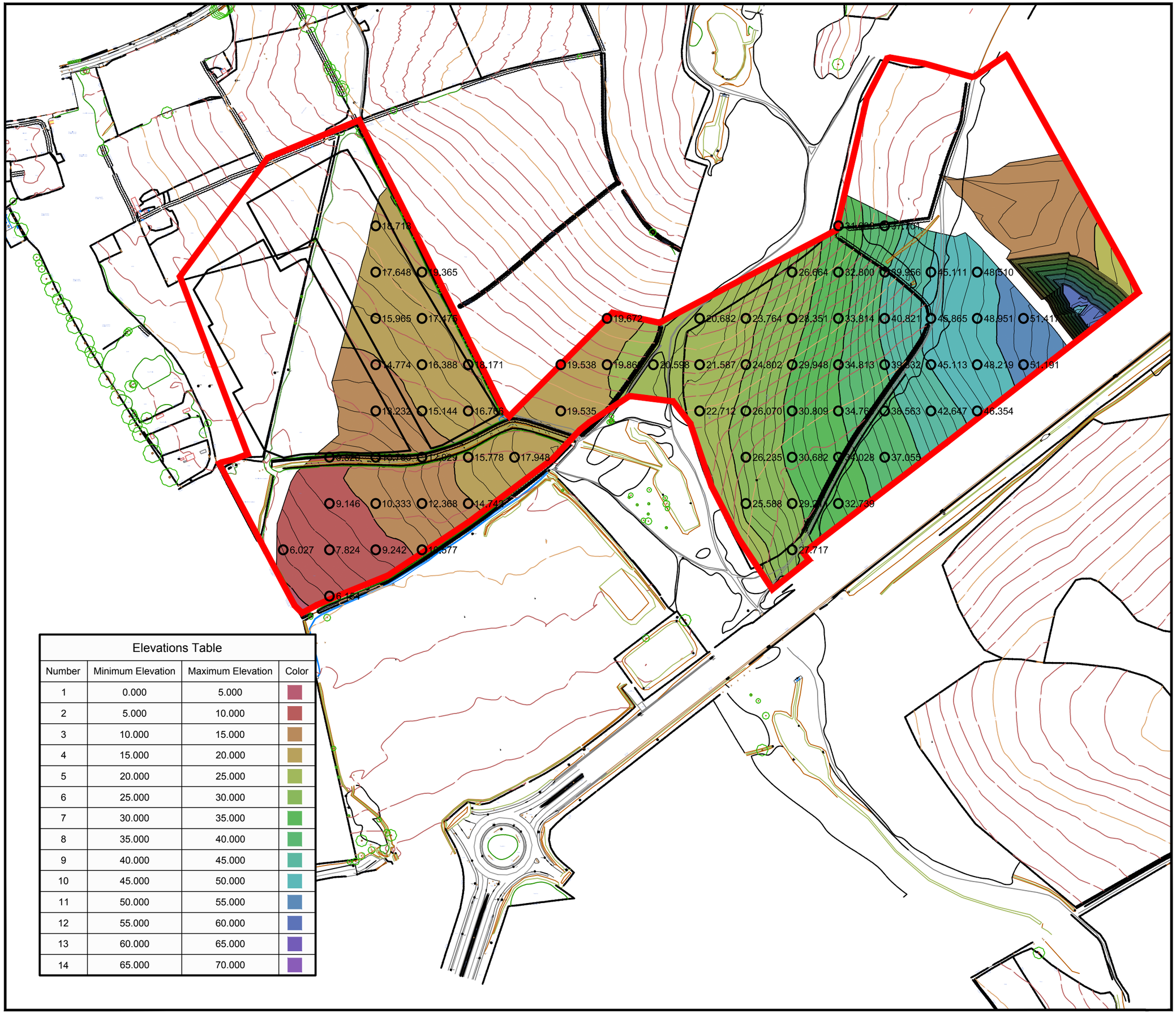
TITLE
WORKED AREAS FOR COAL SEAMS

JOB No.:	DRAWING FILE:
322494	322494-R01(00)D003A

BY:	DATE:	CONTRACT NO.		REV:
AP	04.02.19		FIGURE 3	A

Scale 1 : 2,500

0 20 40 60 80 100m



Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	0.000	5.000	
2	5.000	10.000	
3	10.000	15.000	
4	15.000	20.000	
5	20.000	25.000	
6	25.000	30.000	
7	30.000	35.000	
8	35.000	40.000	
9	40.000	45.000	
10	45.000	50.000	
11	50.000	55.000	
12	55.000	60.000	
13	60.000	65.000	
14	65.000	70.000	

LEGEND:

N

Notes

Depths of backfill calculated from current topography and recorded depths of opencast workings. Extents and depths of opencast workings taken from RJB Mining abandonment plans. Topographical data for the existing site surface is incomplete in places, particularly in south eastern corner. Actual backfill depth mat vary from that shown

REV.	DATE	DESCRIPTION	BY	CHD.	APR.
A	04.02.19	FIRST ISSUE	AP	RP	GMG

Dimensions	Projection	Scale	Orig Size
m		1:3000	A3

RSK
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR
Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

CLIENT
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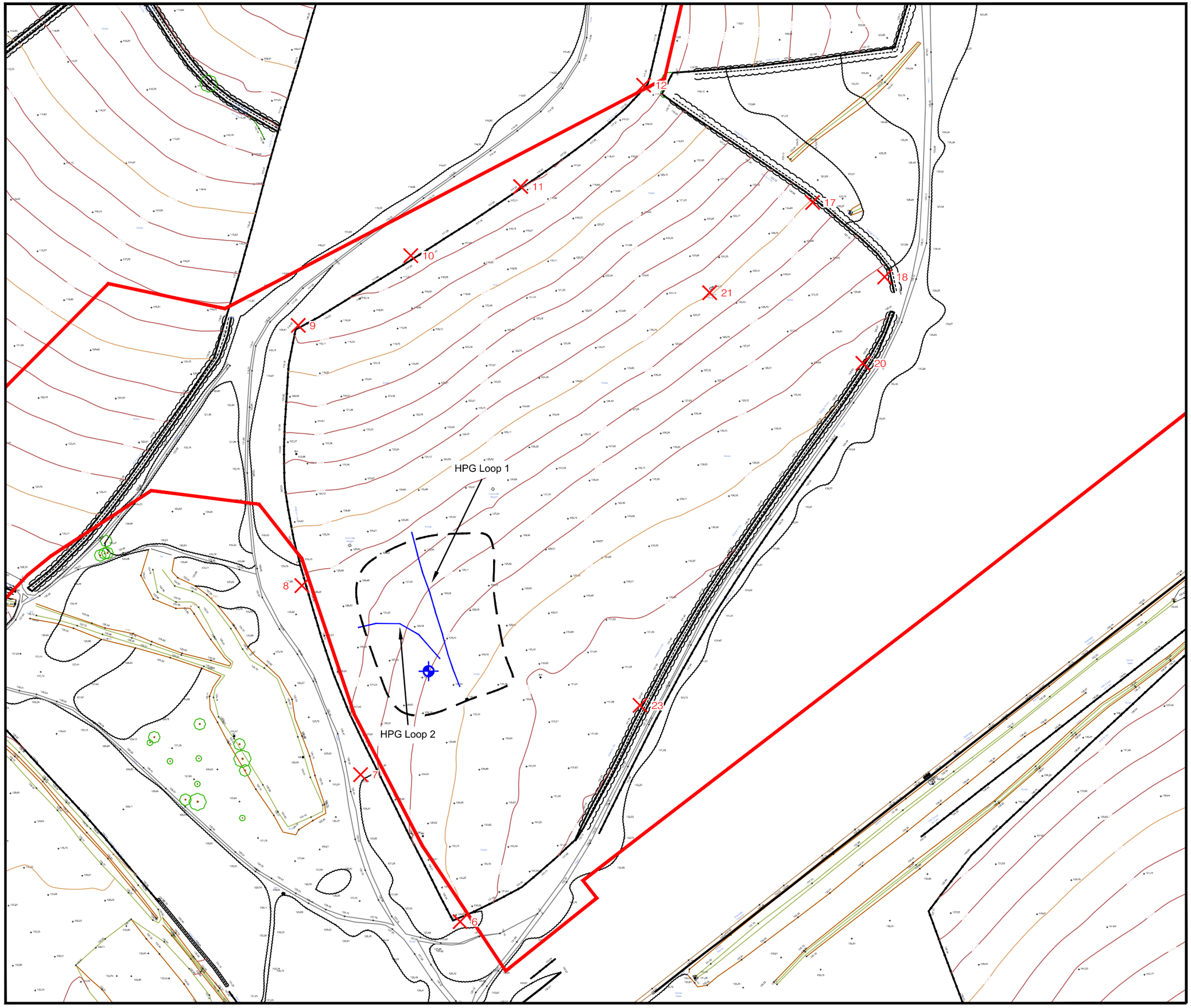
TITLE
CALCULATED DEPTHS OF BACKFILL

JOB No.:	DRAWING FILE:
322494	322494-R01(00)D004A

BY:	DATE:	CONTRACT NO.		REV:
AP	04.02.19		FIGURE 4	A

Scale 1:3,000

0 30 60 90 120 150m



LEGEND:

- Site Boundary
- HPG access pipes
- Extensometer borehole
- Existing PGMs
- Approximate extent of load test mound

N

Notes

REV.	DATE	DESCRIPTION	BY	CHD.	APR.
A	04.02.19	FIRST ISSUE	AP	RP	GMG

Dimensions	Projection	Scale	Orig Size
m		1:1250	A3

RSK
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR
Tel: +44 1928 726006
Fax: +44 1928 725633
Web: www.rsk.co.uk

CLIENT
HARWORTH ESTATES LIMITED

PROJECT
J36 PHASE 2, ROCKINGHAM

TITLE
LOAD TEST AND SETTLEMENT MONITORING LOCATIONS

JOB No.:	DRAWING FILE:
322494	322494-R01(00)D005A

BY:	DATE:	CONTRACT NO.		REV:
AP	04.02.19		FIGURE 5	A

Scale 1 : 1,250

0 10 20 30 40 50m

APPENDIX A
SUMMARY OF LEGISLATION AND POLICY RELATING TO CONTAMINATED LAND

Part IIA of the Environmental Protection Act 1990 (EPA) and its associated Contaminated Land Regulations 2000 (SI 2000/227), which came into force in England on 1 April 2000, formed the basis for the current regulatory framework and the statutory regime for the identification and remediation of contaminated land. Part IIA of the EPA 1990 defines contaminated land as 'any land which appears to the Local Authority in whose area it is situated to be in such a condition by reason of substances in, on or under the land, that significant harm is being caused, or that there is significant possibility of significant harm being caused, or that pollution of controlled waters is being or is likely to be caused'. Controlled waters are considered to include all groundwater, inland waters and estuaries.

In August 2006, the Contaminated Land (England) Regulations 2006 (SI 2006/1380) were implemented, which extended the statutory regime to include Part IIA of the EPA as originally introduced on 1 April 2000, together with changes intended chiefly to address land that is contaminated by virtue of radioactivity. These have been replaced subsequently by the Contaminated Land (England) (Amendment) Regulations 2012, which now exclude land that is contaminated by virtue of radioactivity.

The intention of Part IIA of the EPA is to deal with contaminated land issues that are considered to cause significant harm on land that is not undergoing development (see Environmental Protection Act 1990: Part 2A Contaminated Land Statutory Guidance, April 2012). This document replaces Annex III of Defra Circular 01/2006, published in September 2006 (the remainder of this document is now obsolete).

Water Framework Directive (WFD)

The Water Framework Directive 2000/60/EC is designed to:

- enhance the status and prevent further deterioration of aquatic ecosystems and associated wetlands that depend on the aquatic ecosystems
- promote the sustainable use of water
- reduce pollution of water, especially by 'priority' and 'priority hazardous' substances
- ensure progressive reduction of groundwater pollution.

The WFD requires a management plan for each river basin be developed every six years.

Groundwater Directive (GWD)

The 1980 Groundwater Directive 80/68/EEC and the 2006 Groundwater Daughter Directive 2006/118/EC of the WFD are the main European legislation in place to protect groundwater. The 1980 Directive is due to be repealed in December 2013. The European legislation has been transposed into national legislation by regulations and directions to the Environment Agency.

Environmental Permitting Regulations (EPR)

The Environmental Permitting (England and Wales) Regulations 2010 provide a single regulatory framework that streamlines and integrates waste management licensing, pollution prevention and control, water discharge consenting, groundwater authorisations, and radioactive substances regulation. Schedule 22, paragraph 6 of EPR 2010 states: 'the regulator must, in exercising its relevant functions, take all necessary measures - (a) to prevent the input of any hazardous substance to groundwater; and (b) to limit the input of non-hazardous pollutants to groundwater so as to ensure that such inputs do not cause pollution of groundwater.'

Water Resources Act (WRA)

The Water Resources Act 1991 (Amendment) (England and Wales) Regulations 2009 updated the Water Resources Act 1991, which introduced the offence of causing or knowingly permitting pollution of controlled waters. The Act provides the Environment Agency with powers to implement remediation necessary to protect controlled waters and recover all reasonable costs of doing so.

Priority Substances Directive (PSD)

The Priority Substances Directive 2008/105/EC is a 'Daughter' Directive of the WFD, which sets out a priority list of substances posing a threat to or via the aquatic environment. The PSD establishes environmental quality standards for priority substances, which have been set at concentrations that are safe for the aquatic environment and for human health. In addition, there is a further aim of reducing (or eliminating) pollution of surface water (rivers, lakes, estuaries and coastal waters) by pollutants on the list. The WFD requires that countries establish a list of dangerous substances that are being discharged and EQS for them. In England and Wales, this list is provided in the River Basin Districts Typology, Standards and Groundwater threshold values (Water Framework Directive) (England and Wales) Directions 2010. In order to achieve the objectives of the WFD, classification schemes are used to describe where the water environment is of good quality and where it may require improvement.

Planning Policy

Contaminated land is often dealt with through planning because of land redevelopment. This approach was documented in Planning Policy Statement: Planning and Pollution Control PPS23, which states that it remains the responsibility of the landowner and developer to identify land affected by contamination and carry out sufficient remediation to render the land suitable for use.

PPS23 was withdrawn early in 2012 and has been replaced by much reduced guidance within the National Planning Policy Framework (NPPF).

The new framework has only limited guidance on contaminated land, as follows:

- *"planning policies and decisions should also ensure that:*
    - *the site is suitable for its new use taking account of ground conditions and land instability, including from natural hazards or former activities such as mining, pollution arising from previous uses and any proposals for mitigation including land remediation or impacts on the natural environment arising from that remediation;*
    - *after remediation, as a minimum, land should not be capable of being determined as contaminated land under Part IIA of the Environmental Protection Act 1990; and*
    - *adequate site investigation information, prepared by a competent person, is presented".*

APPENDIX B
WALKOVER PHOTOGRAPHS

PHOTOGRAPHIC LOG

Photo No.	**Date:**
1	17/8/2018

Direction Photo Taken:

North

Description:

General overview of the agricultural fields in the western part of the site.



Photo No.	**Date:**
2	17/8/2018

Direction Photo Taken:

West

Description:

Residential properties to the immediate west of the site.



Photo No.	Date:	
3	17/8/2018	
Direction Photo Taken: North		
Description: Residential properties to the immediate north of the site.		

Photo No.	Date:	
4	17/8/2018	
Direction Photo Taken: South		
Description: Agricultural fields and commercial development to the south of the western part of the site.		

Photo No.	Date	
5	17/8/2018	
Direction Photo Taken: North East		
Description: View of fields to the immediate north east of the site		

Photo No.	Date:	
6	17/8/2018	
Direction Photo Taken: West		
Description: Drainage from commercial units to the west of the site into a dried out pond		

Photo No.	Date:	
7	17/8/2018	
Direction Photo Taken: West		
Description: Dried out pond in central part of the site.		

Photo No.	Date:	
8	17/8/2018	
Direction Photo Taken: South West		
Description: Access route onto site from Shortwood Way		

Photo No.	Date:	
9	17/8/2018	
Direction Photo Taken: West		
Description: Overview of the site from the eastern boundary		

Photo No.	Date:	
10	17/8/2018	
Direction Photo Taken: South east		
Description: Area of dense vegetation in the south eastern corner of the site.		

Photo No.	Date:	
11	17/8/2018	
Direction Photo Taken: North west		
Description: General overview of the site looking to the north west.		

Photo No.	Date:	
12	17/8/2018	
Direction Photo Taken: North		
Description: General overview of the site looking to the north.		

Photo No.	Date:	
13	17/8/2018	
Direction Photo Taken: South west		
Description: Access track through central part of the site.		



APPENDIX C
ENVIRONMENTAL DATABASE REPORT

Envirocheck® Report:

Datasheet

Order Details:

Order Number:
182024082_1_1

Customer Reference:
322494

National Grid Reference:
434950, 401150

Slice:
A

Site Area (Ha):
18.59

Search Buffer (m):
1000

Site Details:

K F C, Unit 1A
Kestrel Way
Birdwell
BARNSLEY
S70 5SZ

Client Details:

Miss E Roberts
RSK Environment Ltd
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR

Contents

Report Section	Page Number
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Agency & Hydrological	1
Waste	35
Hazardous Substances	-
Geological	39
Industrial Land Use	47
Sensitive Land Use	54
Data Currency	55
Data Suppliers	59
Useful Contacts	60

Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Contents

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 5	1	4	15	23
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 15			3	4
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 16	Yes			
Pollution Incidents to Controlled Waters	pg 16		4	4	2
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 18		1		1
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 18				1
Water Abstractions	pg 19				(*18)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 23	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 23	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				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 24	12	30	19	32

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites	pg 35		1	2	
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 35			1	1
Local Authority Landfill Coverage	pg 36	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 36		1	3	
Registered Landfill Sites	pg 37			2	
Registered Waste Transfer Sites	pg 37			1	
Registered Waste Treatment or Disposal Sites	pg 38			1	
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 39	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 39	5	9	7	10
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 44	Yes	n/a	n/a	n/a
Mining Instability	pg 44	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 44	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 44	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 44	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 45	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 46	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 47		16	25	31
Fuel Station Entries	pg 53		1		4
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 54		1		3
Areas of Adopted Green Belt	pg 54	1			
Areas of Unadopted Green Belt	pg 54			1	
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	pg 54	1			
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	A12SW (NE)	0	1	435350 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7NE (W)	0	1	434900 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (E)	0	1	435200 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (E)	0	1	435450 401300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (E)	0	1	435000 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (E)	0	1	435250 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	0	1	435250 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SE)	0	1	435250 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (E)	0	1	435350 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SW (W)	0	1	434800 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (E)	0	1	435350 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (N)	0	1	434948 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (S)	0	1	434948 400950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (E)	0	1	435100 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (E)	0	1	435200 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (S)	0	1	435000 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SE)	0	1	434950 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (E)	0	1	435000 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (E)	0	1	435500 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (E)	0	1	435550 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (S)	0	1	434948 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (N)	0	1	434950 401300

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	A12SW (NE)	3	1	435350 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (E)	19	1	435500 400950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (E)	19	1	435650 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SW (NE)	21	1	435300 401300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	32	1	435100 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (E)	36	1	435200 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (E)	36	1	435500 401050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NW (SW)	52	1	434800 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (E)	69	1	435650 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (NE)	82	1	435150 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (N)	114	1	435000 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (E)	115	1	435650 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (S)	120	1	434900 400800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (E)	120	1	435700 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	138	1	435350 400800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (N)	143	1	435050 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11SE (NE)	157	1	435100 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (S)	170	1	435050 400800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (NE)	181	1	435250 401550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (S)	186	1	435050 400750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (NE)	196	1	435550 401600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	197	1	435650 401550

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	A8NE (E)	219	1	435850 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A7SE (S)	220	1	434948 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (E)	222	1	435800 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	228	1	435300 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (S)	234	1	435050 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	234	1	435350 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (NE)	253	1	435300 401650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	254	1	434950 401600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (E)	269	1	435750 400950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	269	1	435150 401650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	273	1	435450 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	278	1	435300 400650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (NE)	295	1	435550 401700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NW (NE)	298	1	435400 401700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	298	1	435550 400750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	319	1	435800 401550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	319	1	435950 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	328	1	435300 400600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SW (SE)	328	1	435250 400600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	333	1	435900 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	335	1	435550 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	347	1	435700 401700

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	A8NE (E)	348	1	435750 400850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	354	1	435600 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	358	1	435900 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	374	1	435550 400650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A10SE (W)	374	1	434450 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SW (SE)	378	1	435250 400550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	382	1	435900 401500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	390	1	435700 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7SE (S)	392	1	435150 400550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	398	1	435000 401800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	399	1	436000 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	402	1	435950 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	404	1	434950 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	416	1	435750 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(E)	419	1	436050 401154
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8SE (SE)	435	1	435700 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SE (NE)	451	1	435600 401850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A11NE (N)	457	1	434900 401800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SE (SE)	457	1	435800 400750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12NE (NE)	458	1	435750 401800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A16SE (NE)	463	1	435650 401850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8SE (SE)	466	1	435750 400700

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	(E)	489	1	436050 401450
1	**Discharge Consents** Operator: British Coal Corporation Property Type: Undefined Or Other Location: Rockingham Pumping Station Upper Hoyland, Birdwell, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3703 Permit Version: 1 Effective Date: 6th June 1983 Issued Date: 6th June 1983 Revocation Date: 9th June 1983 Discharge Type: Trade Effluent Discharge Environment: Not Supplied Receiving Water: Not Supplied **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A12SW (E)	0	2	435300 401200
2	**Discharge Consents** Operator: Uk Coal Mining Limited Property Type: MINING OF COAL + LIGNITE Location: Rockingham Occs, Sheffield Road, Birdwell, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wa 6019 Permit Version: 2 Effective Date: 5th November 1990 Issued Date: 5th November 1990 Revocation Date: 4th June 1996 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6)** Positional Accuracy: Located by supplier to within 10m	A12SW (NE)	119	2	435300 401460
2	**Discharge Consents** Operator: Uk Coal Mining Limited Property Type: MINING OF COAL + LIGNITE Location: Rockingham Occs, Sheffield Road, Birdwell, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wa 6019 Permit Version: 1 Effective Date: 14th May 1990 Issued Date: 14th May 1990 Revocation Date: 4th November 1990 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 100m	A12SW (NE)	119	2	435300 401460
2	**Discharge Consents** Operator: British Coal Opencast Property Type: MINING OF COAL + LIGNITE Location: Rockingham Occs, Sheffield Road, Birdwell, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wa 6018 Permit Version: 1 Effective Date: 14th May 1990 Issued Date: 14th May 1990 Revocation Date: 30th August 1995 Discharge Type: Trade Effluent Discharge Environment: Freshwater Stream/River Receiving Water: Not Supplied **Status: Consent revoked: Discharge ceased (Water Resources Act 1991, Schedule 10 & 6)** Positional Accuracy: Located by supplier to within 10m	A12SW (NE)	119	2	435300 401460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**Discharge Consents** Operator: Susan Robinson Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 6 Wentworth Cottages, Hay Green Lane, Birdwell, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4121 Permit Version: 1 Effective Date: 24th January 1986 Issued Date: 24th January 1986 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A12NW (NE)	223	2	435300 401600
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Worsbrough Bridge, Westfields, WORSBROUGH Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/13 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	304	2	434505 401295
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Worsbrough Dale, Bank End Avenue, WORSBROUGH Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/13 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	305	2	434505 401300
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Worsbrough Dale, West Street, WORSBROUGH Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/13 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	307	2	434505 401305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Blacker Lane, Blacker Hill, WORSBROUGH Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/13 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	309	2	434500 401295
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Not Given Location: Greenspring Avenue, Birdwell, WORSBROUGH Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/13 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: Not Supplied Revocation Date: Not Supplied Discharge Type: Storm /emergency overflow Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	310	2	434500 401300
4	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewerage Network - Sewers Location: Greenspring Avenue, BIRDWELL Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: S/UD/13 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 9th January 1963 Revocation Date: Not Supplied Discharge Type: Sewage Effluent Discharge-Storm Effluent Discharge Environment: Unknown Receiving Water: Not Supplied **Status: Not Supplied** Positional Accuracy: Located by supplier to within 100m	A10SE (W)	312	2	434500 401305
5	**Discharge Consents** Operator: Gb Truck Services Property Type: Undefined Or Other Location: Cross Key Lane Works, Hoyland Common, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7281 Permit Version: 1 Effective Date: 28th January 1997 Issued Date: 28th January 1997 Revocation Date: 28th October 2015 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dyke **Status: Authorisation revoked** Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	328	2	435300 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	**Discharge Consents** Operator: Gb Truck Services Property Type: Undefined Or Other Location: Cross Key Lane Works, Hoyland Common, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5082 Permit Version: 2 Effective Date: 21st June 1994 Issued Date: 21st June 1994 Revocation Date: 1st October 1996 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Shortbridge Dyke **Status: Lapsed (under Environment Act 1995, Schedule 23)** Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	328	2	435300 400600
5	**Discharge Consents** Operator: Gb Truck Services Property Type: Undefined Or Other Location: Cross Key Lane Works, Hoyland Common, Barnsley Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5082 Permit Version: 1 Effective Date: 13th May 1988 Issued Date: 13th May 1988 Revocation Date: 20th June 1994 Discharge Type: Trade Discharges - Site Drainage (Contaminated Surface Water, Not Waste Sites) Discharge Environment: Freshwater Stream/River Receiving Water: Trib Of Shortbridge Dyke **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A8SW (SE)	328	2	435300 400600
6	**Discharge Consents** Operator: Wortley Construction Limited Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Birdwell Sewage Pumping Station, Plover Drive, Yorkshire Water Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4953 Permit Version: 1 Effective Date: 29th January 1988 Issued Date: 29th January 1988 Revocation Date: 12th March 2001 Discharge Type: Sewage Discharges - Pumping Station - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Culverted Trib Short Wood Dike **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A11NW (N)	385	2	434800 401700
7	**Discharge Consents** Operator: G.B. Truck Services Ltd Property Type: WAREHOUSING + SUPPORT ACTIVITIES FOR TRANSPORTATION Location: G.B. Trucks Services Ltd Cross Keys Works, Cross Keys Lane, Hoyland Land, Barnsley, S74 0qa Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/P/1181 Permit Version: 1 Effective Date: 19th May 1963 Issued Date: 19th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Not Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **Status: Undetermined 1961 Application** Positional Accuracy: Located by supplier to within 10m	A8SW (SE)	388	2	435272 400542

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Birdwell Sewage Pumping Station, Plover Drive, Yorkshire Water Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C4953 Permit Version: 2 Effective Date: 13th March 2001 Issued Date: 13th March 2001 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Culverted Trib Short Wood Dike **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A11NE (N)	430	2	434880 401770
9	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Tinker Lane Sewage Pumping Stn Tinker Lane, Wombwell, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7784 Permit Version: 2 Effective Date: 18th March 2003 Issued Date: 18th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	473	2	435610 400570
9	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Tinker Lane Sewage Pumping Stn Tinker Lane, Wombwell, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7784 Permit Version: 2 Effective Date: 18th March 2003 Issued Date: 18th March 2003 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **Status:** **Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	473	2	435610 400570
9	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Tinker Lane Sewage Pumping Stn Tinker Lane, Wombwell, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7784 Permit Version: 1 Effective Date: 26th February 2002 Issued Date: 26th February 2002 Revocation Date: 17th March 2003 Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Short Wood Dike **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	A8SE (SE)	473	2	435610 400570

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Green Spring Avenue Cso Opp 19 Green Spring Avenue, Birdwell, Barnsley, South Yorkshire, S70 5sd Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5340 Permit Version: 2 Effective Date: 28th March 2003 Issued Date: 28th March 2003 Revocation Date: 30th March 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Short Wood Dike **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A15SW (N)	540	2	434870 401880
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Green Spring Avenue Cso Opp 19 Green Spring Avenue, Birdwell, Barnsley, South Yorkshire, S70 5sd Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5340 Permit Version: 1 Effective Date: 30th August 1988 Issued Date: 30th August 1988 Revocation Date: 27th March 2003 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Short Wood Dike **Status: Transferred from COPA 1974** Positional Accuracy: Located by supplier to within 100m	A15SW (N)	540	2	434870 401880
10	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Green Spring Avenue Cso Opp 19 Green Spring Avenue, Birdwell, Barnsley, South Yorkshire, S70 5sd Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5340 Permit Version: 3 Effective Date: 31st March 2018 Issued Date: 21st February 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Tributary Of Short Wood Dike **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A15SW (N)	543	2	434875 401884
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Tankersley Stw, Nr Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698 (Ss) Permit Version: 1 Effective Date: 7th November 1989 Issued Date: 7th November 1989 Revocation Date: 31st March 1991 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	588	2	434300 400800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Tankersley Stw, Nr Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698 (Ss) Permit Version: 1 Effective Date: 7th November 1989 Issued Date: 7th November 1989 Revocation Date: 31st March 1991 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	588	2	434300 400800
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Tankersley Stw, Nr Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698 (Ss) Permit Version: 3 Effective Date: 1st April 1992 Issued Date: 7th November 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	588	2	434300 400800
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: Sewage Disposal Works - Water Company Location: Tankersley Stw, Nr Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698 (Ss) Permit Version: 3 Effective Date: 1st April 1992 Issued Date: 7th November 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Transferred from Water Act 1989** Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	588	2	434300 400800
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 1 Effective Date: 16th November 1981 Issued Date: 16th November 1981 Revocation Date: 23rd March 2004 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Ditch Receiving Water: Birdwell Dyke **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A6SE (SW)	588	2	434300 400800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 3 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 26th March 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	617	2	434271 400793
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 3 Effective Date: 1st April 2009 Issued Date: 14th October 2008 Revocation Date: 26th March 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Modified (Water Resources Act 1991, Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	617	2	434271 400793
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 4 Effective Date: 27th March 2018 Issued Date: 27th March 2018 Revocation Date: 31st March 2018 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	620	2	434269 400791
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 6 Effective Date: 31st March 2020 Issued Date: 27th March 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	620	2	434269 400791

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 4 Effective Date: 27th March 2018 Issued Date: 27th March 2018 Revocation Date: 31st March 2018 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	620	2	434269 400791
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 5 Effective Date: 1st April 2018 Issued Date: 27th March 2018 Revocation Date: 30th March 2020 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	620	2	434269 400791
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 5 Effective Date: 1st April 2018 Issued Date: 27th March 2018 Revocation Date: 30th March 2020 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	620	2	434269 400791
11	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Tankersley Sewage Treatment Works Lidgett Lane, Tankersley, Barnsley, South Yorkshire, S75 3bs Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E698(Ss) Permit Version: 6 Effective Date: 31st March 2020 Issued Date: 27th March 2018 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dyke **Status: Varied under EPR 2010** Positional Accuracy: Located by supplier to within 10m	A6SE (SW)	620	2	434269 400791

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Shortwood Stw Shortwood, Near Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2471 Permit Version: 3 Effective Date: 1st October 1985 Issued Date: 1st October 1985 Revocation Date: 9th March 2006 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shortwood Dyke **Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995)** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	599	2	435600 402000
12	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Shortwood Stw Shortwood, Near Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2471 Permit Version: 2 Effective Date: 1st June 1981 Issued Date: 1st June 1981 Revocation Date: 30th September 1985 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shortwood Dyke **Status: Transferred from 1978 Order** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	599	2	435600 402000
12	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Shortwood Stw Shortwood, Near Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2471 Permit Version: 2 Effective Date: 1st June 1981 Issued Date: 1st June 1981 Revocation Date: 30th September 1985 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shortwood Dyke **Status: Transferred from 1978 Order** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	599	2	435600 402000
12	**Discharge Consents** Operator: Hoyland Nether Urban District Council Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Shortwood Stw Shortwood, Near Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2471 Permit Version: 1 Effective Date: 10th February 1969 Issued Date: 10th February 1969 Revocation Date: 31st May 1981 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shortwood Dyke **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	599	2	435600 402000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**Discharge Consents** Operator: Hoyland Nether Urban District Council Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Shortwood Stw Shortwood, Near Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 2471 Permit Version: 1 Effective Date: 10th February 1969 Issued Date: 10th February 1969 Revocation Date: 31st May 1981 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Shortwood Dyke **Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961** Positional Accuracy: Located by supplier to within 100m	A16SE (NE)	599	2	435600 402000
13	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Cock Inn Sewage Pumping Stn End Of Chapel Street, Worsborough, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7785 Permit Version: 1 Effective Date: 26th February 2002 Issued Date: 26th February 2002 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Pumping Station - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Warren Dyke **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	A6NW (W)	640	2	434200 400940
14	**Discharge Consents** Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Woodbine Cottages New Road/Lidget Lane (End Of), Tankersley, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7987 Permit Version: 1 Effective Date: 31st March 2004 Issued Date: 3rd February 2004 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge Environment: Freshwater Stream/River Receiving Water: Birdwell Dike **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	A2NE (SW)	756	2	434430 400330
15	**Local Authority Pollution Prevention and Controls** Name: Hartwood Exports (Machinery) Ltd Location: Hangmanstone Depot, Sheffield Road, Birdwell, BARNSLEY, South Yorkshire, S70 5TR Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/14 Dated: 20th January 1998 Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input **Status: Authorisation certificate surrendered by operator** Positional Accuracy: Automatically positioned to the address	A7SW (S)	380	3	434716 400589
16	**Local Authority Pollution Prevention and Controls** Name: G B Trucks Ltd Location: Cross Keys Works, Cross Keys Lane, Hoyland, Barnsley, South Yorkshire, S74 0QA Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/40 Dated: 14th July 1995 Process Type: Local Authority Pollution Prevention and Control Description: PG6/34 Respraying of road vehicles **Status: Permitted** Positional Accuracy: Automatically positioned to the address	A8SW (SE)	388	3	435272 400542

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
17	**Local Authority Pollution Prevention and Controls** Name: Jay Cleaners Location: 1a Worsborough Road, Birdwell, Barnsley, S70 5qr Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: ppc/b/82 Dated: 22nd August 2007 Process Type: Local Authority Pollution Prevention and Control Description: PG6/46 Dry cleaning **Status: Permitted** Positional Accuracy: Located by supplier to within 10m	A11NW (NW)	440	3	434580 401643
18	**Local Authority Pollution Prevention and Controls** Name: Cross Keys (Barnsley) Garage Location: Sheffield Road, Hoyland, BARNSLEY, South Yorkshire, S74 0PY Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/105 Dated: 12th May 1999 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A4NW (SE)	536	3	435343 400394
19	**Local Authority Pollution Prevention and Controls** Name: British Coal Corporation Location: Sheffield Road, Hoyland, Barnsley, S74 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Not Supplied Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes **Status: Authorisation revoked** Positional Accuracy: Manually positioned to the road within the address or location	A3NE (S)	546	3	435201 400392
20	**Local Authority Pollution Prevention and Controls** Name: Hilltop Service Station Location: Sheffield Road, Birdwell, BARNSLEY, South Yorkshire, S70 5XB Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/89 Dated: 25th January 2002 Process Type: Local Authority Air Pollution Control Description: PG1/14 Petrol filling station **Status: Authorised** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	624	3	434478 401797
21	**Local Authority Pollution Prevention and Controls** Name: Hoyland Common Service Station Location: Sheffield Road, Hoyland Common, BARNSLEY, S74 0DP Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/51 Dated: 12th May 1999 Process Type: Local Authority Pollution Prevention and Control Description: PG1/14 Petrol filling station **Status: Permitted** Positional Accuracy: Manually positioned to the address or location	A4SE (SE)	925	3	435586 400049
	Nearest Surface Water Feature	A7NE (SW)	0	-	434883 401055
22	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Markers Bridge B6273, /Darfld A635 Dearne 08 Authority: Environment Agency, North East Region Pollutant: Not Given Note: Not Supplied Incident Date: 11th December 1992 Incident Reference: 139886 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 (SE)	28	2	435300 400900

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
23	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Shortwood Works Authority: Environment Agency, North East Region Pollutant: Sewage - Septic Tank Effluent Note: Blacker Dyke; Fish Killed: No Information Incident Date: 24th September 1998 Incident Reference: SH980412 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A12SW (NE)	143	2	435300 401500
24	**Pollution Incidents to Controlled Waters** Property Type: Industrial: Other Location: Chapman Drums, Rockingham Row, Birdwell, BARNSLEY Authority: Environment Agency, North East Region Pollutant: Chemicals - Solvents Note: Pollution Found; No Fish Killed Incident Date: 4th November 1996 Incident Reference: SH960475 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (S)	196	2	435001 400751
25	**Pollution Incidents to Controlled Waters** Property Type: Chemical industry Location: Rockingham Business Park, BIRDWELL Authority: Environment Agency, North East Region Pollutant: Chemicals - Unknown Note: Pollution Found; Fish Killed: No Information Incident Date: 4th July 1996 Incident Reference: SH960338 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SE (S)	220	2	434900 400700
26	**Pollution Incidents to Controlled Waters** Property Type: Farm Location: Netherwood Brdg/Aldham A633 Dove(S) 03 Authority: Environment Agency, North East Region Pollutant: Agricultural: Yard Run Off (Dirty Water) Note: Not Supplied Incident Date: 15th March 1993 Incident Reference: 145168 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	A7SE (S)	320	2	434900 400600
27	**Pollution Incidents to Controlled Waters** Property Type: Industrial Premises Location: Darfield/Source Dove(S) Afu Authority: Environment Agency, North East Region Pollutant: Miscellaneous - Colour Note: Not Supplied Incident Date: 26th July 1993 Incident Reference: 147990 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	A7SE (S)	420	2	434900 400500
28	**Pollution Incidents to Controlled Waters** Property Type: Farm Location: Mouth/Source Wiske Af Authority: Environment Agency, North East Region Pollutant: Silage Liquor Note: Not Supplied Incident Date: 7th June 1993 Incident Reference: 145363 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	A8SW (SE)	428	2	435300 400500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
29	**Pollution Incidents to Controlled Waters** Property Type: Industrial: Other Location: Shortwood Dyke, ROCKINGHAM Authority: Environment Agency, North East Region Pollutant: Unknown Note: No Fish Killed Incident Date: 6th February 1995 Incident Reference: SH950184 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7SW (S)	432	2	434800 400500
30	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Sewage Treatment Works Location: Mouth/Source Wiske Af Authority: Environment Agency, North East Region Pollutant: Sewage - Treated Effluent Note: Not Supplied Incident Date: 2nd June 1992 Incident Reference: 133964 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	A4NW (SE)	565	2	435500 400400
31	**Pollution Incidents to Controlled Waters** Property Type: Water Company Sewage: Other Location: Pilley Lane, BIRDWELL Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Rockley Dike; Fish Killed: No Information Incident Date: 23rd July 1998 Incident Reference: SH980294 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A6NW (W)	633	2	434200 401000
	River Quality Name: Blacker_Dyke GQA Grade: River Quality C Reach: Rockingham_Colliery_River_Dov Estimated Distance (km): 2.9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A11SE (NE)	182	2	435161 401349
	River Quality Name: Warren_Dyke GQA Grade: River Quality D Reach: Lower_Pilley_Rockley_Dyk Estimated Distance (km): 2.4 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A6NE (W)	546	2	434294 400939
32	**Substantiated Pollution Incident Register** Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 18th July 2003 Incident Reference: 174964 Water Impact: Category 1 - Major Incident Air Impact: Category 3 - Minor Incident Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Crude Sewage	A6SE (SW)	649	2	434254 400757

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Mr H Brown Licence Number: 2/27/08/040 Permit Version: 100 Location: Well - Coal Measures - Worsborough 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): 1 Yearly Rate (m3): 303 Details: 3 Acres Farmland, Brownfield, Worsborough Village, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 27th January 1966 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1263	2	434800 402600
	Water Abstractions Operator: J B Hodgson Licence Number: 2/27/08/025 Permit Version: 100 Location: Dyke X4 - Worsborough Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 159 Yearly Rate (m3): 2728 Details: Rockley Abbey Farm, Worsborough Bridge, Barnsley Authorised Start: 01 May Authorised End: 30 September Permit Start Date: 14th December 1965 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A13SW (NW)	1518	2	433500 402000
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/143 Permit Version: 1 Location: Rockley Dike Authority: Environment Agency, North East Region Abstraction: Municipal grounds: General use relating to Secondary Category (Very Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th February 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1555	2	434400 402800
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 102 Location: Rockley Dike Authority: Environment Agency, North East Region Abstraction: Holiday Sites, Camp Sites & Tourist Attractions: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1555	2	434400 402800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 101 Location: Rockley Dike Authority: Environment Agency, North East Region Abstraction: Holiday sites, Camp Sites & Tourist Attractions: Lake & Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1555	2	434400 402800
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: Ne/027/0008/018 Permit Version: 1 Location: Rockley Dike Authority: Environment Agency, North East Region Abstraction: Municipal grounds: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1562	2	434416 402813
	Water Abstractions Operator: Worsbrough Bridge Sports & Development Association Licence Number: 2/27/08/129 Permit Version: 1 Location: Inland Water - River Dove Authority: Environment Agency, North East Region Abstraction: General Agriculture: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a river or stream reach, or a row of wellpoints Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsbrough Bridge Sports, Park Road, Worsbrough Bridge, Barnsley Authorised Start: 01 April Authorised End: 30 September Permit Start Date: 4th September 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1940	2	435000 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: Ne/027/0008/019 Permit Version: 1 Location: Worsborough Reservoir Authority: Environment Agency, North East Region Abstraction: Municipal grounds: 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: Not Supplied Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1955	2	434862 403299

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/143 Permit Version: 1 Location: Worsborough Mill Pond Authority: Environment Agency, North East Region Abstraction: Production Of Energy: Mechanical Non Electrical: Milling & Water Power Other Than Electricity Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th February 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1955	2	434900 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 102 Location: Worsborough Mill Pond Authority: Environment Agency, North East Region Abstraction: Production Of Energy: Mechanical Non Electrical: Milling & Water Power Other Than Electricity Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1955	2	434900 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 101 Location: Worsborough Mill Pond Authority: Environment Agency, North East Region Abstraction: Production Of Energy: Mechanical Non Electrical: Milling & Water Power Other Than Electricity Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1955	2	434900 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 100 Location: Worsborough Mill Pond Authority: Environment Agency, North East Region Abstraction: Production Of Energy: Mechanical Non Electrical: Milling & Water Power Other Than Electricity Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th July 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1955	2	434900 403300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/143 Permit Version: 1 Location: Worsborough Reservoir Authority: Environment Agency, North East Region Abstraction: Municipal grounds: General use relating to Secondary Category (Very Low Loss) Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 14th February 2008 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1960	2	434800 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 102 Location: Worsborough Reservoir Authority: Environment Agency, North East Region Abstraction: Holiday Sites, Camp Sites & Tourist Attractions: Make-Up or Top Up Water Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 1st August 2002 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1960	2	434800 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 101 Location: Worsborough Reservoir Authority: Environment Agency, North East Region Abstraction: Holiday sites, Camp Sites & Tourist Attractions: Lake & Pond Throughflow Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 24th November 2000 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	(N)	1960	2	434800 403300
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 100 Location: Worsborough Reservoir Authority: Environment Agency, North East Region Abstraction: Production Of Energy: Mechanical Non Electrical: Milling & Water Power Other Than Electricity Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 January Authorised End: 31 December Permit Start Date: 4th July 1997 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1960	2	434800 403300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/143/R01 Permit Version: 1 Location: Worsborough Mill Pond Authority: Environment Agency, North East Region Abstraction: Production Of Energy: Mechanical Non Electrical: Milling & Water Power Other Than Electricity Generation Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Worsborough Mill, Worsborough, Barnsley Authorised Start: 01 April Authorised End: 31 March Permit Start Date: 1st April 2017 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	(N)	1965	2	434947 403313
	Water Abstractions Operator: National Coal Board Licence Number: 2/27/08/066 Permit Version: Not Supplied Location: Location Description Not Available Authority: Environment Agency, North East Region Abstraction: General Industrial Abstraction Type: Not Supplied Source: Surface Daily Rate (m3): 1136 Yearly Rate (m3): 272760 Details: 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	(N)	1982	2	435270 403380
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A7NE (S)	0	2	434923 401058
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	A7NE (N)	0	2	434948 401154
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NE (N)	0	1	434948 401154
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A7NE (E)	0	1	435000 401154
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
33	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 266.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (S)	0	4	434945 401058
34	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.9 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (SE)	0	4	435140 401073
35	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 75.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (E)	0	4	435191 401092
36	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 267.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (E)	0	4	435224 401160
37	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 65.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (SW)	0	4	434883 401055
38	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 4.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (SW)	0	4	434883 401055
39	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 235.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (E)	0	4	435395 401013
40	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 64.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (E)	0	4	435407 401225
41	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 27.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (E)	0	4	435430 401209

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
42	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 116.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (E)	0	4	435459 401273
43	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 136.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (E)	0	4	435459 401225
44	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 153.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (E)	0	4	435469 401180
45	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 55.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	7	4	435338 401382
46	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 11.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (E)	8	4	435191 401092
47	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 158.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	10	4	435236 400995
48	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 37.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (E)	13	4	435156 401069
49	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 96.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7NE (E)	18	4	435190 401080
50	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 142.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (E)	48	4	435269 401249

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
51	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 34.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	50	4	435311 401360
52	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	50	4	435380 400930
53	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 175.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (E)	54	4	435452 400981
54	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	A8NE (E)	54	4	435586 401095
55	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 104.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NE (E)	54	4	435586 401095
56	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 320.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NE (E)	57	4	435669 401157
57	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 101.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	58	4	435373 400914
58	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	58	4	435373 400914
59	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 62.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	64	4	435228 400917

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
60	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 329.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	67	4	435332 400869
61	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 71.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	72	4	435260 401321
62	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 357.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NW (SE)	100	4	435429 400894
63	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	104	4	435286 401417
64	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 10.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	111	4	435275 401415
65	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 56.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	113	4	435258 401325
66	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 13.6 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	115	4	435270 401373
67	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 28.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	115	4	435273 401387
68	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 24.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SW (SE)	118	4	435288 400804

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
69	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 480.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A12SW (NE)	120	4	435302 401466
70	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 144.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7SE (SE)	126	4	435150 400759
71	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 117.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SW (SE)	145	4	435291 400783
72	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 88.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12NW (NE)	233	4	435530 401639
73	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 353.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NE (E)	237	4	435744 400965
74	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 325.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12NE (NE)	245	4	435559 401648
75	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 77.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12NW (NE)	251	4	435522 401682
76	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 133.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NE (E)	254	4	435654 400865
77	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 180.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A7SE (S)	260	4	435126 400716

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SW (SE)	298	4	435277 400631
79	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8NE (SE)	298	4	435665 400846
80	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 237.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12NW (NE)	312	4	435512 401719
81	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.3 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SW (SE)	363	4	435543 400658
82	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 43.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SE (SE)	382	4	435578 400663
83	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SE (SE)	409	4	435712 400742
84	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 60.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A11NE (N)	412	4	435167 401739
85	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 178.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SE (SE)	416	4	435715 400736
86	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A8SE (SE)	447	4	435605 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
87	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 63.7 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A11NE (N)	448	4	435190 401795
88	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 263.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A15SE (N)	466	4	435210 401855
89	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 120.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A11NE (N)	475	4	435018 401816
90	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SW (NE)	480	4	435429 401882
91	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 31.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SW (NE)	482	4	435430 401884
92	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 3.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A15SE (N)	493	4	435207 401856
93	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 15.3 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A15SE (N)	495	4	435192 401858
94	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 111.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A15SE (N)	502	4	435086 401873
95	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 114.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SW (NE)	506	4	435449 401909

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
96	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 32.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A16SW (NE)	520	4	435544 401926
97	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 29.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	A16SW (NE)	520	4	435544 401926
98	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 218.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A15SE (N)	533	4	435003 401877
99	**OS Water Network Lines** Watercourse Form: Lake Watercourse Length: 36.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	A16SE (NE)	536	4	435570 401940
100	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 61.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A16SE (NE)	548	4	435612 401946
101	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 19.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	A16SE (NE)	548	4	435612 401946
102	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 76.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SW (NE)	551	4	435541 401958
103	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 149.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SE (NE)	603	4	435595 402005
104	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 377.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A6SE (SW)	617	4	434266 400804

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
105	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 352.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Birdwell Dike Catchment Name: Don and Rother Primacy: 1	A6SE (SW)	631	4	434333 400622
106	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 57.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Birdwell Dike Catchment Name: Don and Rother Primacy: 1	A6SE (SW)	632	4	434316 400677
107	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 17.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A6NW (W)	664	4	434170 400990
108	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A6NW (W)	676	4	434156 401000
109	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 568.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A6NW (W)	685	4	434128 401070
110	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 6.7 Watercourse Level: Underground Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SE (NE)	695	4	435699 402077
111	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 313.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A16SE (NE)	699	4	435706 402079
112	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 52.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A3NW (S)	731	4	434596 400257
113	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 16.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A2NE (SW)	741	4	434448 400334

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
114	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A2NE (SW)	742	4	434453 400330
115	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 162.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Birdwell Dike Catchment Name: Don and Rother Primacy: 1	A2NE (SW)	743	4	434439 400339
116	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 110.1 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A2NE (SW)	744	4	434457 400324
117	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 1.4 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A2NE (SW)	744	4	434456 400325
118	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 219.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A10NW (NW)	876	4	434147 401807
119	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 228.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Birdwell Dike Catchment Name: Don and Rother Primacy: 1	A2NE (SW)	891	4	434306 400258
120	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 451.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A14SE (NW)	936	4	434302 402056
121	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 112.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9SE (W)	953	4	433861 401389
122	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9SE (W)	954	4	433861 401391

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
123	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A15NE (N)	962	4	435075 402307
124	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 159.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A9SE (W)	966	4	433863 401456
125	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 41.6 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A10NW (NW)	970	4	433955 401693

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
126	**Historical Landfill Sites** Licence Holder: Hartwood Exports Location: Adjoining premises of Hartwood Exports (Machinery) Limited, Sheffield Road, Birdwell, Barnsley Name: British Rail Railway Cutting Operator Location: Sheffield Road, Birdwell, Barnsley Boundary Accuracy: As Supplied Provider Reference: EAHLD04408 First Input Date: 31st May 1983 Last Input Date: 31st December 1989 Specified Waste Type: Deposited Waste included Inert and Commercial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0455 BGS Ref: Not Supplied Other Ref: WD20 B378, 4400/B378, 20B378(53), (36)B, 4400/(36), 4400/0439	A7SE (S)	227	2	434955 400700
127	**Historical Landfill Sites** Licence Holder: Hoyland Marshall Limited Location: Upper Hoyland Road, Hoyland, Barnsley Name: Shortwood Operator Location: Shortwood, Hoyland, Barnsley Boundary Accuracy: As Supplied Provider Reference: EAHLD04874 First Input Date: 31st December 1962 Last Input Date: 31st December 1990 Specified Waste Type: Deposited Waste included Inert and Industrial Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0424 BGS Ref: Not Supplied Other Ref: 20B76(21), 4400/B76, WD20 B76	A12NE (NE)	285	2	435685 401650
128	**Historical Landfill Sites** Licence Holder: B D R Waste Disposal Limited Location: Birdwell, Barnsley, South Yorkshire Name: Birdwell Common Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04406 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0555 BGS Ref: Not Supplied Other Ref: WD20 D928, 4400/(153)	A7SW (SW)	441	2	434593 400606
129	**Licensed Waste Management Facilities (Locations)** Licence Number: 60553 Location: Hangmanstone Depot, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TR Operator Name: Hartwood Estates Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Surrendered** Issued: 22nd November 1996 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: 16th February 2009 IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A7SW (S)	386	2	434720 400580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	**Licensed Waste Management Facilities (Locations)** Licence Number: 65291 Location: Lidget Garage, Sheffield Road, Hoyland Common, Barnsley, South Yorkshire, S74 0EB Operator Name: Richard Adrian Goodwin Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Physico-chemical Treatment Facilities **Licence Status: Expired** Issued: 5th April 2006 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 10m	A3NE (S)	617	2	434990 400309
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	3	434948 401154
131	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 53 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	A7SE (S)	231	3	434962 400697
132	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 21 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	A12NE (NE)	280	3	435714 401603
133	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 153 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	A7SW (SW)	332	3	434686 400668
134	**Local Authority Recorded Landfill Sites** Location: Not Supplied Reference: 36 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	A7SW (S)	436	3	434732 400519

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	**Registered Landfill Sites** Licence Holder: Hartwood Exports (Machinery) Licence Reference: WD20 B 378 Site Location: Railway Cutting At Sheffield Road, Birdwell, Barnsley, South Yorkshire Licence Easting: 434900 Licence Northing: 400600 Operator Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill - Railway cutting Max Input Rate: Very Large (Equal to or greater than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1983 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Clay,Subsoil,Topsoil Construction And Demolition Wastes Foundry Sand & Slag Hardcore Waste Ex Coal Processing Prohibited Waste: Asbestos Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	A7SE (S)	320	2	434900 400600
136	**Registered Landfill Sites** Licence Holder: G R Stein Refractories Ltd Licence Reference: WD20 B 76 Site Location: Marshall'S Hoyland Works, Shortwood, Hoyland, Barnsley, South Yorkshire, S74 9np Licence Easting: 435800 Licence Northing: 401650 Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st October 1979 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Empty Used Containers Fired Refactory Clay &Non Flam.Tailing Ind. Non-Haz. Inert, Non-Flammable Prohibited Waste: Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.	A12NE (NE)	375	2	435800 401650
137	**Registered Waste Transfer Sites** Licence Holder: Deborah Tornese Licence Reference: WD20 B1036 Site Location: Unit 12 Rockingham Road, Birdwell, BARNSLEY, South Yorkshire, S70 5TU Operator Location: 12 Cranemoor Nook, Cranemoor, Wortley, Sheffield, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Site exempt from licenceExempt Dated: 1st December 1993 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Empty Used Containers Max.Storage In Licence Prohibited Waste: Waste N.O.S.	A7SE (S)	252	2	434930 400670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
138	**Registered Waste Treatment or Disposal Sites** Licence Holder: Hartwood Exports (Machinery) Ltd Licence Reference: WD20 B1120 MOD 2 Site Location: Hangmanstone Depot, Sheffield Road, Birdwell, BARNSLEY, South Yorkshire, S70 5TR Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Scrapyard Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source Restrictions: No known restriction on source of waste Licence Status: Operational as far as is knownOperational Dated: 22nd November 1996 Preceded By Licence: Not Given Superseded By Licence: Not Given Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied Authorised Waste: Max.Waste Permitted By Licence Scrap Motor Vehicles Max.Stor Scrap Tyres Max.Stor Prohibited Waste: Liquid Wastes Waste N.O.S.	A7SW (S)	386	2	434720 400580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	A7NE (N)	0	1	434948 401154
139	**BGS Recorded Mineral Sites** Site Name: Hay Green Occs Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204804 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A7NW (W)	0	1	434843 401145
140	**BGS Recorded Mineral Sites** Site Name: Rockingham Colliery, No. 2 Shaft Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204821 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (E)	0	1	435305 401036
140	**BGS Recorded Mineral Sites** Site Name: Rockingham Colliery, No. 1 Shaft Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 13310 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (SE)	0	1	435276 401002
141	**BGS Recorded Mineral Sites** Site Name: Rockingham Colliery, Swallow Wood Drift Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204822 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A8NW (E)	0	1	435333 401106
142	**BGS Recorded Mineral Sites** Site Name: Singleton Wood Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 38055 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A8NW (E)	0	1	435447 401114

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
143	**BGS Recorded Mineral Sites** Site Name: Rockingham Occs Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 201 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A7NE (SE)	63	1	435059 400932
144	**BGS Recorded Mineral Sites** Site Name: High Royd Brick Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 108221 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (E)	87	1	435645 401350
145	**BGS Recorded Mineral Sites** Site Name: Hay Green Coal Workings Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204803 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A11SW (W)	112	1	434690 401244
146	**BGS Recorded Mineral Sites** Site Name: High Royd Brick Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 13309 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (NE)	164	1	435655 401490
147	**BGS Recorded Mineral Sites** Site Name: Hay Green Lane Quarries Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204798 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A11SW (NW)	193	1	434725 401439
147	**BGS Recorded Mineral Sites** Site Name: Hay Green Lane Quarries Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204799 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A11SW (NW)	216	1	434732 401478

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	**BGS Recorded Mineral Sites** Site Name: Hay Green Lane Quarries Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204801 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A11NW (N)	200	1	434838 401515
149	**BGS Recorded Mineral Sites** Site Name: Hay Green Lane Quarries Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204800 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A11NW (NW)	227	1	434781 401521
150	**BGS Recorded Mineral Sites** Site Name: Hay Royd Colliery Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 38049 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NE)	227	1	435652 401587
150	**BGS Recorded Mineral Sites** Site Name: Hay Royd Colliery Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204792 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NE (NE)	269	1	435681 401618
151	**BGS Recorded Mineral Sites** Site Name: Hay Green Lane Coal Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204794 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A11SW (NW)	279	1	434592 401404
152	**BGS Recorded Mineral Sites** Site Name: Hay Royd Brick Works Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204791 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A12SE (E)	284	1	435810 401460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	**BGS Recorded Mineral Sites** Site Name: Hoyland Common Occs Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 235898 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A8NE (E)	314	1	435695 400850
154	**BGS Recorded Mineral Sites** Site Name: Bird Well Common Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 38056 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A6NE (SW)	392	1	434498 400845
155	**BGS Recorded Mineral Sites** Site Name: Birdwell Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 13311 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A7SW (SW)	406	1	434660 400595
156	**BGS Recorded Mineral Sites** Site Name: Hay Royd Colliery Air Pit Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204793 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A12NW (NE)	418	1	435350 401817
157	**BGS Recorded Mineral Sites** Site Name: Knoll Drift Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204805 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Flockton Thick Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NW (S)	525	1	434871 400396
157	**BGS Recorded Mineral Sites** Site Name: Knoll Drift Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204806 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Flockton Thick Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A3NE (S)	526	1	434912 400394

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
158	**BGS Recorded Mineral Sites** Site Name: Hoyland Common Occs Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 235897 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A8SE (SE)	542	1	435790 400635
159	**BGS Recorded Mineral Sites** Site Name: Wigfield Occs Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204802 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Surface Mined Positional Accuracy: Located by supplier to within 10m	A10NE (NW)	643	1	434270 401579
160	**BGS Recorded Mineral Sites** Site Name: Birdwell Lodge Coal Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204796 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Lidget Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A6NW (W)	668	1	434194 400850
161	**BGS Recorded Mineral Sites** Site Name: Birdwell Lodge Coal Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 108286 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Lidget Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A6NW (W)	718	1	434114 400993
162	**BGS Recorded Mineral Sites** Site Name: Birdwell Lodge Coal Mine Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204797 Type: Underground **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Lidget Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A6NW (W)	732	1	434131 400837
163	**BGS Recorded Mineral Sites** Site Name: Birdwell Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 38045 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A14SE (NW)	841	1	434285 401916

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	**BGS Recorded Mineral Sites** Site Name: Birdwell Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 38044 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A10NW (NW)	871	1	434010 401585
165	**BGS Recorded Mineral Sites** Site Name: Lidget Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 38057 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A2NE (SW)	920	1	434226 400296
	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.	A7NE (N)	0	5	434948 401154
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A7NE (N)	0	-	434948 401154
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	0	1	435000 400968
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	0	1	435016 400978
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	0	1	435058 401010
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	1	434925 401126
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	0	1	435558 401242

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A8NE (E)	217	1	435654 400941
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	231	1	435792 401383
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SW (NE)	18	1	435223 401372
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12NE (NE)	216	1	435592 401624
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (S)	0	1	435000 400968
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	0	1	435058 401010
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	1	434925 401126
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	74	1	435682 401275
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7SE (SE)	190	1	435162 400799
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	231	1	435792 401383
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	435000 401362
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SW (E)	0	1	435439 401325
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A12SW (NE)	0	1	435457 401388
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	0	1	435000 401434

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SW)	0	1	434925 401126
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A7NE (SE)	0	1	435000 401062
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12SE (E)	13	1	435634 401246
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11SE (N)	18	1	434956 401364
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7NW (SW)	71	1	434771 400990
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A7SE (S)	138	1	435007 400817
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A11NE (NE)	226	1	435184 401538
	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	A7NE (SW)	0	1	434900 401051
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A7NE (N)	0	1	434948 401154
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A7NE (E)	0	1	435000 401154
	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	A7NE (SW)	0	1	434900 401051
	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	A7NE (N)	0	1	434948 401154
	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	A7NE (E)	0	1	435000 401154

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
166	**Contemporary Trade Directory Entries** Name: Prodisplay Location: Unit 5, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, South Yorkshire, S74 9LH Classification: Screen Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (E)	36	-	435645 401247
166	**Contemporary Trade Directory Entries** Name: Talurit Uk Location: Unit 4, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, S74 9LH Classification: Cutting Tools & Machinery **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (E)	68	-	435665 401277
166	**Contemporary Trade Directory Entries** Name: Talurit Location: Unit 4,Shortwood Ct,Shortwood Business Pk, Hoyland, Barnsley, South Yorkshire, S74 9LH Classification: Engineering Services **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SE (E)	72	-	435666 401282
167	**Contemporary Trade Directory Entries** Name: Oracle Precision Ltd Location: Unit 7a, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, S74 9LH Classification: Precision Engineers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (E)	58	-	435599 401372
167	**Contemporary Trade Directory Entries** Name: Remora Ltd Location: Unit 8a, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, South Yorkshire, S74 9LH Classification: Cable & Wire Equipment Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SE (NE)	67	-	435584 401420
168	**Contemporary Trade Directory Entries** Name: Elite Car Co Location: Unit 6a, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, South Yorkshire, S74 9LH Classification: Car Dealers - Used **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A12SE (E)	85	-	435654 401330
169	**Contemporary Trade Directory Entries** Name: Barber Of Sheffield Location: Unit 25-26, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, S74 9LH Classification: Veterinary Pharmacies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A12SE (E)	114	-	435637 401421
170	**Contemporary Trade Directory Entries** Name: Bretton Telecom Location: 51, Hay Green Lane, Birdwell, Barnsley, South Yorkshire, S70 5XA Classification: Telecommunications Equipment & Systems **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (NW)	121	-	434799 401410
171	**Contemporary Trade Directory Entries** Name: Imperial Damp Proofing Location: 30, Herons Way, Birdwell, Barnsley, South Yorkshire, S70 5SF Classification: Damp & Dry Rot Control **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NE (N)	202	-	434884 401537
172	**Contemporary Trade Directory Entries** Name: Central Garage Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TA Classification: Car Body Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (W)	203	-	434598 401175
172	**Contemporary Trade Directory Entries** Name: Hilltop Garage Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TA Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11SW (W)	203	-	434598 401175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
172	**Contemporary Trade Directory Entries** Name: The Prestige Bodyshop Location: 113, Sheffield Road, Birdwell, Barnsley, S70 5TA Classification: Car Body Repairs **Status: Active** Positional Accuracy: Automatically positioned to the address	A11SW (W)	207	-	434591 401214
173	**Contemporary Trade Directory Entries** Name: Monarch Indexing Location: Unit 2a, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, South Yorkshire, S74 9LH Classification: Print Finishers **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (E)	204	-	435771 401365
174	**Contemporary Trade Directory Entries** Name: Trekdale Transport Ltd Location: Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	233	-	434799 400711
175	**Contemporary Trade Directory Entries** Name: Bmw Breaking Centre Location: Unit 3, Rockingham Business Park, Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Automatically positioned in the proximity of the address	A7SW (S)	238	-	434852 400688
175	**Contemporary Trade Directory Entries** Name: Company Shop Location: Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Food Products - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7SW (S)	243	-	434844 400684
175	**Contemporary Trade Directory Entries** Name: Kia Services Location: Unit 4, Rockingham Business Park, Rockingham Row, Birdwell, Barnsley, S70 5TW Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SW (S)	283	-	434838 400645
175	**Contemporary Trade Directory Entries** Name: May Gurney Ltd Location: Unit 4, Rockingham Business Park, Rockingham Row, Birdwell, BARNSLEY, South Yorkshire, S70 5TW Classification: Sewage Disposal - Equipment & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	285	-	434836 400643
176	**Contemporary Trade Directory Entries** Name: Windows & Conservatories Location: 196, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TD Classification: PVC-U Products - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A7NW (W)	252	-	434578 401060
177	**Contemporary Trade Directory Entries** Name: Darwill Ltd Location: Unit 13, Rockingham Business Park, Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Crane Manufacturers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SE (S)	256	-	434906 400665
177	**Contemporary Trade Directory Entries** Name: W R Rack Solutions Ltd Location: Unit 13, Rockingham Business Park, Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Pallets, Crates & Packing Cases **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SE (S)	256	-	434906 400665
177	**Contemporary Trade Directory Entries** Name: Birdwell Garage Location: Unit 6, Rockingham Business Park, Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Garage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	262	-	434875 400659

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
177	**Contemporary Trade Directory Entries** Name: Scrap My Car Now For Barnsley Kws Location: Rockingham Row, Barnsley, South Yorkshire, S70 5TW Classification: Car Breakers & Dismantlers **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	A7SW (S)	263	-	434875 400659
178	**Contemporary Trade Directory Entries** Name: The Partlow Partnership Location: Unit 6 Rockingham Row, Birdwell, Barnsley, South Yorkshire, S70 5TW Classification: Greeting Card Publishers & Wholesalers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A7SW (S)	288	-	434760 400670
179	**Contemporary Trade Directory Entries** Name: European Welding Supplies Ltd Location: Unit 3, Rockingham Business Park, Rockingham Row, Birdwell, Barnsley, S70 5TW Classification: Abrasive Products - Wholesalers **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SW (S)	290	-	434820 400642
180	**Contemporary Trade Directory Entries** Name: Rainford Developments Ltd Location: Wentworth Street, Barnsley, S Yorkshire, S70 5UN Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A6NE (W)	299	-	434524 401088
181	**Contemporary Trade Directory Entries** Name: Twin Tub (Uk) Location: 247, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TN Classification: Washing Machines - Servicing & Repairs **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (SW)	307	-	434651 400744
182	**Contemporary Trade Directory Entries** Name: Prolyte Sales Location: Unit 1a, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, South Yorkshire, S74 9LH Classification: Aluminium Fabricators **Status: Active** Positional Accuracy: Automatically positioned to the address	A12SE (E)	323	-	435870 401432
183	**Contemporary Trade Directory Entries** Name: Shell Service Station Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5XB Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A10SE (NW)	331	-	434511 401378
184	**Contemporary Trade Directory Entries** Name: Hartwood Exports (Machinery) Ltd Location: Hangmanstone Depot, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TR Classification: Commercial Vehicle Servicing, Repairs, Parts & Accessories **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A7SW (S)	380	-	434716 400589
185	**Contemporary Trade Directory Entries** Name: Colin Vaines & Sons Ltd Location: 2, The Walk, Birdwell, Barnsley, South Yorkshire, S70 5UA Classification: Road Haulage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A7SW (SW)	383	-	434629 400651
186	**Contemporary Trade Directory Entries** Name: G B Truck Services Ltd Location: Cross Keys Works, Cross Keys Lane, Hoyland, Barnsley, South Yorkshire, S74 0QA Classification: Diesel Fuel Injection Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (SE)	388	-	435272 400542
186	**Contemporary Trade Directory Entries** Name: S & H Recovery Services Ltd Location: Cross Keys Works, Cross Keys Lane, Hoyland, Barnsley, South Yorkshire, S74 0QA Classification: Breakdown and Recovery **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A8SW (SE)	388	-	435272 400542

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
186	**Contemporary Trade Directory Entries** Name: G B Truck Services Ltd Location: Cross Keys Works, Cross Keys Lane, Hoyland, Barnsley, South Yorkshire, S74 0QA Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (SE)	388	-	435272 400542
186	**Contemporary Trade Directory Entries** Name: G B Truck Service Ltd Location: Cross Keys Works, Cross Keys Lane, Hoyland, Barnsley, South Yorkshire, S74 0QA Classification: Commercial Vehicle Bodybuilders & Repairers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A8SW (SE)	388	-	435272 400542
187	**Contemporary Trade Directory Entries** Name: Barnsley Surfacing Co Ltd Location: 54, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5UY Classification: Asphalt & Coated Macadam Laying Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	413	-	434527 401542
187	**Contemporary Trade Directory Entries** Name: Graham'S Autos Location: Sheffield Rd, Birdwell, Barnsley, South Yorkshire, S70 5XB Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A11NW (NW)	424	-	434544 401582
188	**Contemporary Trade Directory Entries** Name: Jays Cleaners Of Birdwell Location: 1, Worsbrough Road, Birdwell, Barnsley, South Yorkshire, S70 5QR Classification: Dry Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A11NW (NW)	443	-	434588 401653
189	**Contemporary Trade Directory Entries** Name: Direct Waste Services Location: Tinker La, Hoyland, Barnsley, South Yorkshire, S74 0PR Classification: Waste Disposal Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A8SW (SE)	444	-	435484 400524
190	**Contemporary Trade Directory Entries** Name: The Finishing Touch Location: 57, Green Spring Avenue, Birdwell, Barnsley, South Yorkshire, S70 5SW Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A11NW (NW)	486	-	434650 401745
190	**Contemporary Trade Directory Entries** Name: The Finishing Touch Location: 57, Green Spring Avenue, Birdwell, Barnsley, South Yorkshire, S70 5SW Classification: Fireplaces & Mantelpieces **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A11NW (NW)	486	-	434650 401745
191	**Contemporary Trade Directory Entries** Name: Puncturesafe Location: 12, Steele Street, Hoyland, Barnsley, South Yorkshire, S74 0PS Classification: Tyre Repairs & Retreading **Status: Active** Positional Accuracy: Automatically positioned to the address	A4NW (SE)	502	-	435471 400456
192	**Contemporary Trade Directory Entries** Name: Birdwell Armoury Indoor Shooting Centre Location: 346, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5TU Classification: Gunsmiths **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A3NW (S)	509	-	434774 400428
193	**Contemporary Trade Directory Entries** Name: Cross Keys Filling Station Location: Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0PY Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4NW (SE)	533	-	435288 400396

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
194	**Contemporary Trade Directory Entries** Name: Jet Cross Keys Location: Sheffield Road, Hoyland, Barnsley, S74 0PY Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A4NW (SE)	534	-	435328 400395
194	**Contemporary Trade Directory Entries** Name: Cross Keys Garage (Barnsley) Ltd Location: Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0PY Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4NW (SE)	536	-	435343 400394
194	**Contemporary Trade Directory Entries** Name: A H Fastners (Uk) Ltd Location: Sheffield Rd, Hoyland Common, Barnsley, South Yorkshire, S74 0EB Classification: Fasteners & Fixing Devices **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	577	-	435319 400352
195	**Contemporary Trade Directory Entries** Name: Kustom Sport Location: Regent St, Hoyland, Barnsley, South Yorkshire, S74 0PU Classification: Carpets & Rugs - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A4NW (SE)	573	-	435436 400372
196	**Contemporary Trade Directory Entries** Name: Jumbo Self Drive Location: 2A, Sheffield Road, Birdwell, Barnsley, S70 5UZ Classification: Mot Testing Centres **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	586	-	434455 401725
196	**Contemporary Trade Directory Entries** Name: Av Cranes Uk Ltd Location: 2a, Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5UZ Classification: Crane Hire, Sales & Service **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	586	-	434455 401725
196	**Contemporary Trade Directory Entries** Name: Graham'S Autos Location: 2a, Sheffield Road, Birdwell, Barnsley, S70 5UZ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	586	-	434455 401725
197	**Contemporary Trade Directory Entries** Name: A P U Executive Travel Location: 17, Timothy Wood Avenue, Birdwell, Barnsley, South Yorkshire, S70 5RX Classification: Car Engine Tuning & Diagnostic Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15SW (N)	598	-	434700 401889
198	**Contemporary Trade Directory Entries** Name: Don Mellor Location: Tinker La, Hoyland, Barnsley, South Yorkshire, S74 0PR Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A4NE (SE)	601	-	435580 400396
199	**Contemporary Trade Directory Entries** Name: Hill Top Service Station Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5XB Classification: Petrol Filling Stations **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	624	-	434478 401797
199	**Contemporary Trade Directory Entries** Name: Hilltop Service Station Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5XB Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A10NE (NW)	624	-	434478 401797
200	**Contemporary Trade Directory Entries** Name: Grahams Autos Location: Sheffield Rd, Birdwell, Barnsley, South Yorkshire, S70 5XB Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A14SE (NW)	691	-	434427 401842

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
201	**Contemporary Trade Directory Entries** Name: Hoyland Common Service Station Location: Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0DP Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A4NW (SE)	727	-	435465 400221
201	**Contemporary Trade Directory Entries** Name: Lam Communications Location: 52, Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0DQ Classification: Radio Communication Equipment **Status: Inactive** Positional Accuracy: Manually positioned to the address or location	A4NW (SE)	731	-	435510 400228
202	**Contemporary Trade Directory Entries** Name: J M Cleaning Services Location: 10, Tankersley Lane, Hoyland, Barnsley, South Yorkshire, S74 0DS Classification: Commercial Cleaning Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4SW (SE)	794	-	435444 400147
203	**Contemporary Trade Directory Entries** Name: Wilby Electrical Ltd Location: 8a, Hoyland Road, Hoyland, Barnsley, South Yorkshire, S74 0LY Classification: Electrical Engineers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4NE (SE)	802	-	435596 400183
203	**Contemporary Trade Directory Entries** Name: Paul'S Print Shop Location: 9, Hoyland Road, Hoyland, Barnsley, South Yorkshire, S74 0LT Classification: Printers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4NE (SE)	823	-	435672 400194
203	**Contemporary Trade Directory Entries** Name: Searns Decor Location: 5-7, Hoyland Road, Hoyland, BARNSLEY, South Yorkshire, S74 0LX Classification: Wallpapers & Wall Coverings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4NE (SE)	831	-	435635 400168
204	**Contemporary Trade Directory Entries** Name: Ashbeck Aquatic'S Wholesale Location: 80, Hoyland Road, Hoyland, Barnsley, South Yorkshire, S74 0AP Classification: Hose, Tubing & Fittings **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4NE (SE)	823	-	435851 400316
205	**Contemporary Trade Directory Entries** Name: H Booth & Son Ltd Location: Hoyland Rd, Hoyland, Barnsley, South Yorkshire, S74 0PB Classification: Clothing & Fabrics - Manufacturers **Status: Inactive** Positional Accuracy: Manually positioned to the road within the address or location	A4NE (SE)	826	-	435804 400274
206	**Contemporary Trade Directory Entries** Name: Monarch Location: 5, Fairfield, Birdwell, Barnsley, South Yorkshire, S70 5RR Classification: Carpet, Curtain & Upholstery Cleaners **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A15NW (N)	842	-	434846 402182
207	**Contemporary Trade Directory Entries** Name: R G Carpet & Upholstery Cleaning Location: 27, Beaumont Street, Hoyland, Barnsley, South Yorkshire, S74 0NU Classification: Carpet, Curtain & Upholstery Cleaners **Status: Active** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	905	-	435748 400141
208	**Contemporary Trade Directory Entries** Name: Shell Service Station Location: Sheffield Road, Hoyland, Barnsley, S74 0DP Classification: Petrol Filling Stations **Status: Active** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	921	-	435605 400059

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
208	**Contemporary Trade Directory Entries** Name: D H Armitage Ltd Location: Fairfield Garage, Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0DP Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	925	-	435564 400042
208	**Contemporary Trade Directory Entries** Name: Challenger Tyres & Exhausts Co Ltd Location: Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0DP Classification: Tyre Dealers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	925	-	435564 400042
208	**Contemporary Trade Directory Entries** Name: D H Armitage Location: Fairfield Garage, Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0DP Classification: Road Haulage Services **Status: Inactive** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	925	-	435564 400042
208	**Contemporary Trade Directory Entries** Name: Challenger Tyres & Exhausts Location: Sheffield Road, Hoyland, Barnsley, South Yorkshire, S74 0DP Classification: Tyre Repairs & Retreading **Status: Active** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	925	-	435564 400042
209	**Contemporary Trade Directory Entries** Name: Barnsley Superfit Location: 57, Fitzwilliam Street, Barnsley, S74 0NJ Classification: Garage Services **Status: Active** Positional Accuracy: Automatically positioned to the address	A4SE (SE)	966	-	435834 400123
210	**Fuel Station Entries** Name: Rockingham Roundabout Service Station Location: Rockingham Close Dearne Valley Parkway, Birdwell , Barnsley, South Yorkshire, S70 5TW Brand: Bp Premises Type: Petrol Station **Status: Under Development** Positional Accuracy: Located by supplier to within 10m	A7SE (S)	142	-	435003 400811
211	**Fuel Station Entries** Name: Cross Keys Garage Location: Sheffield Road Regent Street, Hoyland , Barnsley, South Yorkshire, S74 0PY Brand: JET Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A4NW (SE)	534	-	435328 400395
212	**Fuel Station Entries** Name: Mrh Hilltop Location: 1, Sheffield Road , Birdwell , Barnsley, South Yorkshire, S70 5XB Brand: Shell Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A10NE (NW)	624	-	434478 401797
213	**Fuel Station Entries** Name: Lidgett Garage Location: A6135 , Hoyland Common , Barnsley, South Yorkshire, S74 0PB Brand: Unbranded Premises Type: Petrol Station **Status: Non-Retail** Positional Accuracy: Automatically positioned to the address	A3NE (S)	628	-	435006 400301
214	**Fuel Station Entries** Name: Mrh Hoyland Common Location: Sheffield Road , Hoyland Common , Barnsley, South Yorkshire, S74 0DP Brand: Shell Premises Type: Petrol Station **Status: Open** Positional Accuracy: Manually positioned to the address or location	A4SE (SE)	922	-	435604 400058

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
215	**Ancient Woodland** Name: Short Wood Reference: 1103458 Area(m²): 94053.61 Type: Ancient and Semi-Natural Woodland	A12SW (NE)	41	6	435298 401404
216	**Ancient Woodland** Name: The Old Park Reference: 1103453 Area(m²): 176563.54 Type: Plantation on Ancient Woodland	A6NW (W)	641	6	434175 401062
217	**Ancient Woodland** Name: The Old Park Reference: 1103453 Area(m²): 38225.39 Type: Ancient and Semi-Natural Woodland	A6NW (W)	726	6	434076 401135
218	**Ancient Woodland** Name: Not Supplied Reference: 1504799 Area(m²): 55439.68 Type: Plantation on Ancient Woodland	A14SW (NW)	874	6	434179 401849
219	**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	A7NE (N)	0	7	434948 401154
220	**Areas of Unadopted Green Belt** Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Local Plan **Status: Submission Draft** Plan Date: 23rd December 2016	A12NE (NE)	352	7	435727 401688
221	**Nitrate Vulnerable Zones** Name: River Dearne Nvz Description: Surface Water Source: Environment Agency, Head Office	A7NE (N)	0	8	434948 401154

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	July 2013	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	July 2018	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	July 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Variable
Sheffield City Council - Environmental Protection Service	June 2014	Variable
Local Authority Pollution Prevention and Controls		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	June 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Variable
Sheffield City Council - Environmental Protection Service	June 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
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
Registered Radioactive Substances		
Environment Agency - North East Region	January 2015	
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	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Water Abstractions		
Environment Agency - North East Region	July 2018	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2017	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
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified

Agency & Hydrological	Version	Update Cycle
Source Protection Zones		
Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2018	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2018	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2018	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2018	Quarterly
OS Water Network Lines		
Ordnance Survey	May 2018	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	July 2018	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	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - Ridings Area	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Local Authority Landfill Coverage		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Sheffield City Council - Environmental Protection Service	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Sheffield City Council - Environmental Protection Service	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Sheffield City Council Barnsley Metropolitan Borough Council - Planning Department	February 2016 January 2016	Variable Variable
Planning Hazardous Substance Consents Sheffield City Council Barnsley Metropolitan Borough Council - Planning Department	February 2016 January 2016	Variable Variable
Geological	**Version**	**Update Cycle**
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	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	As notified
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	As notified
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	August 2018	Quarterly
Fuel Station Entries		
Experian Catalist	August 2018	Quarterly
Gas Pipelines		
National Grid	July 2014	
Underground Electrical Cables		
National Grid	December 2015	
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Barnsley Metropolitan Borough Council - Planning Department	August 2018	As notified
Sheffield City Council	August 2018	As notified
Areas of Unadopted Green Belt		
Barnsley Metropolitan Borough Council - Planning Department	August 2018	As notified
Sheffield City Council	August 2018	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	August 2018	Bi-Annually
Marine Nature Reserves		
Natural England	January 2018	Bi-Annually
National Nature Reserves		
Natural England	August 2018	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones		
Environment Agency - Head Office	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest		
Natural England	October 2018	Bi-Annually
Special Areas of Conservation		
Natural England	August 2018	Bi-Annually
Special Protection Areas		
Natural England	August 2018	Bi-Annually

Data Suppliers

A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**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
4	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
5	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
6	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	**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
8	**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.



Groundwater Vulnerability

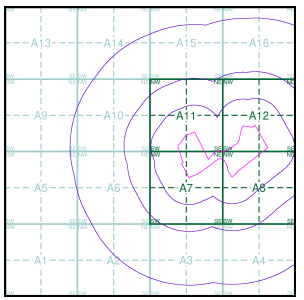
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice A



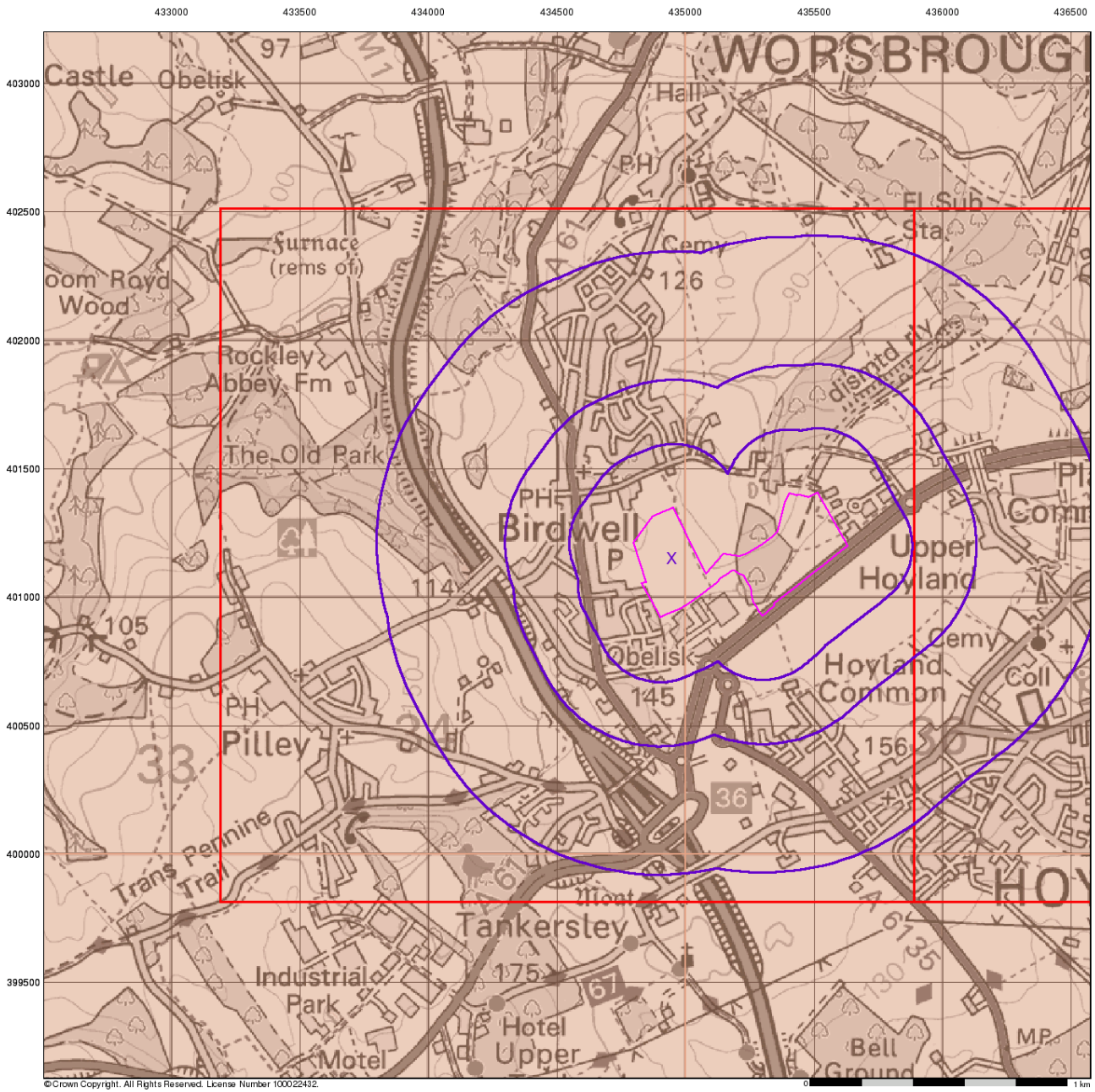
Order Details

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Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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



RSK

Bedrock Aquifer Designation

General

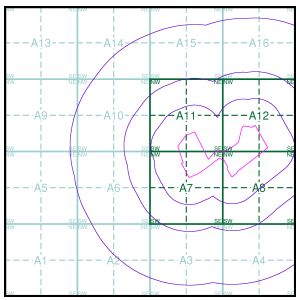
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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

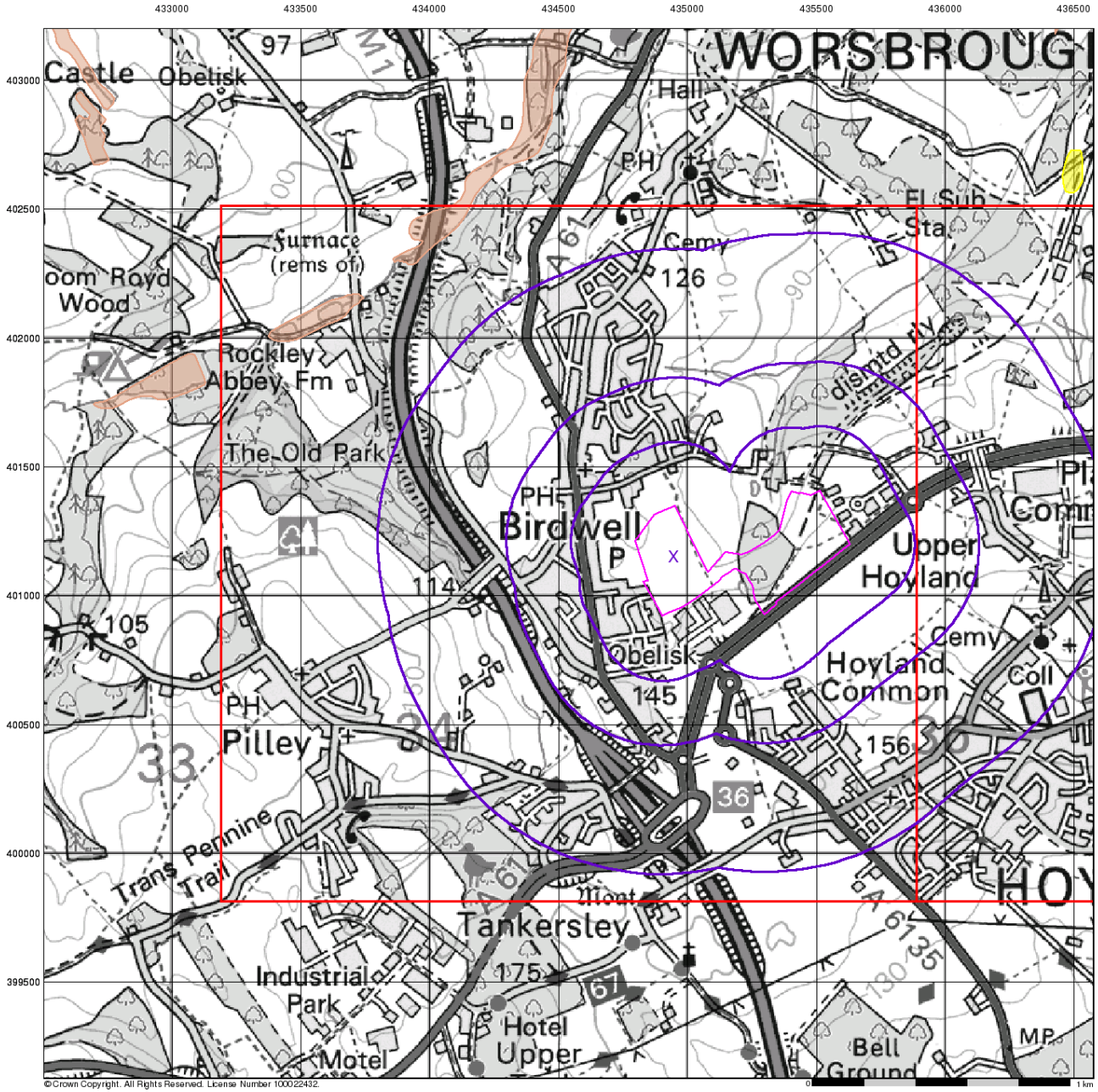


Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ



Superficial Aquifer Designation

General

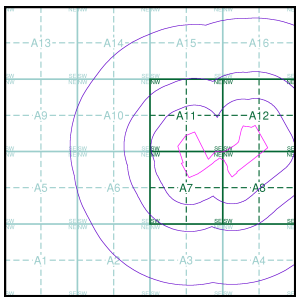
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A

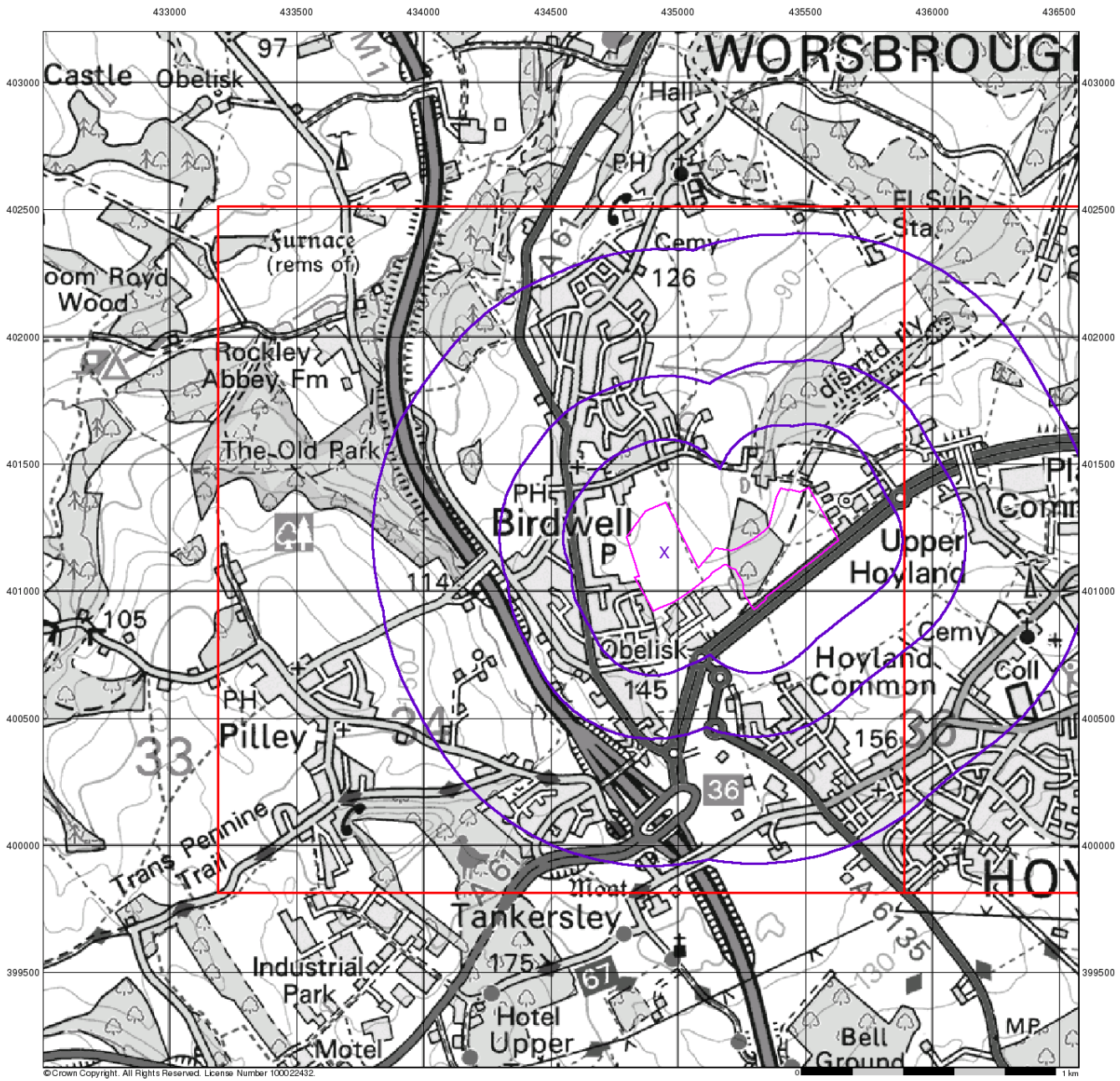


Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ



RSK

Source Protection Zones

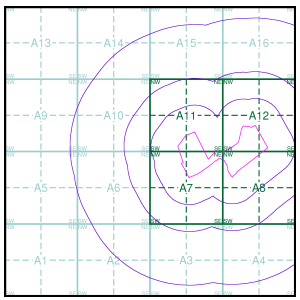
General

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)

Site Sensitivity Context Map - Slice A



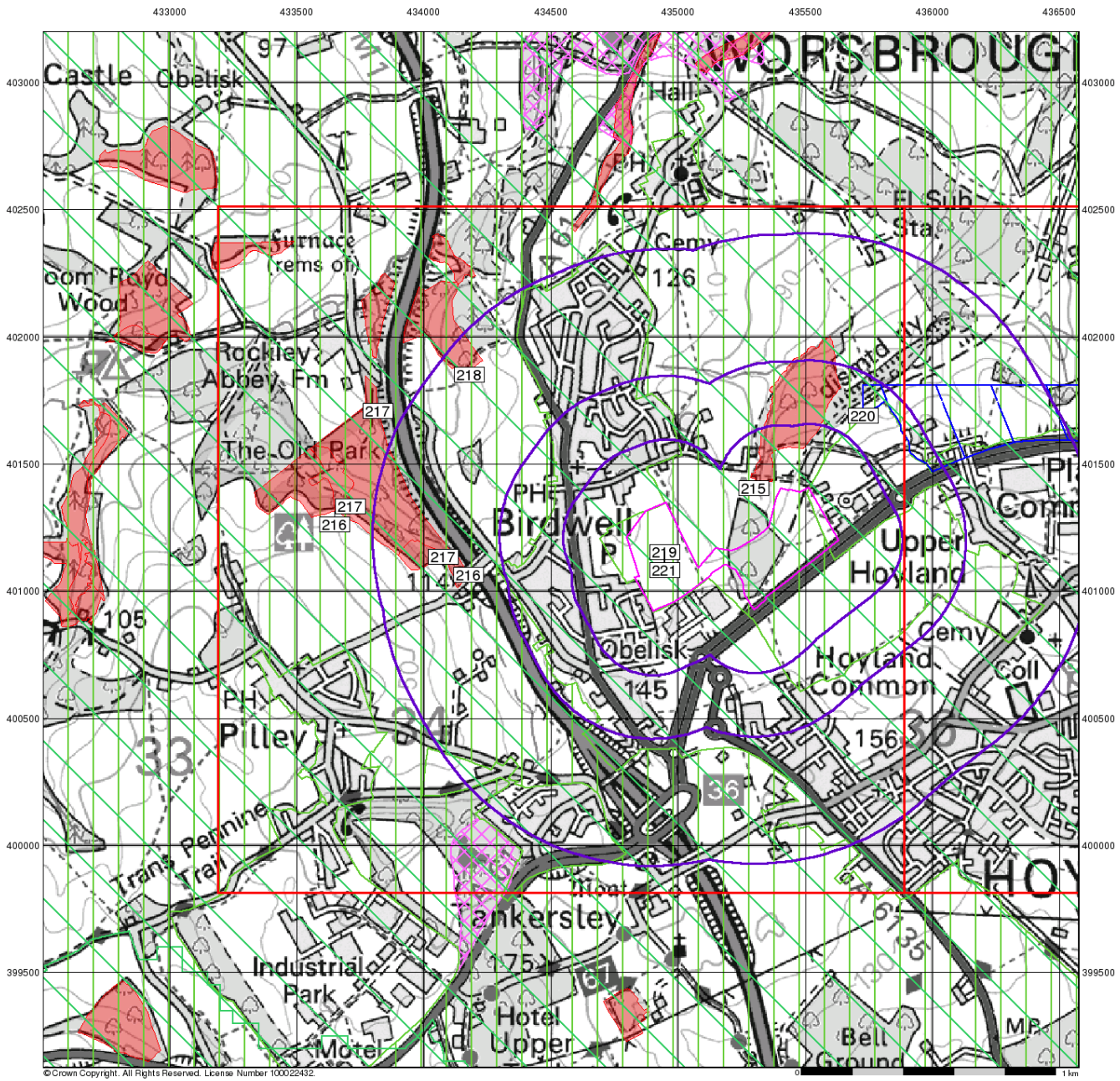
Order Details

Order Number:	182024082_1_1
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Slice:	A
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Landmark INFORMATION GROUP
Tel: 0844 844 9952
Fax: 0844 844 9951
Web: www.envirocheck.co.uk



RSK

Sensitive Land Uses

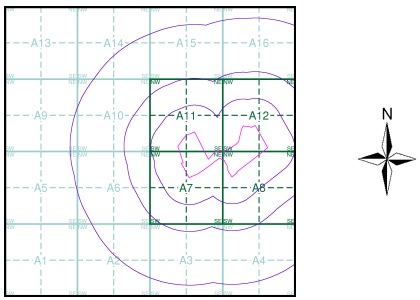
General

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

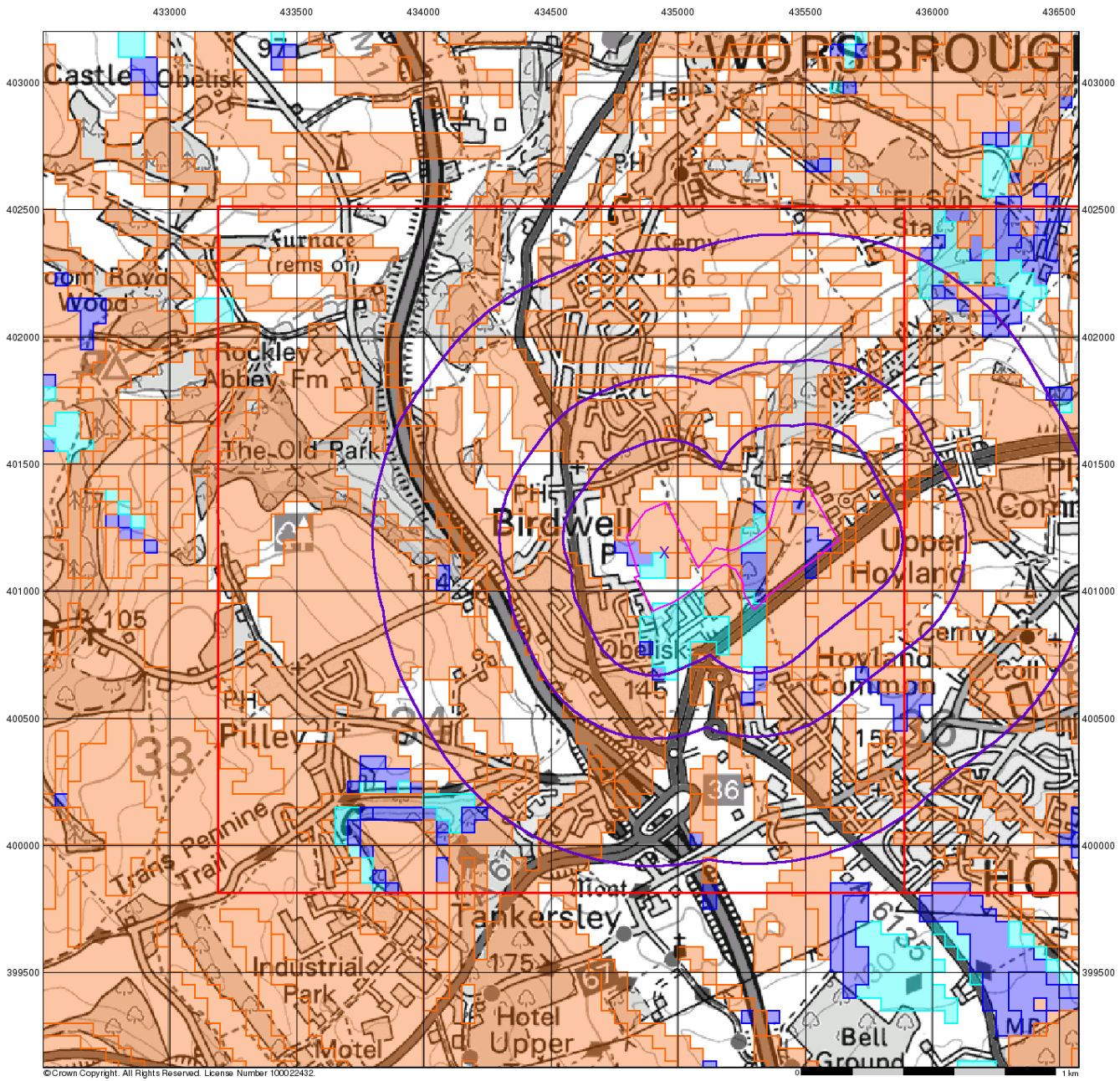


Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ



RSK

BGS Flood GFS Data

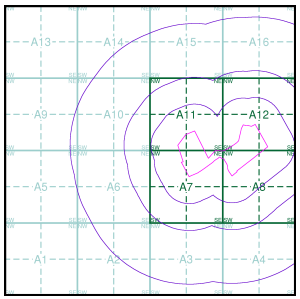
General

Specified Site | Specified Buffer(s) | 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

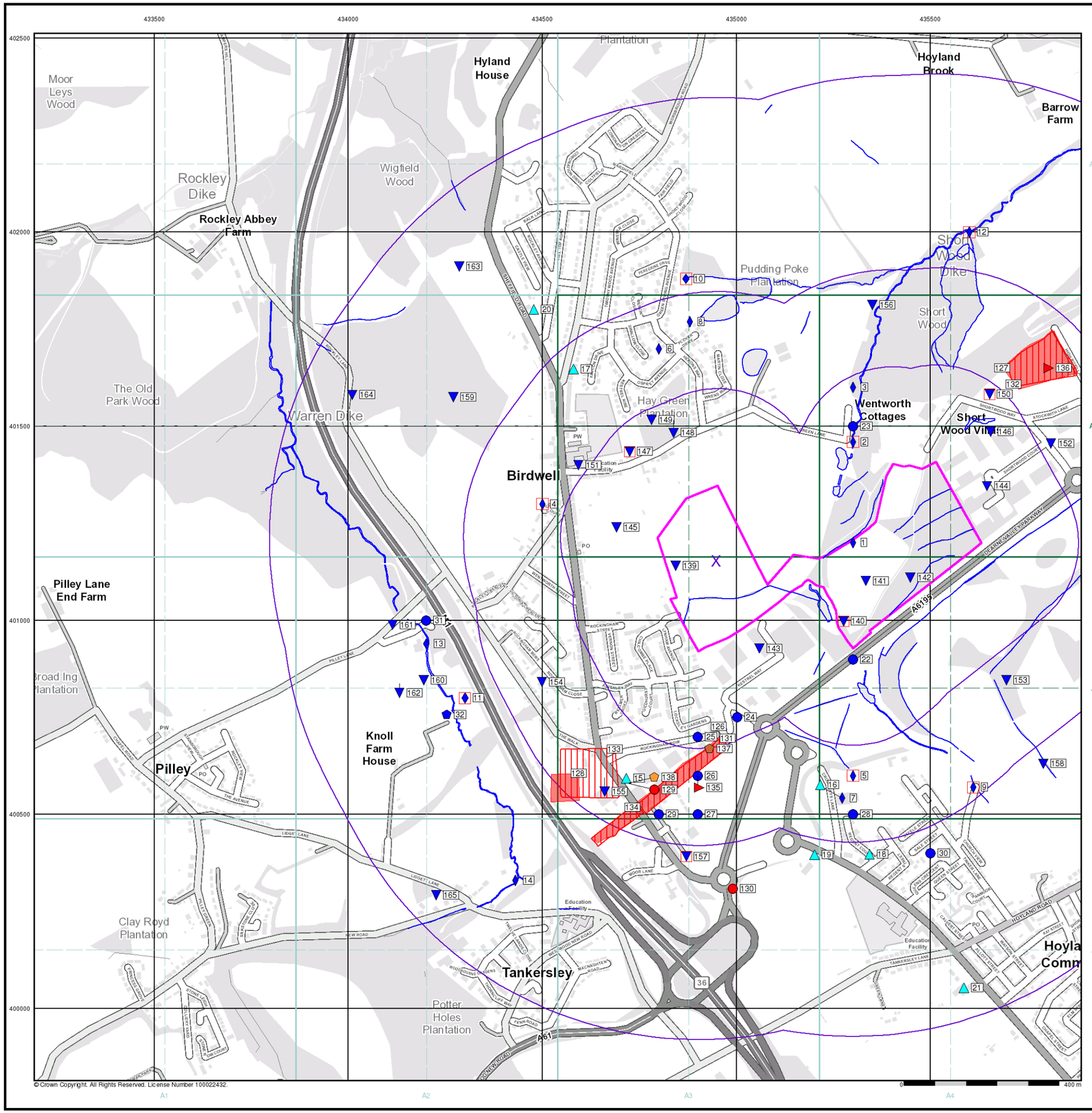


Order Details

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National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ



RSK

General

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

Agency and Hydrological

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

Waste

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

Geological

- BGS Recorded Mineral Site

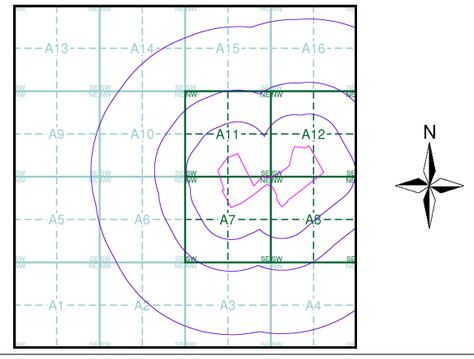
Hazardous Substances

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

Site Sensitivity Map - Slice A



Order Details

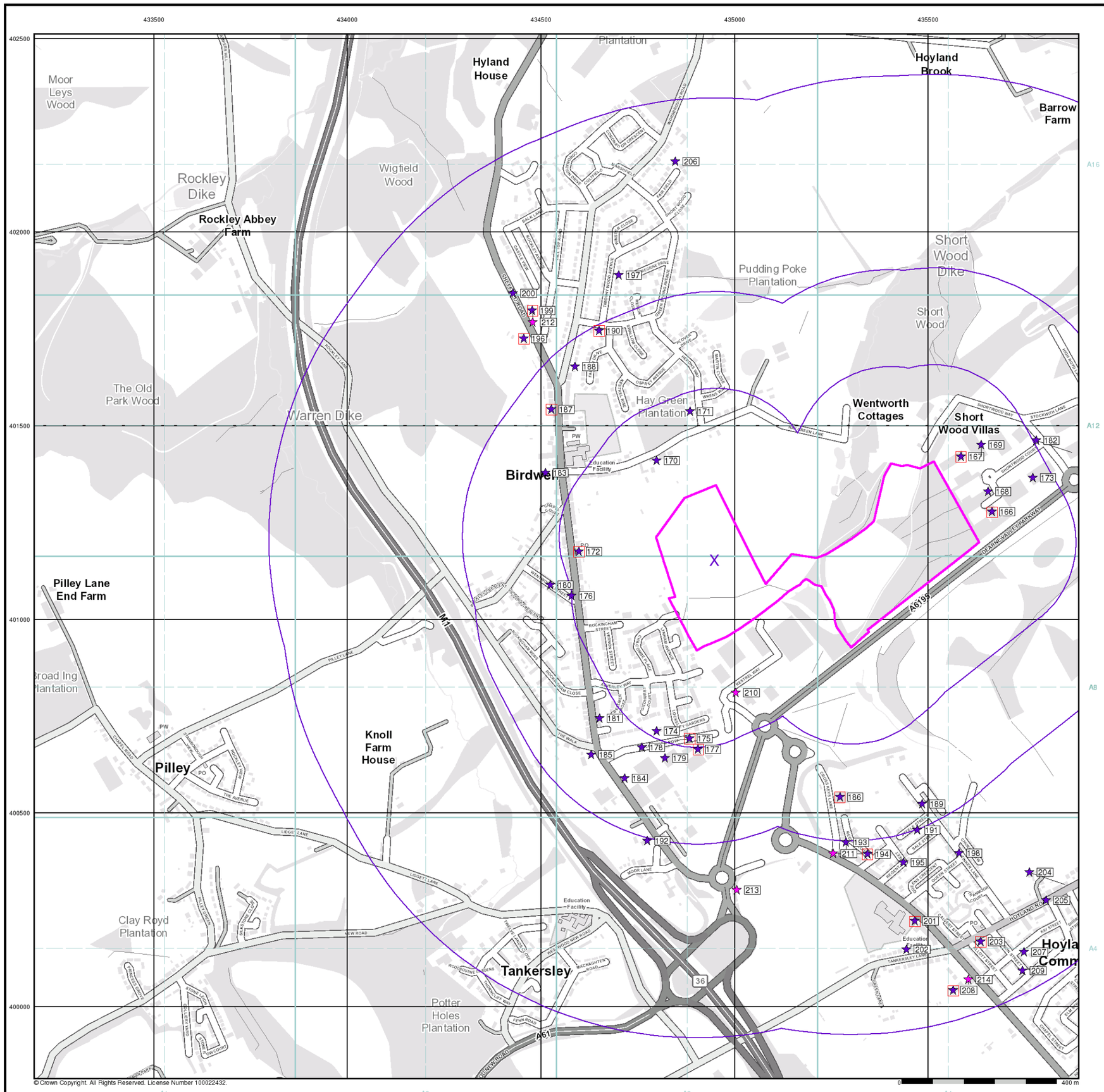
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Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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Industrial Land Use Map

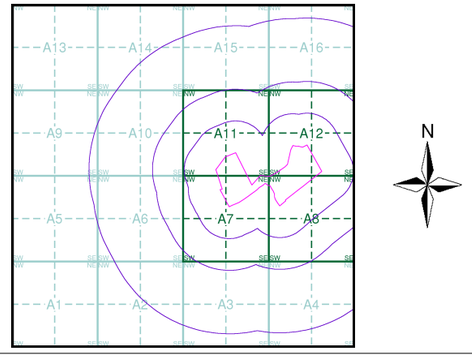
General

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

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry
- Gas Pipeline
- Underground Electrical Cables

Industrial Land Use Map - Slice A



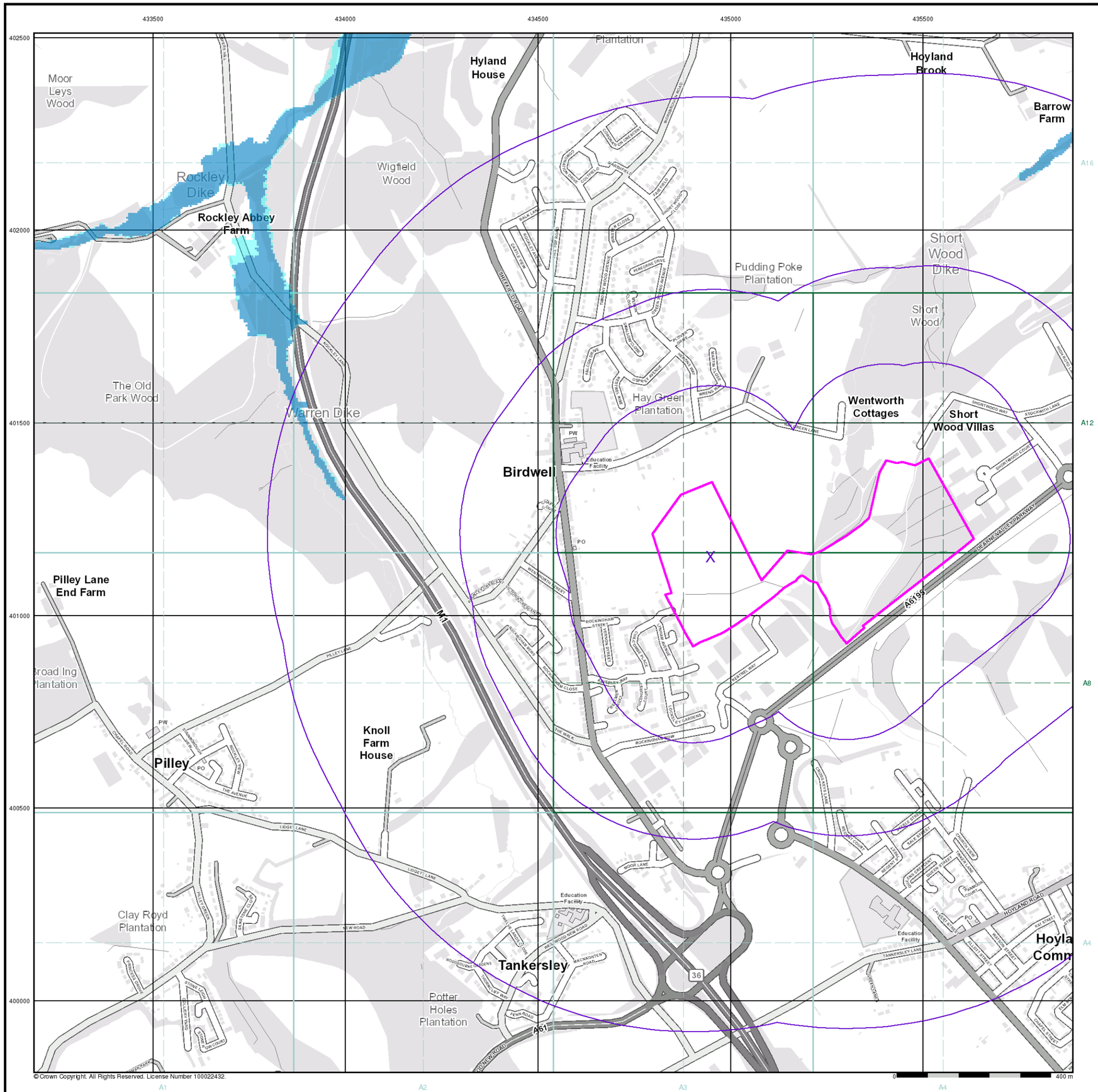
Order Details

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RSK

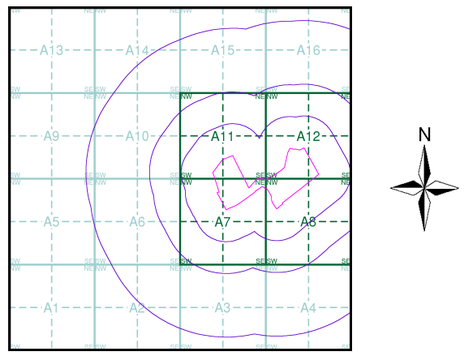
General

- Specified Site
- Specified Buffer(s)
- X 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



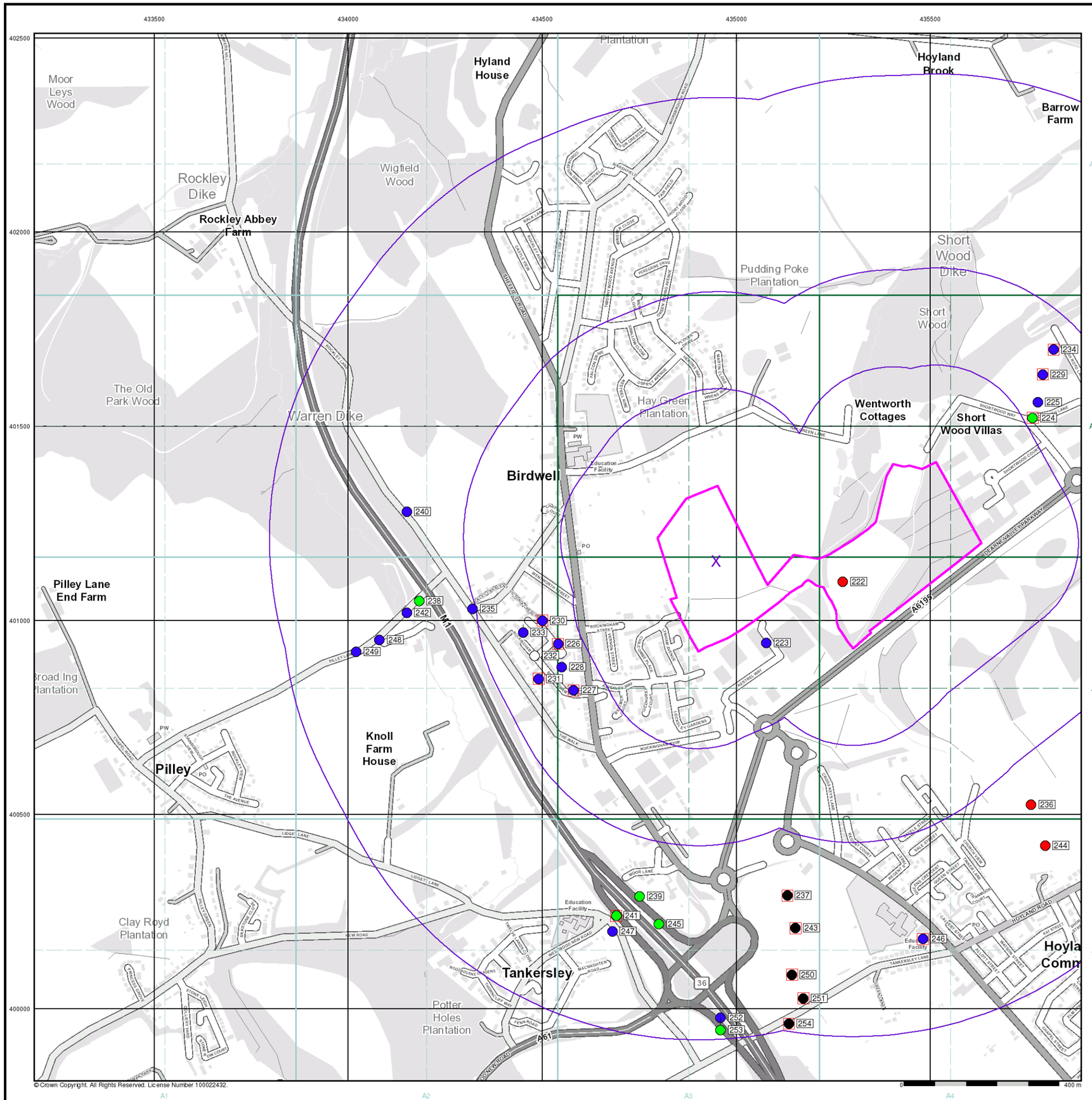
Order Details

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RSK

General

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

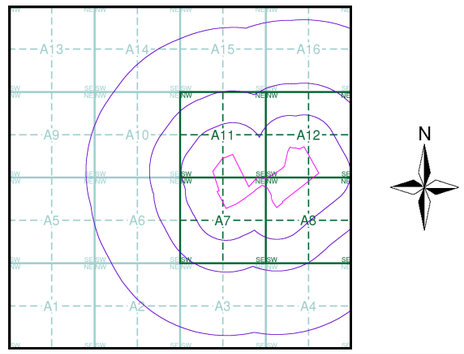
Agency and Hydrological (Boreholes)

- 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



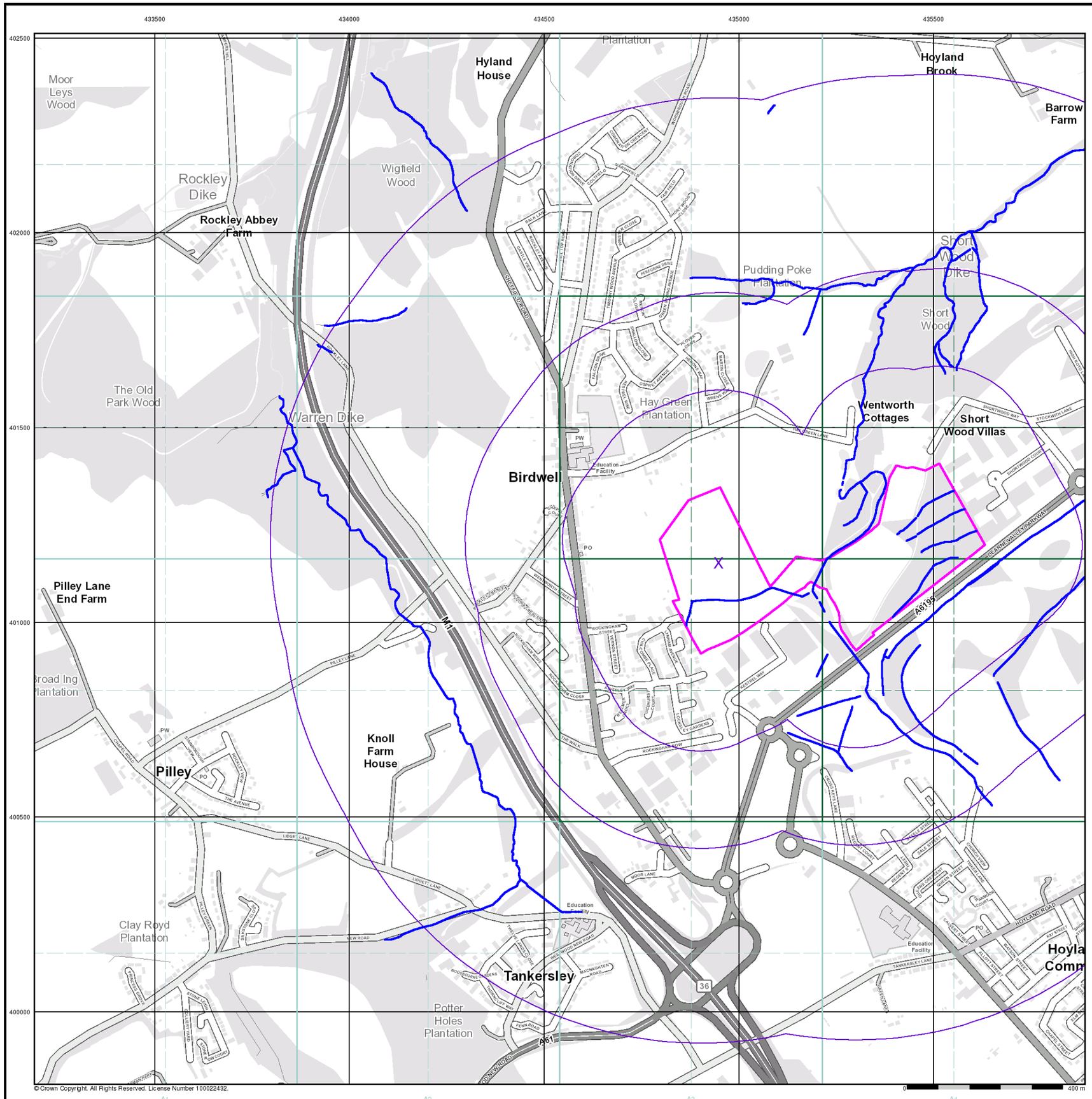
Order Details

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Search Buffer (m):	1000

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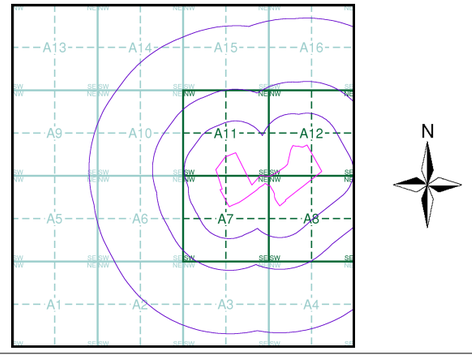
General

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

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

OS Water Network Map - Slice A



Order Details

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Slice:	A
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Search Buffer (m):	1000

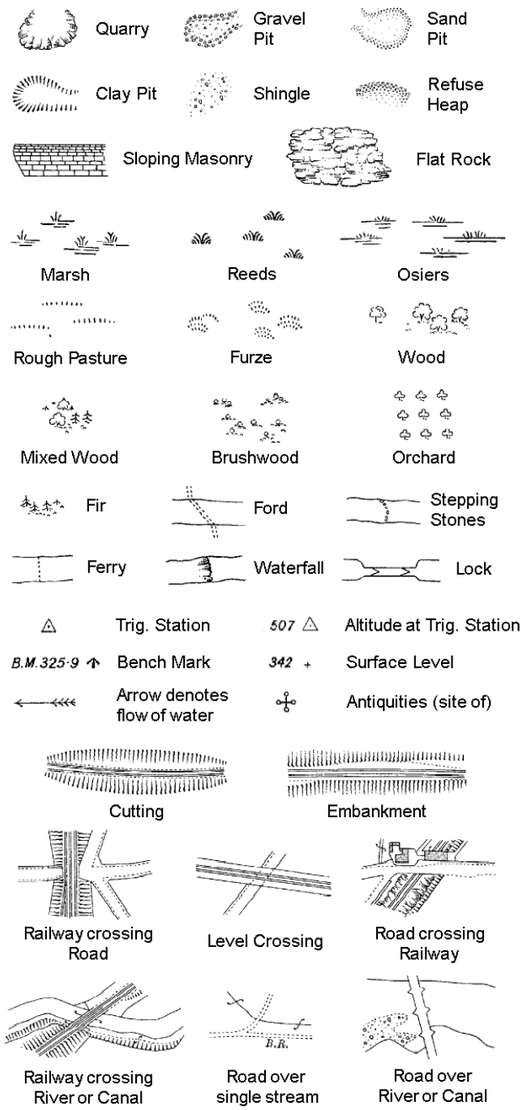
Site Details

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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

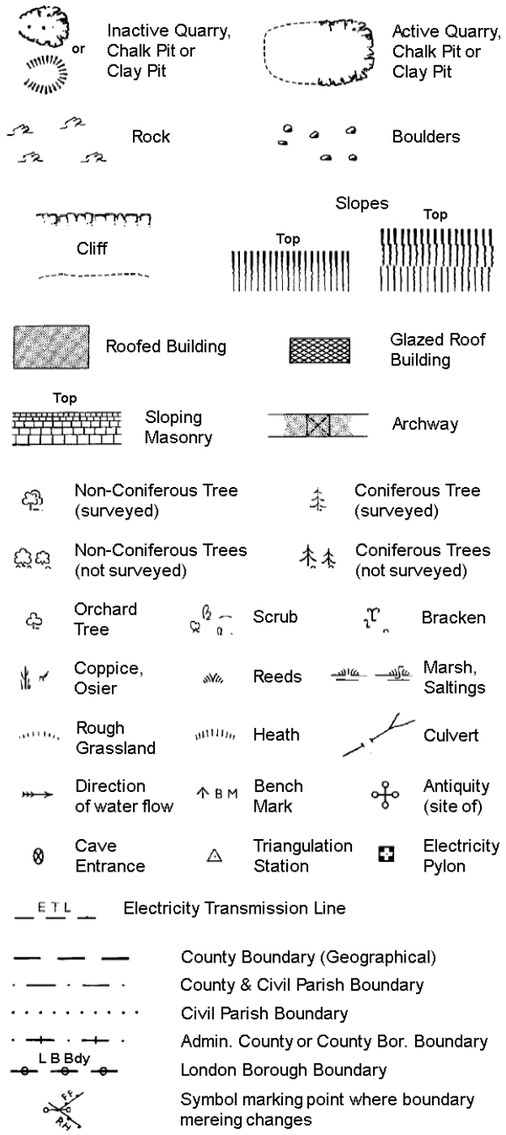
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

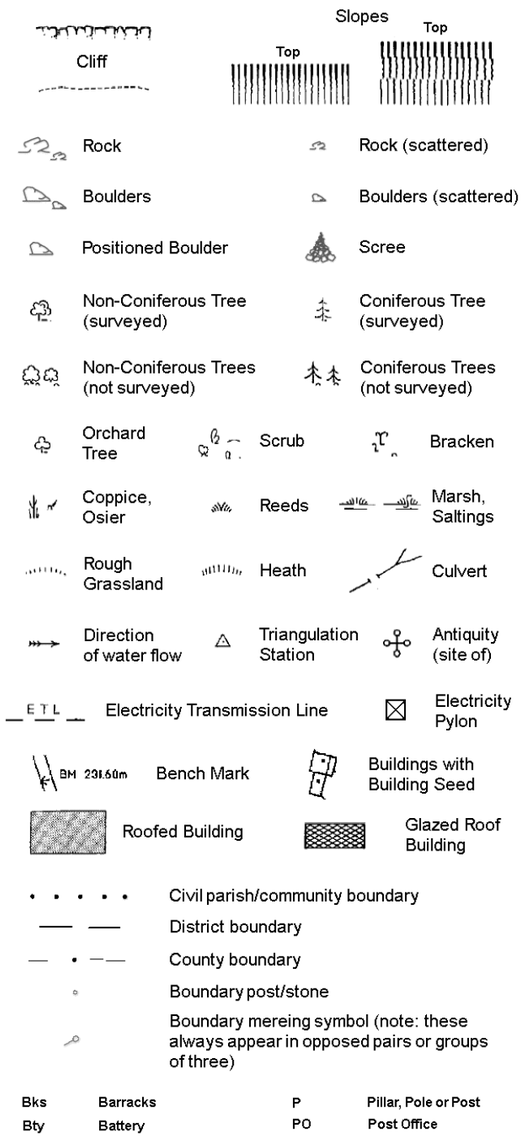
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

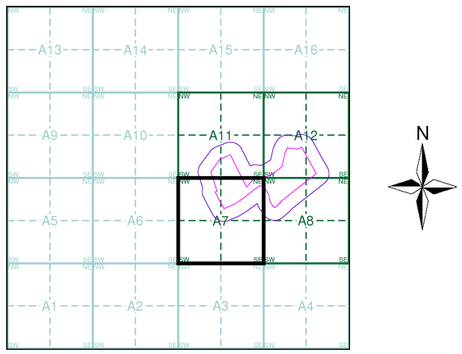
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1905	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1956 - 1962	5
Ordnance Survey Plan	1:1,250	1956	6
Ordnance Survey Plan	1:2,500	1971 - 1974	7
Ordnance Survey Plan	1:1,250	1973 - 1974	8
Additional SIMs	1:1,250	1986	9
Additional SIMs	1:2,500	1988 - 1991	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:2,500	1993	12
Large-Scale National Grid Data	1:2,500	1993	13
Large-Scale National Grid Data	1:2,500	1996	14

Historical Map - Segment A7



Order Details

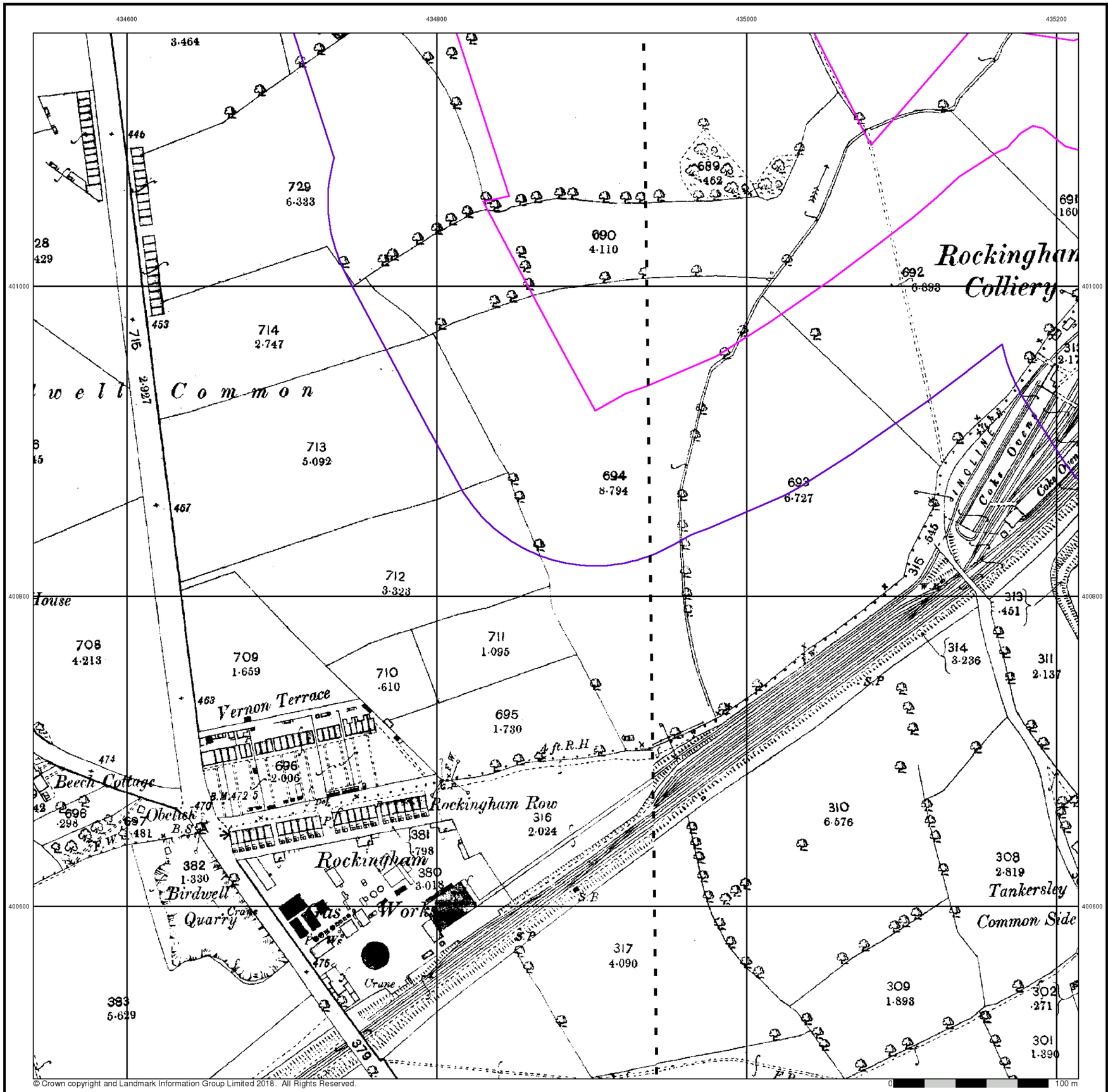
Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

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0 100 m

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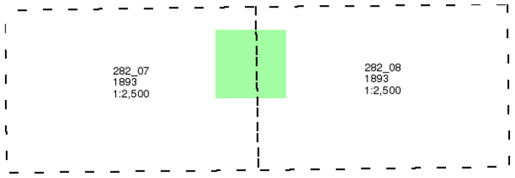
Yorkshire

Published 1893

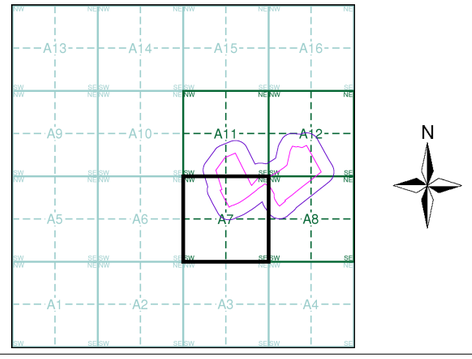
Source map scale - 1:2,500

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 A7



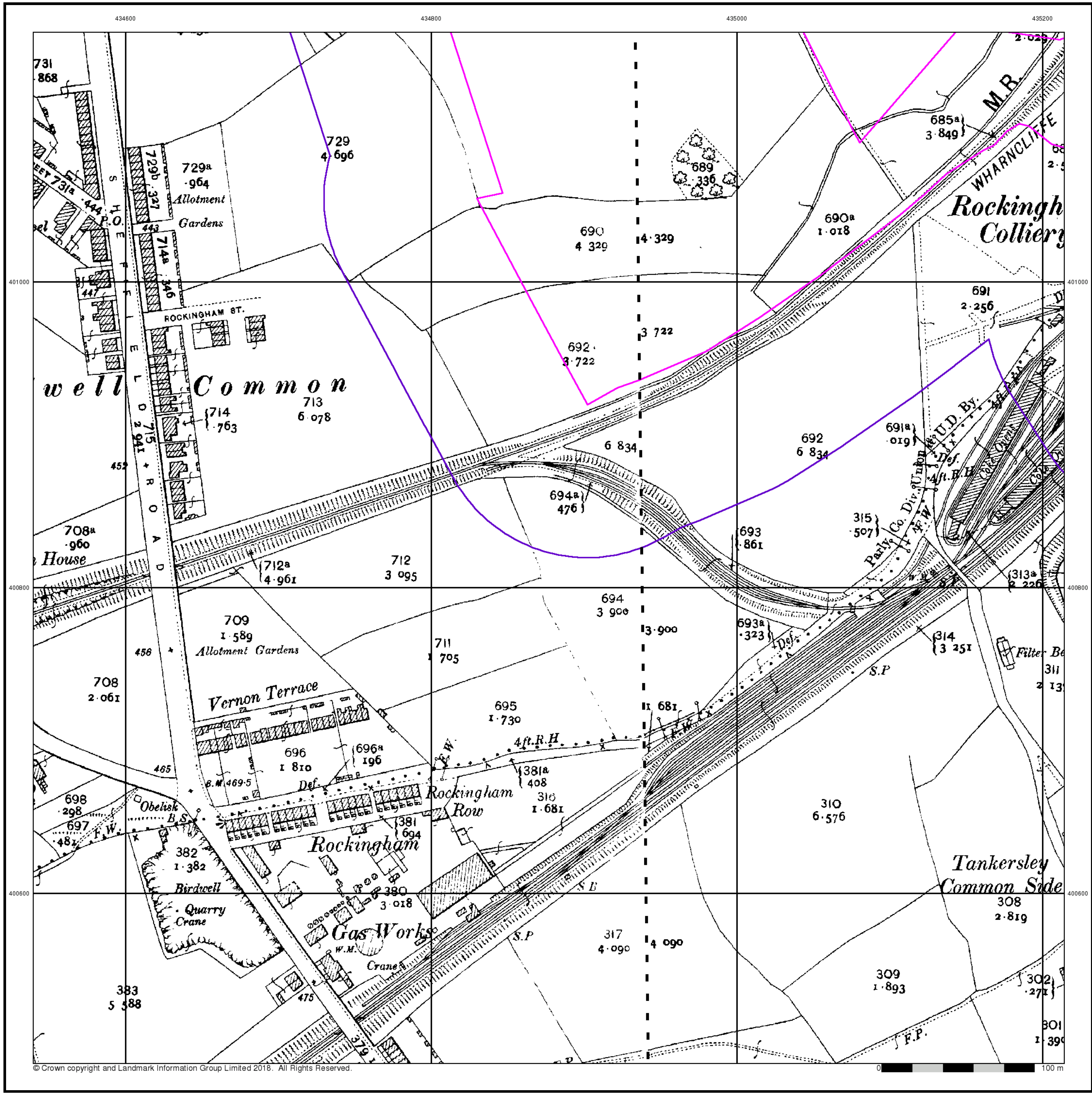
Order Details

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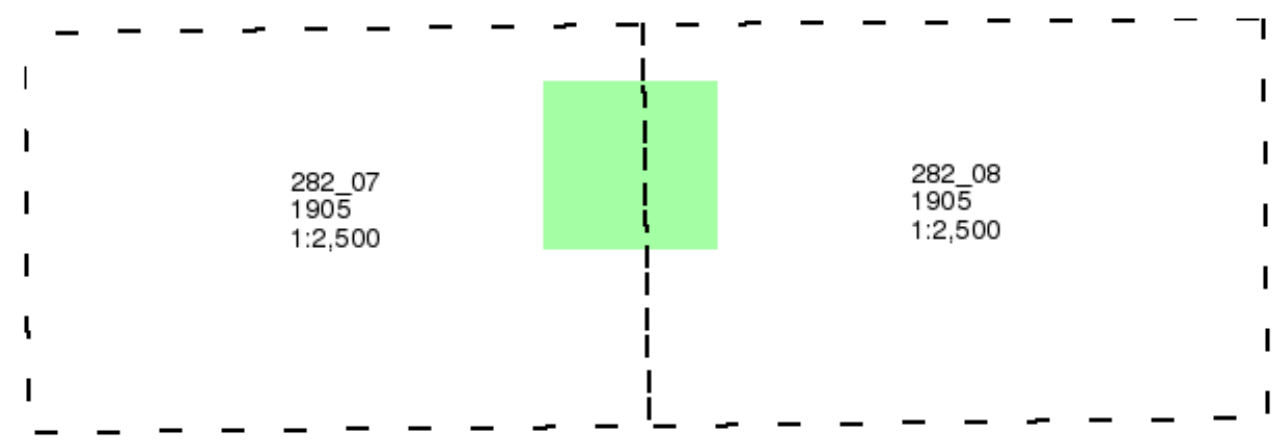
Yorkshire

Published 1905

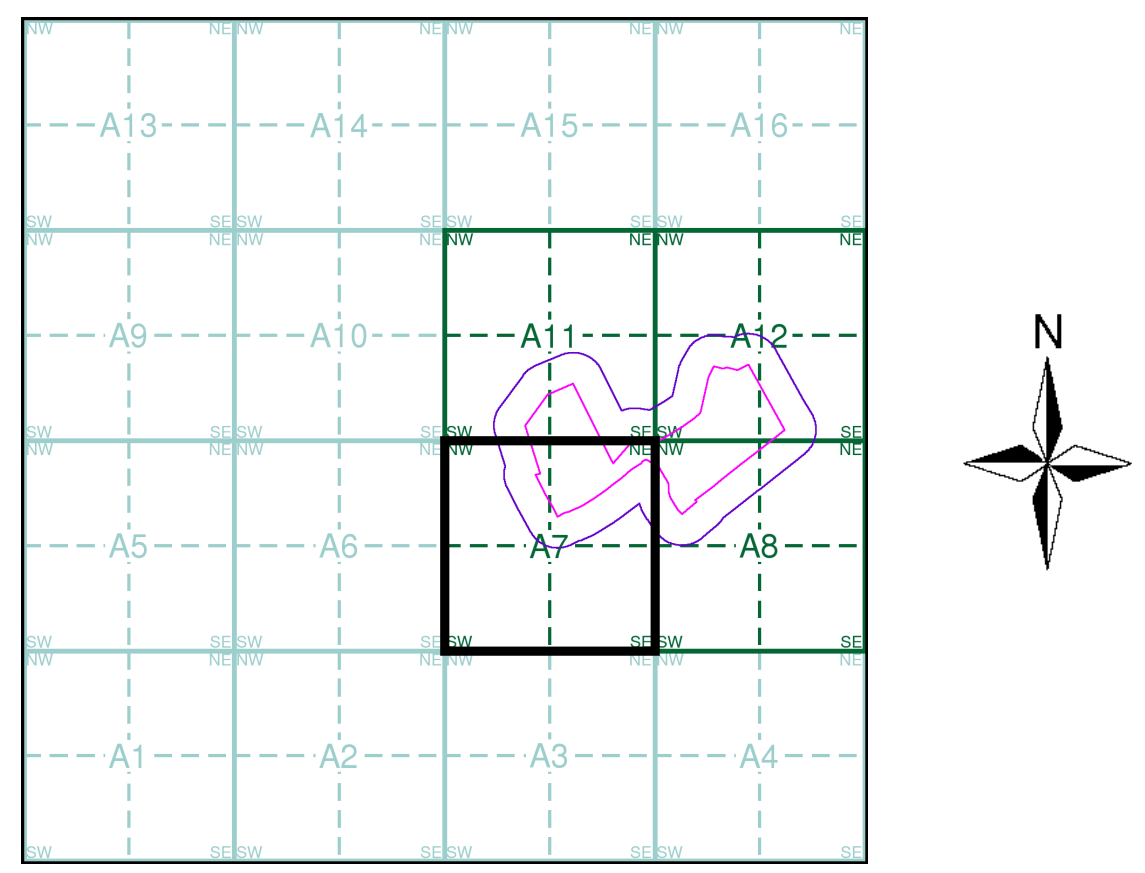
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

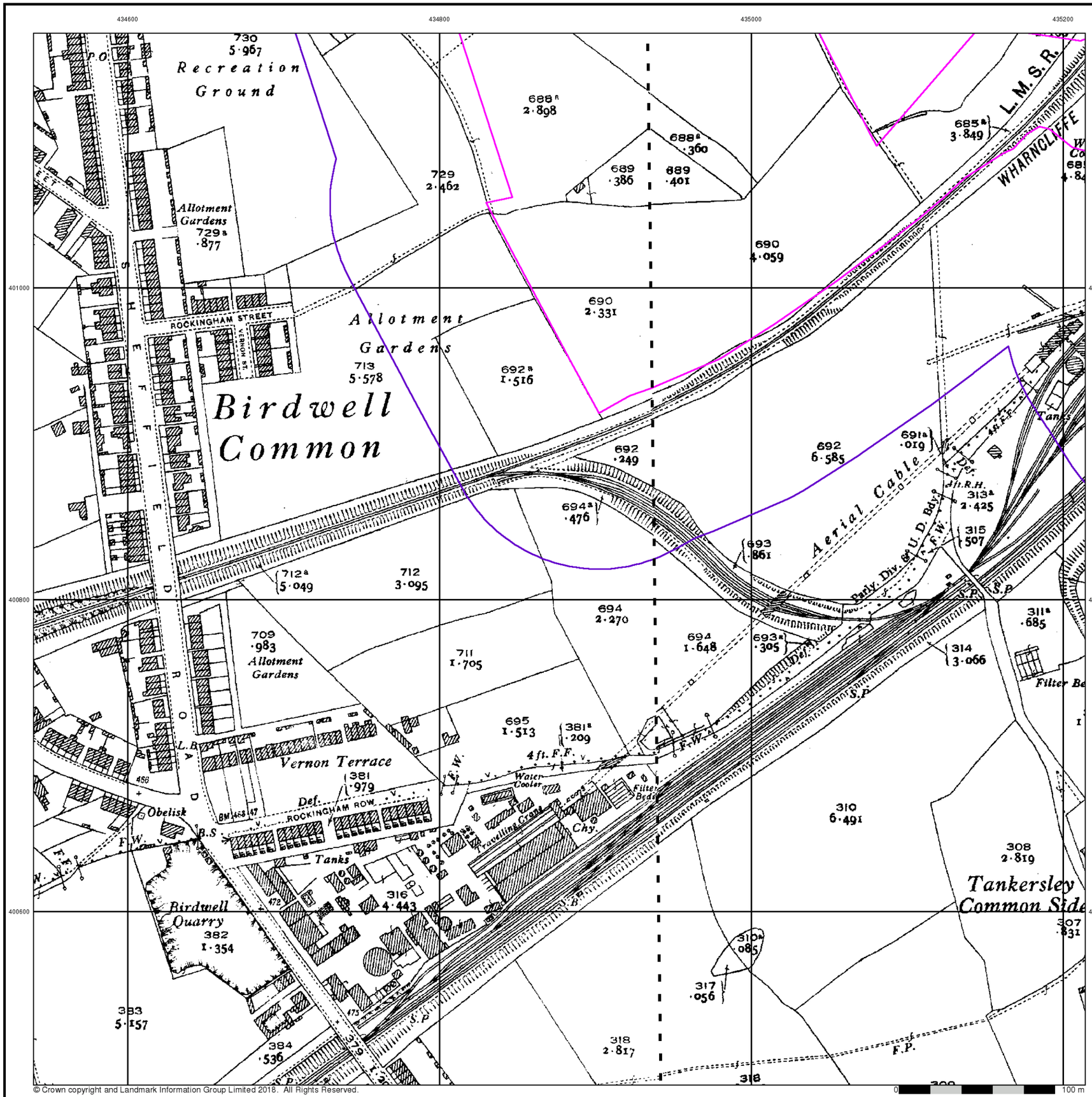
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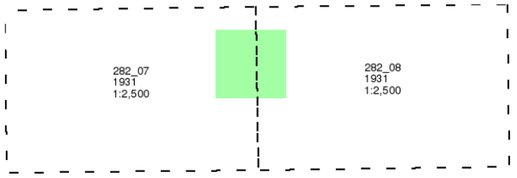
Yorkshire

Published 1931

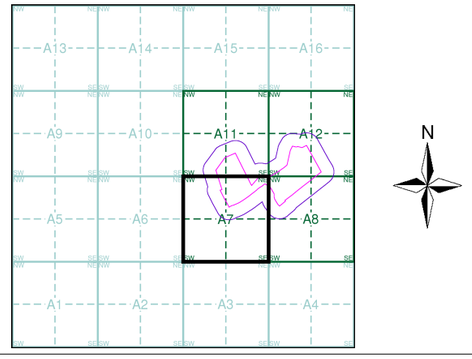
Source map scale - 1:2,500

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 A7



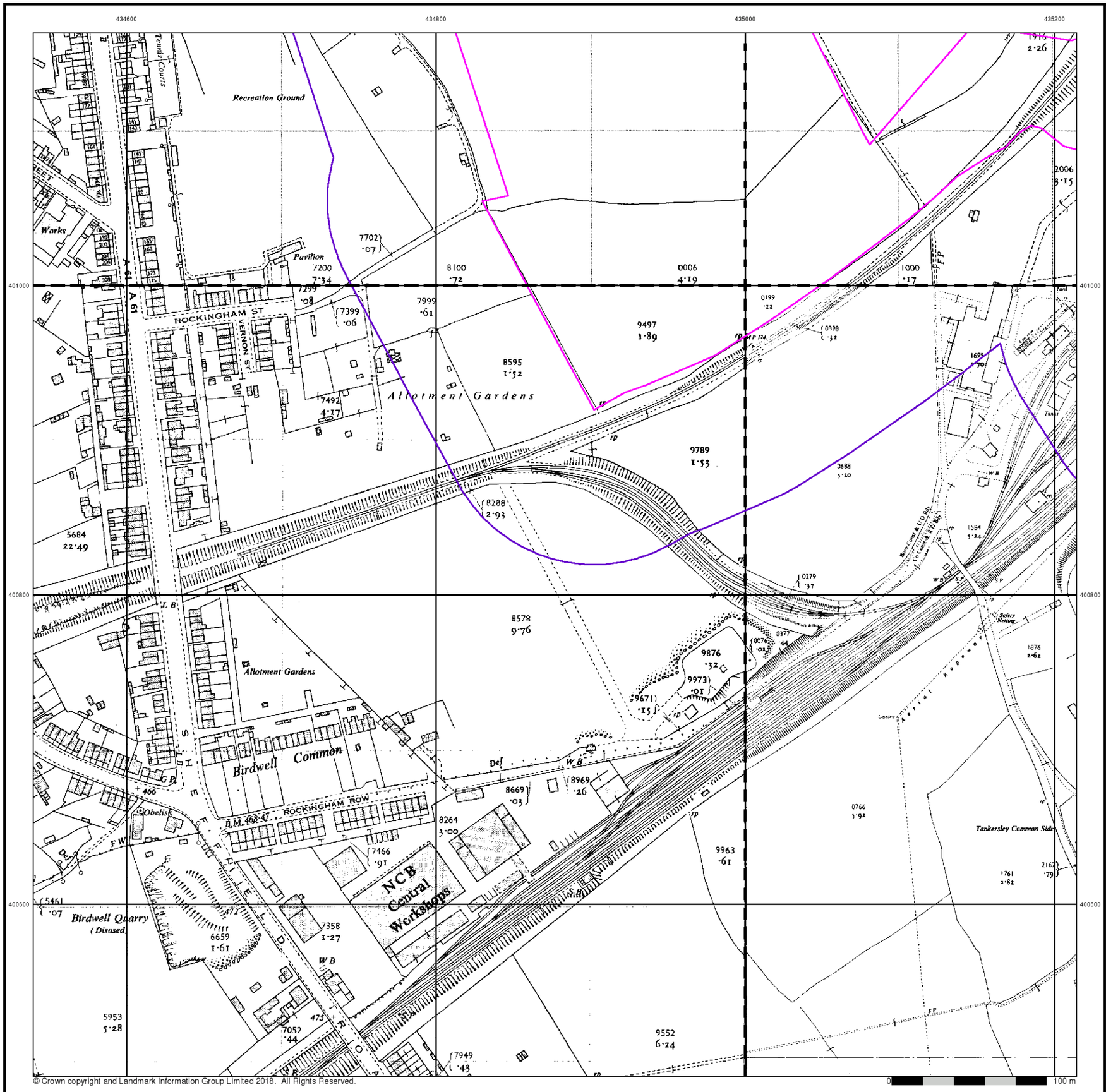
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Ordnance Survey Plan

Published 1956 - 1962

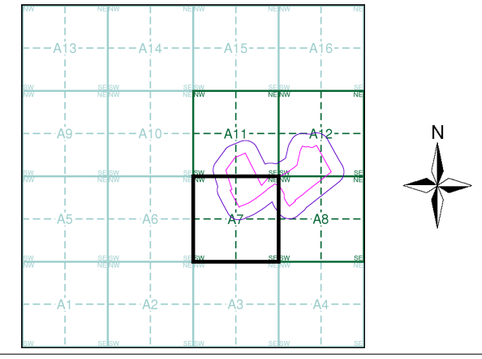
Source map scale - 1:2,500

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)

SE3401 1962 1:2,500	SE3501 1962 1:2,500
SE3400 1957 1:2,500	SE3500 1956 1:2,500

Historical Map - Segment A7



Order Details

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Ordnance Survey Plan

Published 1956

Source map scale - 1:1,250

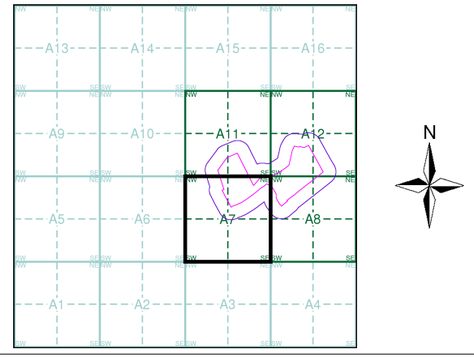
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)

SE3500NW
1956
1:1,250

SE3500SW
1956
1:1,250

Historical Map - Segment A7



Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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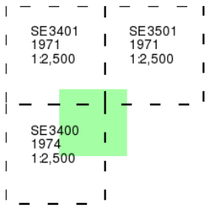
Ordnance Survey Plan

Published 1971 - 1974

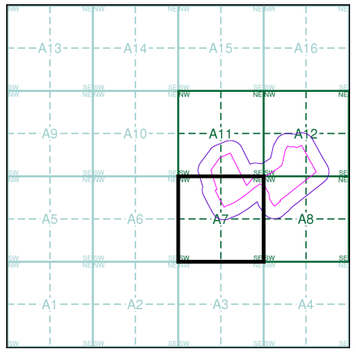
Source map scale - 1:2,500

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 A7



Order Details

Order Number:	182024082_1_1
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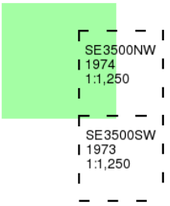
Ordnance Survey Plan

Published 1973 - 1974

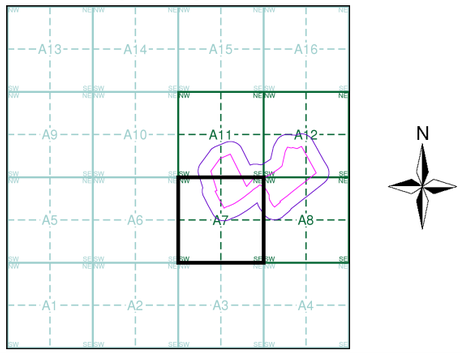
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A7



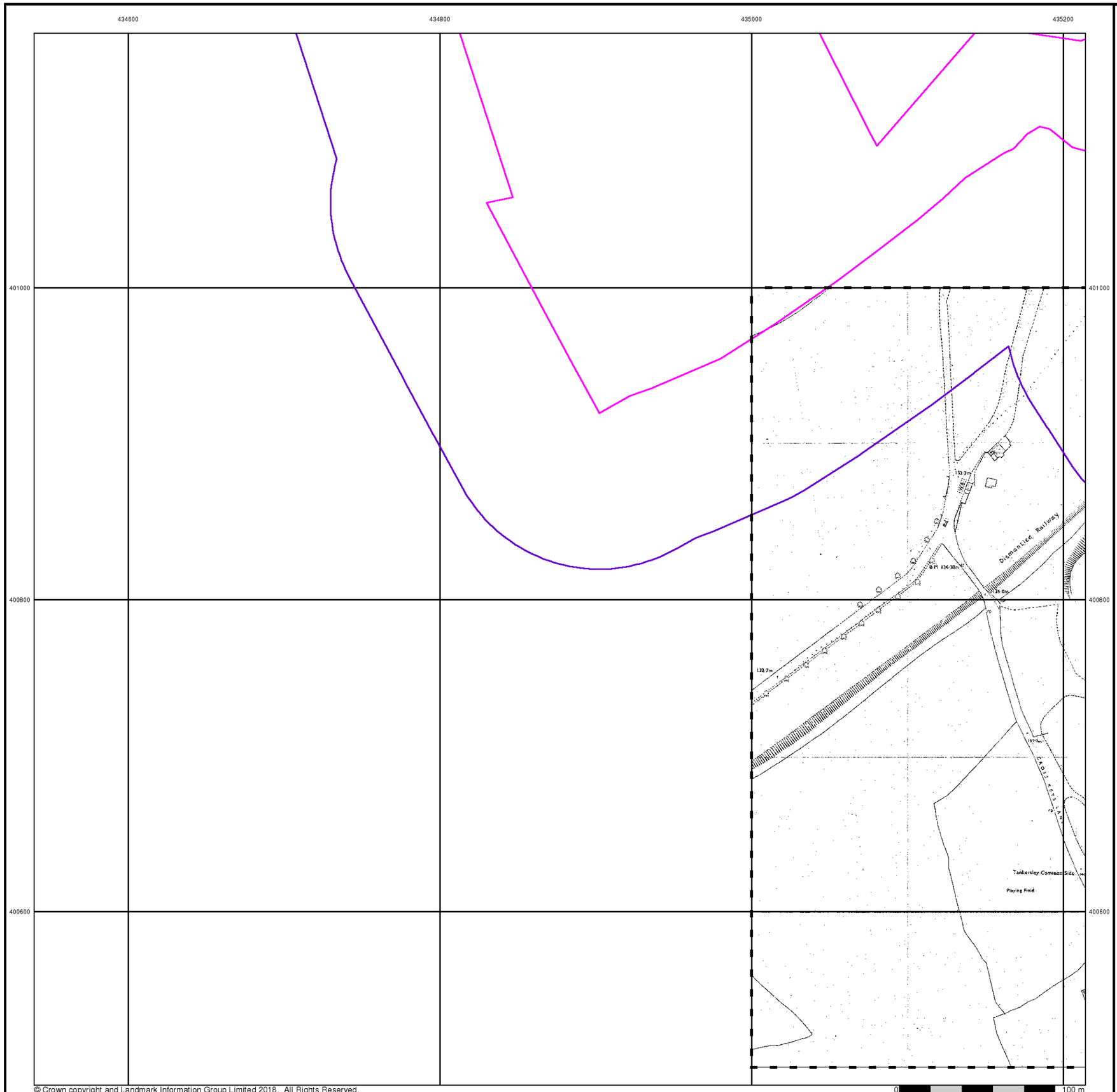
Order Details

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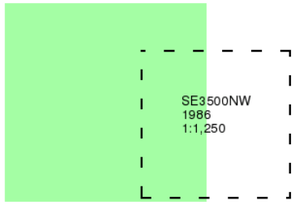
Additional SIMs

Published 1986

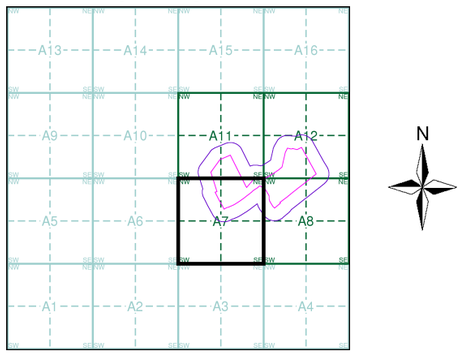
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

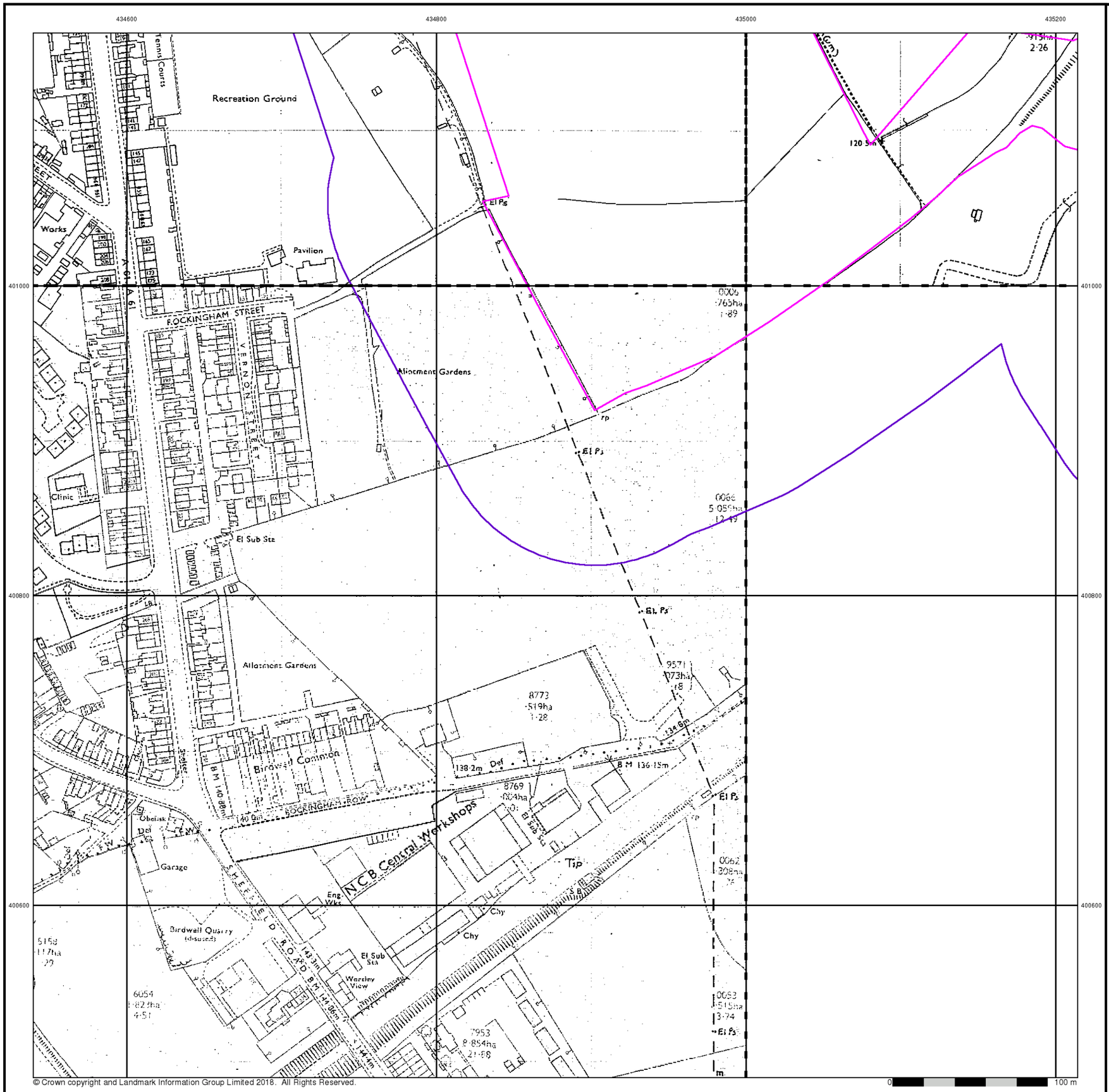
Order Number:	182024082_1_1
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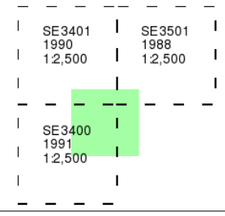
Additional SIMs

Published 1988 - 1991

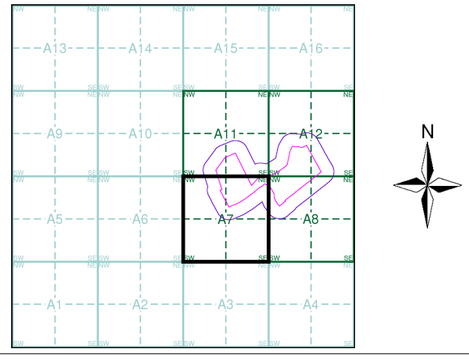
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7

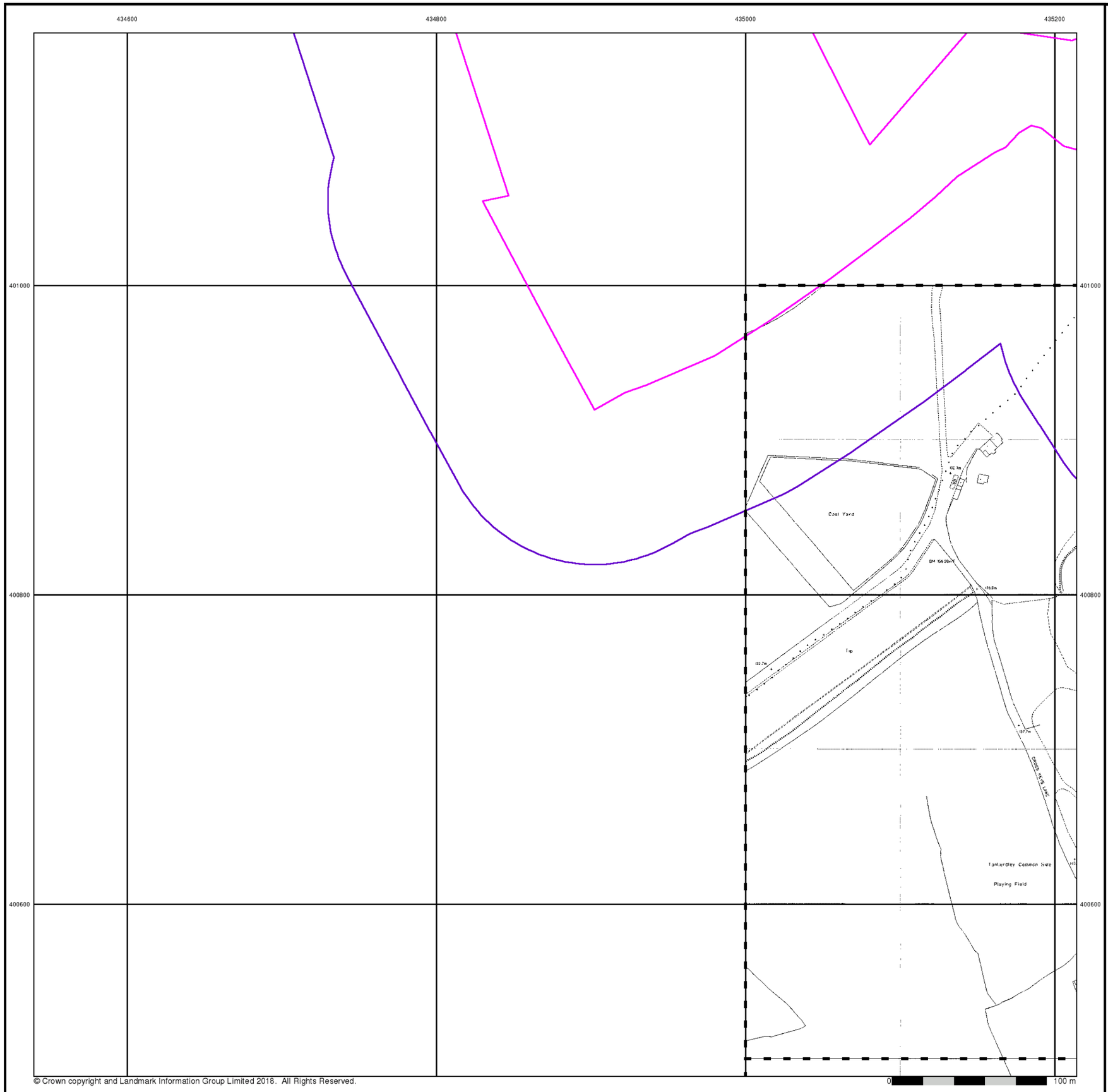


Order Details

Order Number:	182024082_1_1
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National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

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Large-Scale National Grid Data

Published 1993

Source map scale - 1:1,250

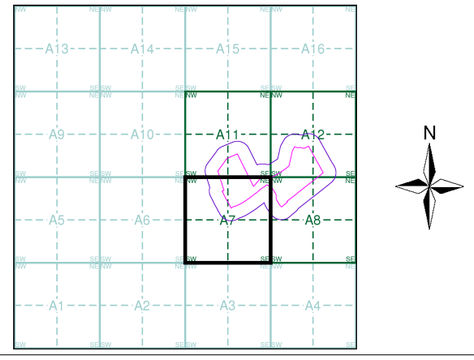
'Large Scale National Grid Data' superseded SIM cards (Ordnance Survey's 'Survey of Information on Microfilm') in 1992, and continued to be produced until 1999. These maps were the fore-runners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic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

Map Name(s) and Date(s)

SE3500NW
1993
1:1,250

SE3500SW
1993
1:1,250

Historical Map - Segment A7



Order Details

Order Number:	182024082_1_1
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Search Buffer (m):	100

Site Details

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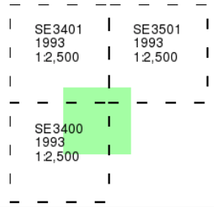
Large-Scale National Grid Data

Published 1993

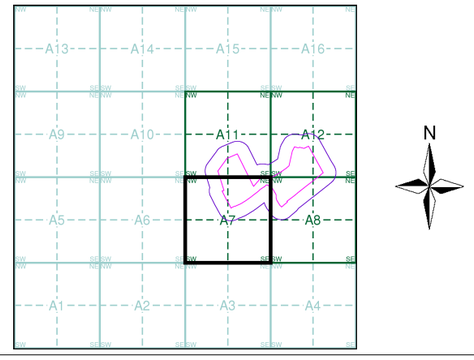
Source map scale - 1:2,500

'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 A7



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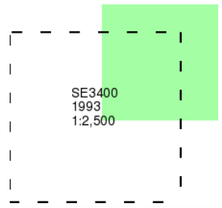
Large-Scale National Grid Data

Published 1993

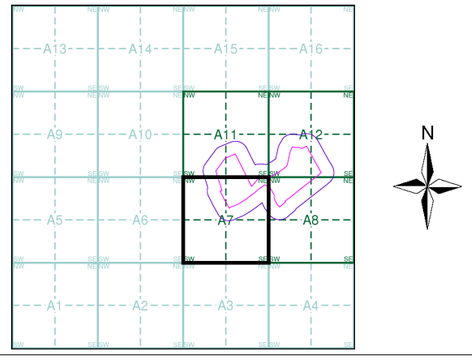
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A7



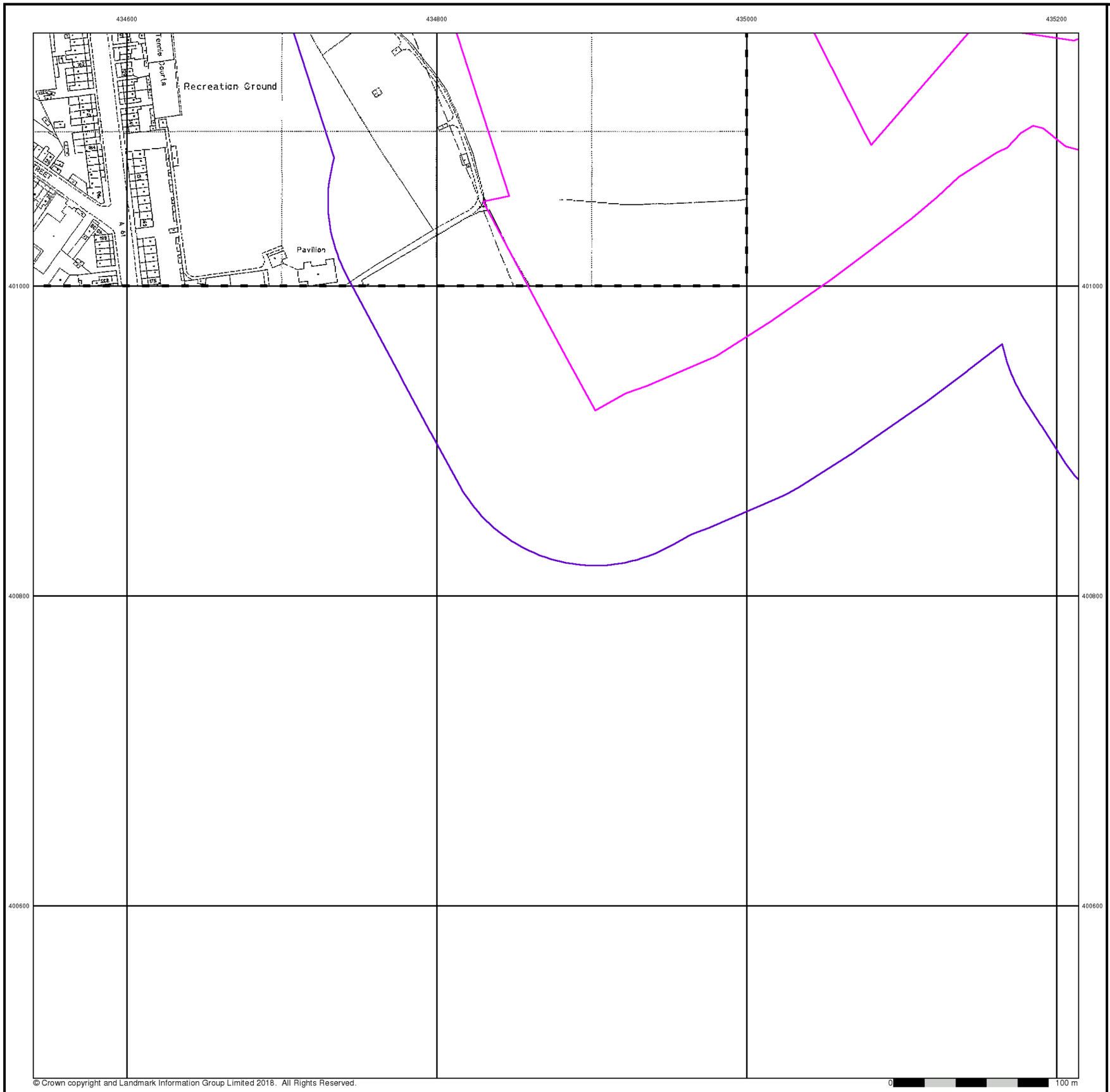
Order Details

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0 100 m

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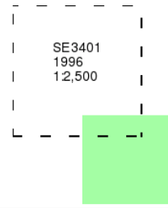
Large-Scale National Grid Data

Published 1996

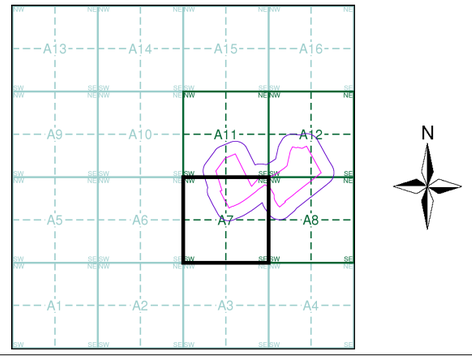
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A7



Order Details

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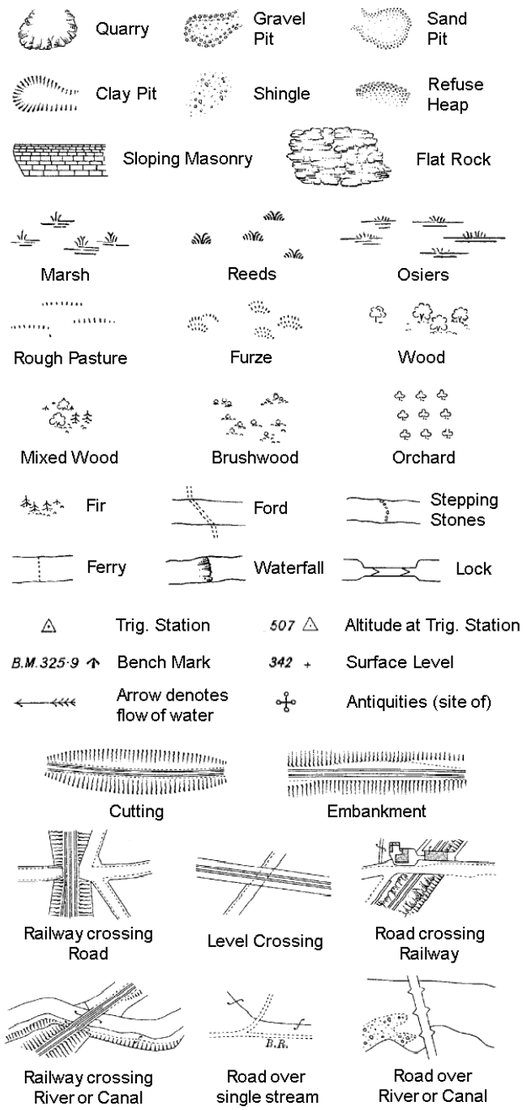
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

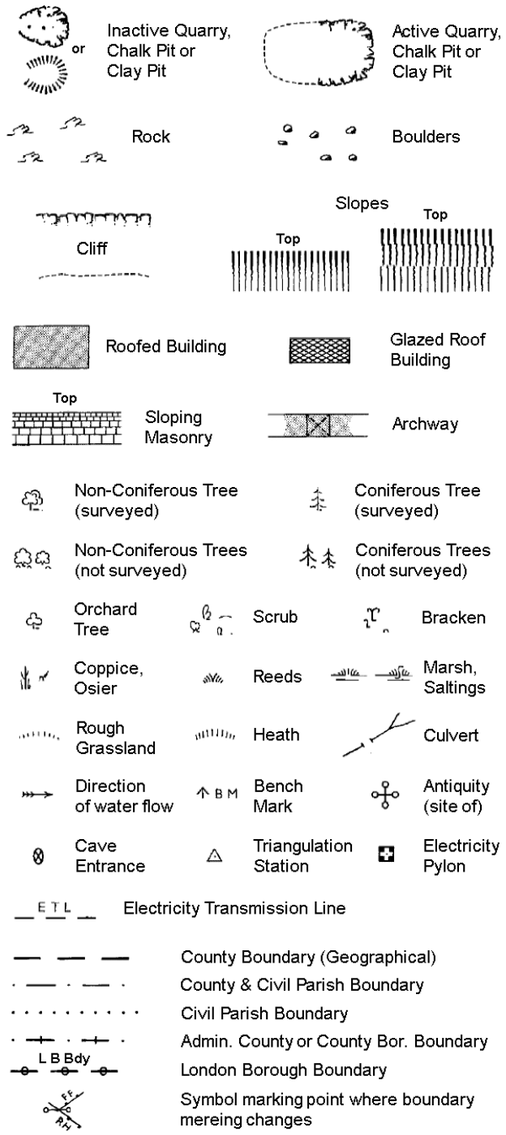
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

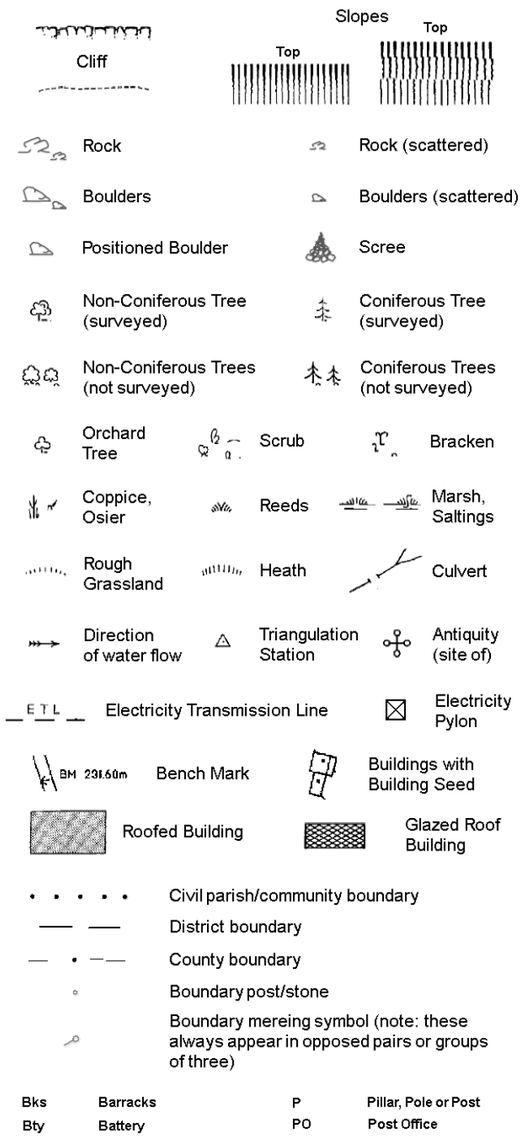
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

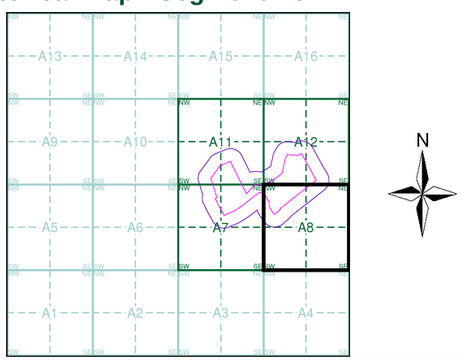
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

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Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1905	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1956 - 1962	5
Ordnance Survey Plan	1:1,250	1956	6
Additional SIMs	1:1,250	1956 - 1986	7
Ordnance Survey Plan	1:2,500	1971	8
Ordnance Survey Plan	1:1,250	1972 - 1974	9
Additional SIMs	1:2,500	1988	10
Large-Scale National Grid Data	1:2,500	1993	11
Large-Scale National Grid Data	1:1,250	1993	12

Historical Map - Segment A8



Order Details

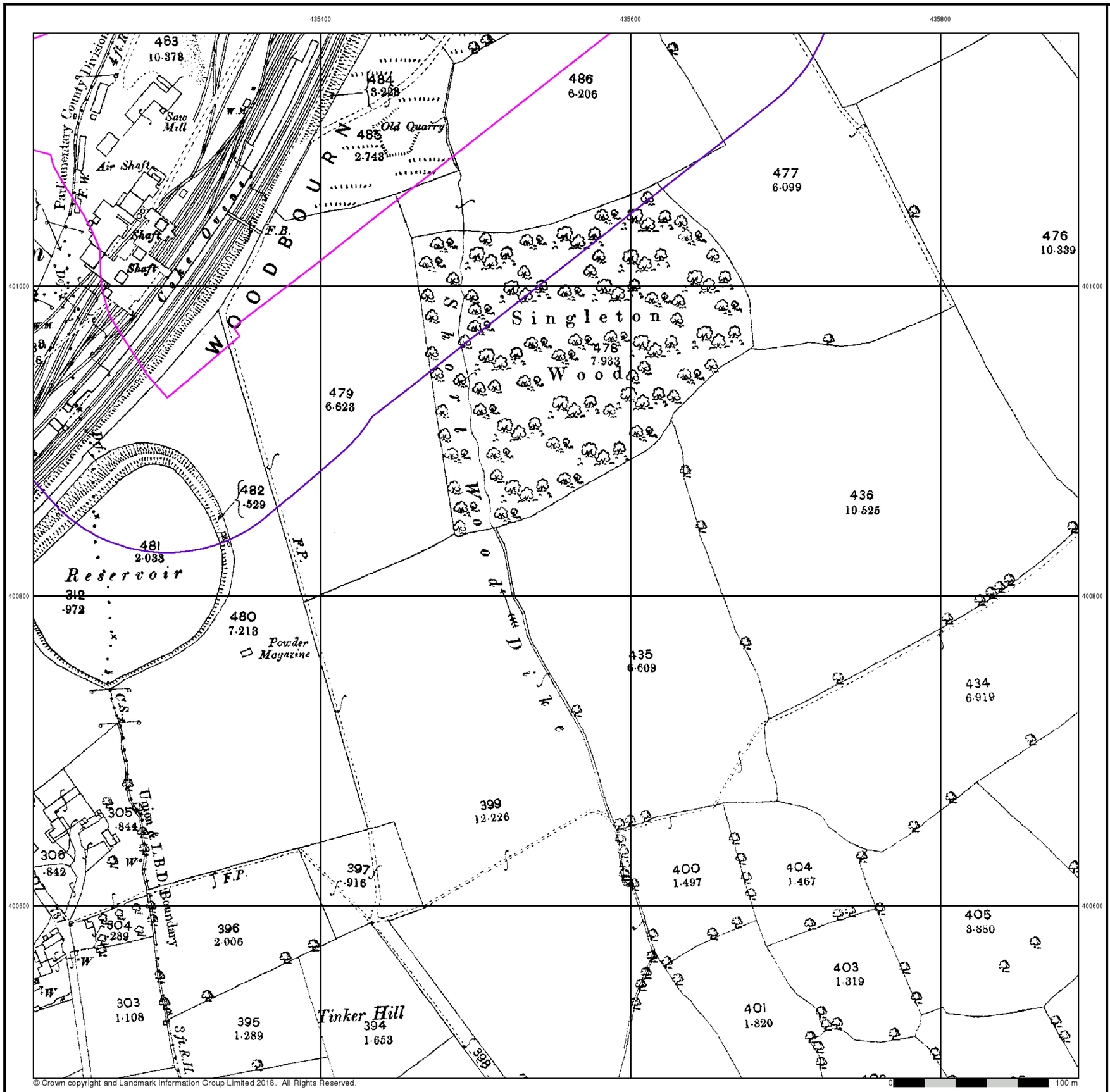
Order Number:	182024082_1_1
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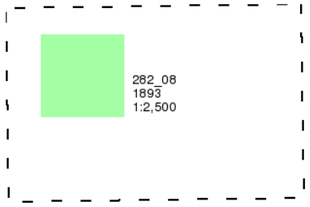
Yorkshire

Published 1893

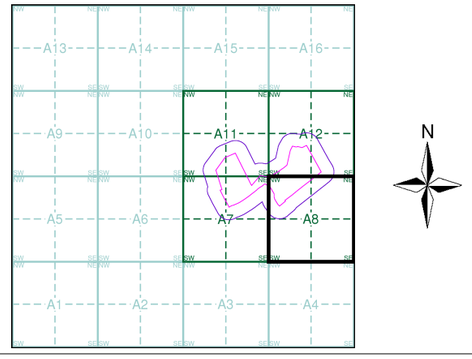
Source map scale - 1:2,500

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 A8



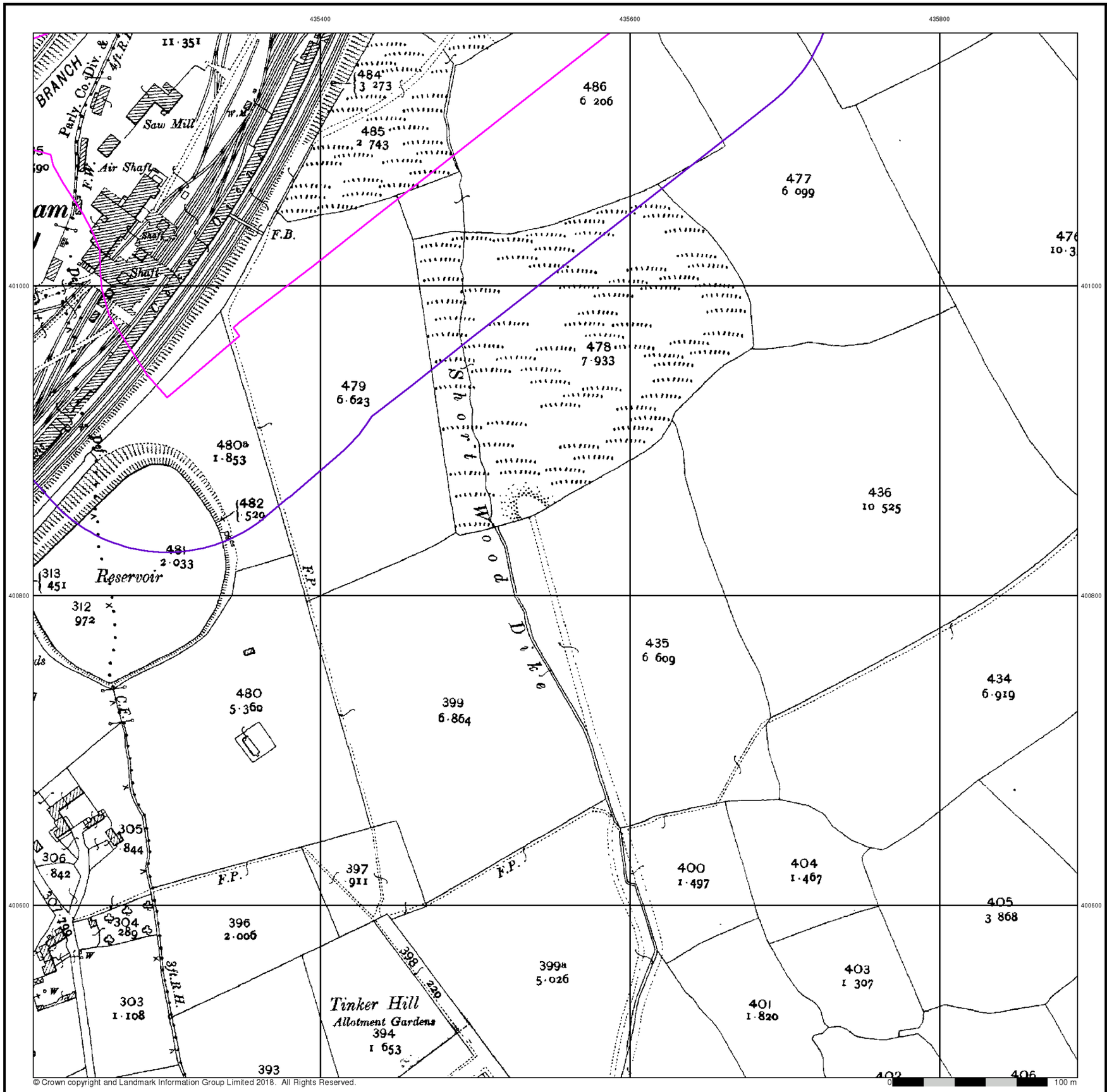
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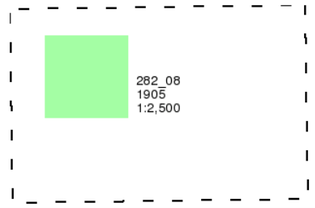
Yorkshire

Published 1905

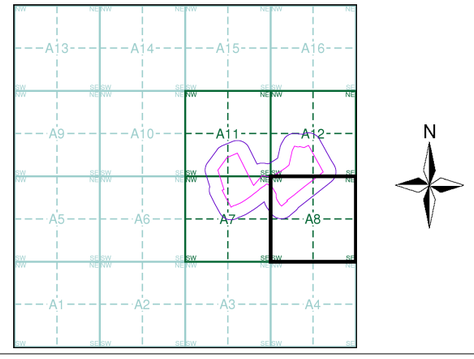
Source map scale - 1:2,500

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 A8



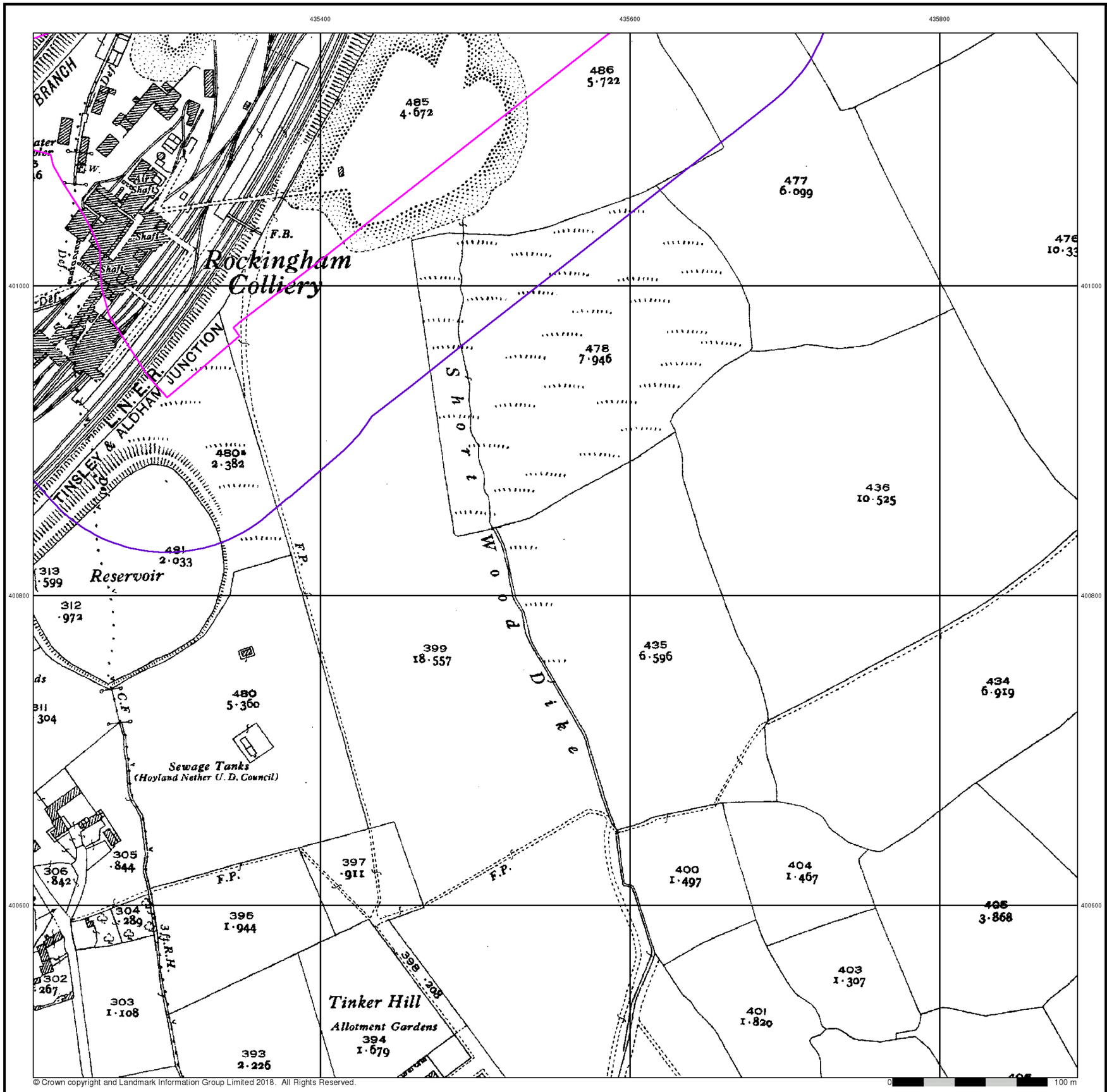
Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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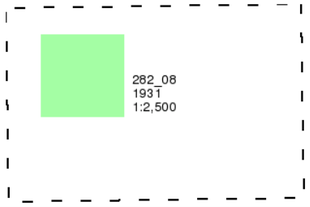
Yorkshire

Published 1931

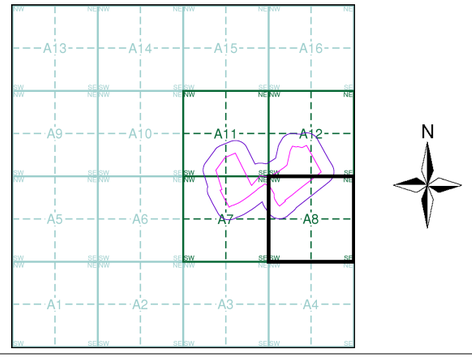
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

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435400 435600 435800

401000

400800

400600

Mine

Rockingham Colliery

Reservoir

Pond

Allotment Gardens

Pump House

Tank

Overflow

Crane

Water

Chy

Def

FP

TH

FF

RH

BM 416·18

5800 21·75

4590 21·40

7086 1·48

6481 2·92

5279 1·02

5976 4·04

8173 1·25

3469 4·11

3464 ·84

2765 ·84

4262 ·98

6362 1·33

7163 3·05

8460 5·06

3559 1·99

5657 5·34

7156 ·53

2355 ·25

2754 1·39

6853 1·73

8750 3·25

3751 2·92

3081 2·16

2480 1·13

2896 1·53

8087 4·67

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0 100 m

Ordnance Survey Plan

Published 1956 - 1962

Source map scale - 1:2,500

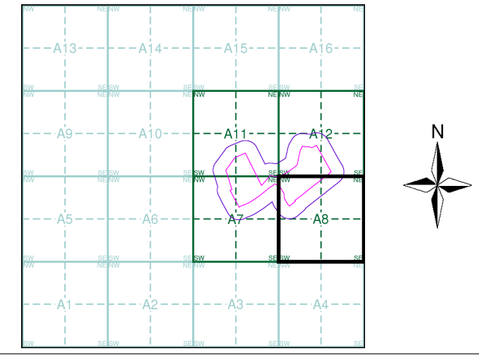
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

SE3501
1962
1:2,500

SE3500
1956
1:2,500

Historical Map - Segment A8



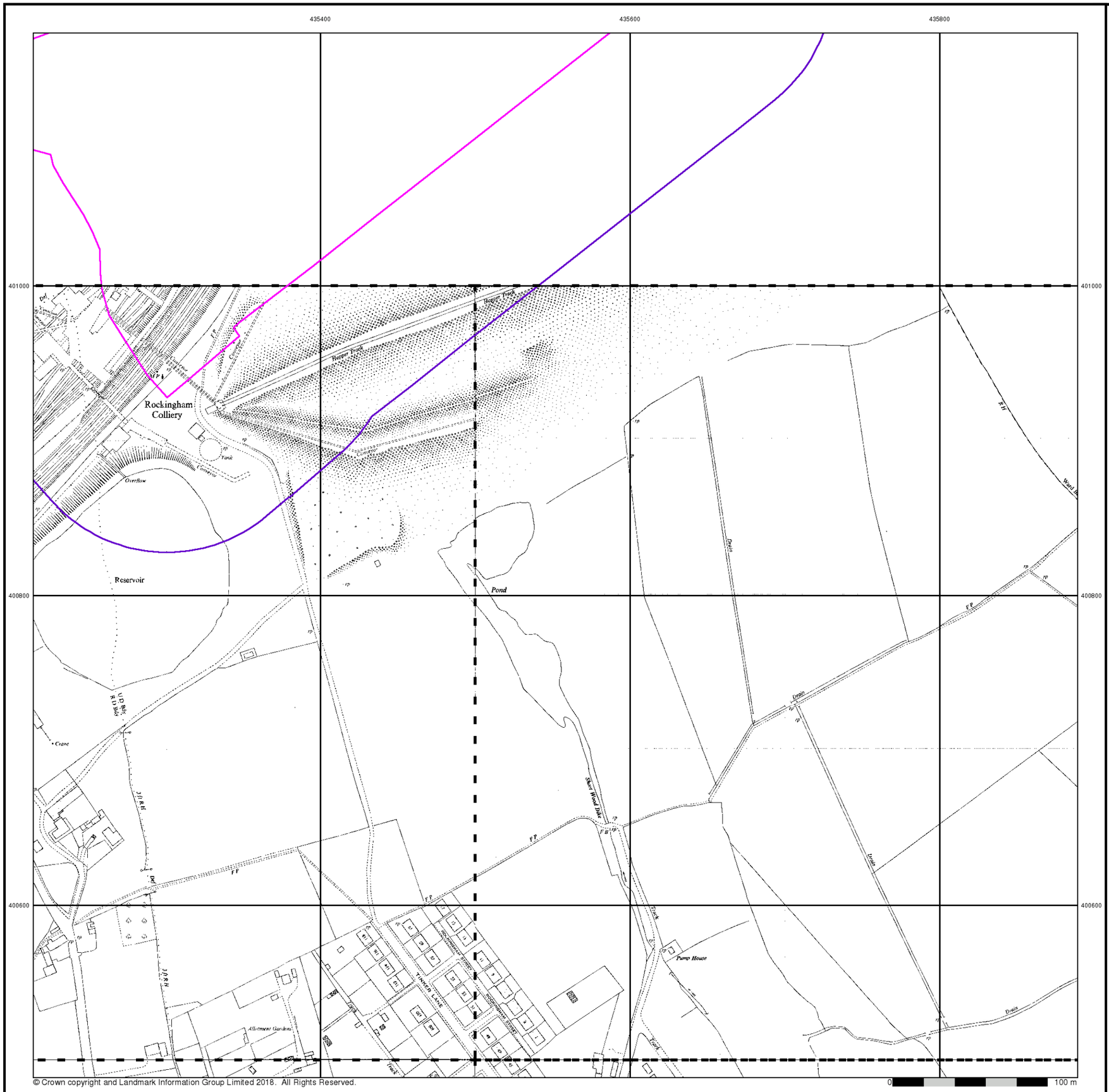
Order Details

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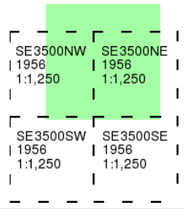
Ordnance Survey Plan

Published 1956

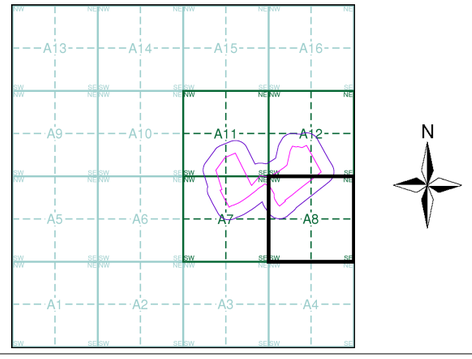
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

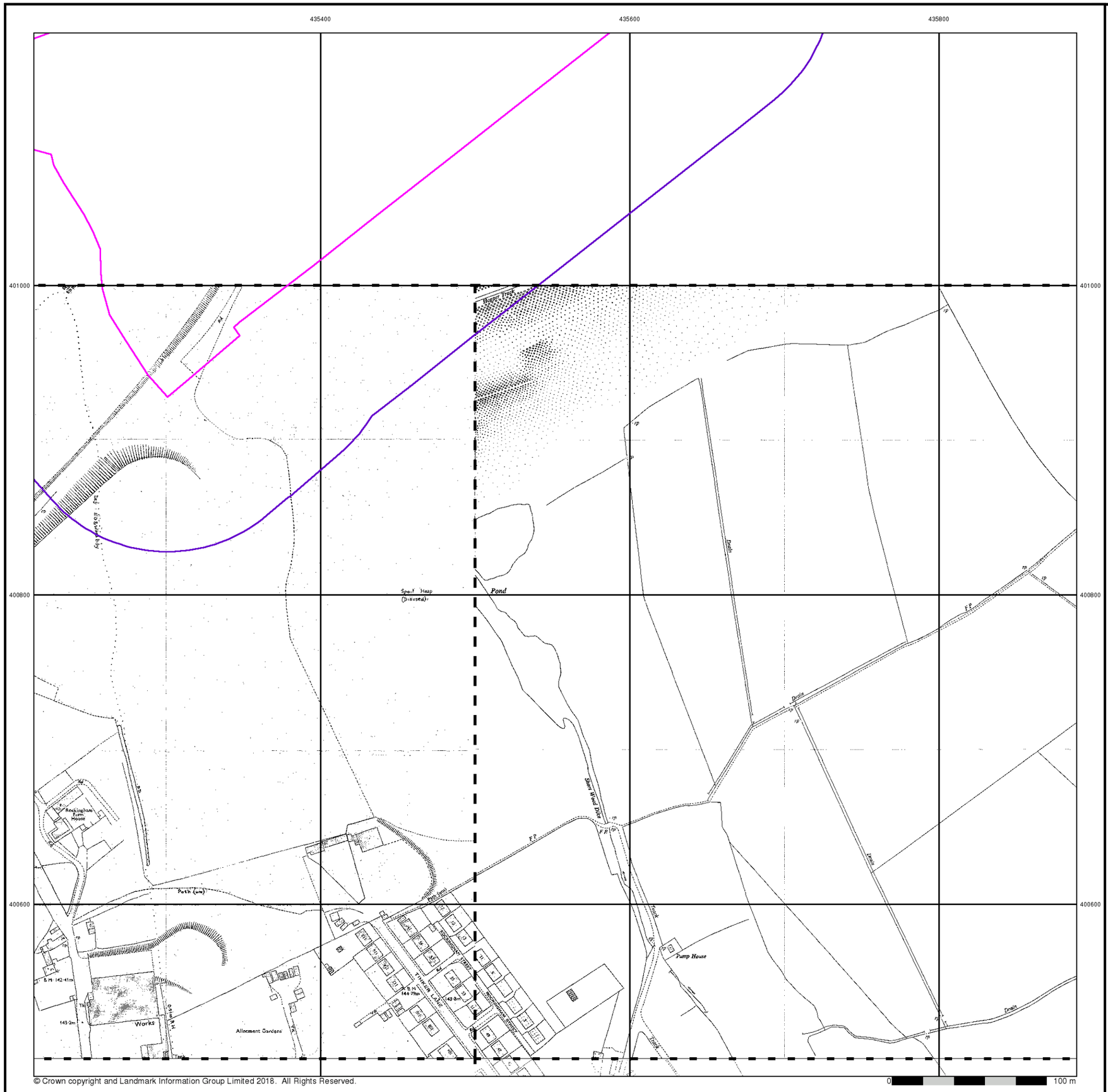
Order Number:	182024082_1_1
Customer Ref:	322494
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Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

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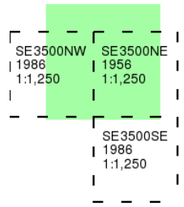
Additional SIMs

Published 1956 - 1986

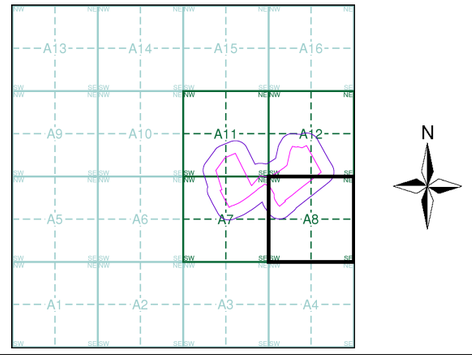
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A8



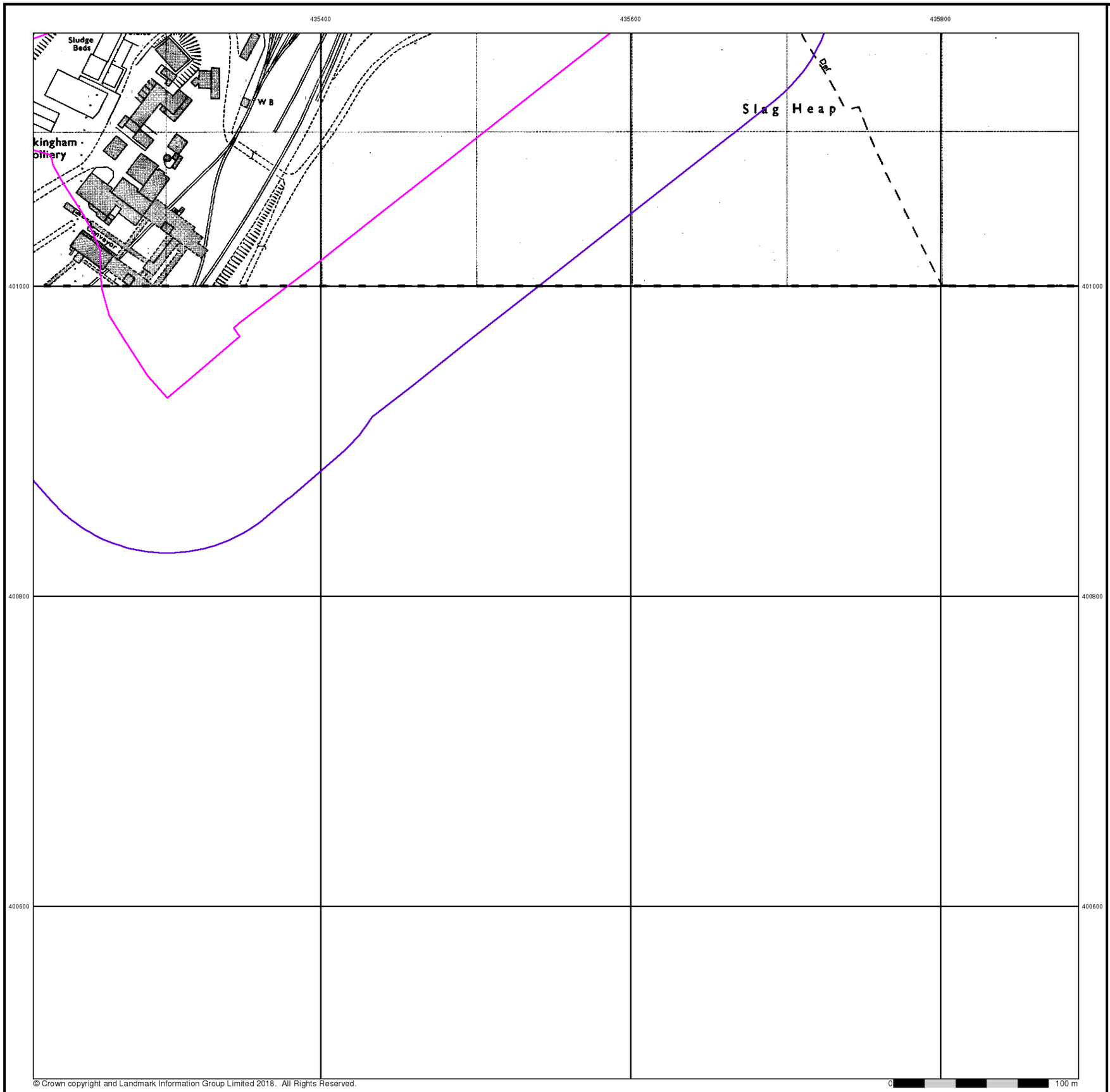
Order Details

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Site Details

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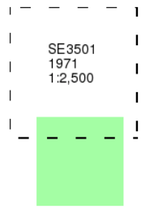
Ordnance Survey Plan

Published 1971

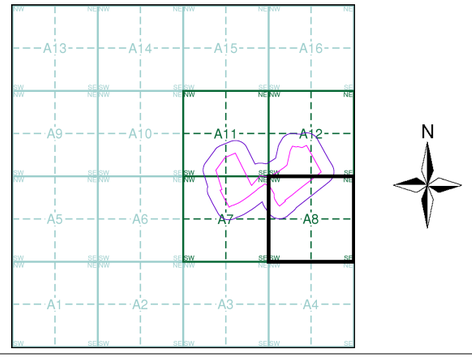
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



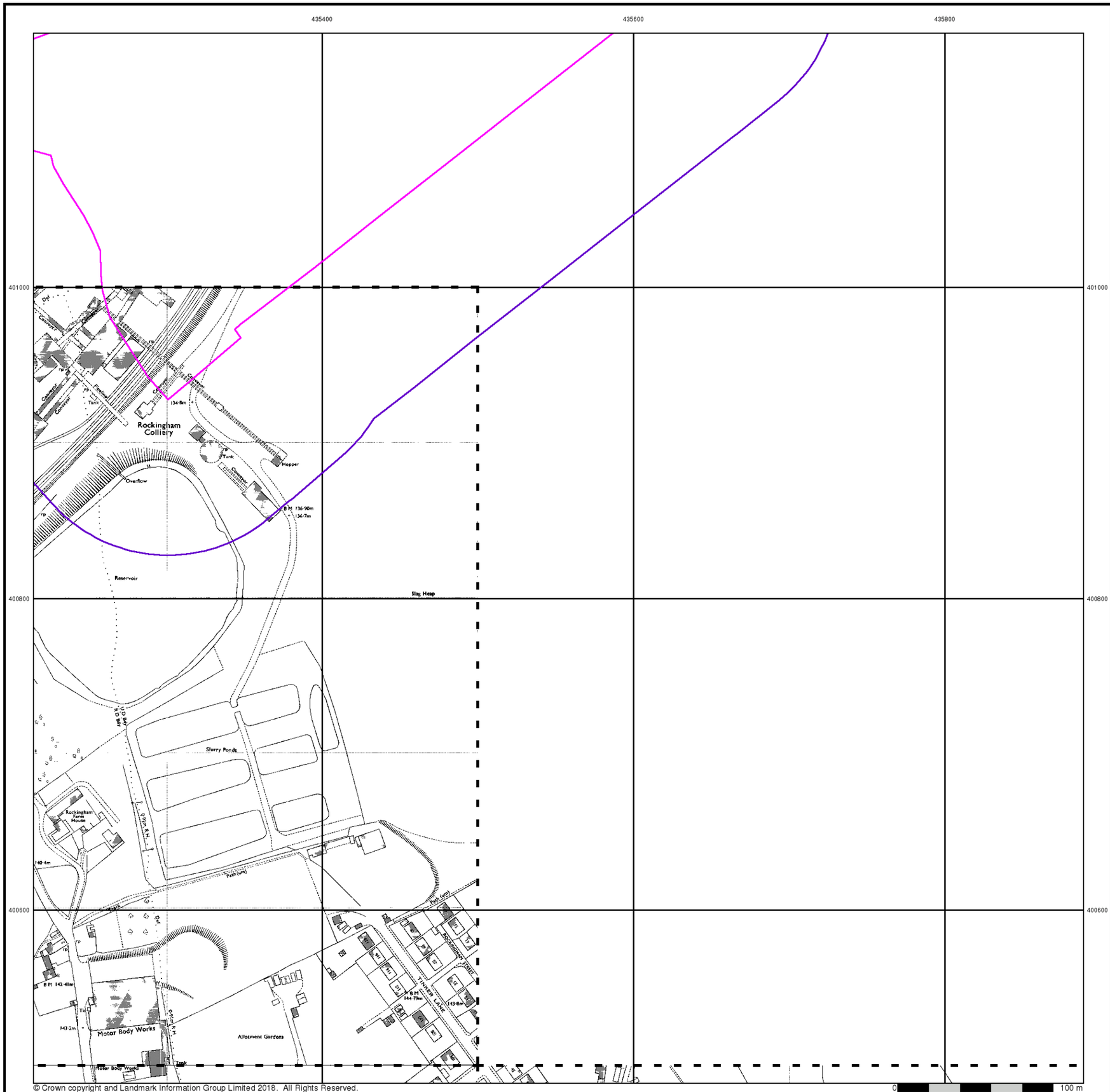
Order Details

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Slice:	A
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Site Details

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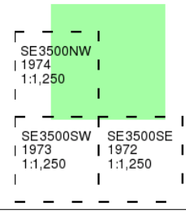
Ordnance Survey Plan

Published 1972 - 1974

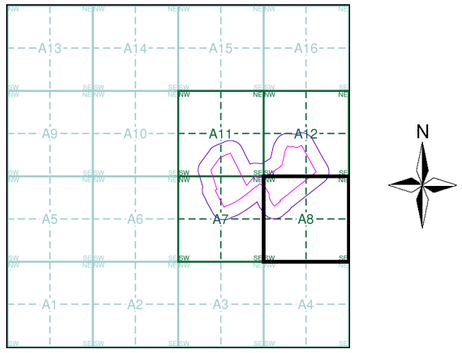
Source map scale - 1:1,250

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

Map Name(s) and Date(s)



Historical Map - Segment A8



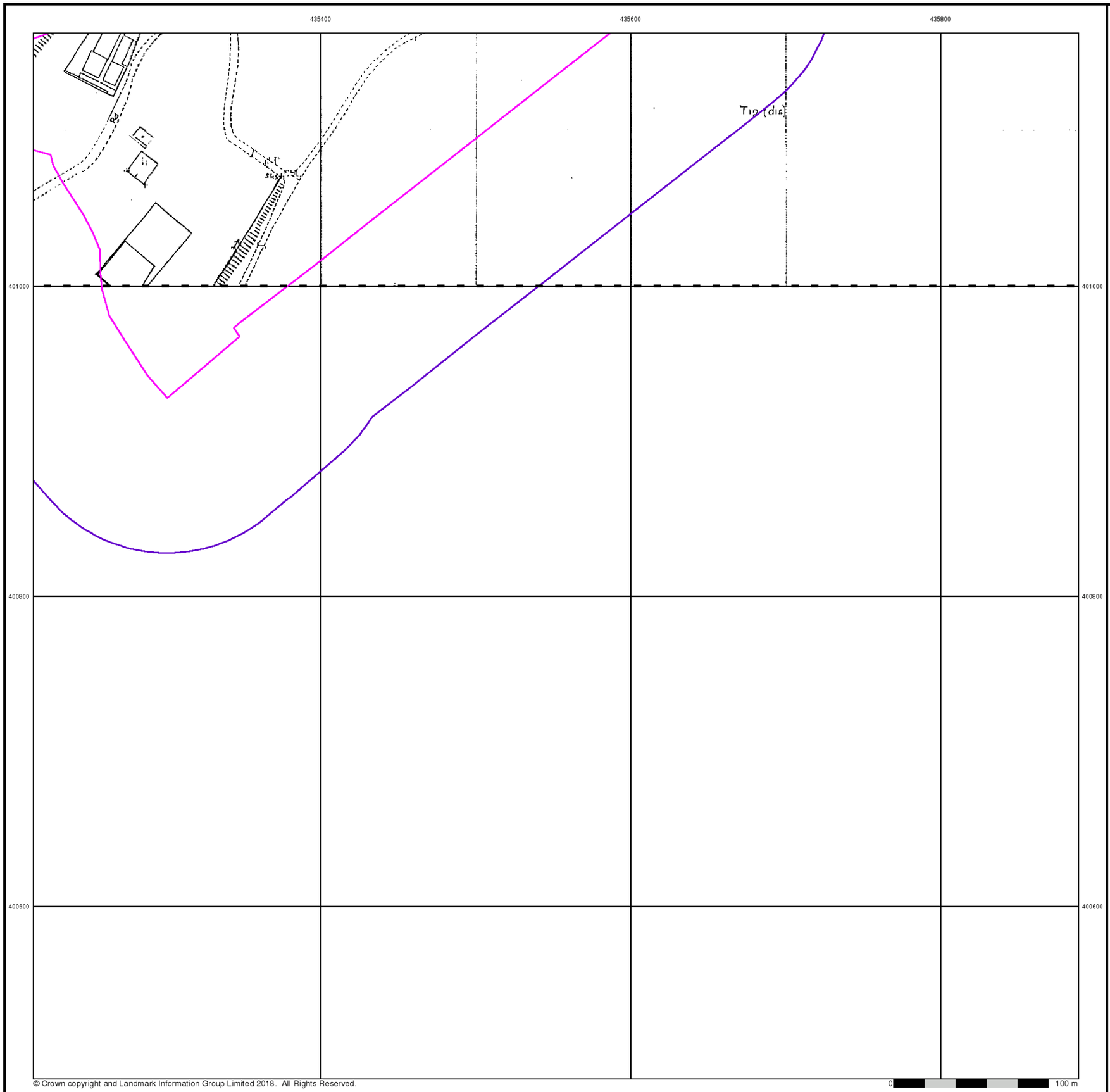
Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

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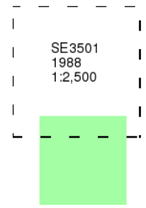
Additional SIMs

Published 1988

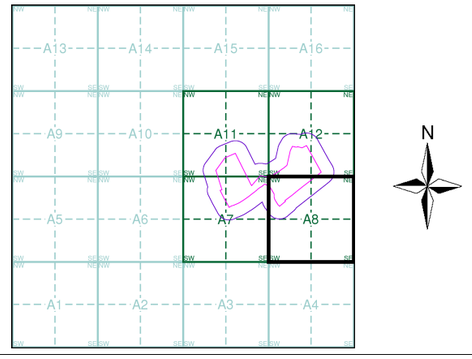
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A8



Order Details

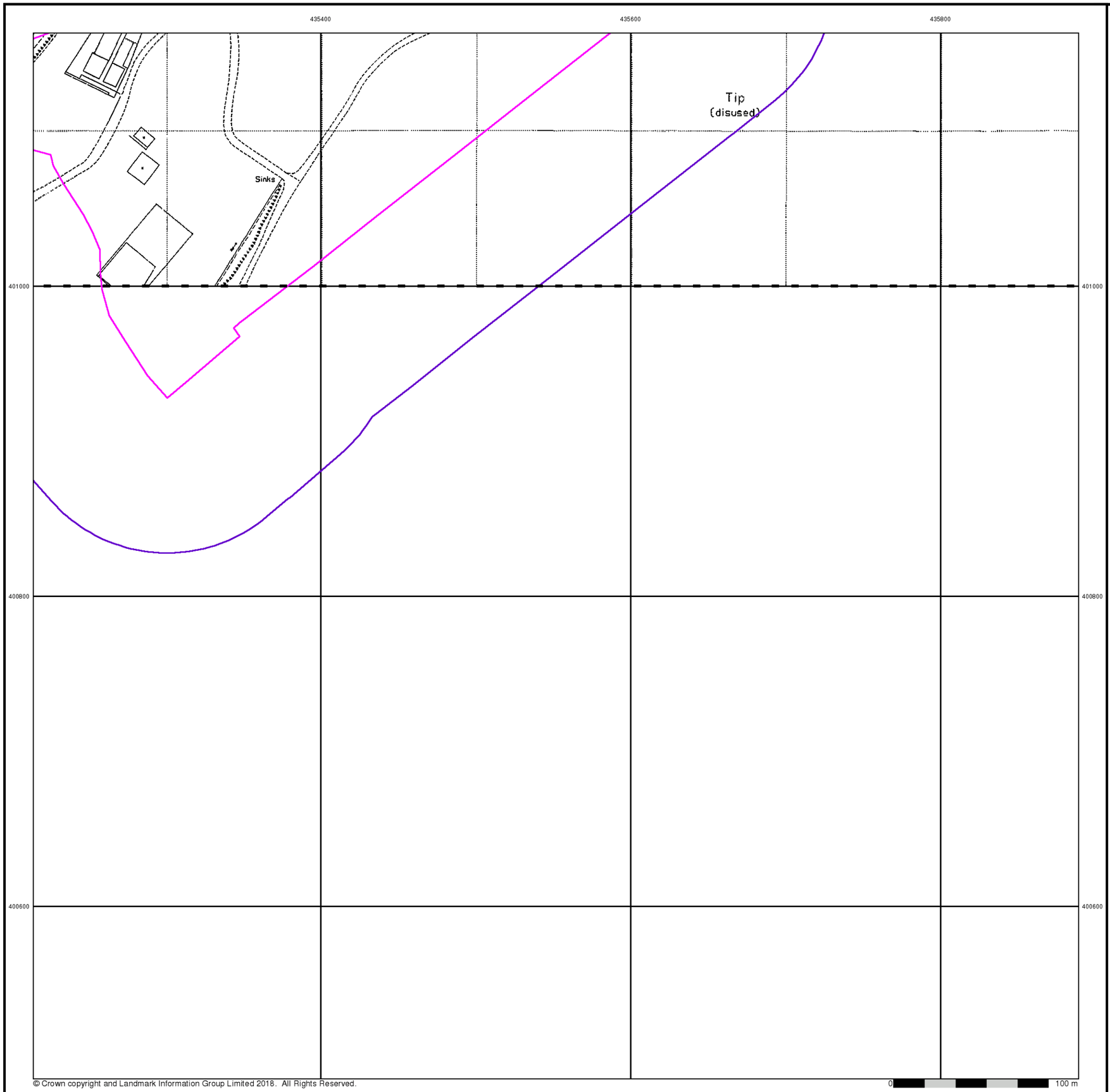
Order Number:	182024082_1_1
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National Grid Reference:	434950, 401150
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Site Details

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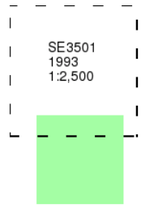
Large-Scale National Grid Data

Published 1993

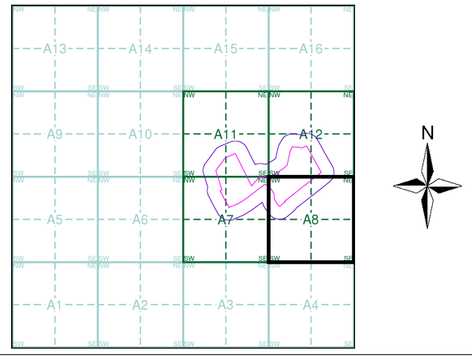
Source map scale - 1:2,500

'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 A8



Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
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Slice:	A
Site Area (Ha):	18.59
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Site Details

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435400 435600 435800

401000 401000

400800 400800

400600 400600

Tip (disused)

Tip (disused)

Tip (disused)

Rockingstone Farm House

Works

Allotment Gardens

Hoyland Common

Pump House

Allotment Gardens

Hoyland Common

Sinks

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0 100 m

Large-Scale National Grid Data

Published 1993

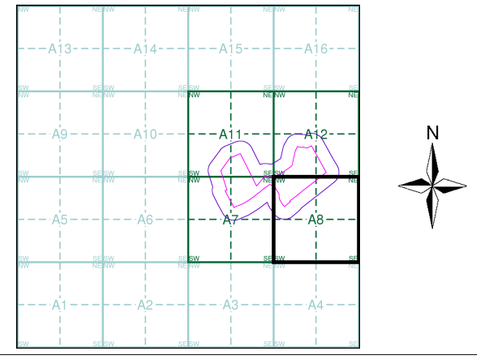
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SE3500NW 1993 1:1,250
SE3500NE 1993 1:1,250
SE3500SW 1993 1:1,250
SE3500SE 1993 1:1,250

Historical Map - Segment A8



Order Details

Order Number:	182024082_1_1
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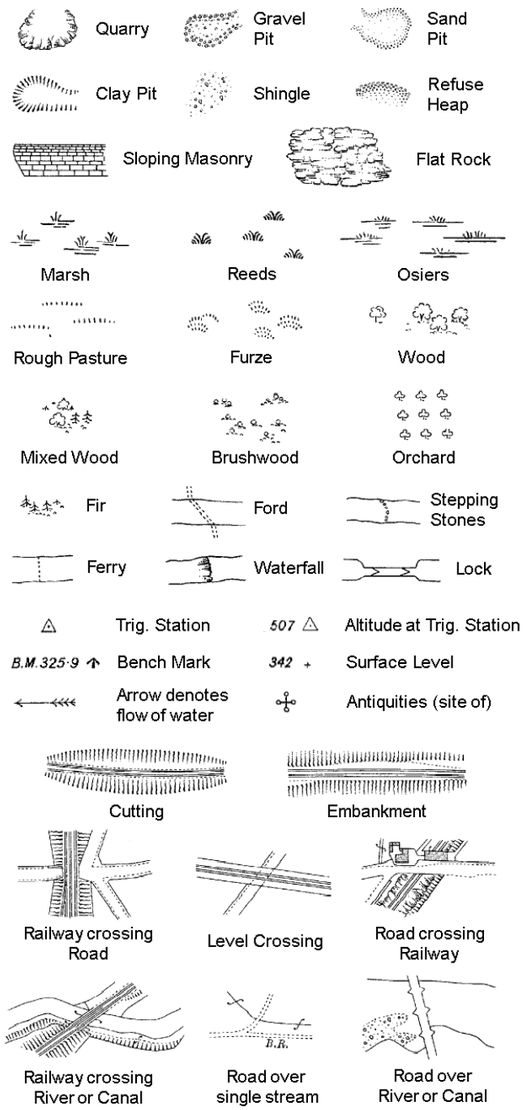
Site Details

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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

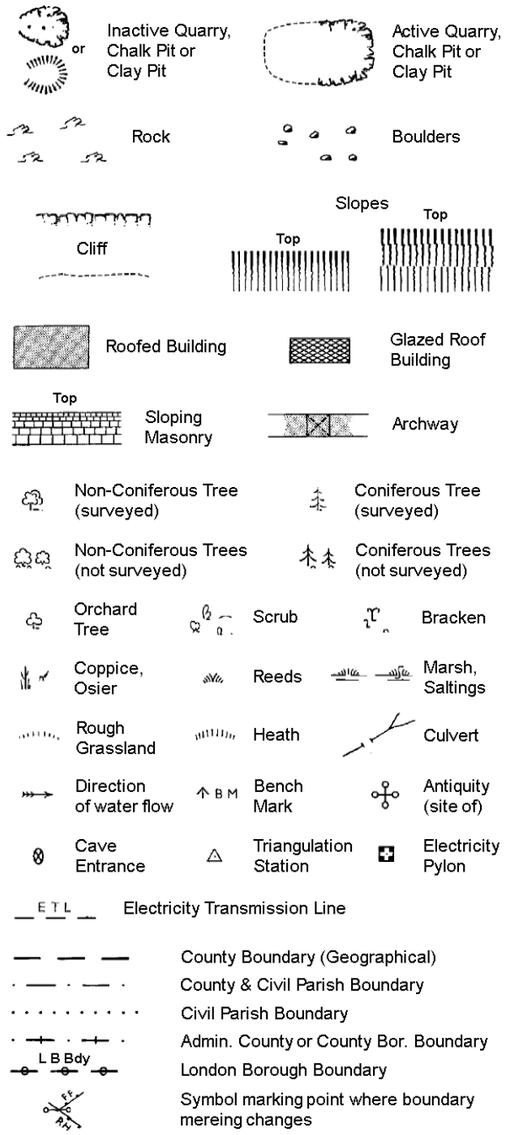
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

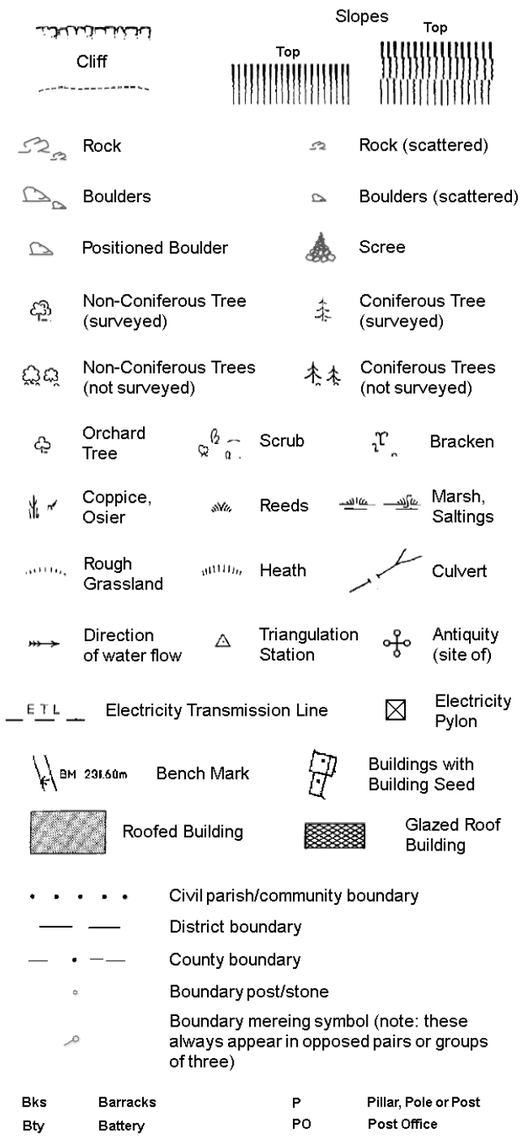
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

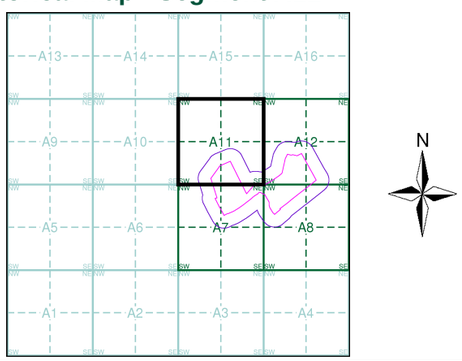
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1905 - 1906	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1971	6
Additional SIMs	1:2,500	1988 - 1990	7
Large-Scale National Grid Data	1:2,500	1993	8
Large-Scale National Grid Data	1:2,500	1996	9

Historical Map - Segment A11



Order Details

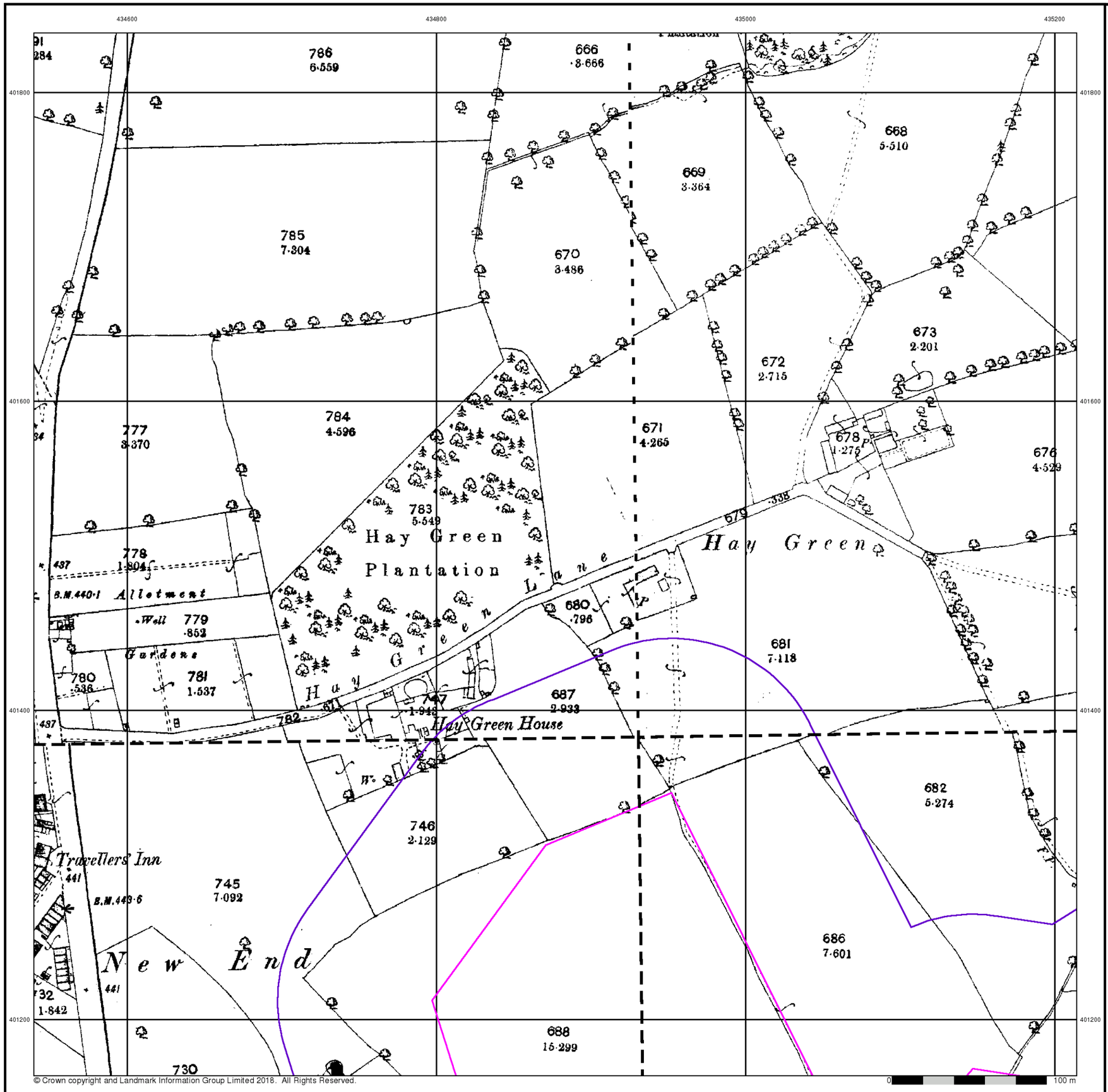
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Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

Landmark INFORMATION GROUP

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



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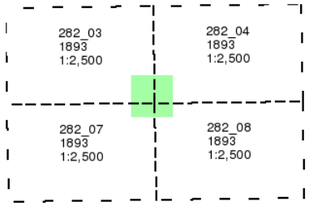
Yorkshire

Published 1893

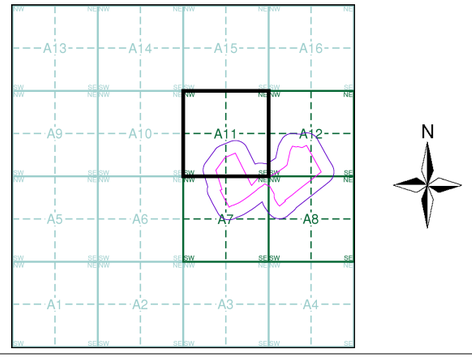
Source map scale - 1:2,500

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 A11



Order Details

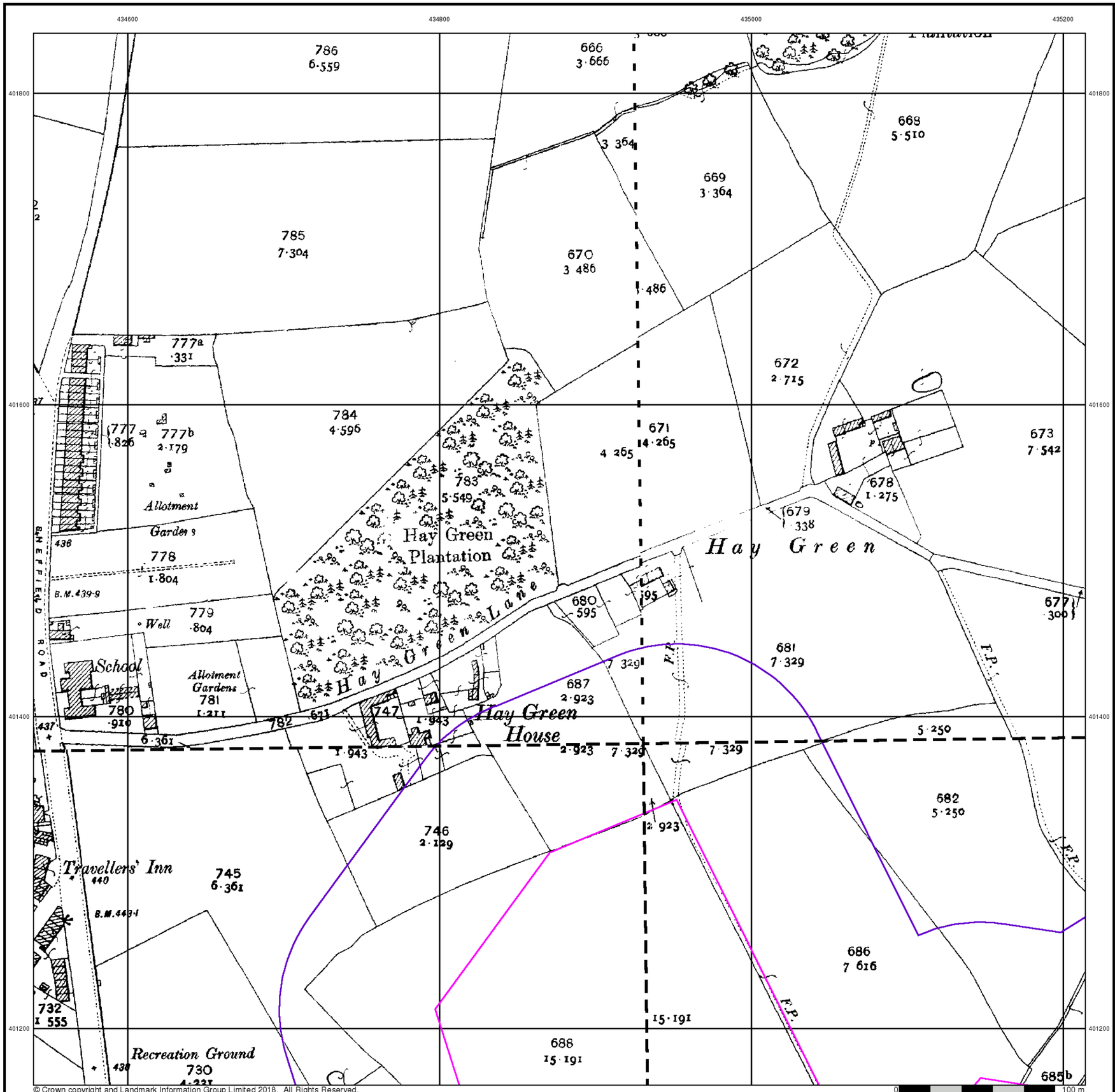
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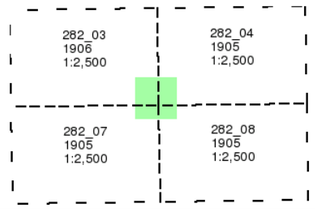
Yorkshire

Published 1905 - 1906

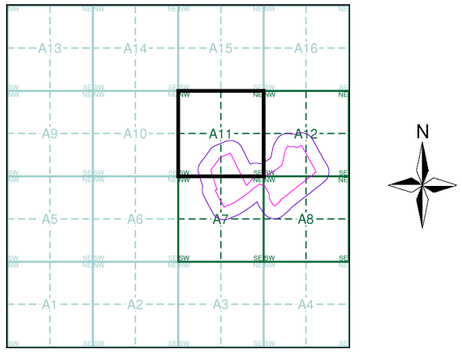
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

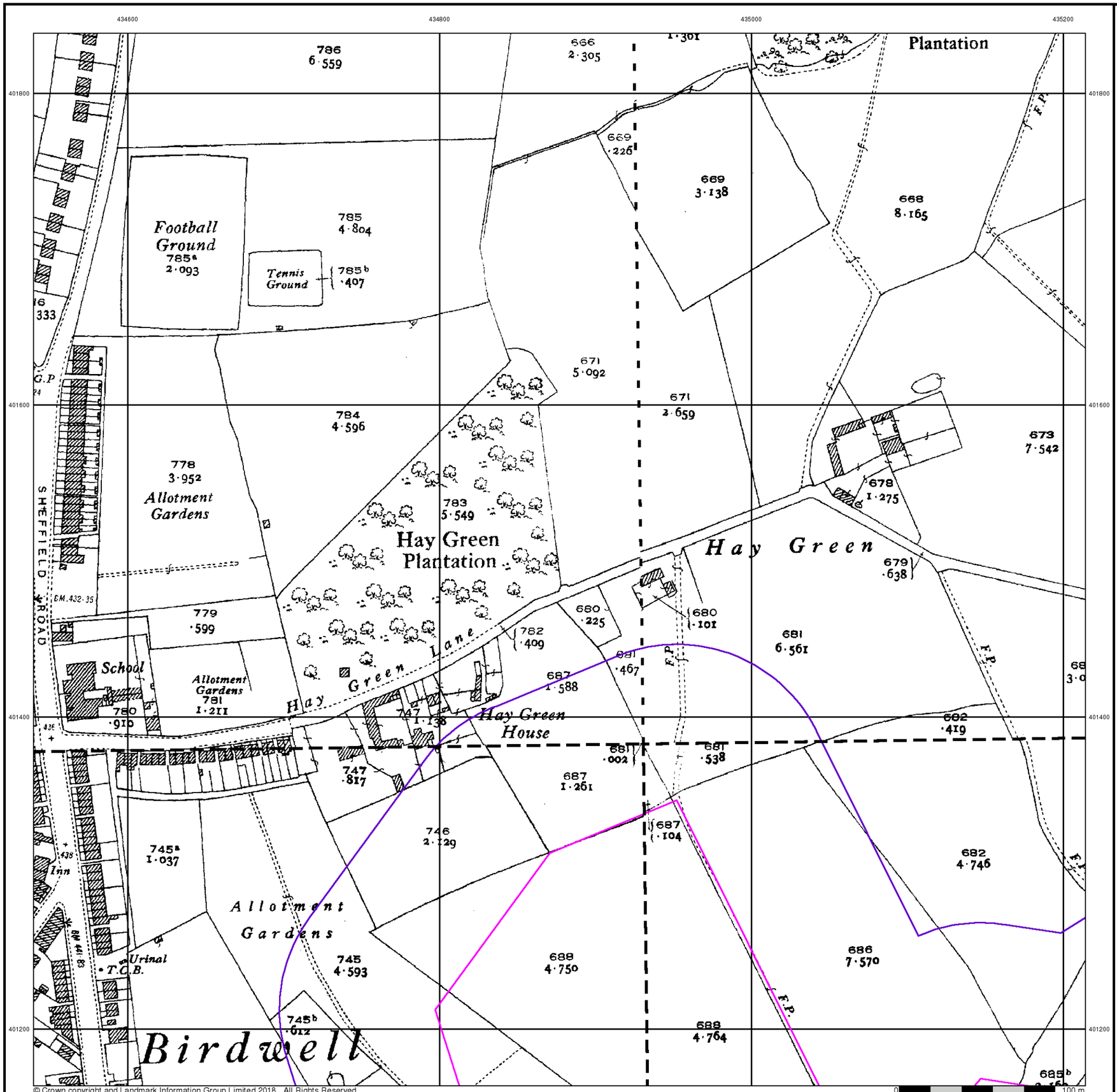
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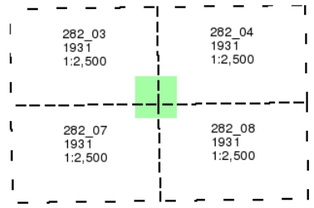
Yorkshire

Published 1931

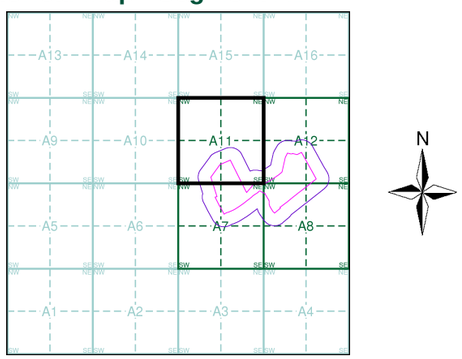
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Map Name(s) and Date(s)



Historical Map - Segment A11



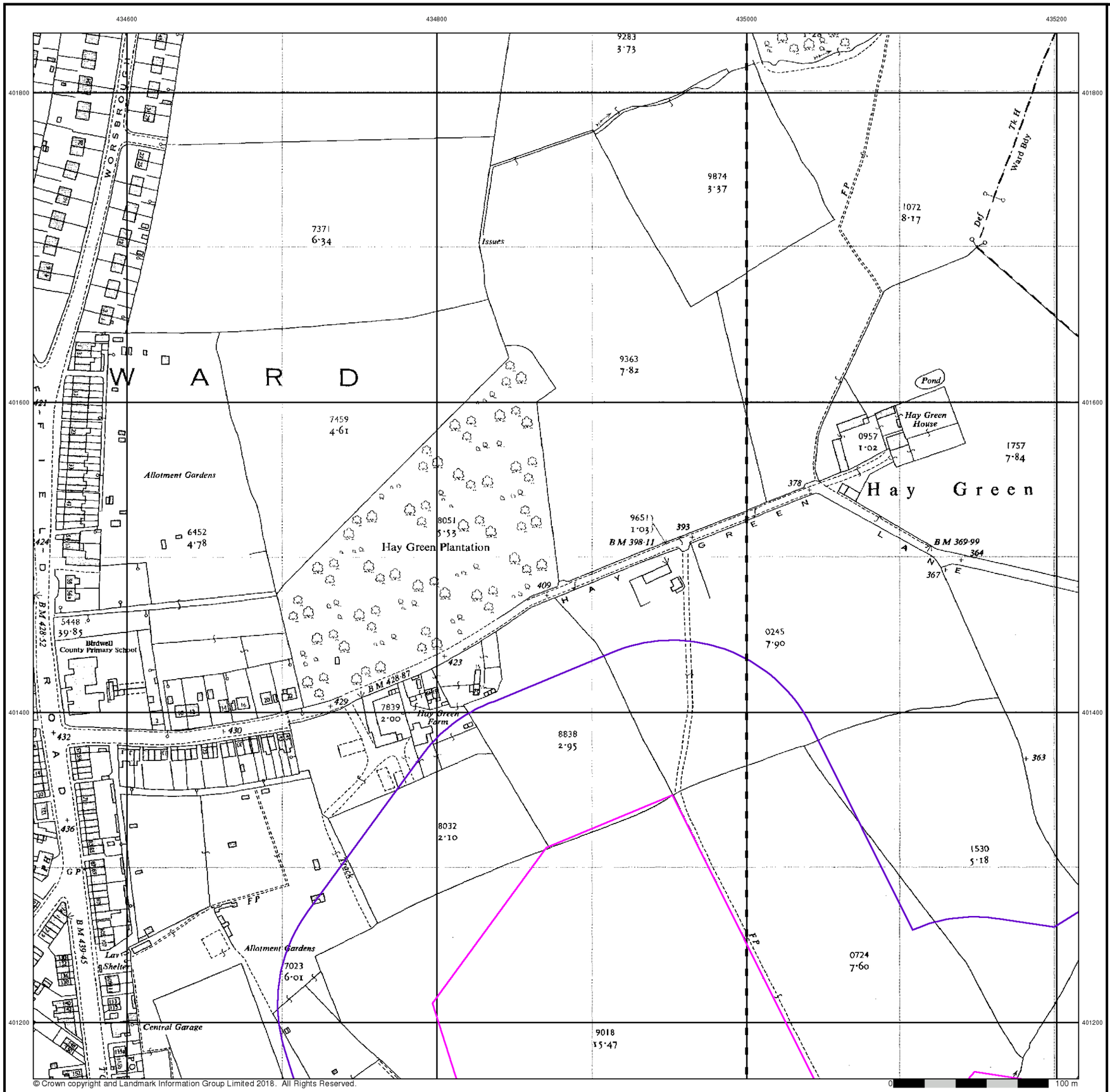
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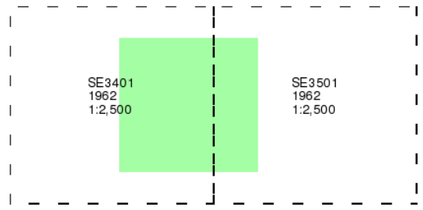
Ordnance Survey Plan

Published 1962

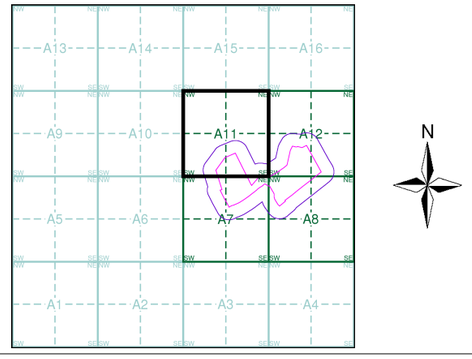
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



Order Details

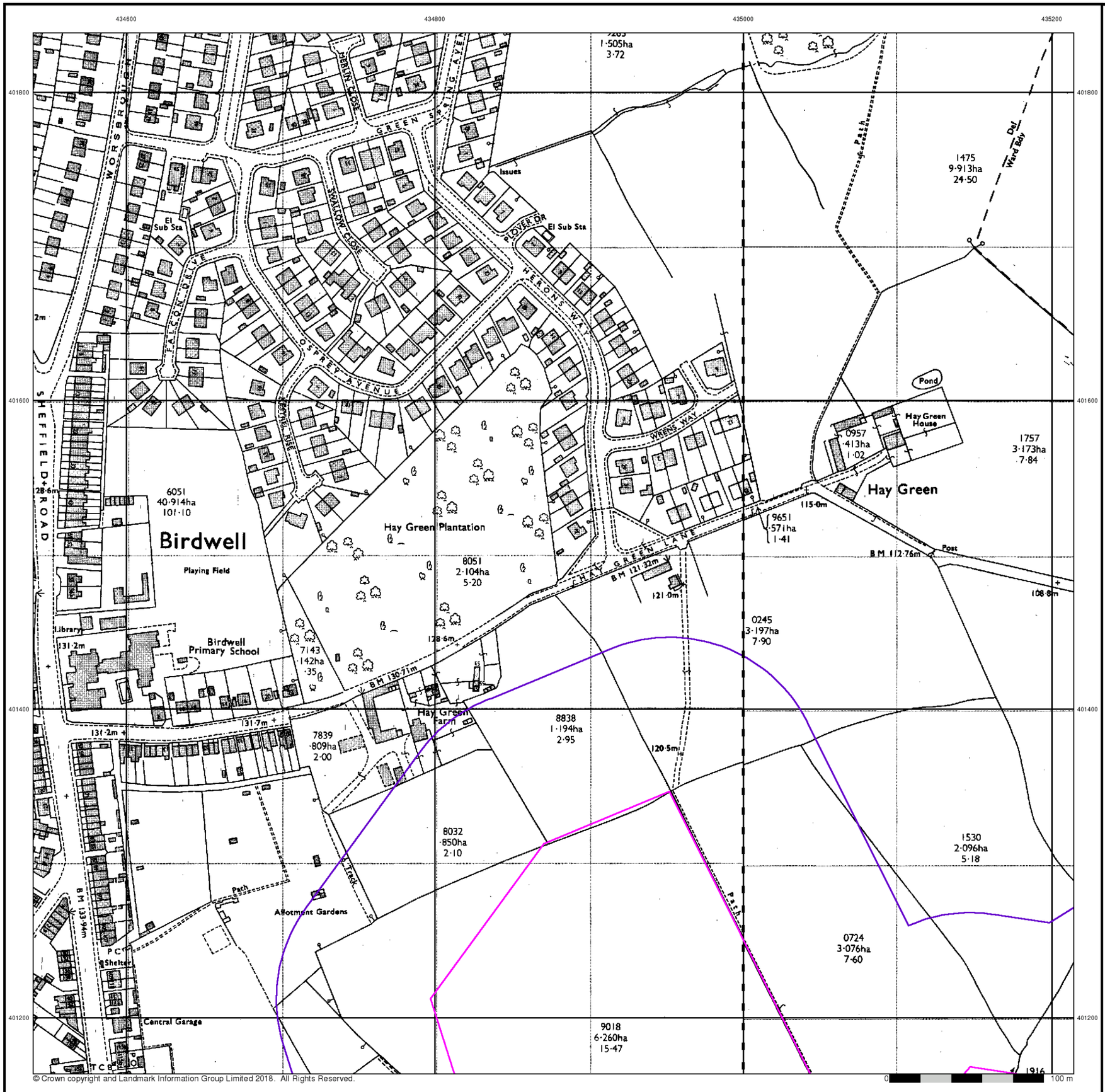
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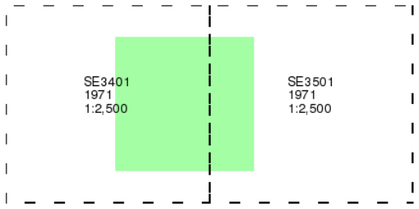
Ordnance Survey Plan

Published 1971

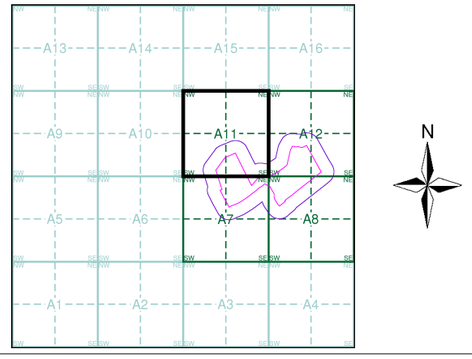
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A11



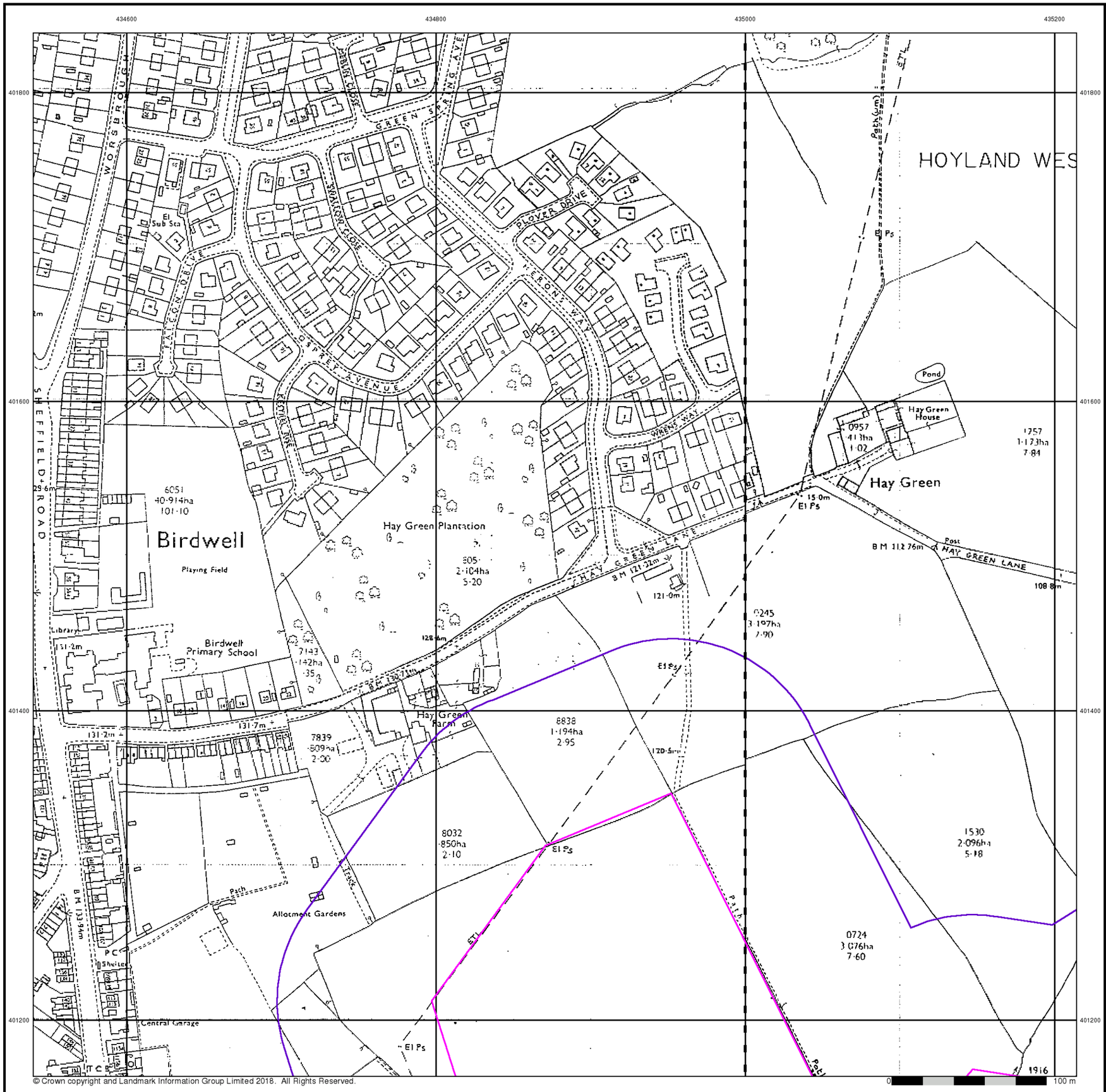
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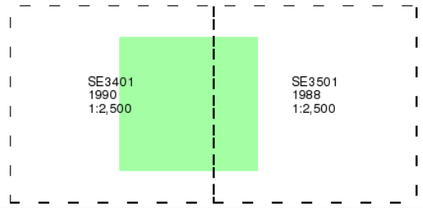
Additional SIMs

Published 1988 - 1990

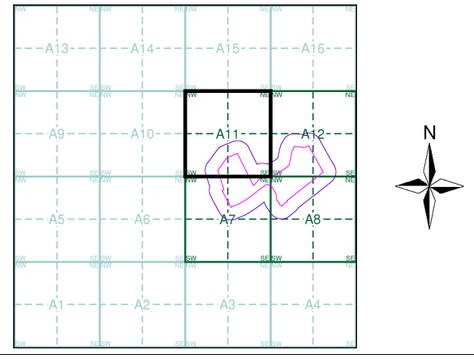
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A11



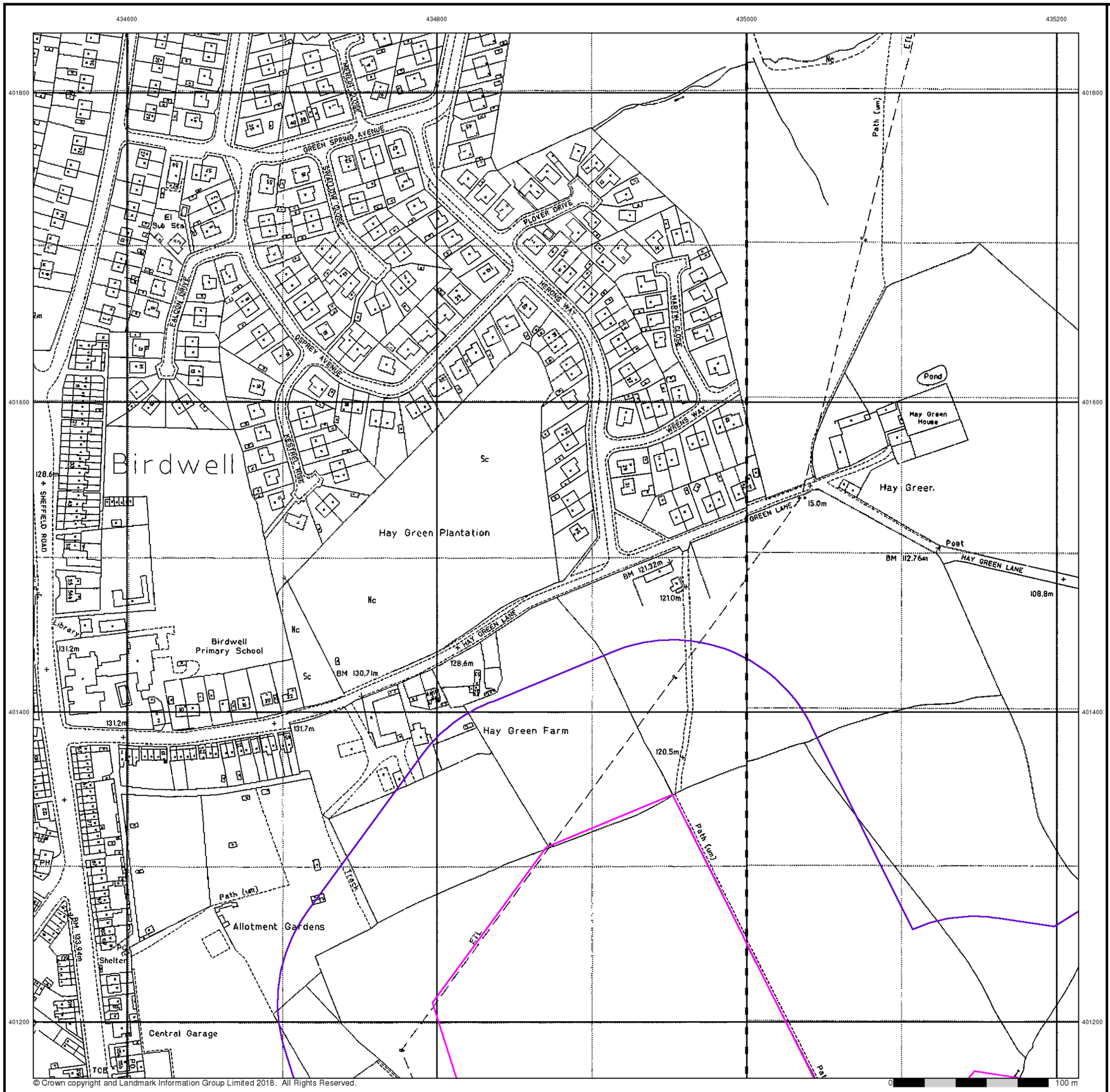
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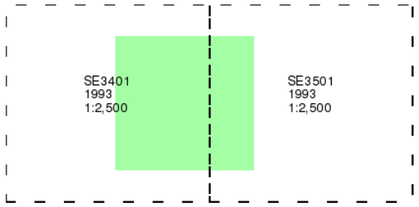
Large-Scale National Grid Data

Published 1993

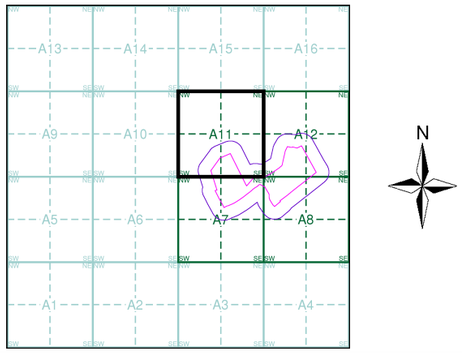
Source map scale - 1:2,500

'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 A11



Order Details

Order Number:	182024082_1_1
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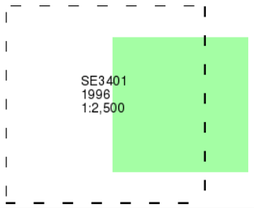
Large-Scale National Grid Data

Published 1996

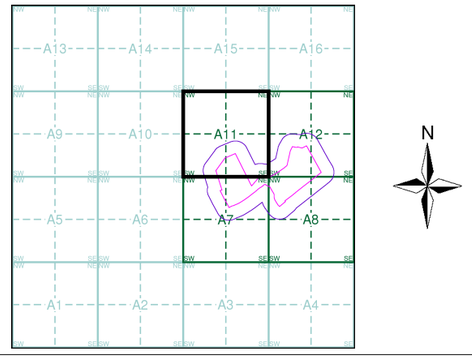
Source map scale - 1:2,500

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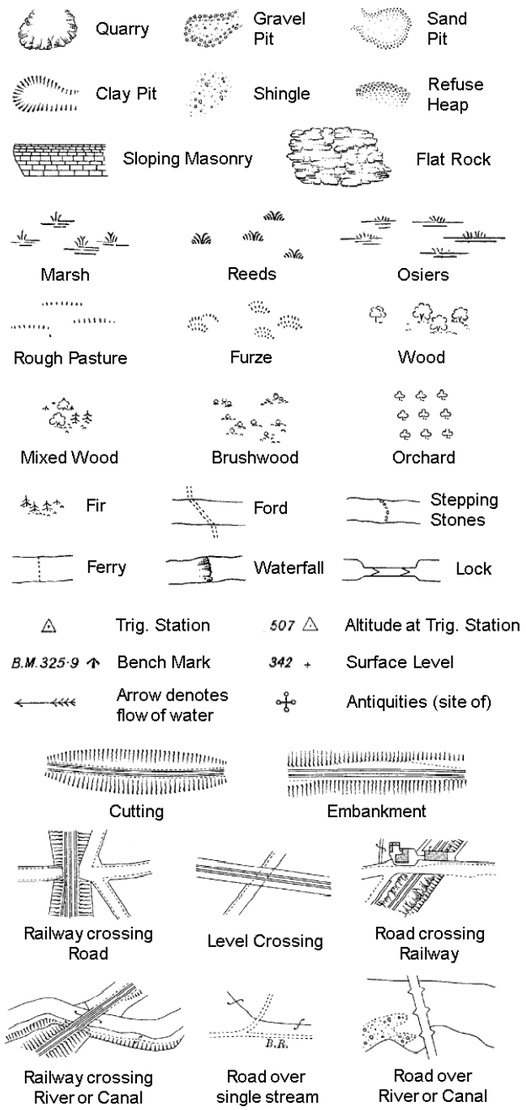
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Historical Mapping Legends

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



County Boundary (Geographical)

County & Civil Parish Boundary

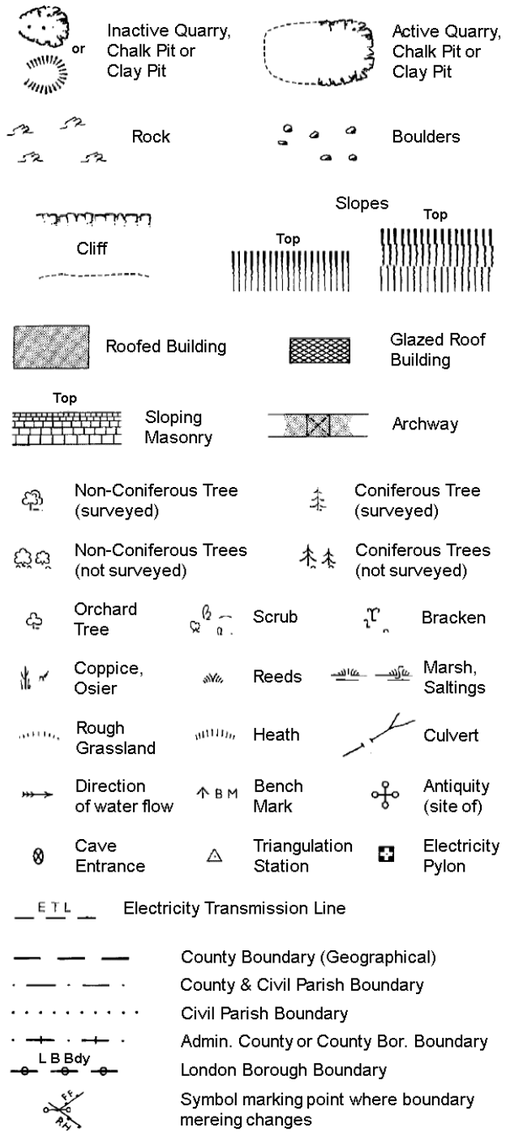
Administrative County & Civil Parish Boundary

Co. Boro. Bdy. County Borough Boundary (England)

Co. Burgh Bdy. County Burgh Boundary (Scotland)

B P B S	Boundary Post or Stone	P.C.B	Police Call Box
B.R.	Bridle Road	P	Pump
E.P	Electricity Pylon	S.P	Signal Post
F.B.	Foot Bridge	St.	Sluice
F.P.	Foot Path	Sp.	Spring
G.P	Guide Post or Board	T.C.B	Telephone Call Box
M.S	Mile Stone	Tr.	Trough
M.P M.R	Mooring Post or Ring	W	Well

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



County Boundary (Geographical)

County & Civil Parish Boundary

Civil Parish Boundary

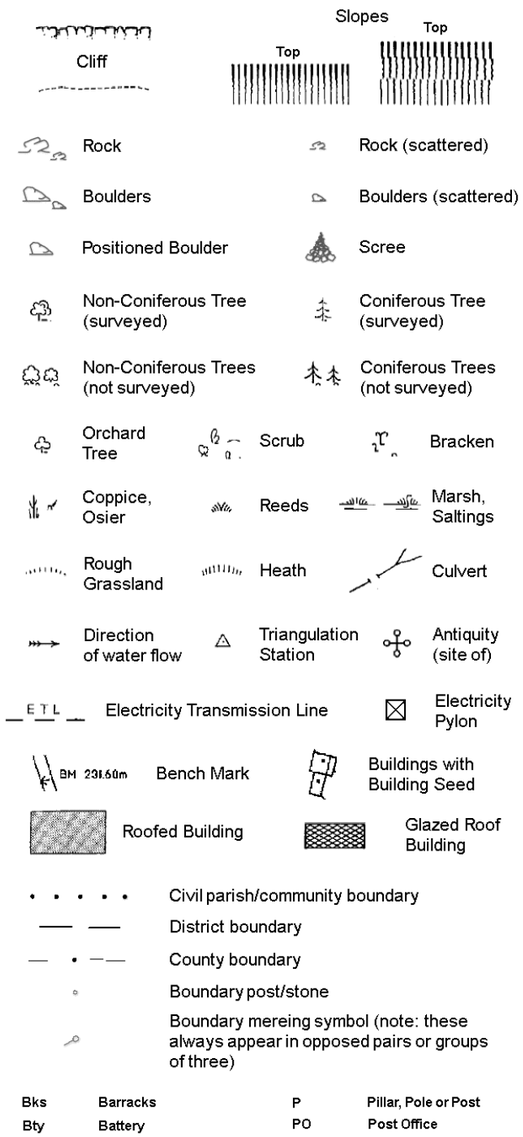
Admin. County or County Bor. Boundary

L B Bdy London Borough Boundary

Symbol marking point where boundary mereing changes

BH	Beer House	P	Pillar, Pole or Post
BP, BS	Boundary Post or Stone	PO	Post Office
Cn, C	Capstan, Crane	PC	Public Convenience
Chy	Chimney	PH	Public House
D Fn	Drinking Fountain	Pp	Pump
El P	Electricity Pillar or Post	SB, S Br	Signal Box or Bridge
FAP	Fire Alarm Pillar	SP, SL	Signal Post or Light
FB	Foot Bridge	Spr	Spring
GP	Guide Post	Tk	Tank or Track
H	Hydrant or Hydraulic	TCB	Telephone Call Box
LC	Level Crossing	TCP	Telephone Call Post
MH	Manhole	Tr	Trough
MP	Mile Post or Mooring Post	Wr Pt, Wr T	Water Point, Water Tap
MS	Mile Stone	W	Well
NTL	Normal Tidal Limit	Wd Pp	Wind Pump

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



Civil parish/community boundary

District boundary

County boundary

Boundary post/stone

Boundary mereing symbol (note: these always appear in opposed pairs or groups of three)

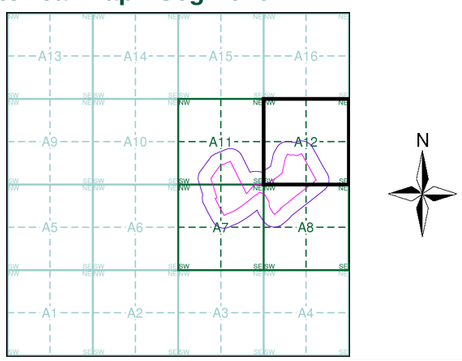
Bks	Barracks	P	Pillar, Pole or Post
Bty	Battery	PO	Post Office
Cemy	Cemetery	PC	Public Convenience
Chy	Chimney	Pp	Pump
Cis	Cistern	Ppg Sta	Pumping Station
Dismtd Rly	Dismantled Railway	PW	Place of Worship
El Gen Sta	Electricity Generating Station	Sewage Ppg Sta	Sewage Pumping Station
El P	Electricity Pole, Pillar	SB, S Br	Signal Box or Bridge
El Sub Sta	Electricity Sub Station	SP, SL	Signal Post or Light
FB	Filter Bed	Spr	Spring
Fn / D Fn	Fountain / Drinking Ftn.	Tk	Tank or Track
Gas Gov	Gas Valve Compound	Tr	Trough
GVC	Gas Governer	Wd Pp	Wind Pump
GP	Guide Post	Wr Pt, Wr T	Water Point, Water Tap
MH	Manhole	Wks	Works (building or area)
MP, MS	Mile Post or Mile Stone	W	Well

RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1893	2
Yorkshire	1:2,500	1905	3
Yorkshire	1:2,500	1931	4
Ordnance Survey Plan	1:2,500	1962	5
Ordnance Survey Plan	1:2,500	1971	6
Additional SIMs	1:2,500	1988	7
Large-Scale National Grid Data	1:2,500	1993	8

Historical Map - Segment A12



Order Details

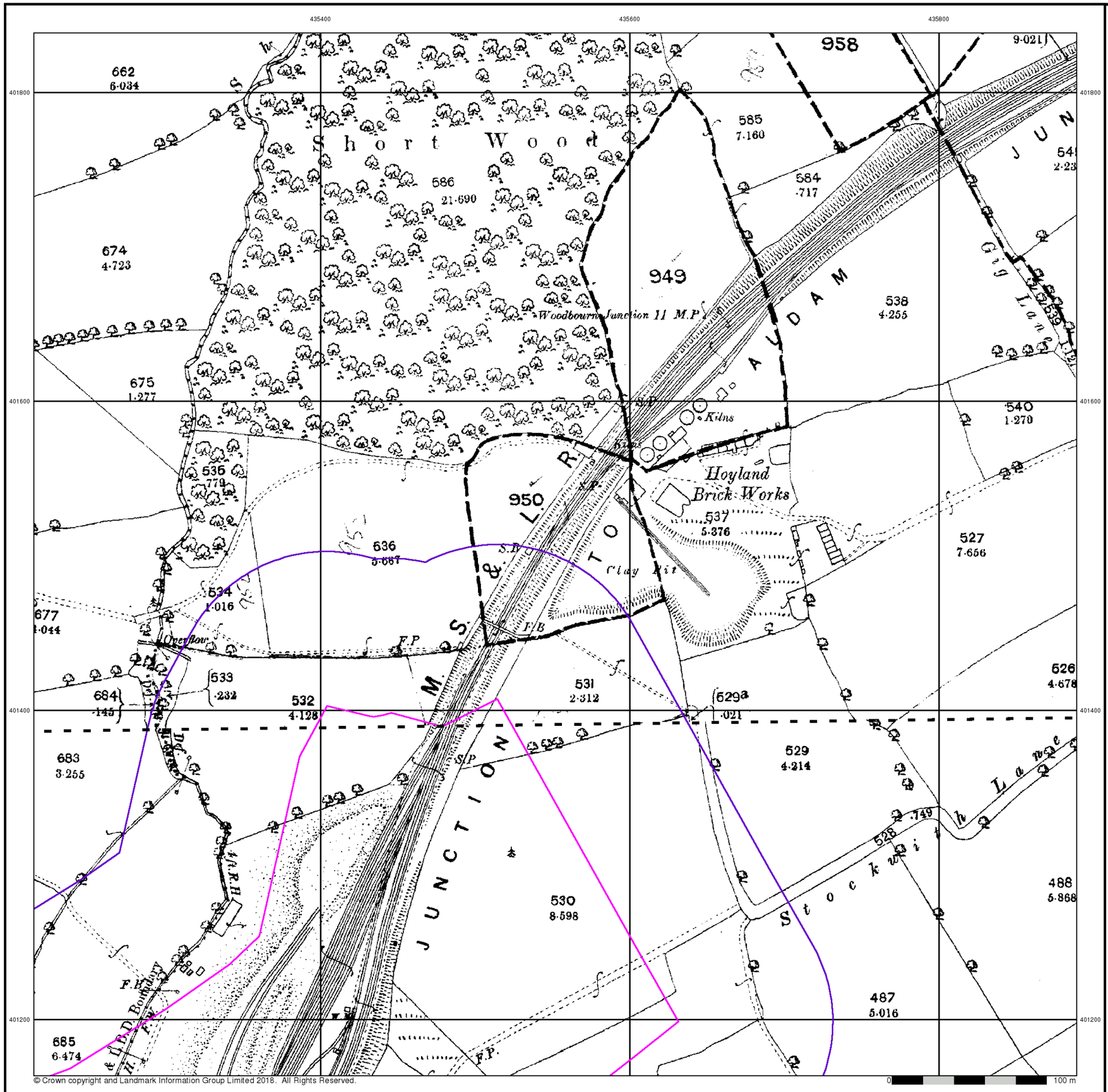
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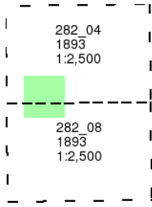
Yorkshire

Published 1893

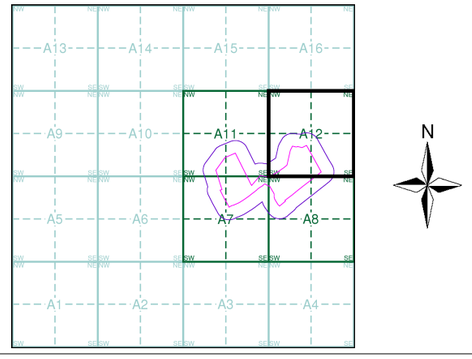
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



Order Details

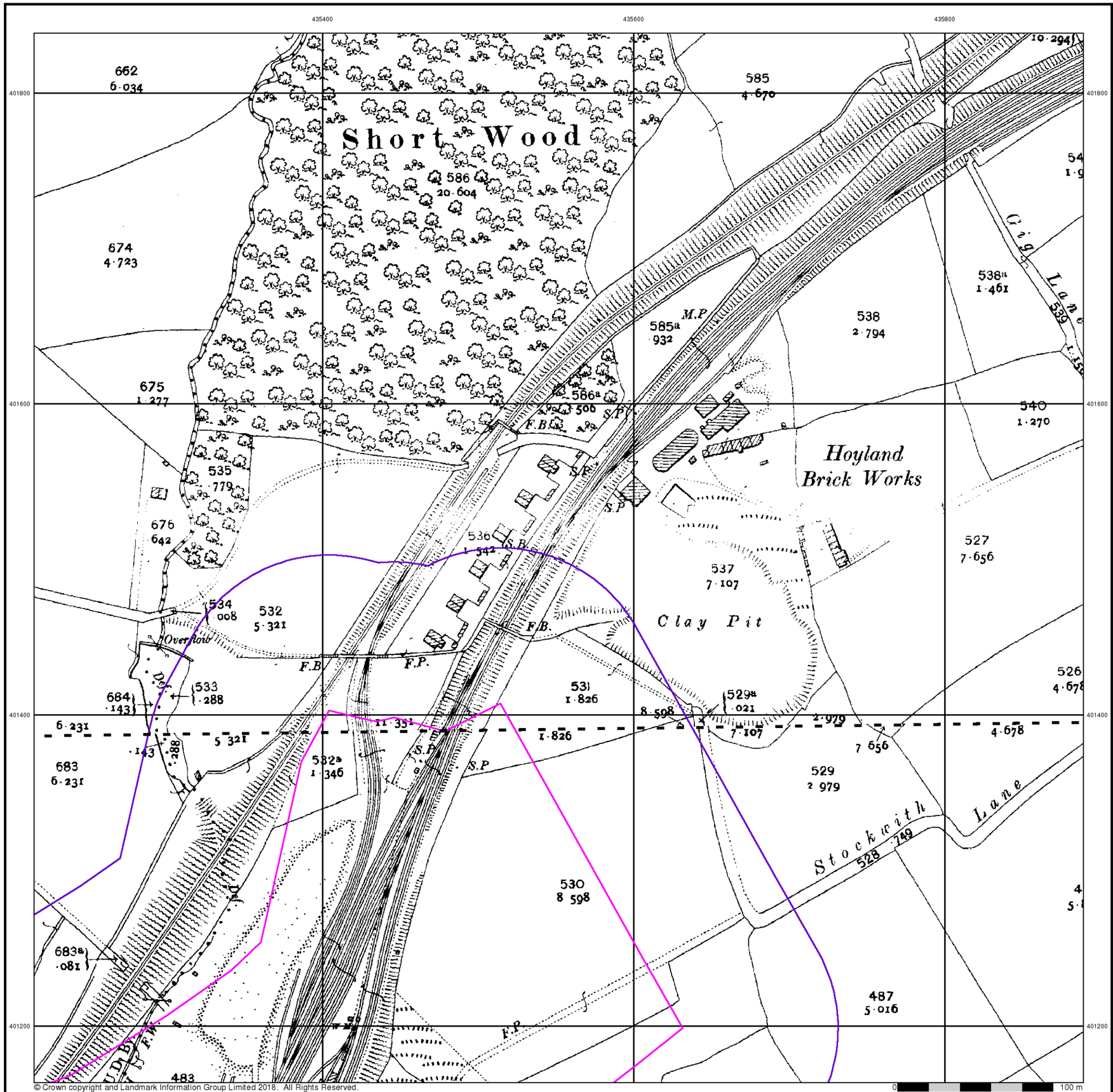
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RSK

Yorkshire

Published 1905

Source map scale - 1:2,500

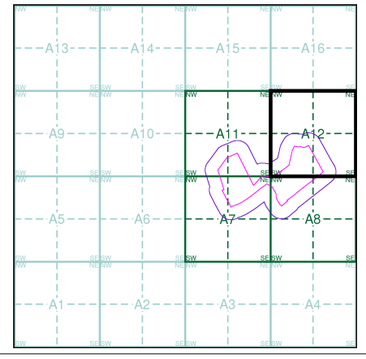
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

282_04
1905
1:2,500

282_08
1905
1:2,500

Historical Map - Segment A12



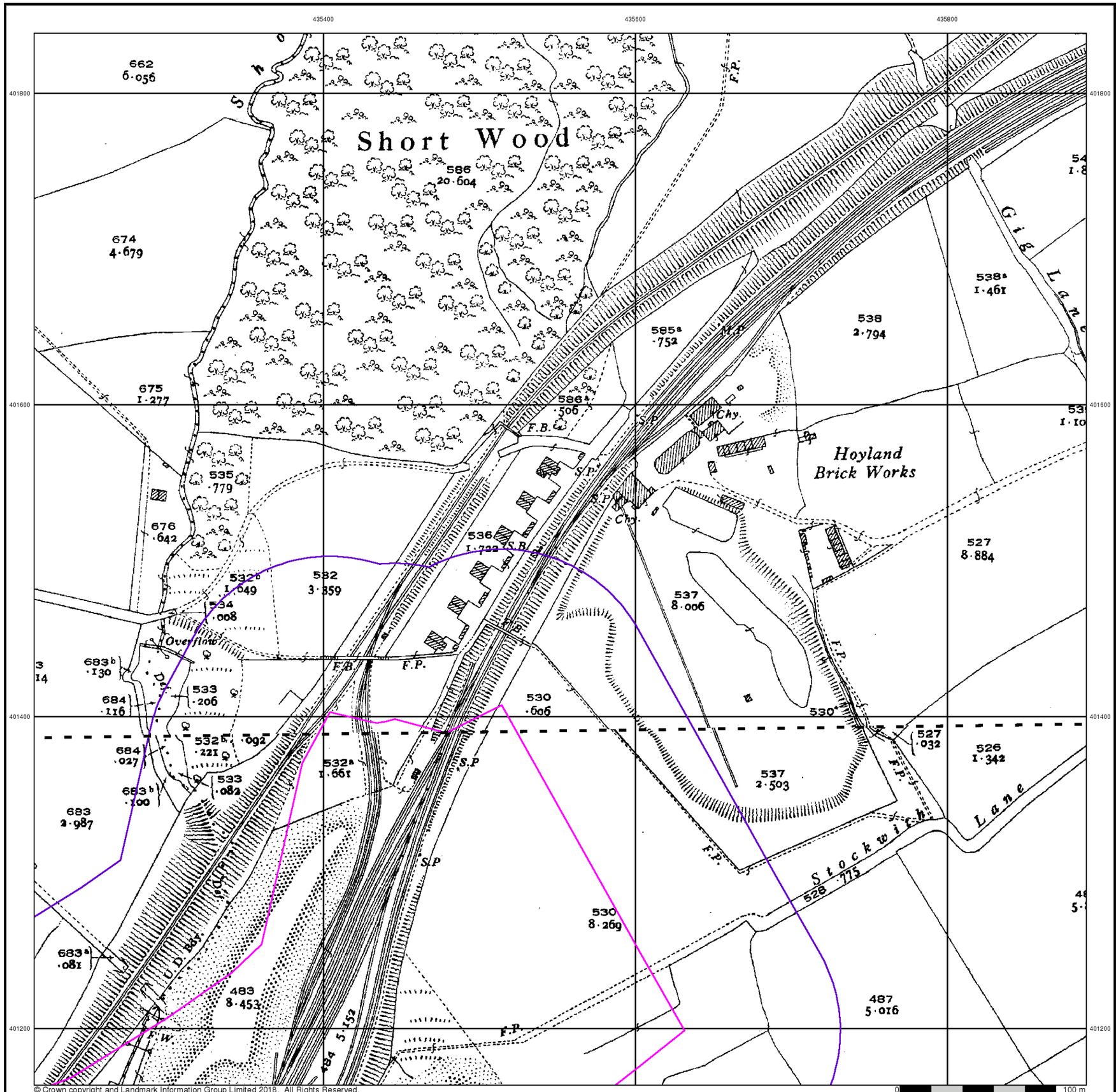
Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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RSK

Yorkshire

Published 1931

Source map scale - 1:2,500

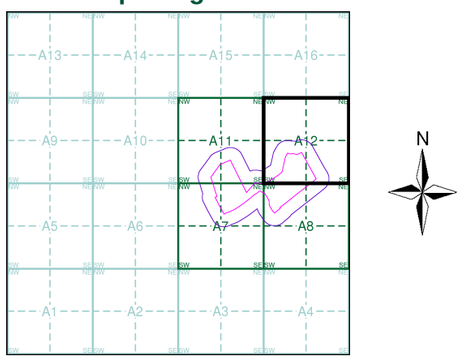
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

282_04
1931
1:2,500

282_08
1931
1:2,500

Historical Map - Segment A12



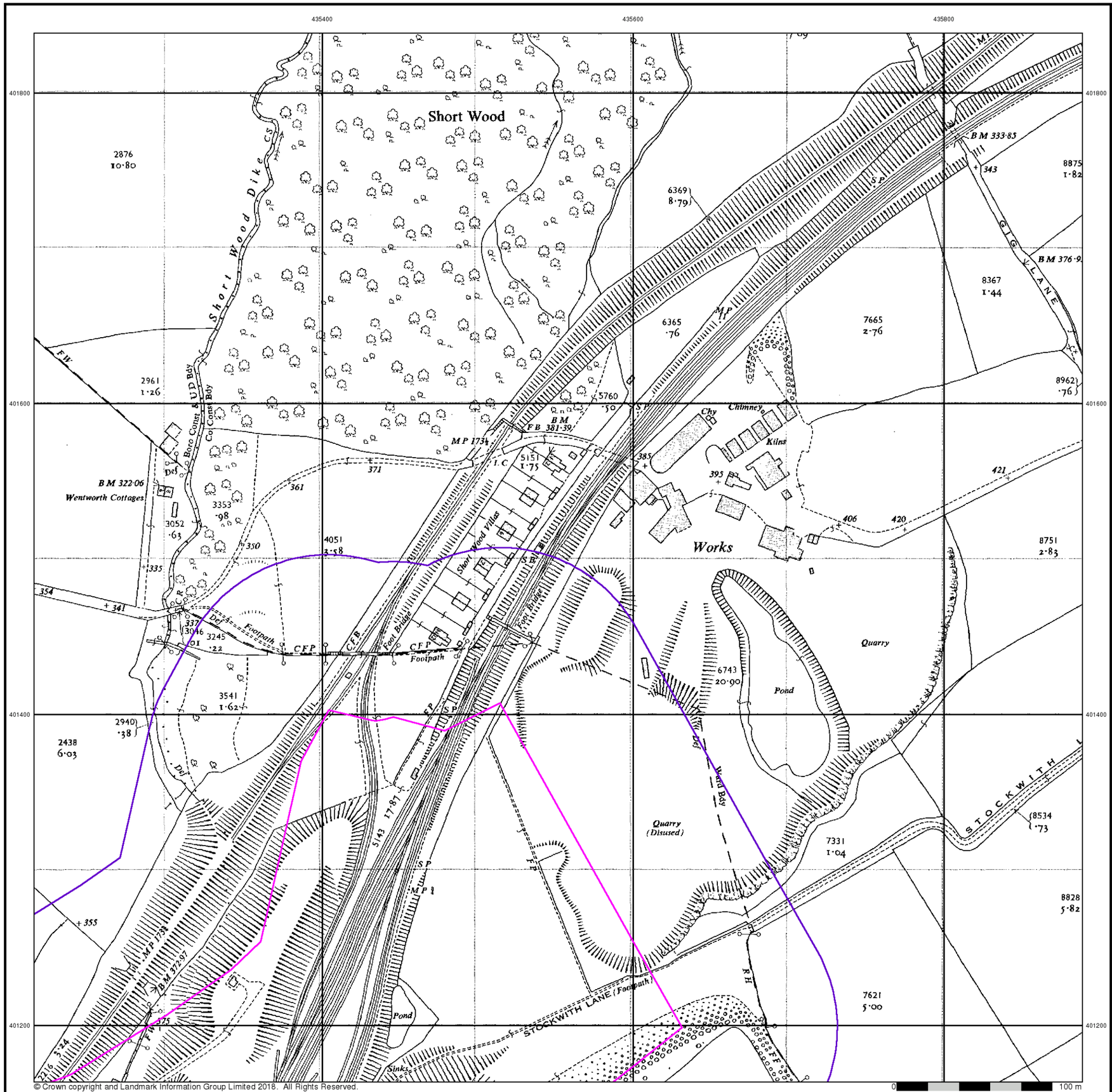
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Customer Ref:	322494
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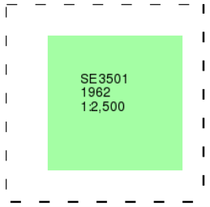
Ordnance Survey Plan

Published 1962

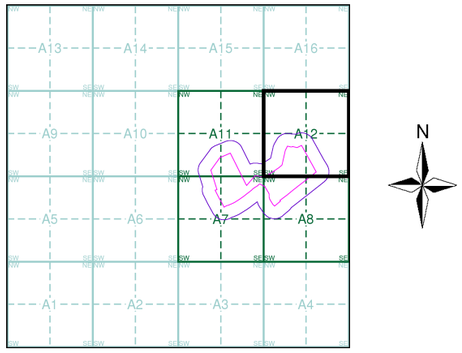
Source map scale - 1:2,500

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Map Name(s) and Date(s)



Historical Map - Segment A12



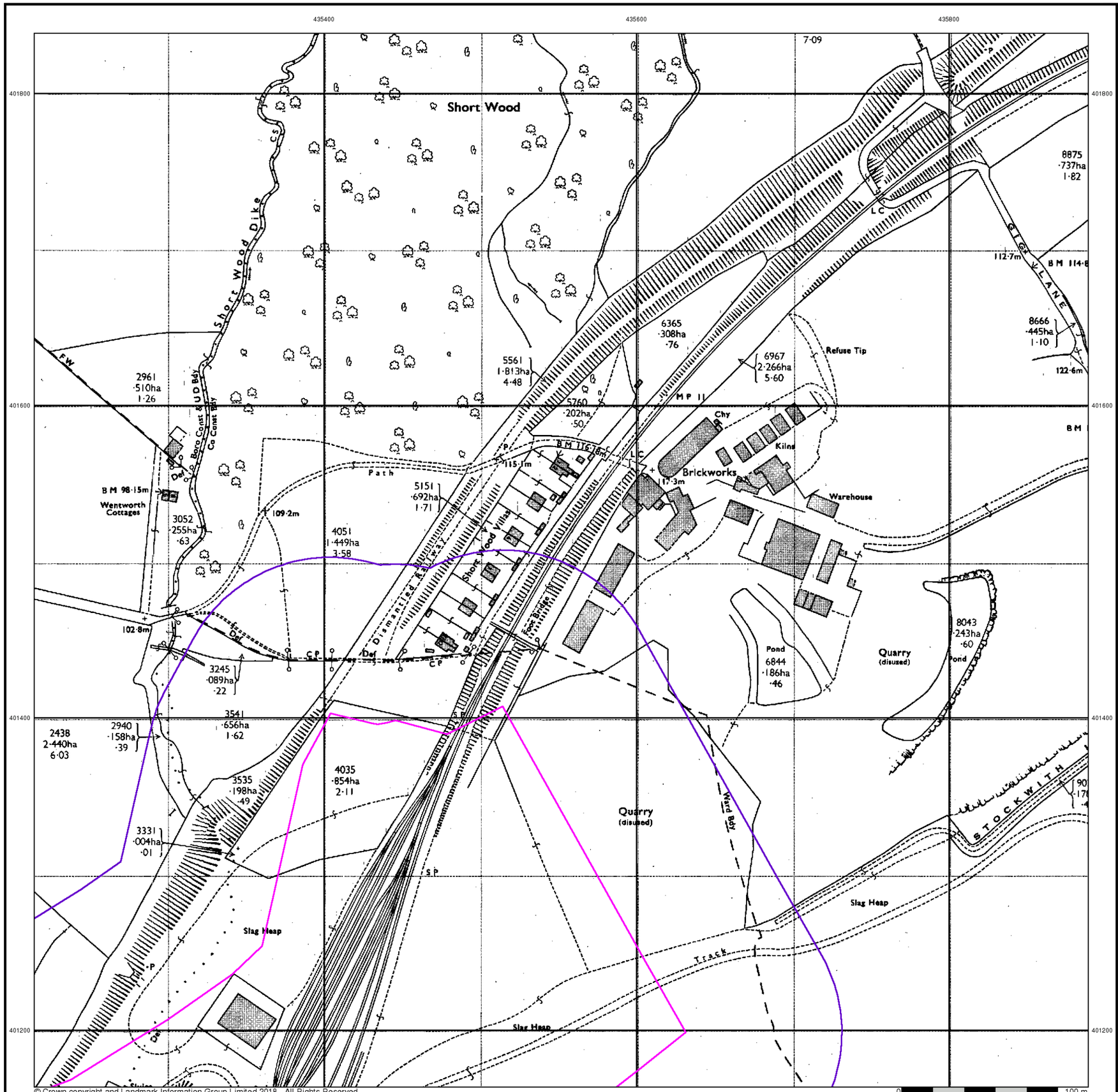
Order Details

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Customer Ref:	322494
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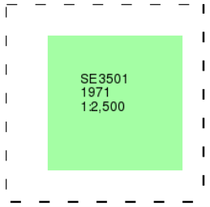
Ordnance Survey Plan

Published 1971

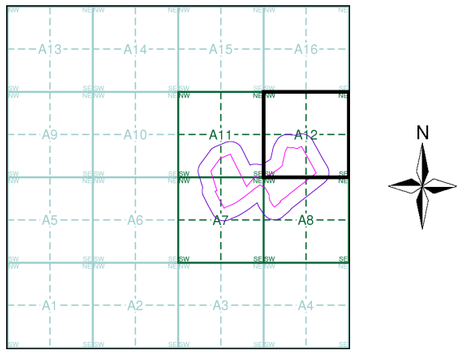
Source map scale - 1:2,500

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 A12



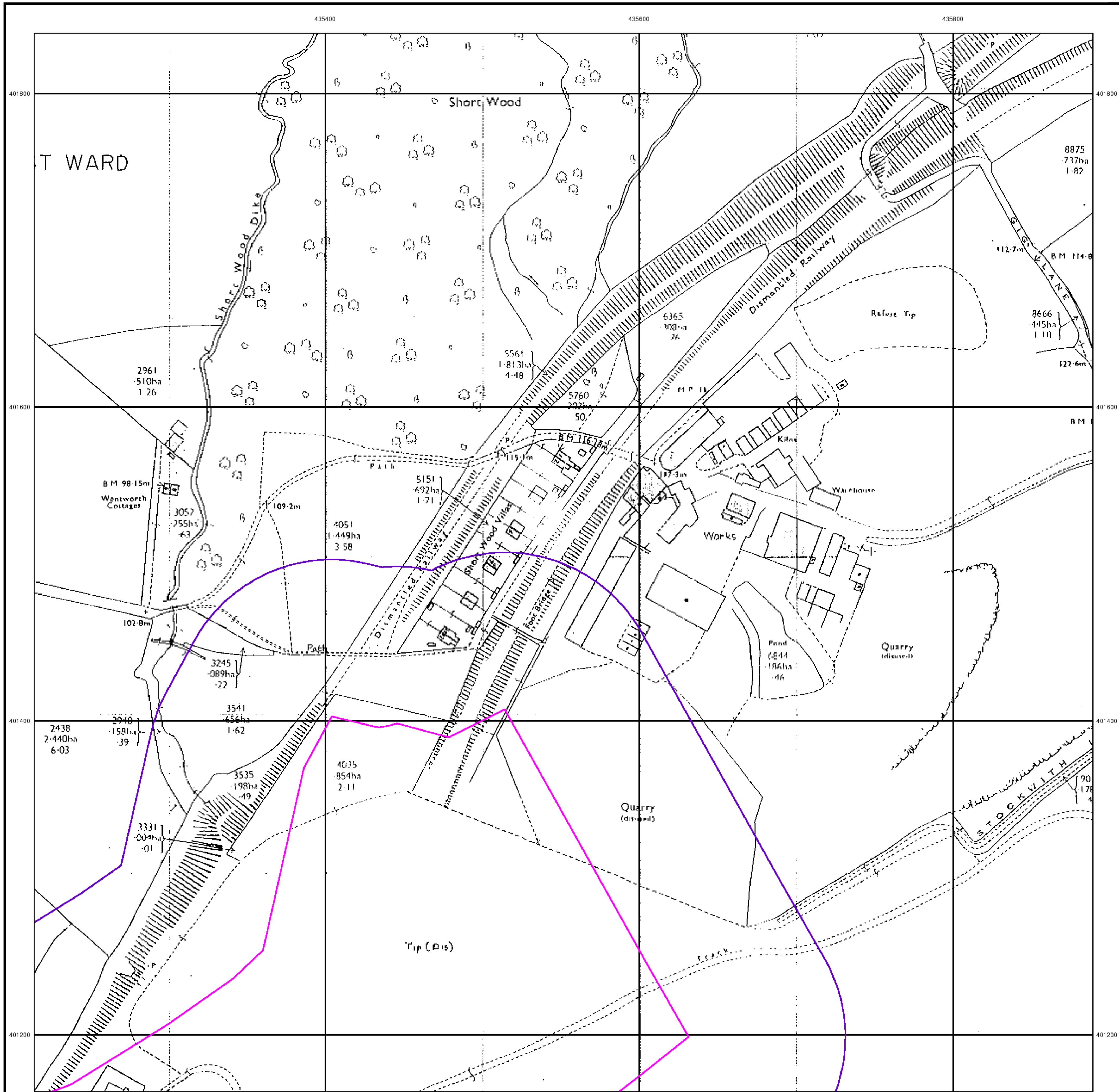
Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
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Site Details

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Additional SIMs

Published 1988

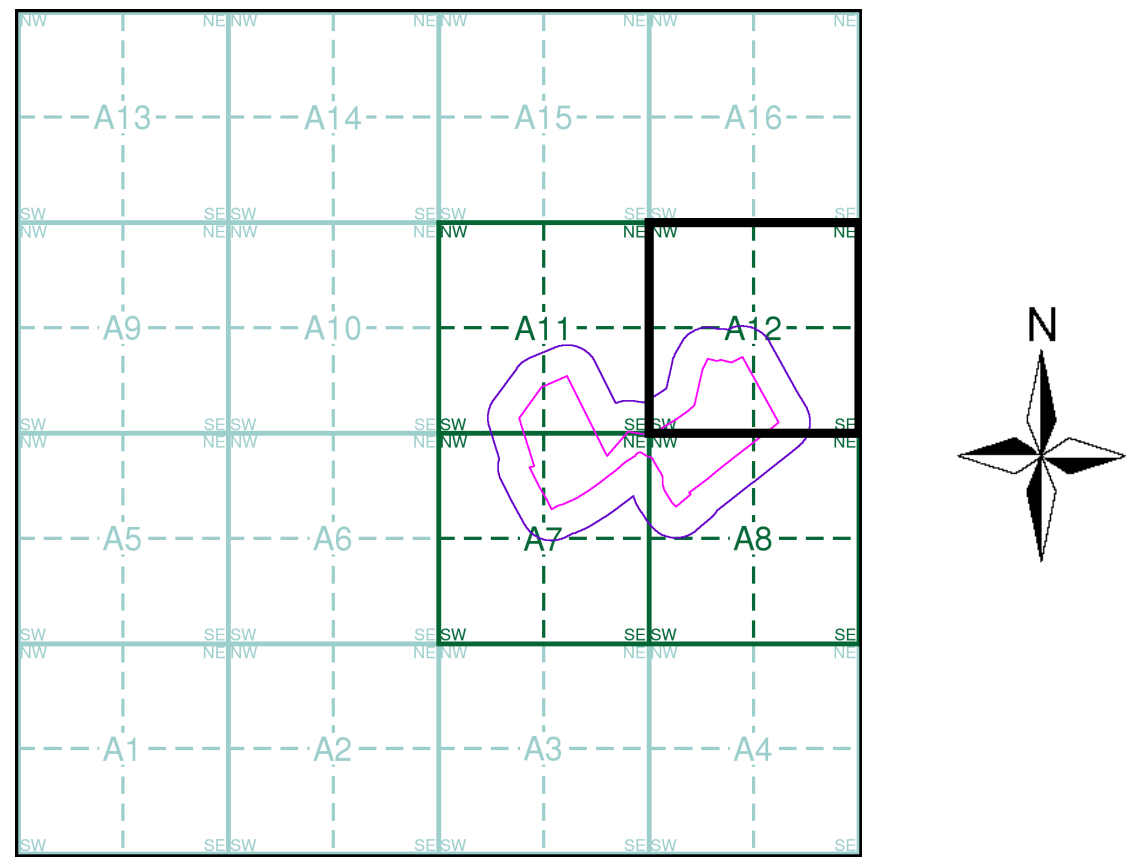
Source map scale - 1:2,500

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)

SE3501
1988
1:2,500

Historical Map - Segment A12



Order Details

Order Number: 182024082_1_1
Customer Ref: 322494
National Grid Reference: 434950, 401150
Slice: A
Site Area (Ha): 18.59
Search Buffer (m): 100

Site Details

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435400 435600 435800

401800 401600 401400 401200

Short Wood

Short Wood Dike

Post

112.7m

BM 114.89m

Old Lane

Refuse Tip

122.6m

Dismantled Railway

Sc

Post

BM 116.18m

BM 128

Kilns

115.1m

117.3m

Warehouse

Path

BM 98.15m

Wentworth Cottages

109.2m

Dismantled Railway

Short Wood Lyrills

Works

Pond

Quarry (disused)

102.8m

Path (um)

FB

Quarry (disused)

STOCKWITH LANE

Post

Tip (disused)

Track

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0 100 m

RSK

Large-Scale National Grid Data

Published 1993

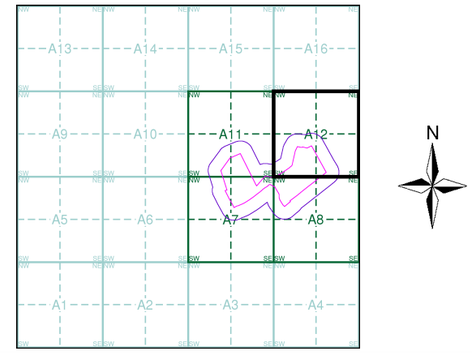
Source map scale - 1:2,500

'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)

SE3501
1993
1:2,500

Historical Map - Segment A12



Order Details

Order Number:	182024082_1_1
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National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	100

Site Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

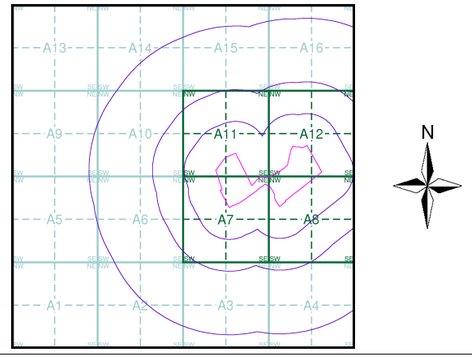
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Mud
Sand
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or 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
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m 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

RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1855	2
Yorkshire	1:10,560	1893	3
Yorkshire	1:10,560	1907	4
Yorkshire	1:10,560	1932	5
Yorkshire	1:10,560	1938	6
Yorkshire	1:10,560	1948	7
Ordnance Survey Plan	1:10,000	1956	8
Ordnance Survey Plan	1:10,000	1965 - 1966	9
Ordnance Survey Plan	1:10,000	1978	10
Ordnance Survey Plan	1:10,000	1980 - 1982	11
Ordnance Survey Plan	1:10,000	1989	12
Ordnance Survey Plan	1:10,000	1991 - 1992	13
10K Raster Mapping	1:10,000	2000	14
Street View	Variable		15

Historical Map - Slice A



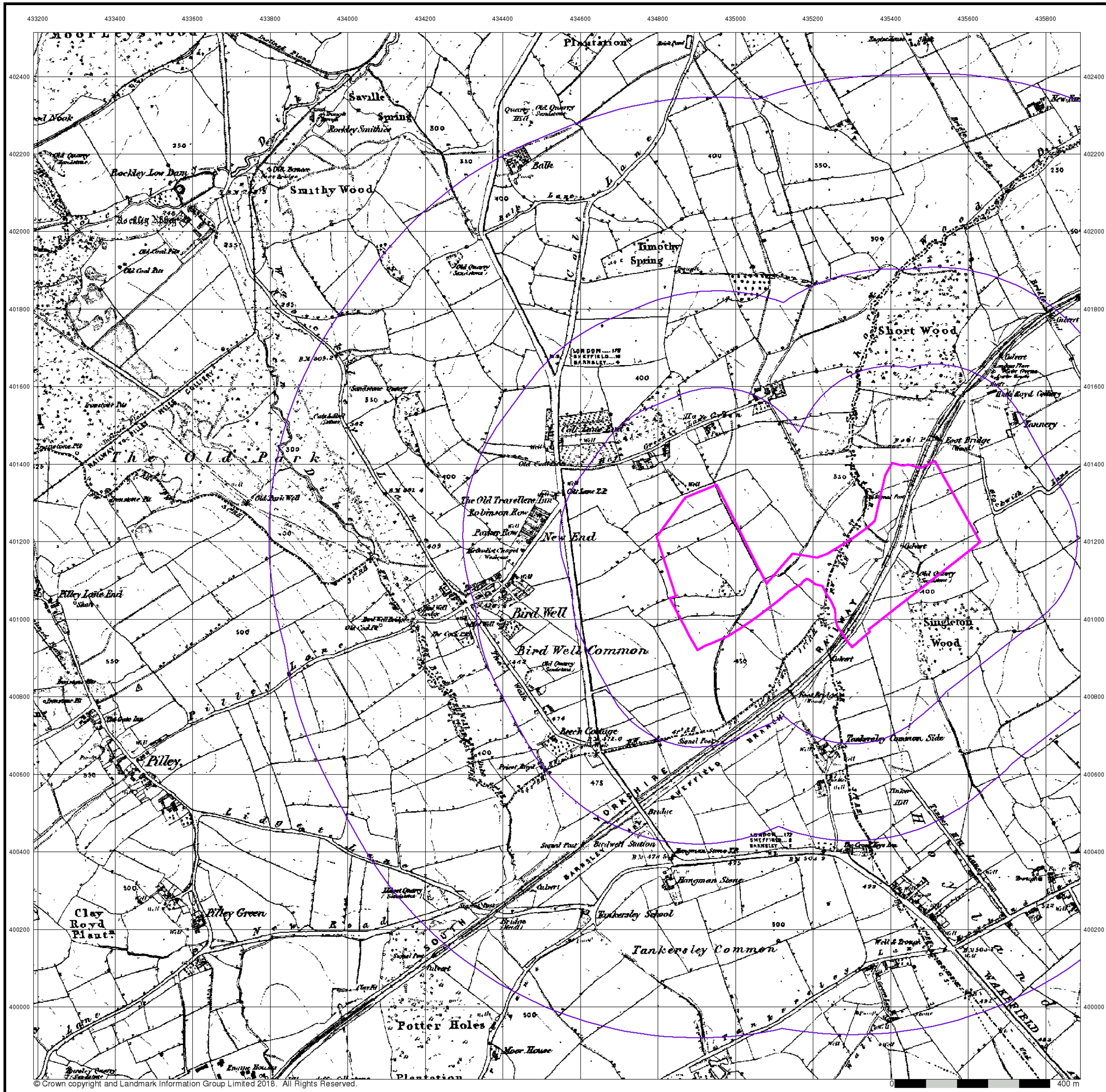
Order Details

Order Number: 182024082_1_1
Customer Ref: 322494
National Grid Reference: 434950, 401150
Slice: A
Site Area (Ha): 18.59
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1855

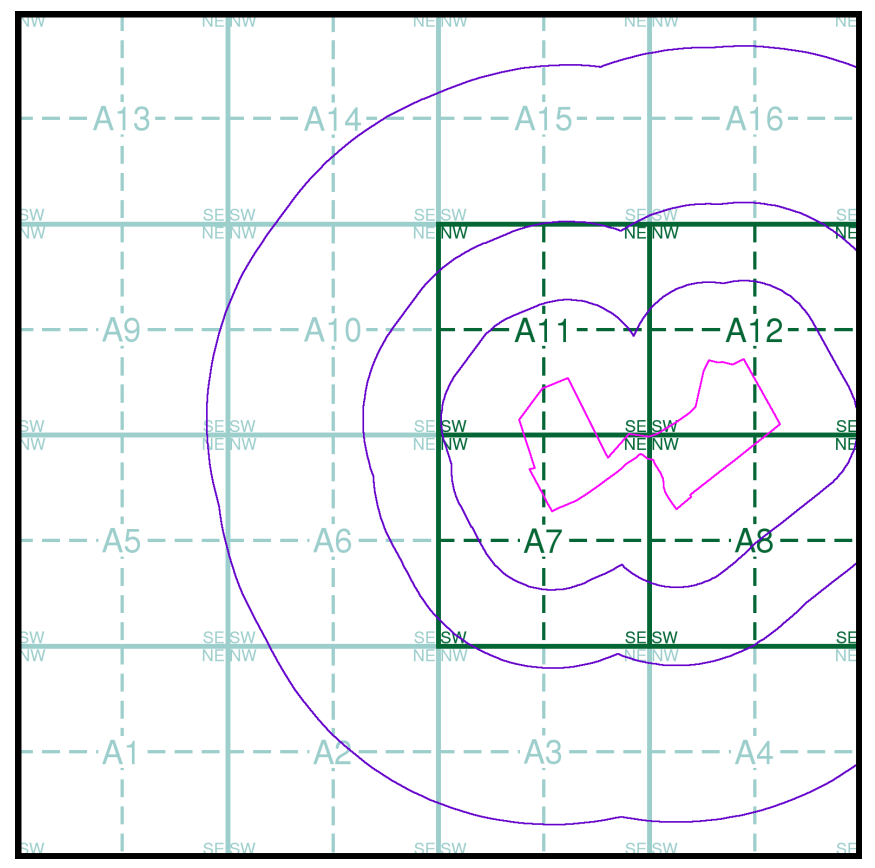
Source map scale - 1:10,560

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)

28200
1855
1:10,560

Historical Map - Slice A



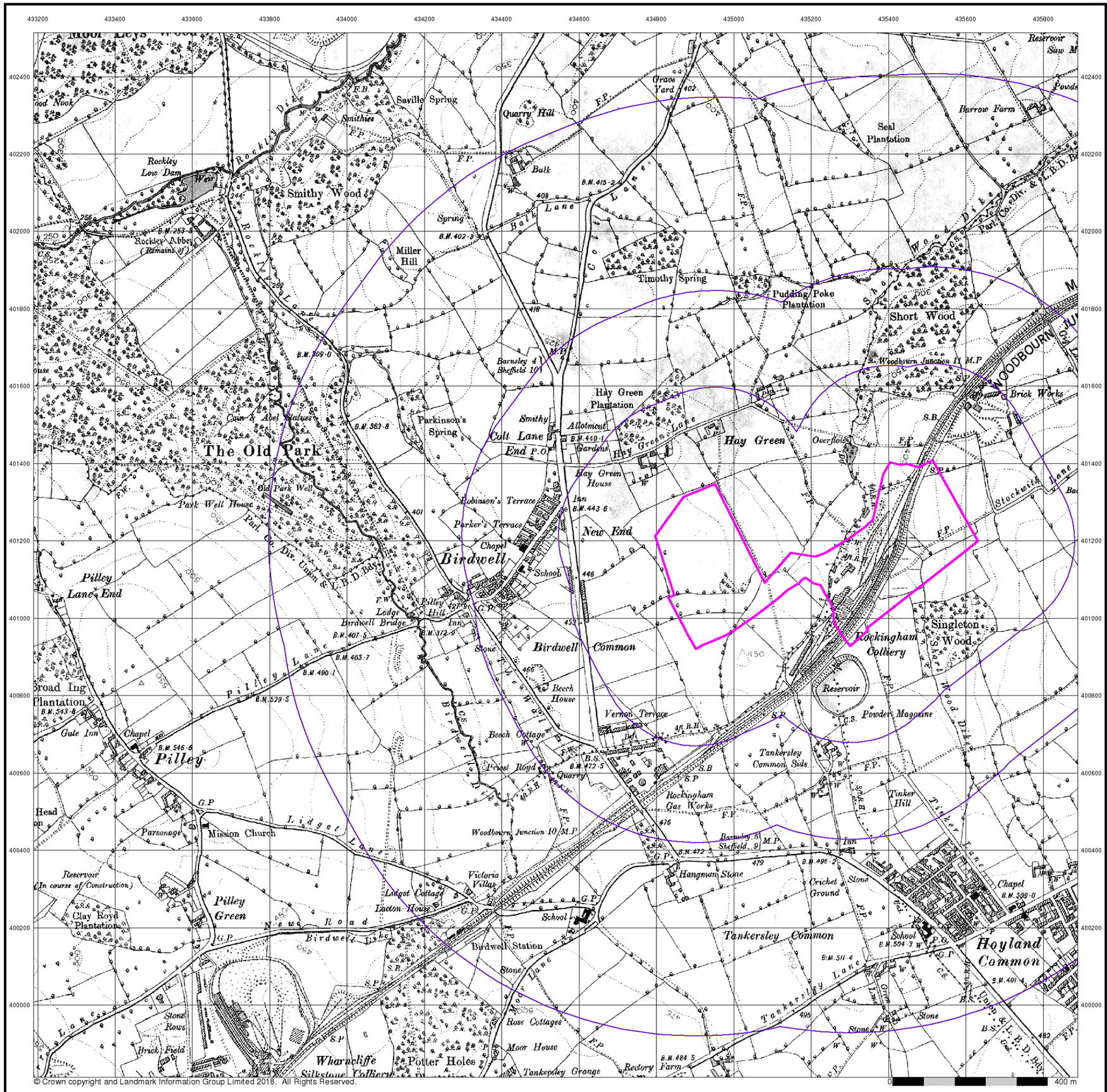
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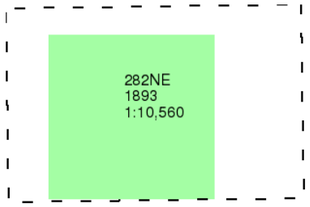
Yorkshire

Published 1893

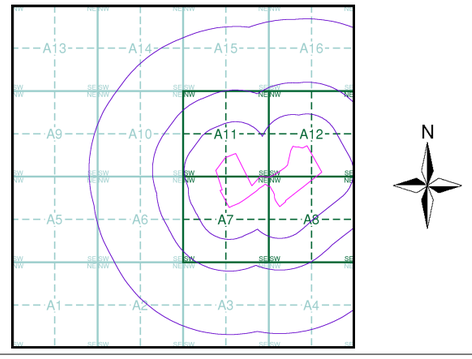
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



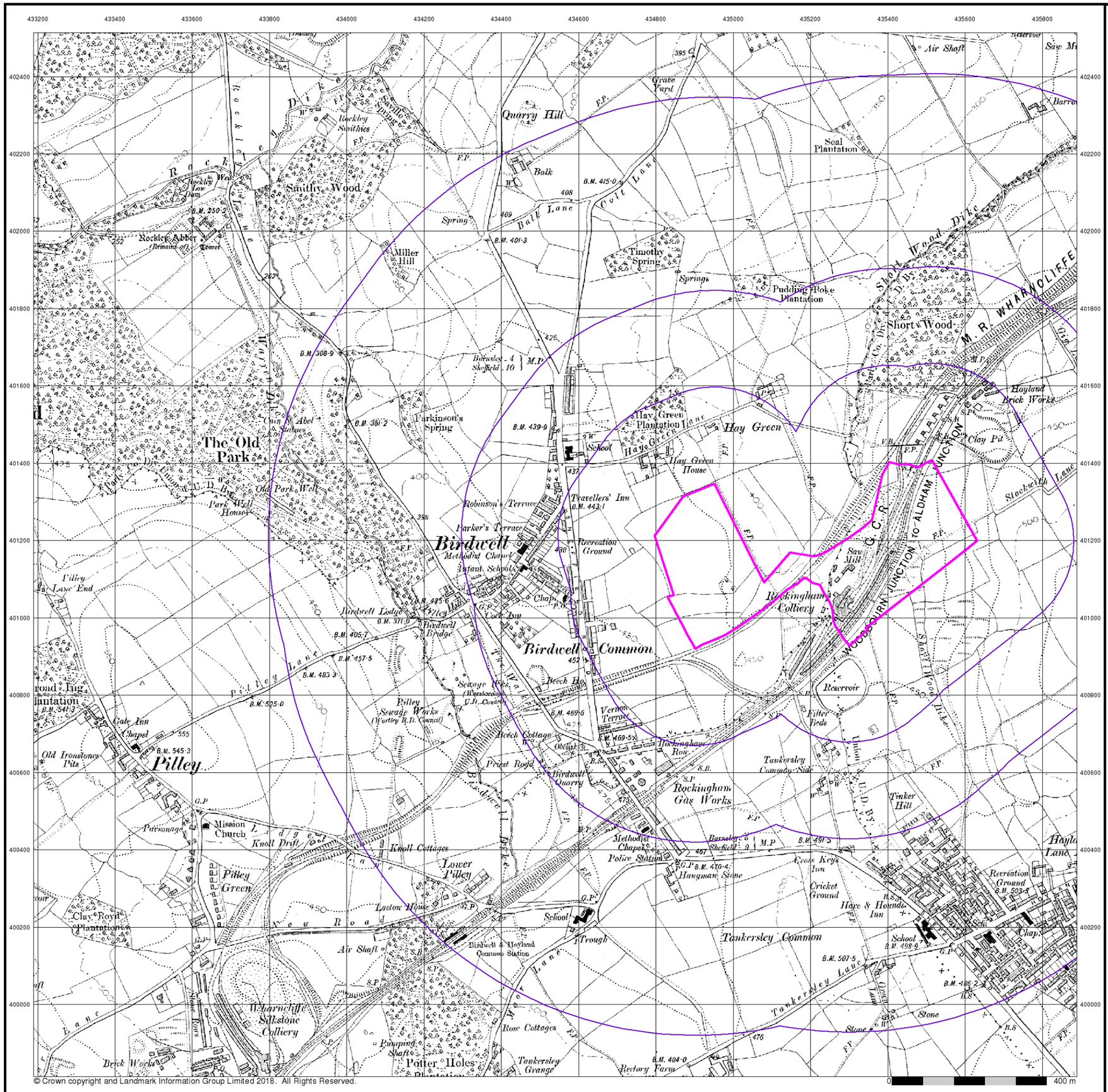
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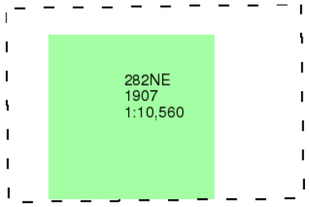
Yorkshire

Published 1907

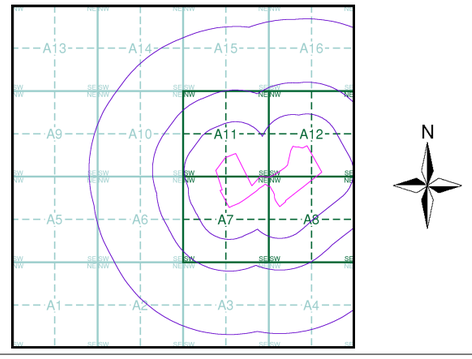
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

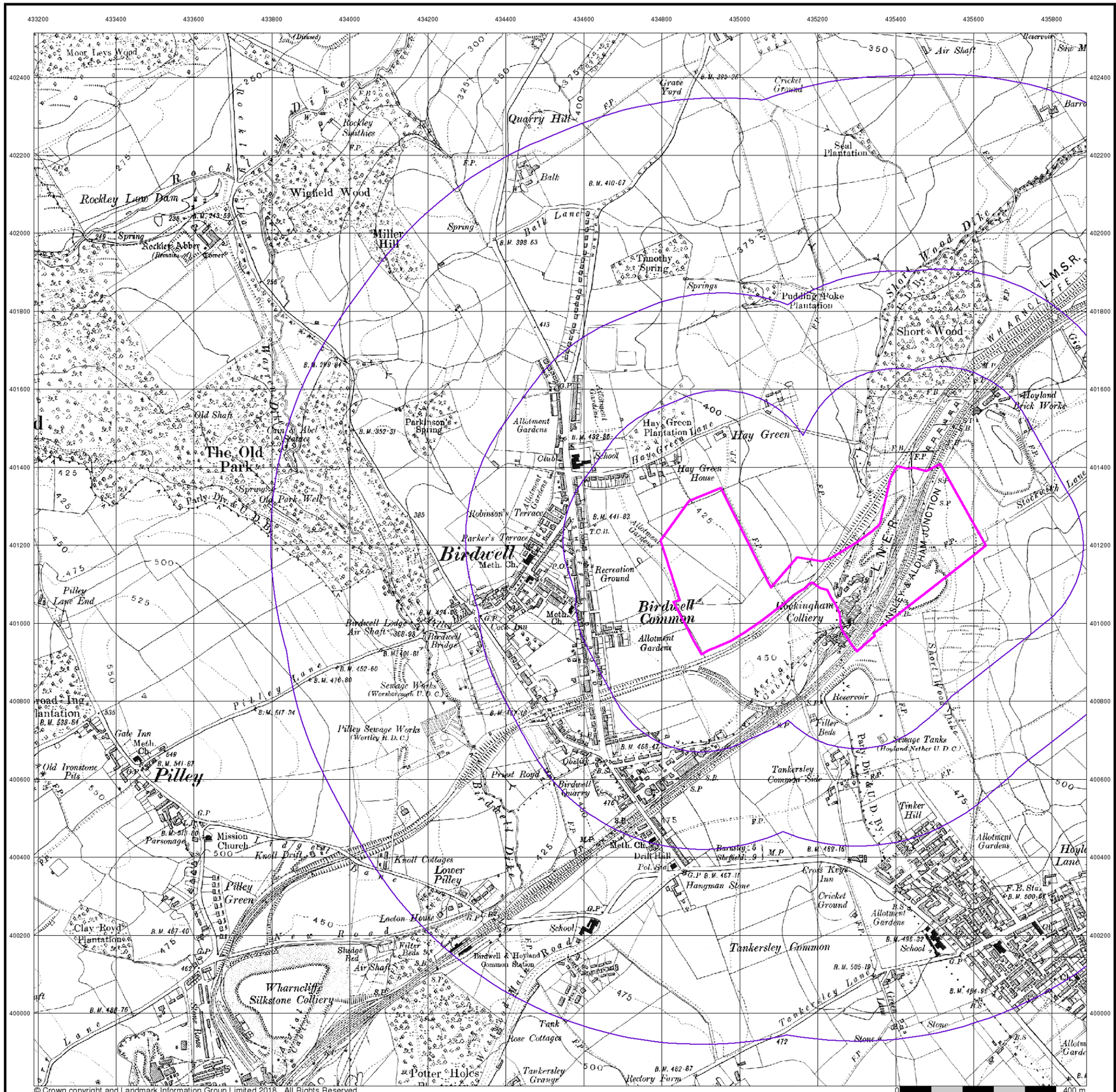
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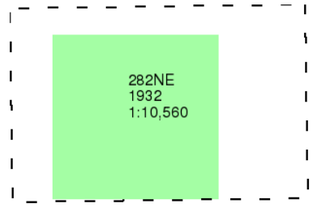
Yorkshire

Published 1932

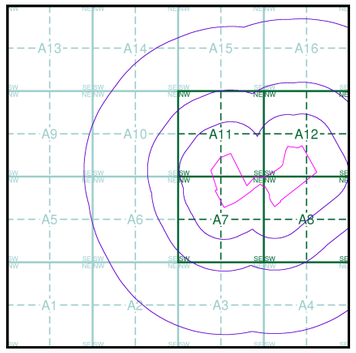
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice A



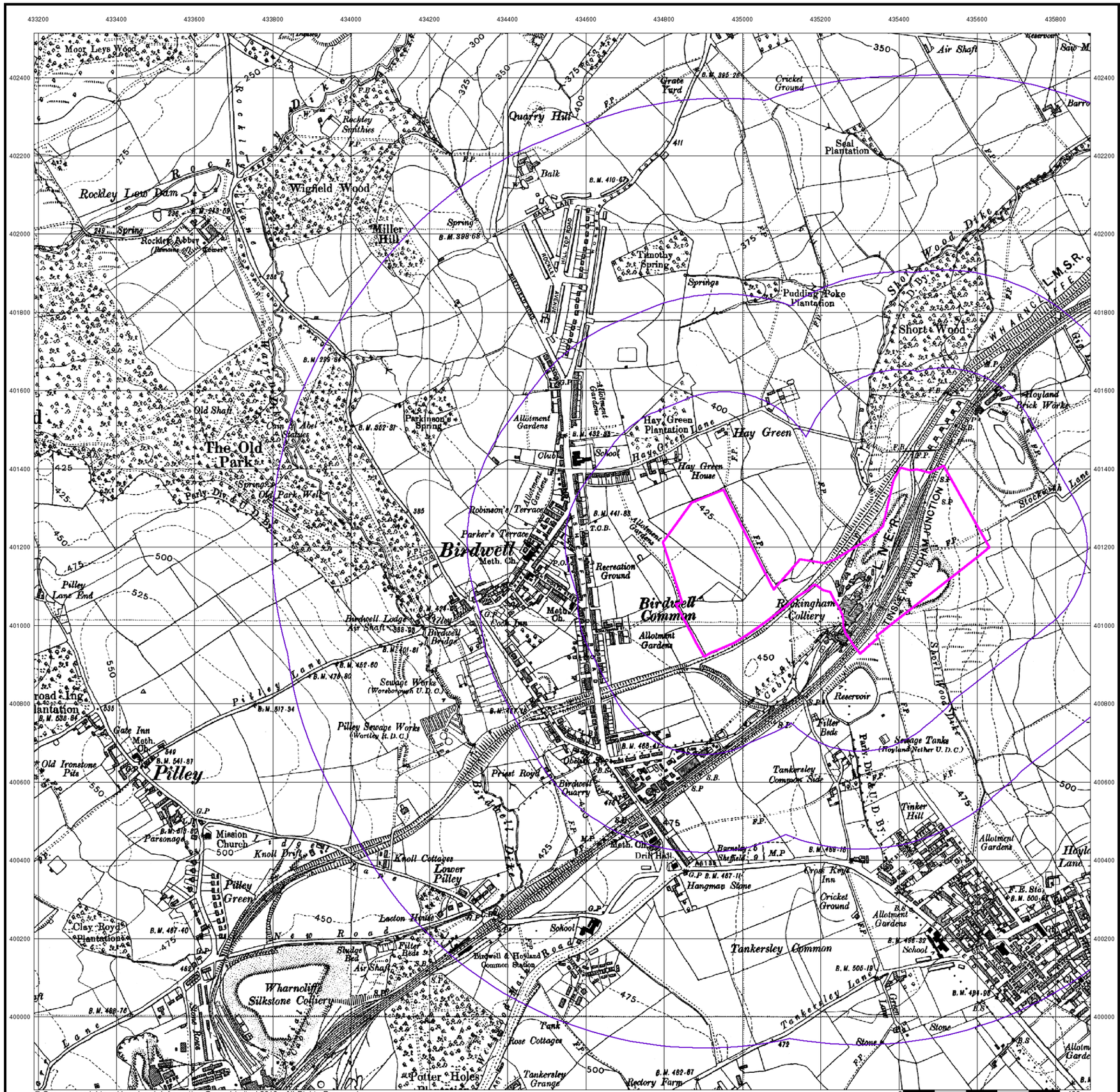
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Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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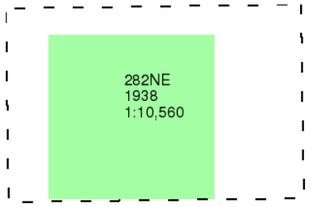
Yorkshire

Published 1938

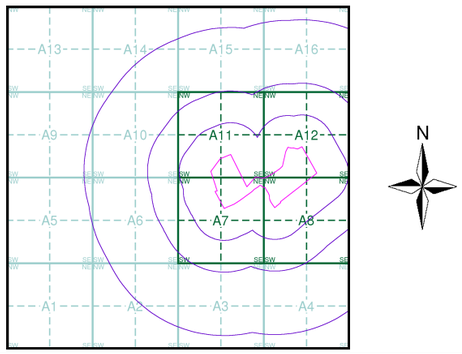
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

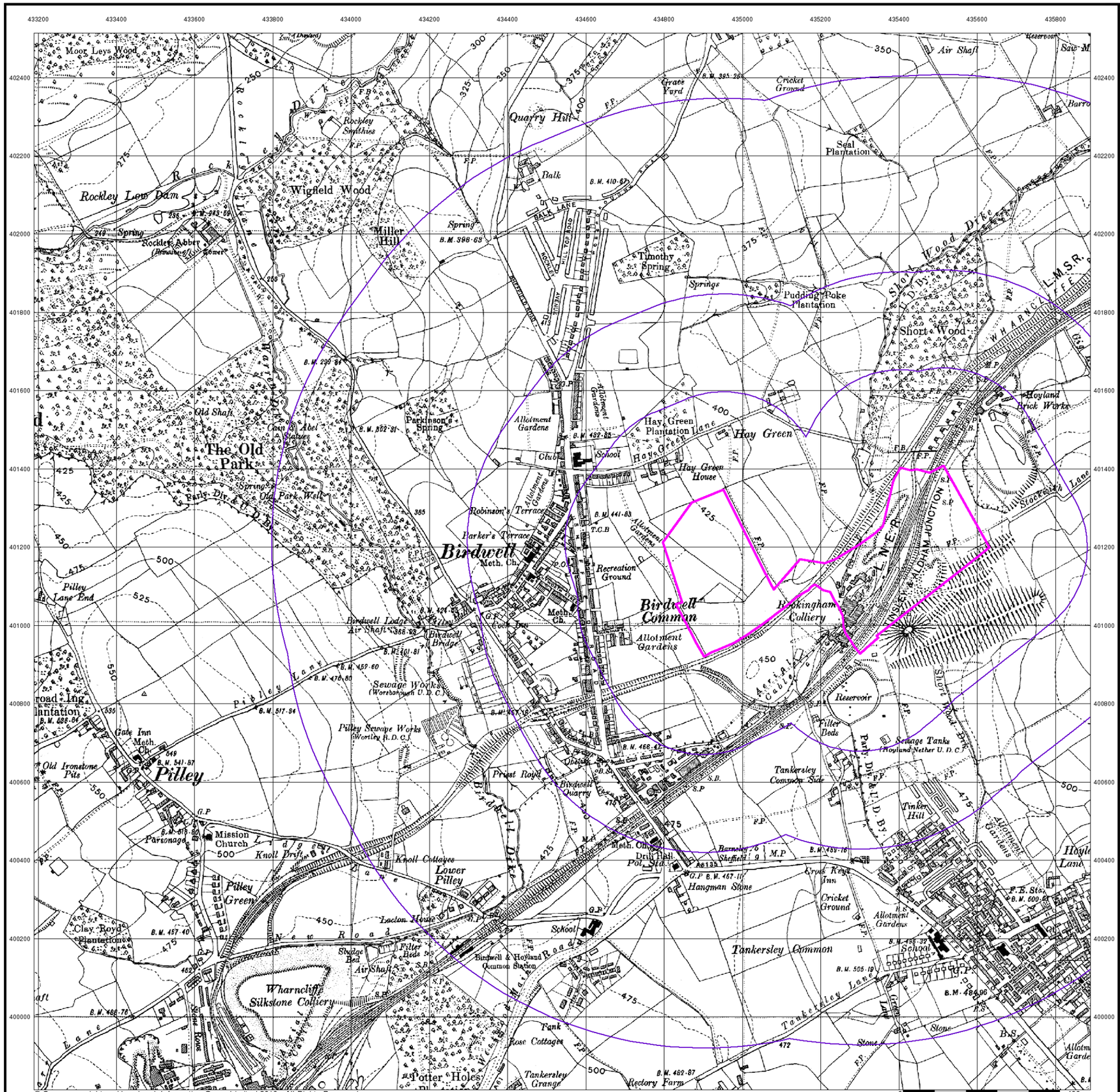
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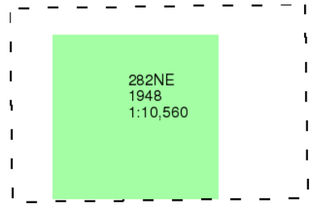
Yorkshire

Published 1948

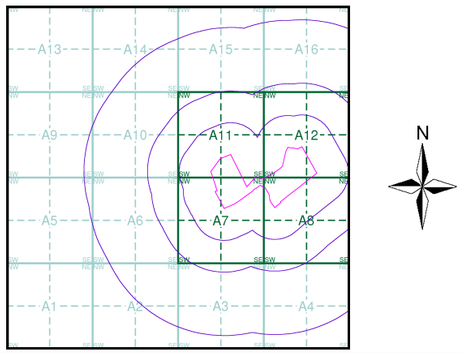
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The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps.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

Map Name(s) and Date(s)



Historical Map - Slice A



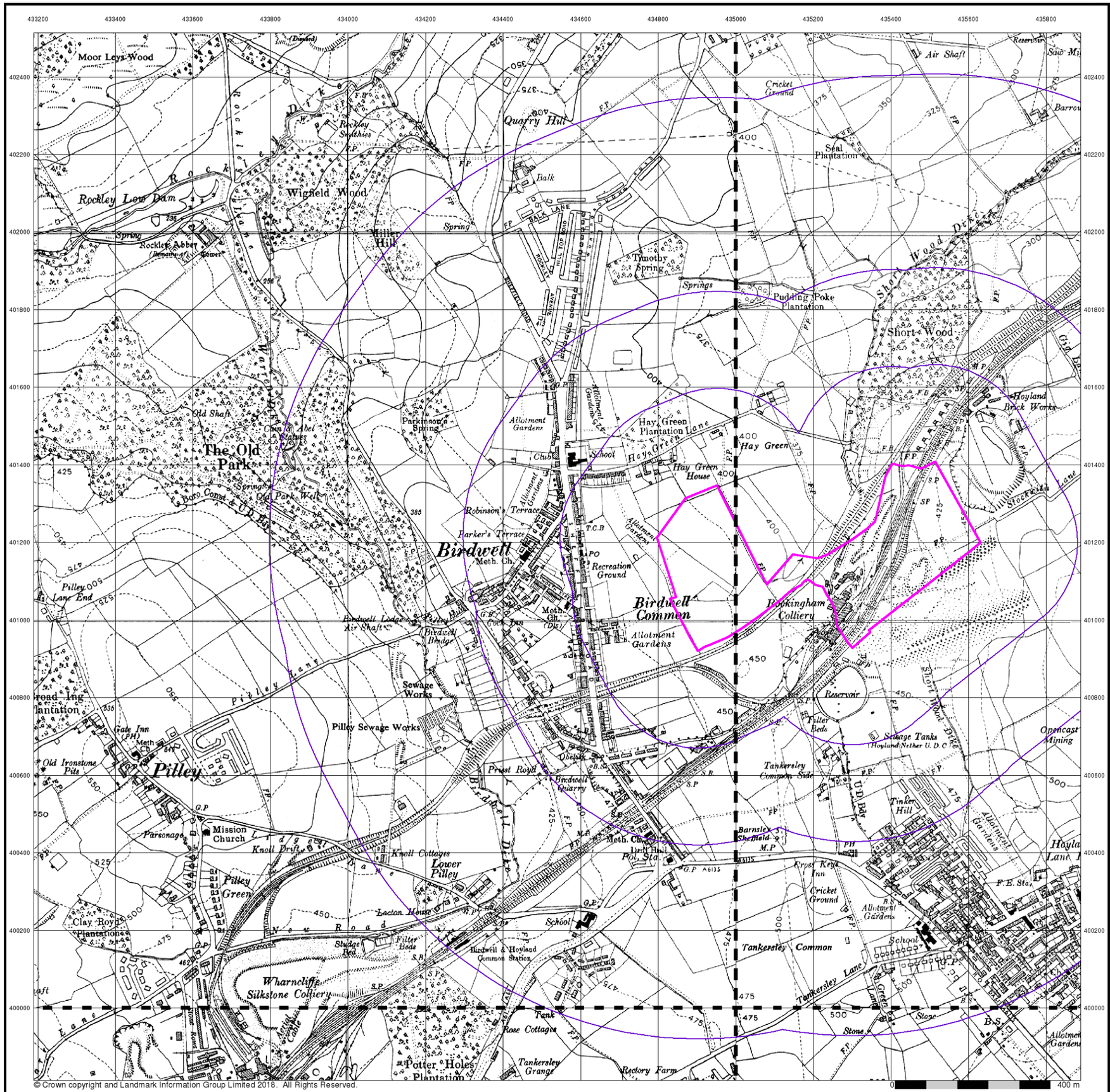
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Ordnance Survey Plan

Published 1956

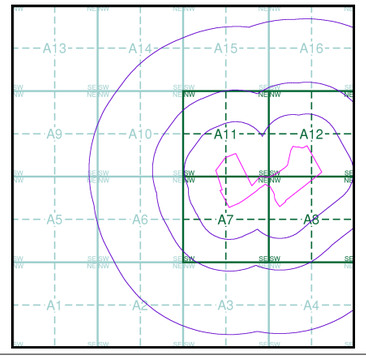
Source map scale - 1:10,000

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)

SE30SW 1956 1:10,560	SE30SE 1956 1:10,560
SK39NW 1956 1:10,560	SK39NE 1956 1:10,560

Historical Map - Slice A



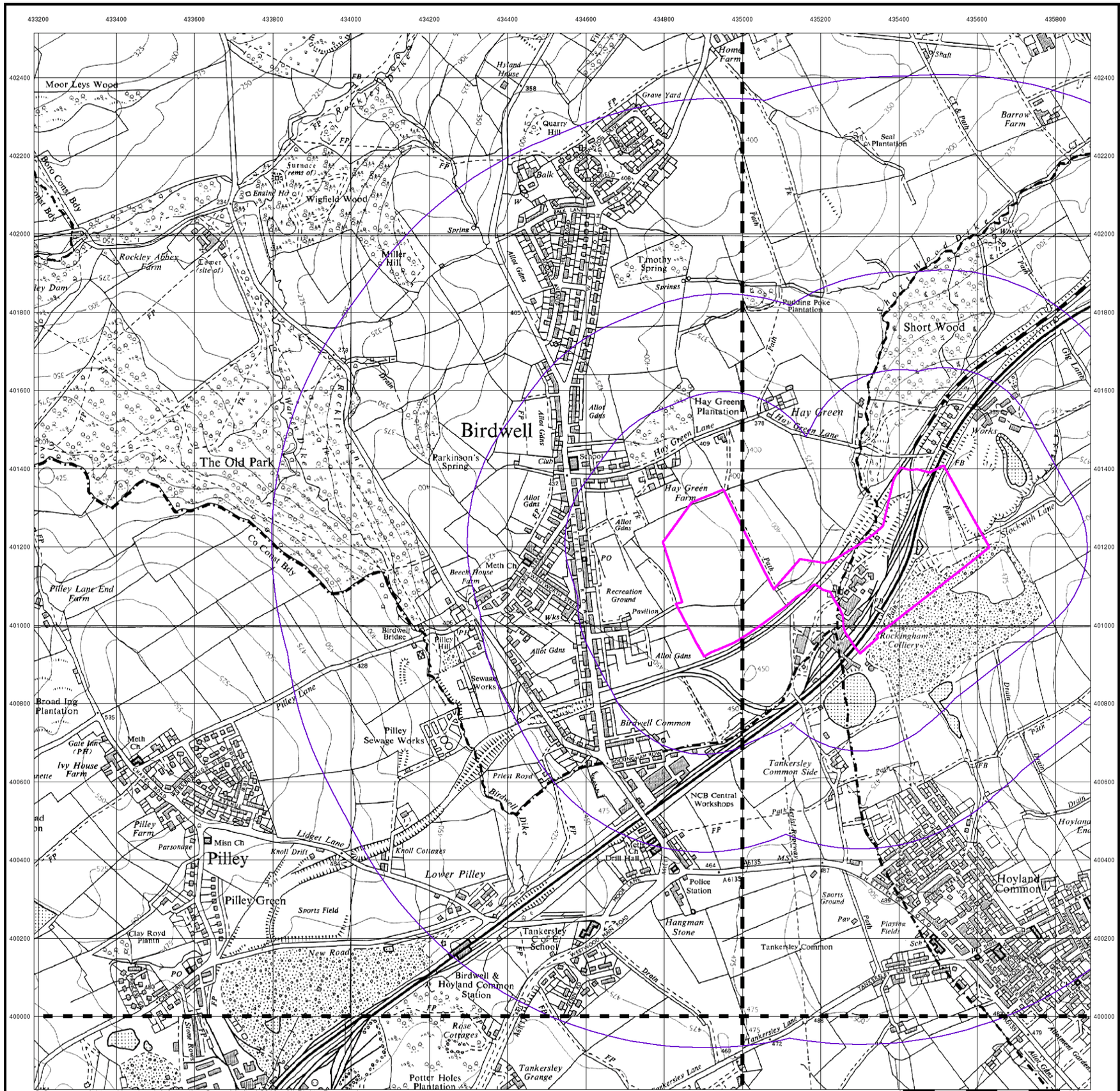
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Ordnance Survey Plan

Published 1965 - 1966

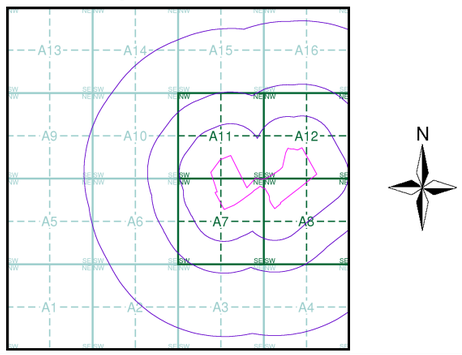
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE30SW 1965 1:10,560	SE30SE 1966 1:10,560
SK39NW 1966 1:10,560	SK39NE 1965 1:10,560

Historical Map - Slice A



Order Details

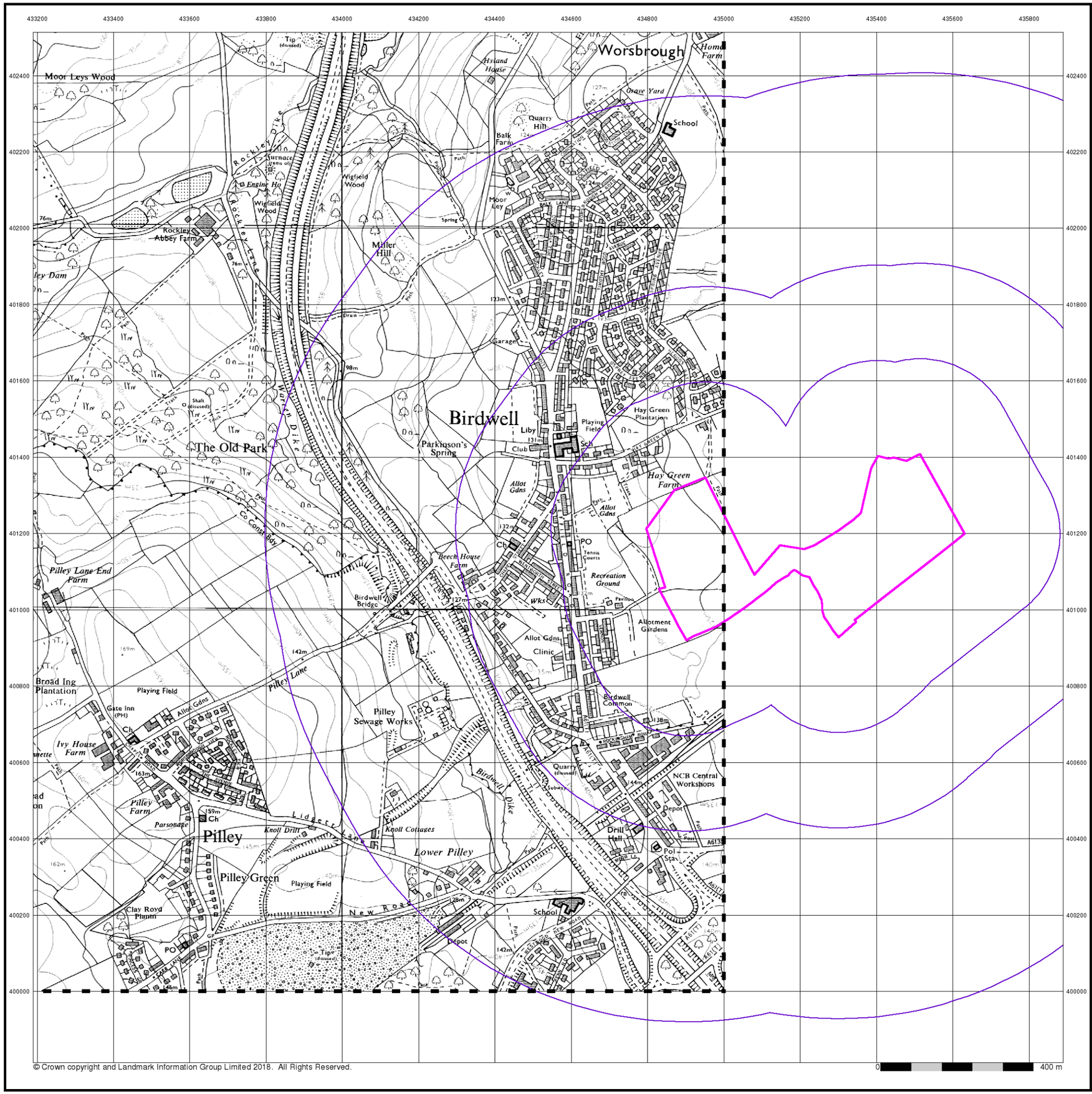
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Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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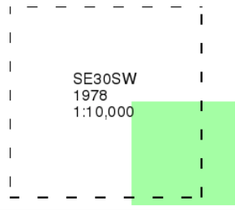
Ordnance Survey Plan

Published 1978

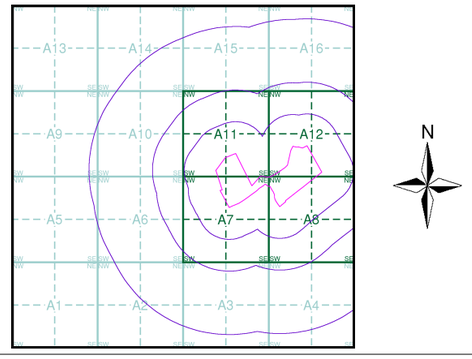
Source map scale - 1:10,000

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



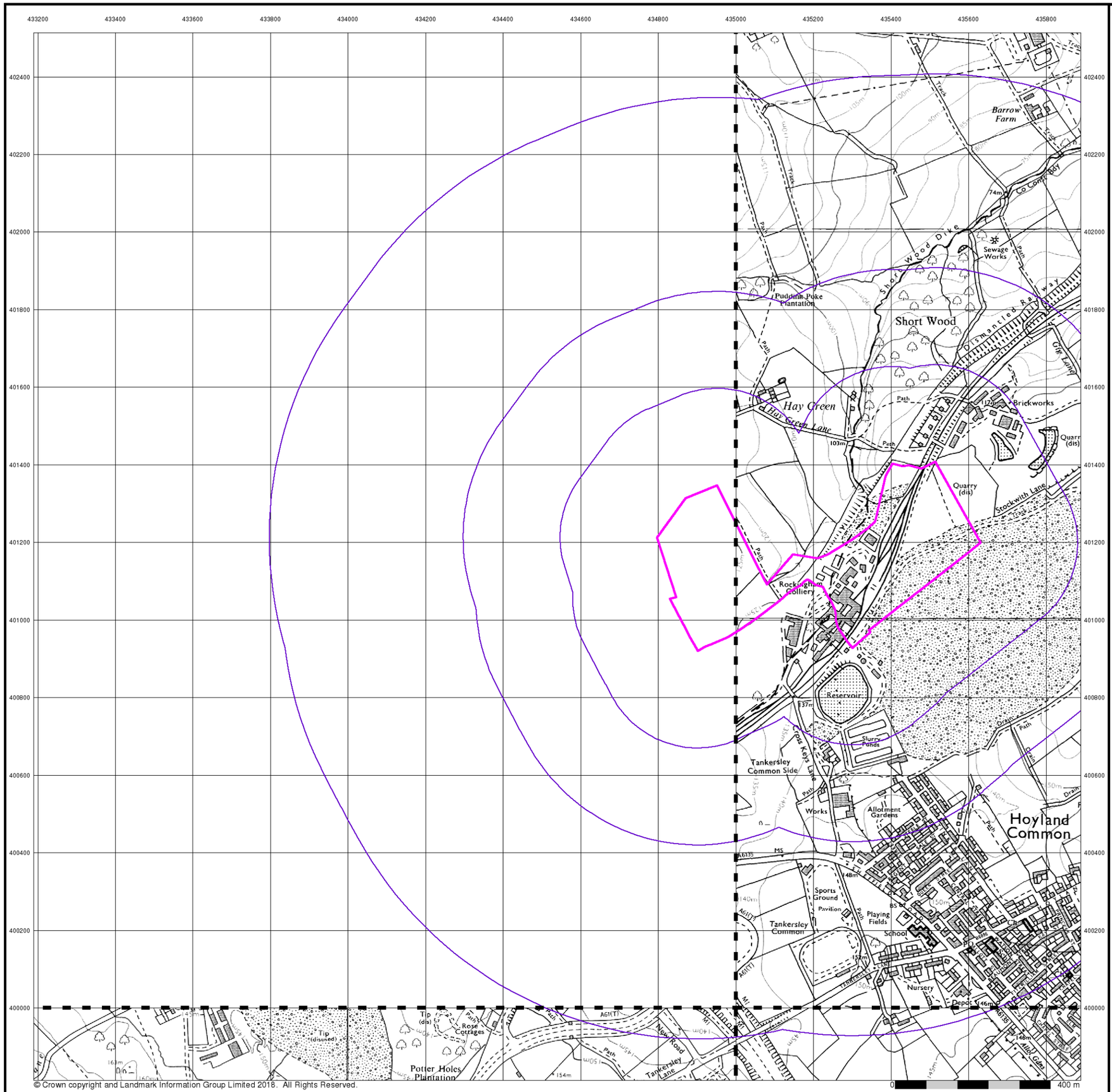
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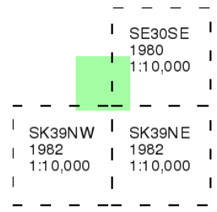
Ordnance Survey Plan

Published 1980 - 1982

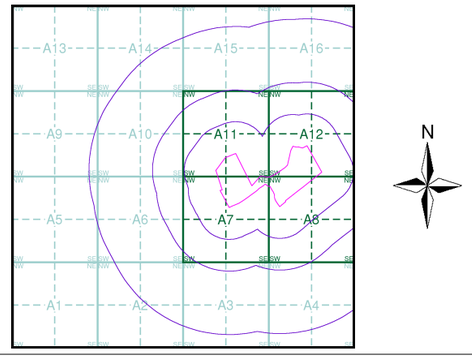
Source map scale - 1:10,000

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



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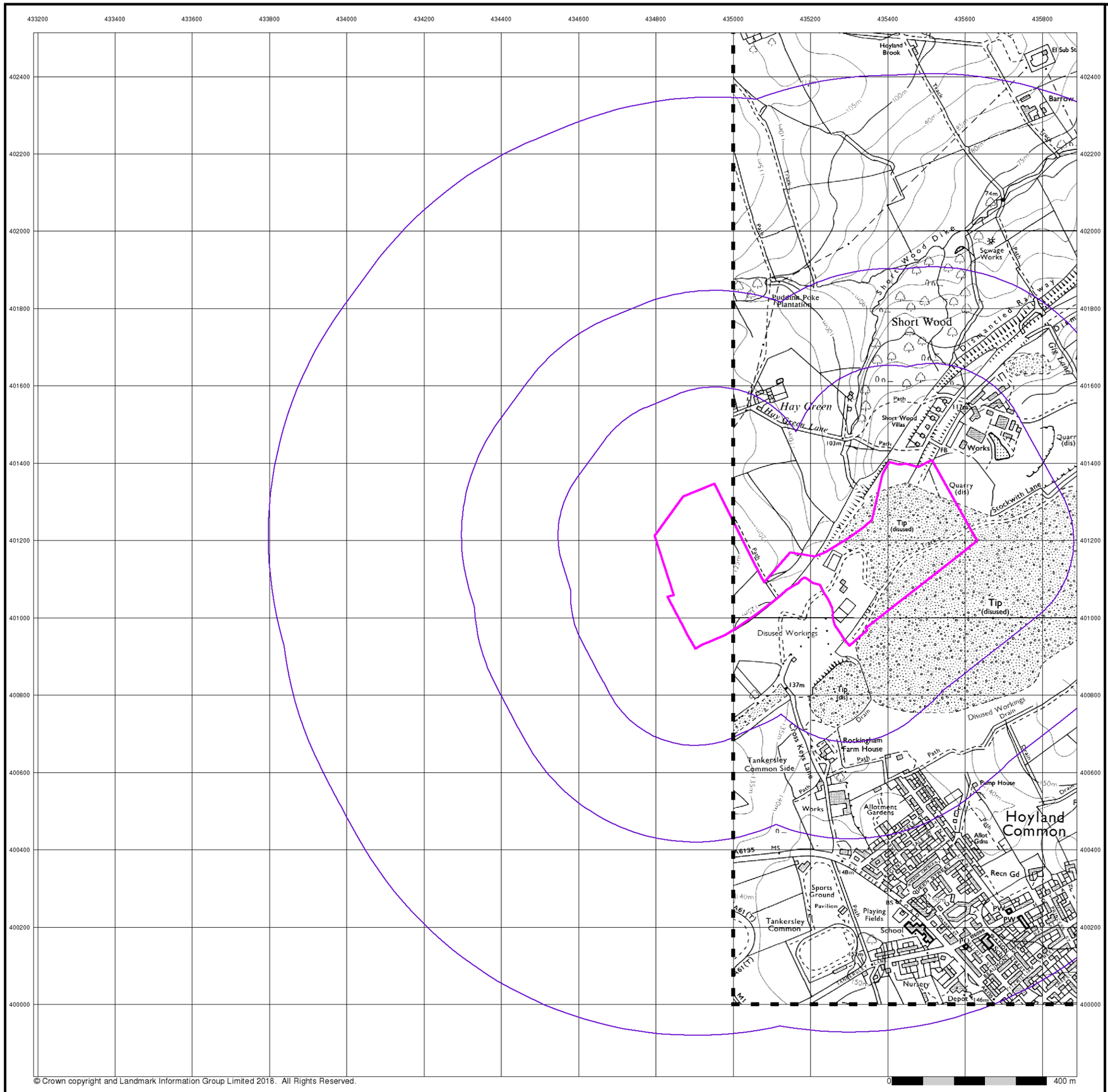
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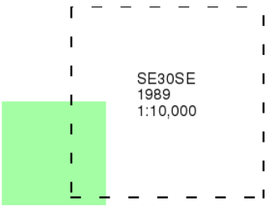
Ordnance Survey Plan

Published 1989

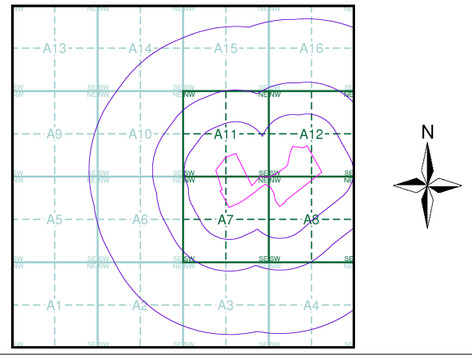
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Map Name(s) and Date(s)



Historical Map - Slice A



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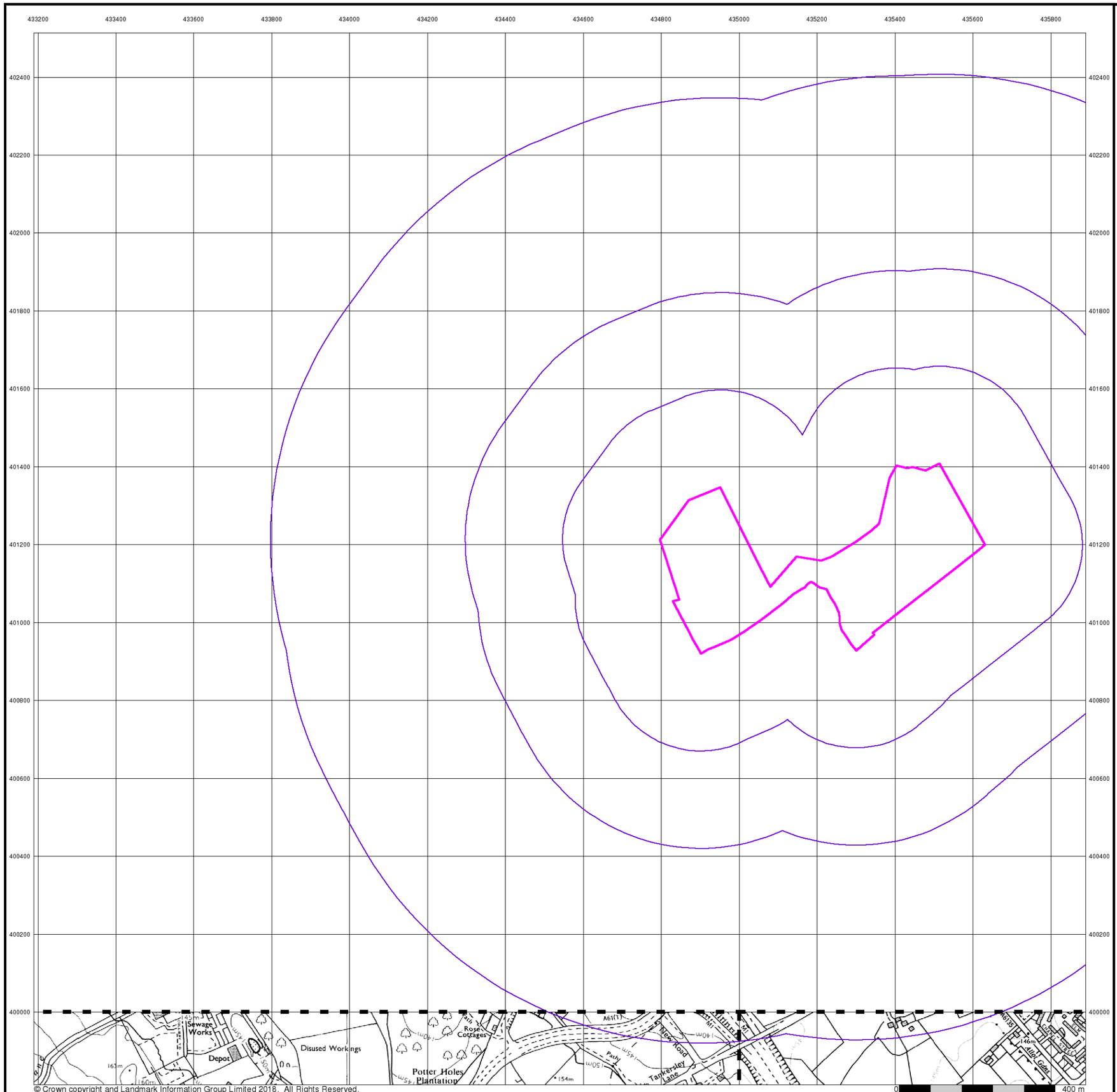
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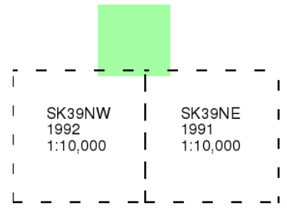
Ordnance Survey Plan

Published 1991 - 1992

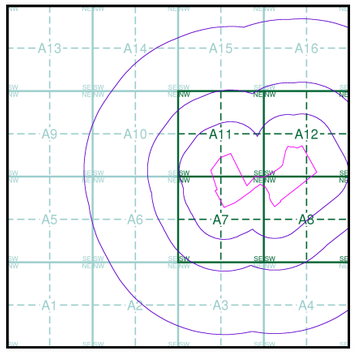
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

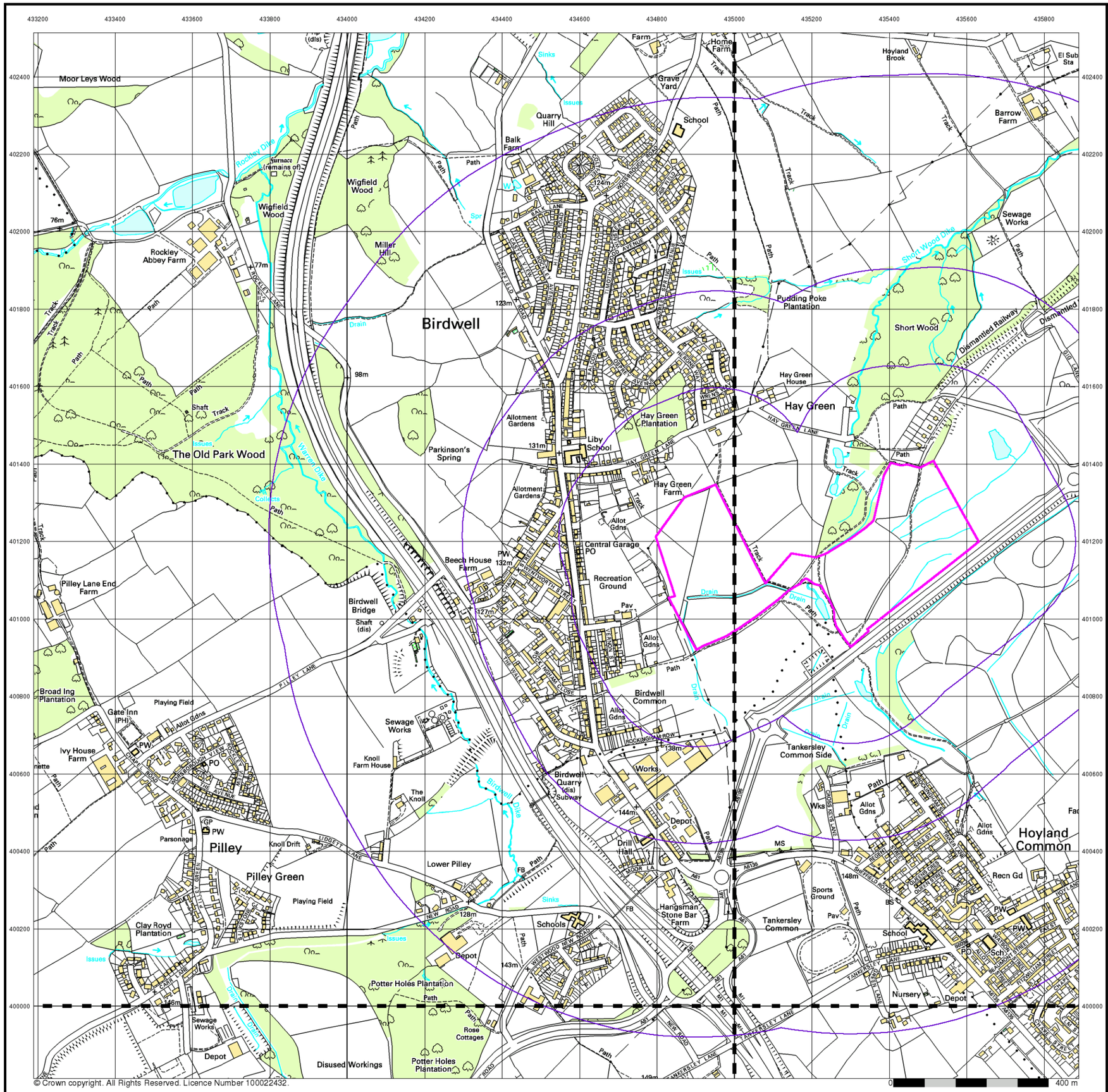
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10k Raster Mapping

Published 2000

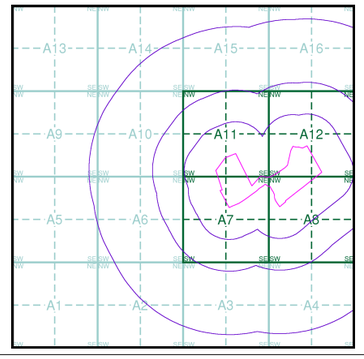
Source map scale - 1:10,000

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)

SE30SW 2000 1:10,000	SE30SE 2000 1:10,000
SK39NW 2000 1:10,000	SK39NE 2000 1:10,000

Historical Map - Slice A



Order Details

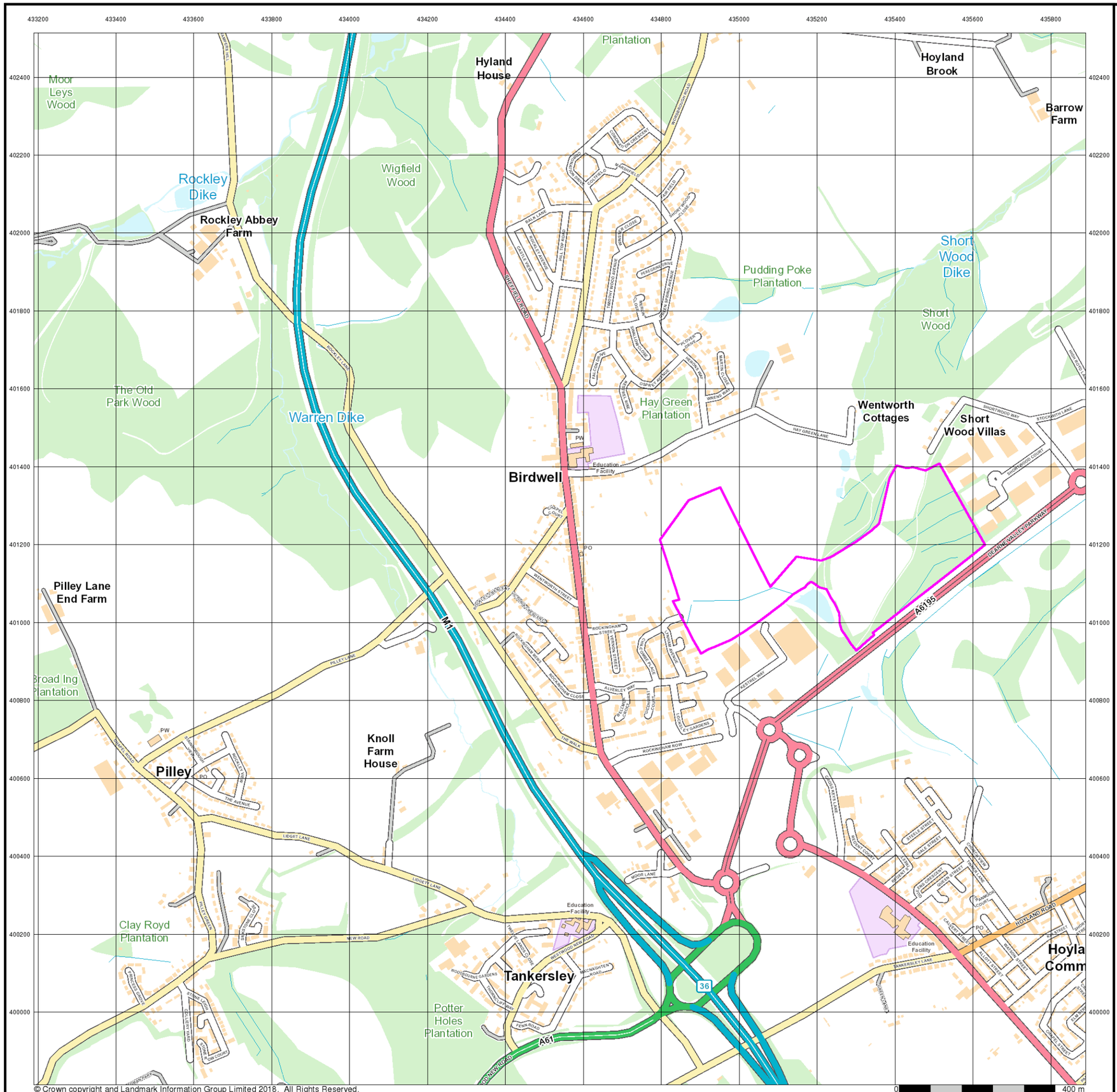
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Street View

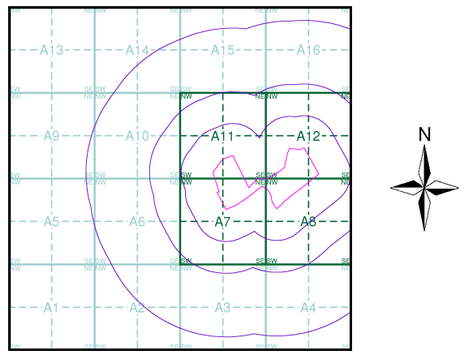
Published 2018

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice A



Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	434950, 401150
Slice:	A
Site Area (Ha):	18.59
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Site Details

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Envirocheck® Report:

Datasheet

Order Details:

Order Number:
182024082_1_1

Customer Reference:
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National Grid Reference:
436190, 401240

Slice:
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Site Area (Ha):
18.59

Search Buffer (m):
1000

Site Details:

K F C, Unit 1A
Kestrel Way
Birdwell
BARNSLEY
S70 5SZ

Client Details:

Miss E Roberts
RSK Environment Ltd
Spring Lodge
172 Chester Road
Helsby
Cheshire
WA6 0AR

Contents

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Agency & Hydrological	1
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Geological	8
Industrial Land Use	10
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Introduction

The Environment Act 1995 has made site sensitivity a key issue, as the legislation pays as much attention to the pathways by which contamination could spread, and to the vulnerable targets of contamination, as it does the potential sources of contamination.
For this reason, Landmark's Site Sensitivity maps and Datasheet(s) place great emphasis on statutory data provided by the Environment Agency/Natural Resources Wales and the Scottish Environment Protection Agency; it also incorporates data from Natural England (and the Scottish and Welsh equivalents) and Local Authorities; and highlights hydrogeological features required by environmental and geotechnical consultants. It does not include any information concerning past uses of land. The datasheet is produced by querying the Landmark database to a distance defined by the client from a site boundary provided by the client.
In this datasheet the National Grid References (NGRs) are rounded to the nearest 10m in accordance with Landmark's agreements with a number of Data Suppliers.

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Report Version v53.0

Summary

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Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents					
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					
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 4		Yes		
Pollution Incidents to Controlled Waters	pg 4				1
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 4		1		
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register					
Water Abstractions					
Water Industry Act Referrals					
Groundwater Vulnerability	pg 4	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 4	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				n/a	n/a
Flooding from Rivers or Sea without Defences				n/a	n/a
Areas Benefiting from Flood Defences				n/a	n/a
Flood Water Storage Areas				n/a	n/a
Flood Defences				n/a	n/a
OS Water Network Lines	pg 4		2	4	11

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites					
Historical Landfill Sites					
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 7				1
Local Authority Landfill Coverage	pg 7	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites					
Registered Landfill Sites					
Registered Waste Transfer Sites					
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 8	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 8				2
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 8	Yes	n/a	n/a	n/a
Mining Instability	pg 8	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 8	Yes		n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 8	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 8	Yes		n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 8	Yes	Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 9	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 9	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Summary

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	435500 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	435250 401237
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	435500 401300
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	0	1	435350 401237
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	435350 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	(W)	0	1	435350 400950
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	0	1	435800 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	435400 401237
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	435250 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	435250 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	0	1	435600 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	0	1	435600 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	3	1	435400 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	19	1	435700 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	19	1	435700 401237
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(W)	21	1	435350 401300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	36	1	435300 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	36	1	435550 401050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	69	1	435950 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	115	1	435700 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	120	1	435750 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	138	1	435450 400750

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	(W)	143	1	435250 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(W)	181	1	435300 401550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	186	1	435250 400750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	196	1	435600 401600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	197	1	435700 401550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (W)	219	1	436050 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	222	1	435900 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	228	1	435350 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	234	1	435250 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	234	1	435600 400600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	253	1	435350 401650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	269	1	435850 400900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	269	1	435300 401650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	273	1	435550 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	278	1	435350 400650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	295	1	435600 401700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	298	1	435450 401700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	298	1	435700 400750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	319	1	435850 401550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (W)	319	1	436000 401237
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	328	1	435350 400600
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	328	1	435300 400600

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	B9SW (NW)	333	1	435950 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	335	1	435650 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	347	1	435750 401700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	348	1	435800 400850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	354	1	435650 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	358	1	435950 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	374	1	435600 400650
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	378	1	435300 400550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	382	1	436000 401500
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	390	1	435750 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	398	1	435400 401800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	399	1	436050 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	402	1	436000 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	416	1	435800 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (SW)	419	1	436190 401237
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	(SW)	435	1	435750 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	451	1	435650 401850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(SW)	457	1	435850 400750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	458	1	435800 401800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	(NW)	463	1	435700 401850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B5SW (SW)	466	1	435950 400700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	B9SW (NW)	489	1	436100 401450

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Nearest Surface Water Feature	B9SW (W)	57	-	435929 401345
1	**Pollution Incidents to Controlled Waters** Property Type: Highway/Car Park Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Oils - Diesel (Including Agricultural) Note: Not Supplied Incident Date: 3rd March 1994 Incident Reference: 150516 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	B5SW (S)	839	2	436100 400500
	River Quality Name: Blacker_Dyke GQA Grade: River Quality C Reach: Rockingham_Colliery_River_Dov Estimated Distance (km): 2.9 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	B13SW (N)	182	2	436034 402149
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	B9SW (SW)	0	2	436190 401237
	Groundwater Vulnerability Soil Classification: Soils of Low Leaching Potential - Soils in which pollutants are unlikely to penetrate the soil layer because water movement is largely horizontal or they have large ability to attenuate diffuse pollutants. Lateral flow from these soils contribute to groundwater recharge elsewhere in the catchment Map Sheet: Sheet 11 South Pennines Scale: 1:100,000	B9SW (SW)	0	2	436162 401214
	Drift Deposits None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	B9SW (SW)	0	1	436190 401237
	Superficial Aquifer Designations No Data Available				
	Extreme Flooding from Rivers or Sea without Defences None				
	Flooding from Rivers or Sea without Defences None				
	Areas Benefiting from Flood Defences None				
	Flood Water Storage Areas None				
	Flood Defences None				
2	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 320.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B9SW (W)	57	3	435929 401345

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 353.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B9SW (W)	237	3	436002 401203
4	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 2.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B9SW (W)	331	3	435929 401345
5	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 5.8 Watercourse Level: Underground Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	B9SW (NW)	332	3	435933 401349
6	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 39.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	B9SW (NW)	337	3	435960 401378
7	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 318.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B5NW (SW)	368	3	436066 401129
8	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 26.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B13SW (N)	634	3	435944 401876
9	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 313.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	(NW)	699	3	435706 402079
10	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 89.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B13SW (N)	845	3	435997 402101
11	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 67.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 2	B9SE (E)	881	3	436498 401357

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
12	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 248.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B13SW (N)	894	3	436146 402039
13	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 84.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B13NW (N)	896	3	435972 402177
14	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 21.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Owlet Dike Catchment Name: Don and Rother Primacy: 1	B9NE (N)	922	3	436335 401827
15	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 387.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	B13SW (N)	925	3	436057 402169
16	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 164.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Owlet Dike Catchment Name: Don and Rother Primacy: 1	B13SE (N)	943	3	436352 401840
17	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 347.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blacker Dike Catchment Name: Don and Rother Primacy: 1	B13NE (N)	944	3	436275 402230
18	**OS Water Network Lines** Watercourse Form: Inland river Watercourse Length: 125.2 Watercourse Level: On ground surface Permanent: True Watercourse Name: Blacker Dike Catchment Name: Don and Rother Primacy: 1	B13NW (N)	944	3	435935 402252

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
19	**Licensed Waste Management Facilities (Locations)** Licence Number: 60613 Location: Land / Premises At, Blacker Hill Sidings, Blacker Hill, Barnsley, South Yorkshire, S74 ORE Operator Name: Warwick Ward Machinery Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Metal Recycling Sites (Vehicle Dismantlers) **Licence Status: Issued** Issued: 9th September 1993 Last Modified: Not Supplied Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Approximate location provided by supplier	B13SW (N)	767	2	436000 402000
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	4	436190 401237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Middle Coal Measures Formation And South Wales Middle Coal Measures Formation (Undifferentiated)	B9SW (SW)	0	1	436190 401237
20	**BGS Recorded Mineral Sites** Site Name: Hoyland Common Occs Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204823 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	B5SW (SW)	598	1	435900 400650
21	**BGS Recorded Mineral Sites** Site Name: Bank Plantation Location: Not Supplied Source: British Geological Survey, National Geoscience Information Service Reference: 204790 Type: Opencast **Status: Ceased** Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	B13SW (N)	823	1	436205 401855
	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.	B9SW (SW)	0	5	436190 401237
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	B9SW (SW)	0	-	436190 401237
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (SW)	0	1	436087 401156
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	(SW)	217	1	435710 400958
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	B9SW (NW)	231	1	435978 401450
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B5NW (SW)	0	1	436087 401156

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	B9SW (NW)	74	1	435939 401362
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	(SW)	190	1	435700 400723
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (NW)	231	1	435978 401450
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (S)	0	1	436194 401219
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	B9SW (NW)	0	1	435939 401362
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	B9SW (NW)	13	1	435978 401450
	Radon Potential - Radon Affected Areas Affected Area: The property is in an Intermediate probability radon area (1 to 3% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	B9SW (SW)	0	1	436190 401237
	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	B9SW (SW)	0	1	436190 401237

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
22	**Contemporary Trade Directory Entries** Name: G R Location: Upper Hoyland Rd, Hoyland, Barnsley, South Yorkshire, S74 9NL Classification: Garage Services **Status: Inactive** Positional Accuracy: Manually positioned within the geographical locality	B9SE (NE)	605	-	436233 401258
23	**Contemporary Trade Directory Entries** Name: Air-Con Express Location: 6, Stonehill Close, Hoyland, Barnsley, South Yorkshire, S74 9NH Classification: Air Conditioning & Refrigeration Contractors **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B9SE (E)	656	-	436283 401270
24	**Contemporary Trade Directory Entries** Name: Euramax Location: Euramax House, Ashroyds Way, Barnsley, S74 9SB Classification: PVC-U Products - Manufacturers & Suppliers **Status: Active** Positional Accuracy: Automatically positioned to the address	B9SE (NE)	790	-	436384 401435
25	**Contemporary Trade Directory Entries** Name: P B C Location: 139, Hoyland Road, Hoyland, Barnsley, South Yorkshire, S74 0AP Classification: Catering Equipment **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B1NW (S)	856	-	436066 400452
26	**Contemporary Trade Directory Entries** Name: Pete'S Window Blinds Location: 91, Springfield Road, Hoyland, Barnsley, South Yorkshire, S74 0BX Classification: Blinds, Awnings & Canopies **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B1NW (S)	921	-	435971 400291
27	**Contemporary Trade Directory Entries** Name: Euramax Solutions Ltd Location: Ashroyd Business Park, Ashroyds Way, Hoyland, Barnsley, South Yorkshire, S74 9SB Classification: PVC-U Products - Manufacturers & Suppliers **Status: Inactive** Positional Accuracy: Automatically positioned to the address	B10SW (E)	948	-	436578 401242

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
28	**Ancient Woodland** Name: Short Wood Reference: 1103458 Area(m²): 94053.61 Type: Ancient and Semi-Natural Woodland	(NW)	41	6	435560 401647
29	**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	B9SW (S)	0	7	436198 401178
30	**Areas of Unadopted Green Belt** Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Local Plan **Status: Submission Draft** Plan Date: 23rd December 2016	B9NW (NW)	352	7	436076 401503
31	**Nitrate Vulnerable Zones** Name: River Dearne Nvz Description: Surface Water Source: Environment Agency, Head Office	B9SW (SW)	0	9	436190 401237

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices		
Rotherham Metropolitan Borough Council - Environmental Health Department	April 2014	Annual Rolling Update
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	July 2013	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	October 2017	Annual Rolling Update
Discharge Consents		
Environment Agency - North East Region	July 2018	Quarterly
Enforcement and Prohibition Notices		
Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls		
Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control		
Environment Agency - North East Region	July 2018	Quarterly
Local Authority Integrated Pollution Prevention And Control		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Variable
Sheffield City Council - Environmental Protection Service	June 2014	Variable
Rotherham Metropolitan Borough Council - Planning Department	October 2014	Variable
Local Authority Pollution Prevention and Controls		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Annual Rolling Update
Sheffield City Council - Environmental Protection Service	June 2014	Annual Rolling Update
Rotherham Metropolitan Borough Council - Planning Department	October 2014	Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	April 2014	Variable
Sheffield City Council - Environmental Protection Service	June 2014	Variable
Rotherham Metropolitan Borough Council - Planning Department	October 2014	Variable
Nearest Surface Water Feature		
Ordnance Survey	September 2017	
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
Registered Radioactive Substances		
Environment Agency - North East Region	January 2015	
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	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Water Abstractions		
Environment Agency - North East Region	July 2018	Quarterly
Water Industry Act Referrals		
Environment Agency - North East Region	October 2017	Quarterly
Groundwater Vulnerability		
Environment Agency - Head Office	April 2015	Not Applicable
Drift Deposits		
Environment Agency - Head Office	January 1999	Not Applicable

Agency & Hydrological	Version	Update Cycle
Bedrock Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations		
British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones		
Environment Agency - Head Office	January 2018	Quarterly
Extreme Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2018	Quarterly
Flooding from Rivers or Sea without Defences		
Environment Agency - Head Office	August 2018	Quarterly
Areas Benefiting from Flood Defences		
Environment Agency - Head Office	August 2018	Quarterly
Flood Water Storage Areas		
Environment Agency - Head Office	August 2018	Quarterly
Flood Defences		
Environment Agency - Head Office	August 2018	Quarterly
OS Water Network Lines		
Ordnance Survey	May 2018	Quarterly
BGS Groundwater Flooding Susceptibility		
British Geological Survey - National Geoscience Information Service	May 2013	As notified
Waste	**Version**	**Update Cycle**
BGS Recorded Landfill Sites		
British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites		
Environment Agency - Head Office	July 2018	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	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Licensed Waste Management Facilities (Locations)		
Environment Agency - North East Region - Ridings Area	July 2018	Quarterly
Environment Agency - North East Region - Yorkshire Area	July 2018	Quarterly
Local Authority Landfill Coverage		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Rotherham Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Sheffield City Council - Environmental Protection Service	May 2000	Not Applicable
Local Authority Recorded Landfill Sites		
Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards	May 2000	Not Applicable
Rotherham Metropolitan Borough Council - Environmental Health Department	May 2000	Not Applicable
Sheffield City Council - Environmental Protection Service	May 2000	Not Applicable
Registered Landfill Sites		
Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable
Registered Waste Transfer Sites		
Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites		
Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Environment Agency - North East Region - Yorkshire Area	March 2003	Not Applicable

Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH)		
Health and Safety Executive	April 2018	Bi-Annually
Explosive Sites		
Health and Safety Executive	March 2017	Variable
Notification of Installations Handling Hazardous Substances (NIHHS)		
Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements		
Rotherham Metropolitan Borough Council	February 2016	Variable
Sheffield City Council	February 2016	Variable
Barnsley Metropolitan Borough Council - Planning Department	January 2016	Variable
Planning Hazardous Substance Consents		
Rotherham Metropolitan Borough Council	February 2016	Variable
Sheffield City Council	February 2016	Variable
Barnsley Metropolitan Borough Council - Planning Department	January 2016	Variable

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology		
British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Recorded Mineral Sites		
British Geological Survey - National Geoscience Information Service	May 2018	Bi-Annually
CBSCB Compensation District		
Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas		
The Coal Authority - Property Searches	March 2014	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	As notified
Potential for Compressible Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Ground Dissolution Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Landslide Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Running Sand Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	As notified
Potential for Shrinking or Swelling Clay Ground Stability Hazards		
British Geological Survey - National Geoscience Information Service	June 2015	As notified
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	August 2018	Quarterly
Fuel Station Entries		
Experian Catalist	August 2018	Quarterly
Gas Pipelines		
National Grid	July 2014	
Underground Electrical Cables		
National Grid	December 2015	
Sensitive Land Use	**Version**	**Update Cycle**
Ancient Woodland		
Natural England	August 2018	Bi-Annually
Areas of Adopted Green Belt		
Barnsley Metropolitan Borough Council - Planning Department	August 2018	As notified
Rotherham Metropolitan Borough Council	August 2018	As notified
Sheffield City Council	August 2018	As notified
Areas of Unadopted Green Belt		
Barnsley Metropolitan Borough Council - Planning Department	August 2018	As notified
Rotherham Metropolitan Borough Council	August 2018	As notified
Sheffield City Council	August 2018	As notified
Areas of Outstanding Natural Beauty		
Natural England	August 2018	Bi-Annually
Environmentally Sensitive Areas		
Natural England	January 2017	
Forest Parks		
Forestry Commission	April 1997	Not Applicable
Local Nature Reserves		
Natural England	August 2018	Bi-Annually
Marine Nature Reserves		
Natural England	January 2018	Bi-Annually
National Nature Reserves		
Natural England	August 2018	Bi-Annually
National Parks		
Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones		
Environment Agency - Head Office	December 2017	Bi-Annually
Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	
Ramsar Sites		
Natural England	August 2018	Bi-Annually
Sites of Special Scientific Interest		
Natural England	October 2018	Bi-Annually
Special Areas of Conservation		
Natural England	August 2018	Bi-Annually
Special Protection Areas		
Natural England	August 2018	Bi-Annually

Data Suppliers

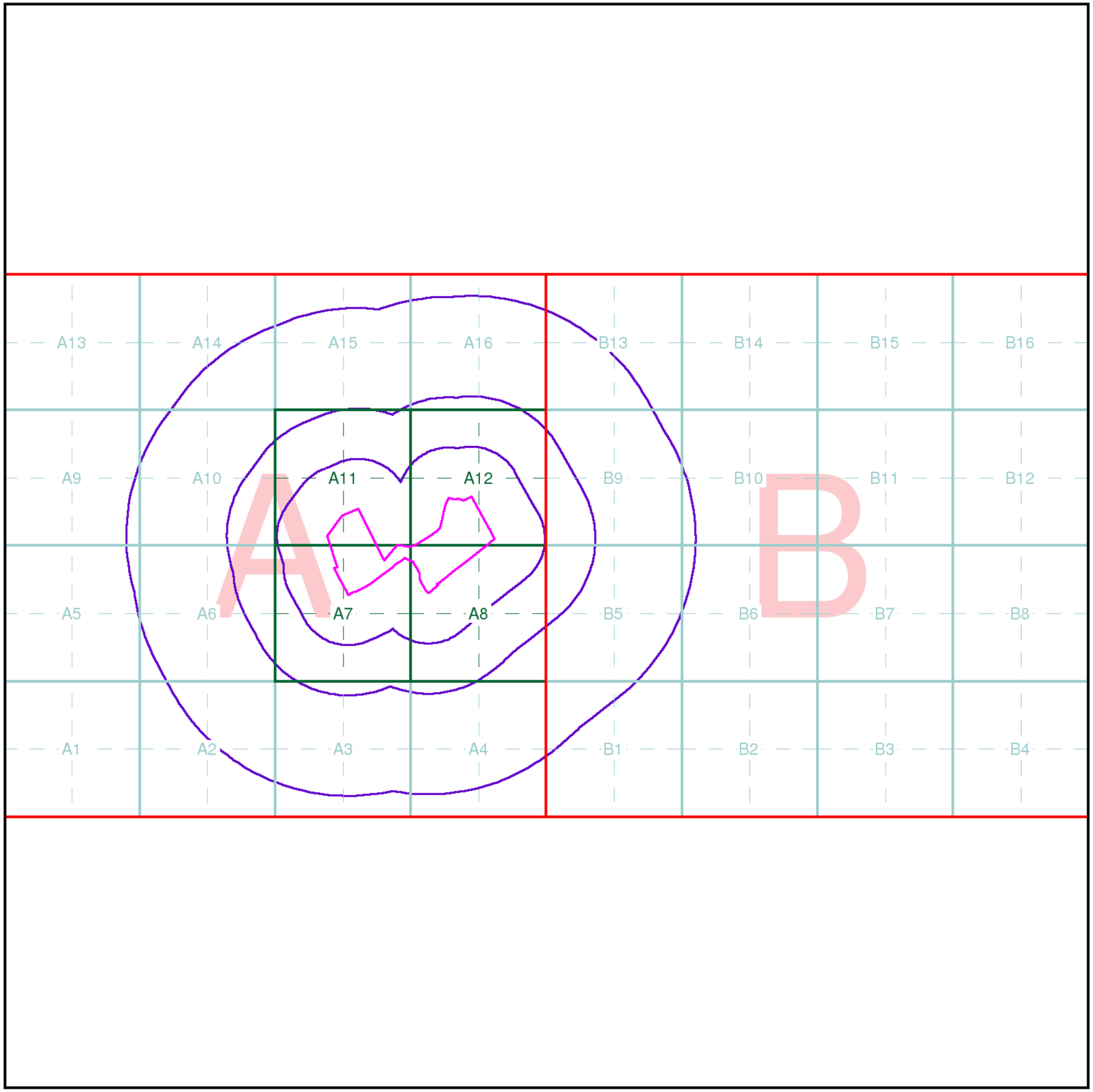
A selection of organisations who provide data within this report

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

Useful Contacts

Contact	Name and Address	Contact Details
1	**British Geological Survey - Enquiry Service** British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	**Environment Agency - National Customer Contact Centre (NCCC)** PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	**Ordnance Survey** Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
4	**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
5	**The Coal Authority - Property Searches** 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
6	**Natural England** County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
7	**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
8	**Rotherham Metropolitan Borough Council** Bailey House, Rawmarsh Road, Rotherham, South Yorkshire, S60 1QT	Telephone: 01709 382121 Fax: 01709 823810 Website: www.rotherham.gov.uk
9	**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:

Map data

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Environment Agency

NATURAL ENGLAND

Envirocheck reports are compiled from 136 different sources of data.

Client Details

Miss E Roberts, RSK Environment Ltd, Spring Lodge, 172 Chester Road, Helsby, Cheshire, WA6 0AR

Order Details

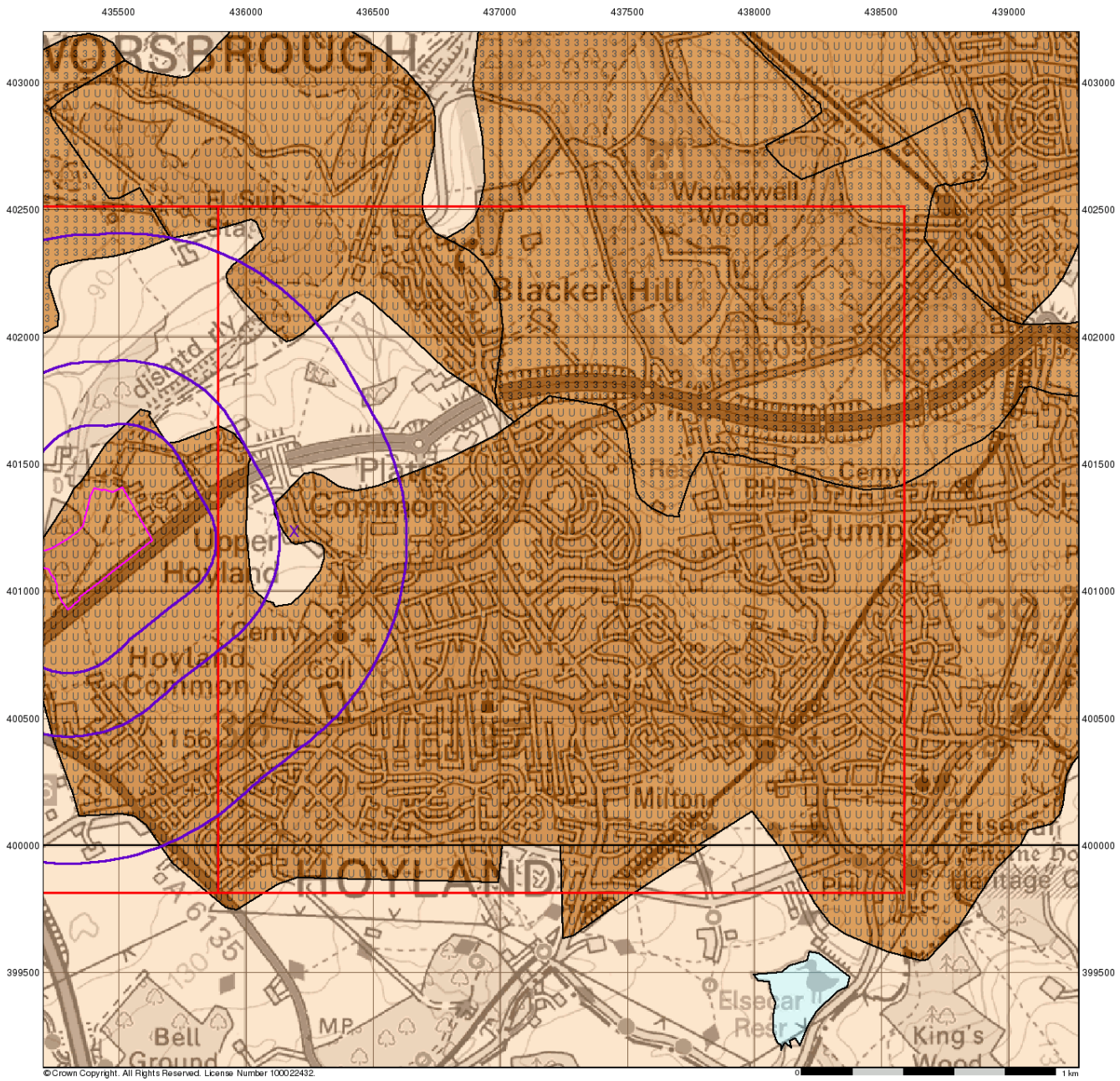
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Customer Ref:	322494
National Grid Reference:	435210, 401150
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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Groundwater Vulnerability

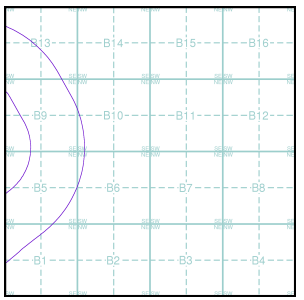
General

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

Agency and Hydrological

Geological Classes	Soil Classes
Major Aquifer (Highly Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Minor Aquifer (Variably Permeable)	High (H) 1, 2, 3, U
	Intermediate (I) 1, 2
	Low
Non Aquifer (Negligibly Permeable)	
Water or Sea	
Drift Deposit	

Site Sensitivity Context Map - Slice B



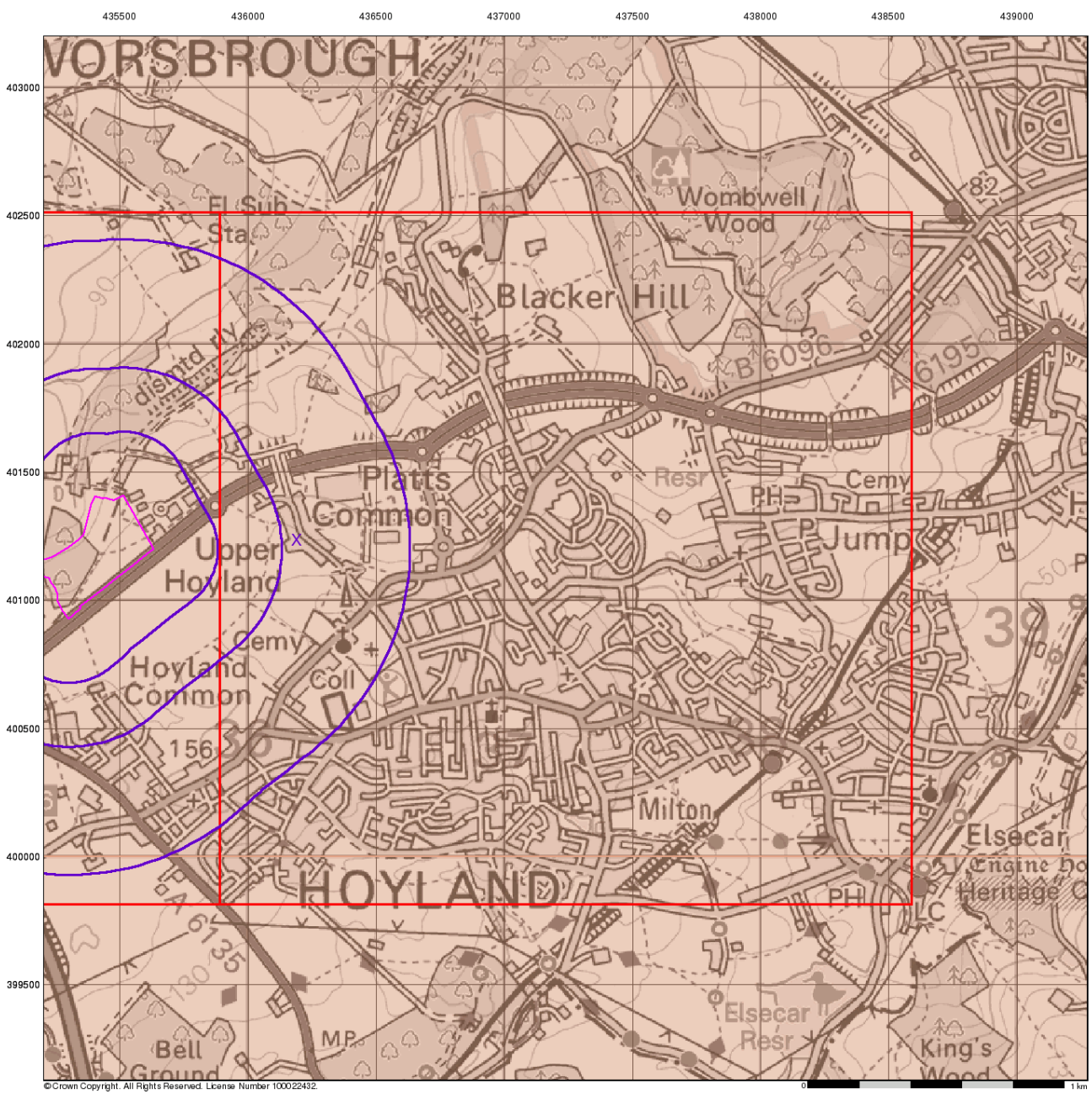
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Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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Bedrock Aquifer Designation

General

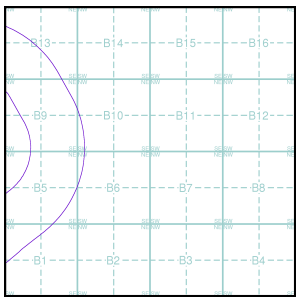
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

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 B



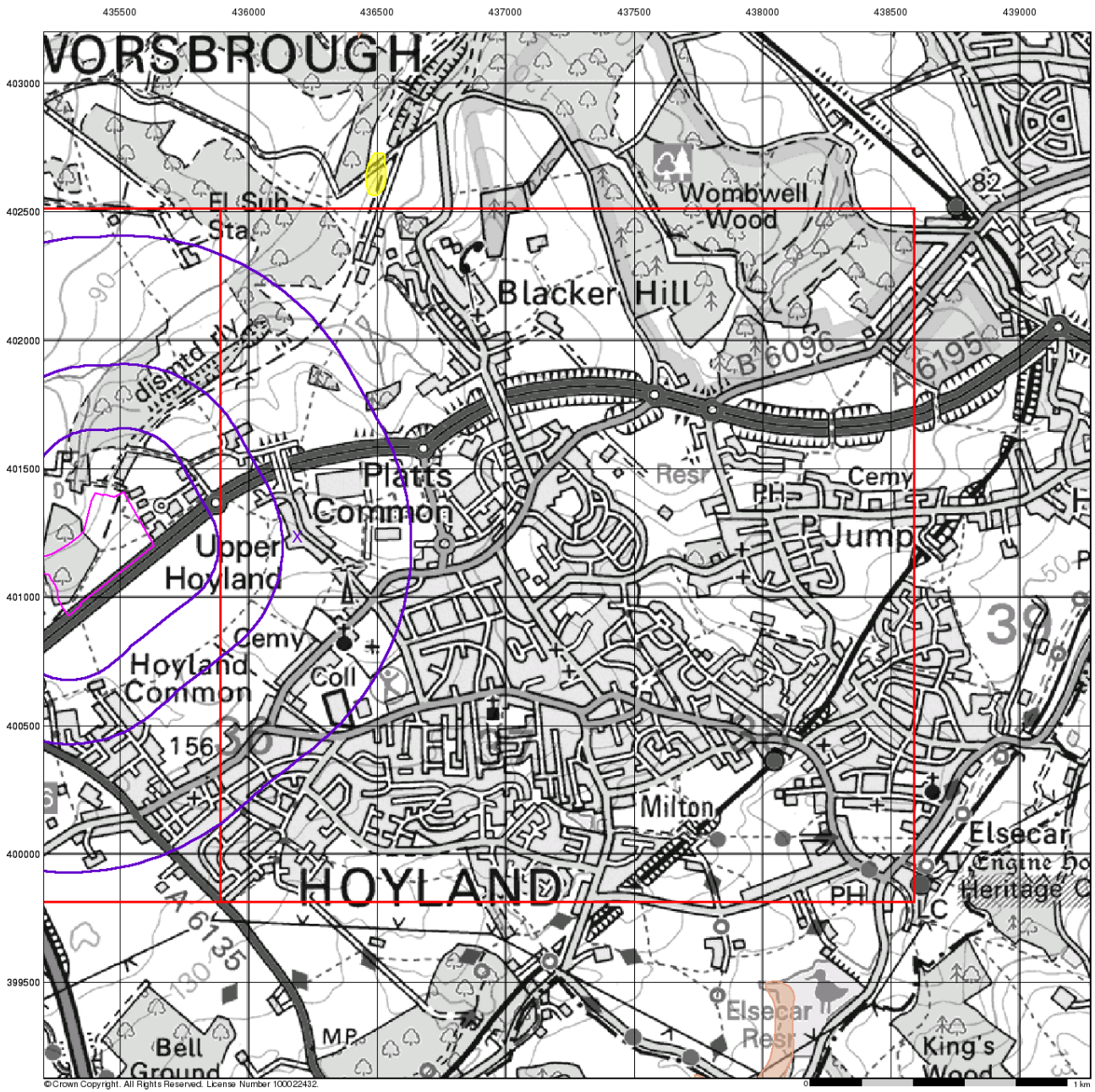
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Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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Superficial Aquifer Designation

General

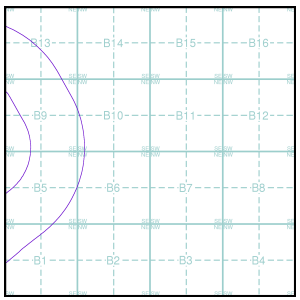
Specified Site | Specified Buffer(s) | Bearing Reference Point | Slice | Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice B

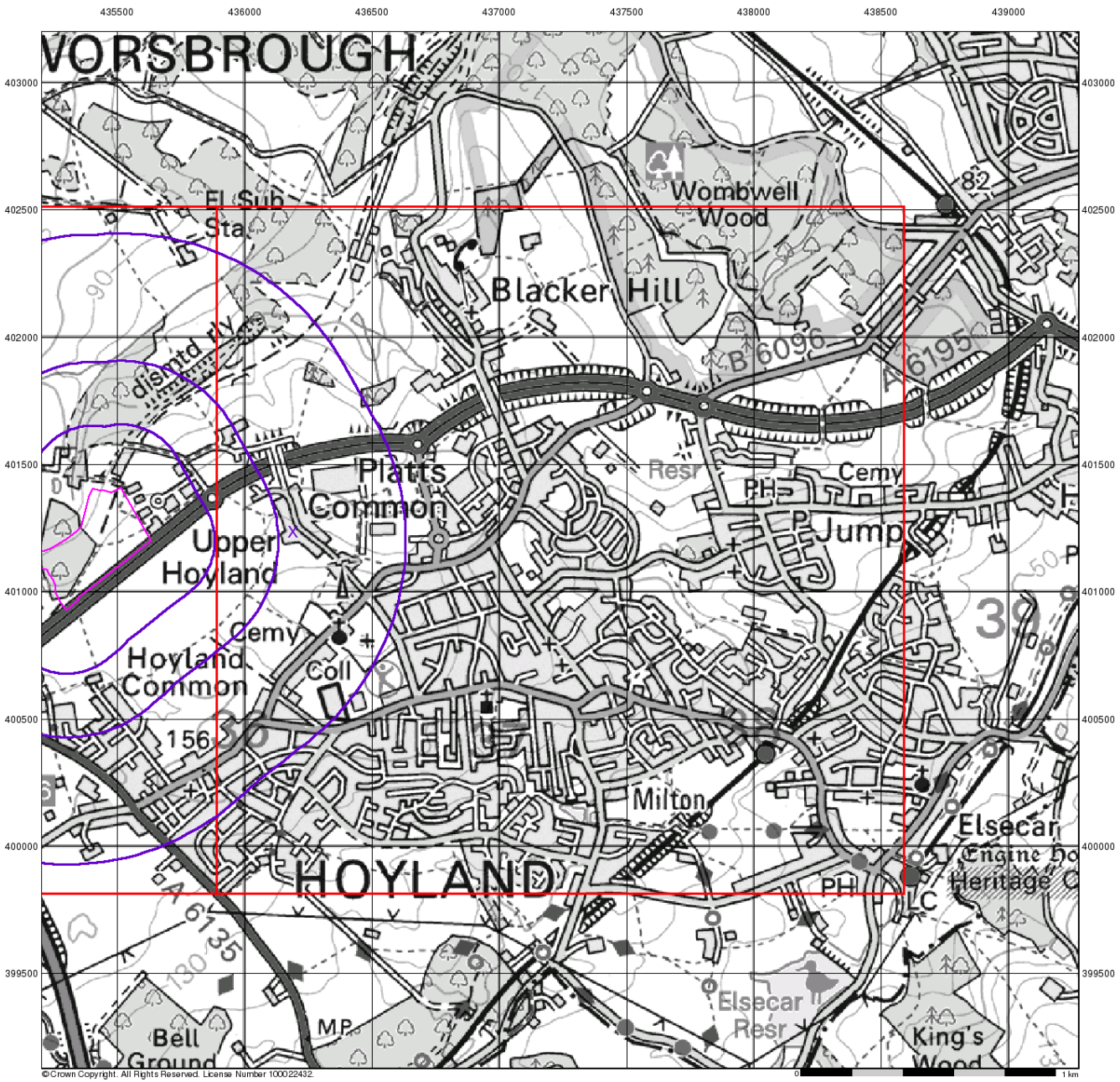


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Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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Source Protection Zones

General

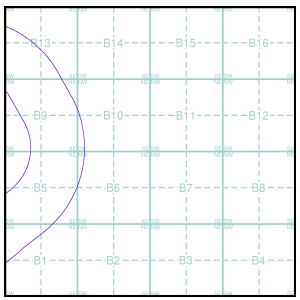
Specified Site | Specified Buffer(s) | Bearing Reference Point

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)

Site Sensitivity Context Map - Slice B



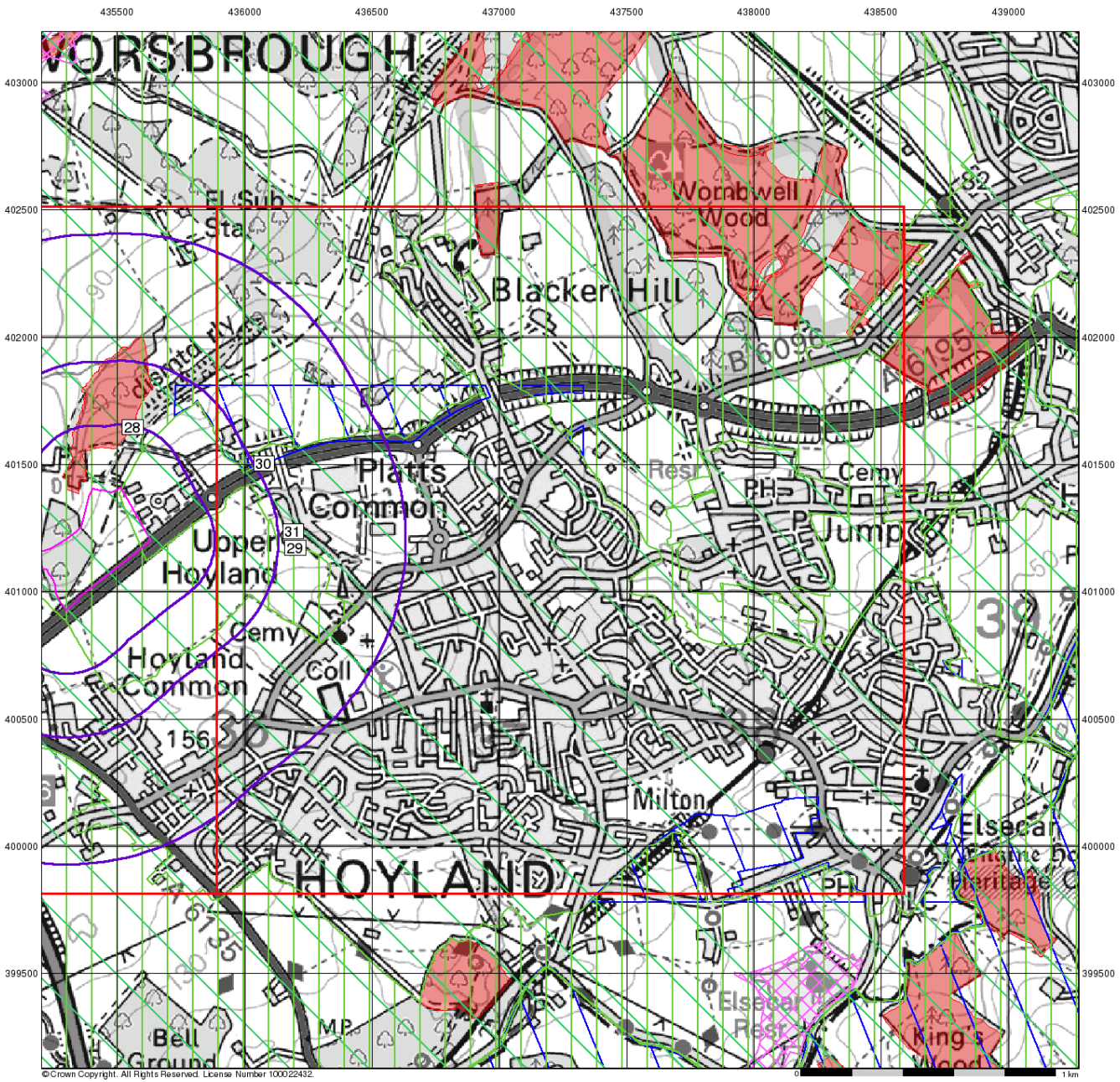
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Sensitive Land Uses

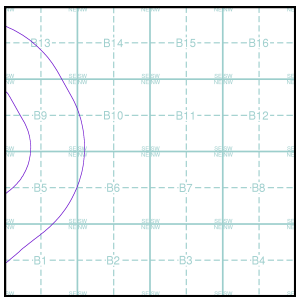
General

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 B

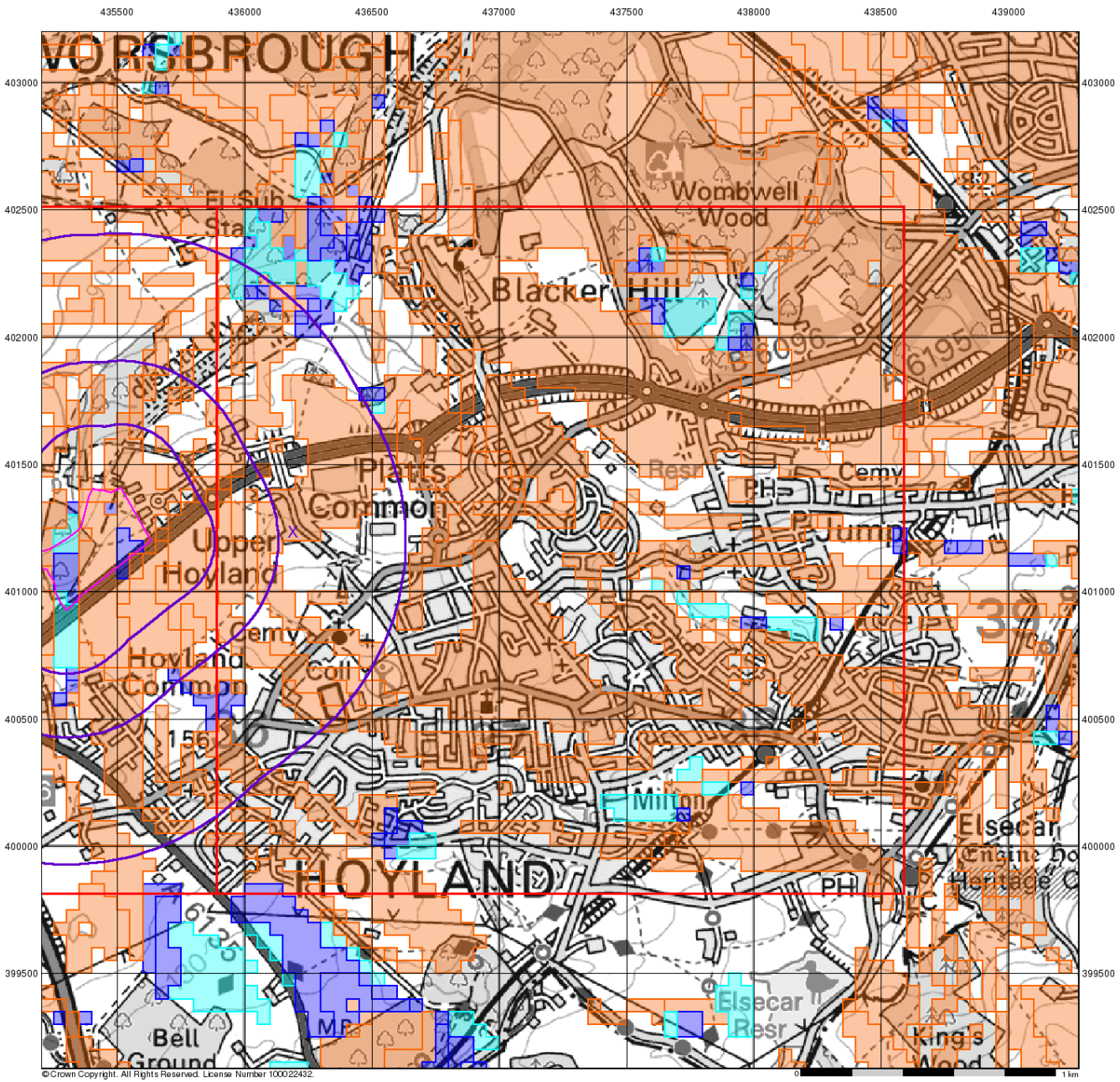


Order Details

Order Number:	182024082_1_1
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National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ



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BGS Flood GFS Data

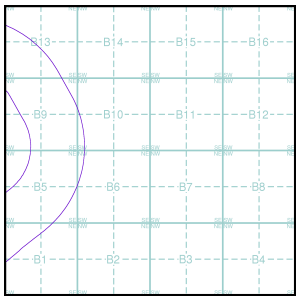
General

Specified Site | Specified Buffer(s) | 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 B



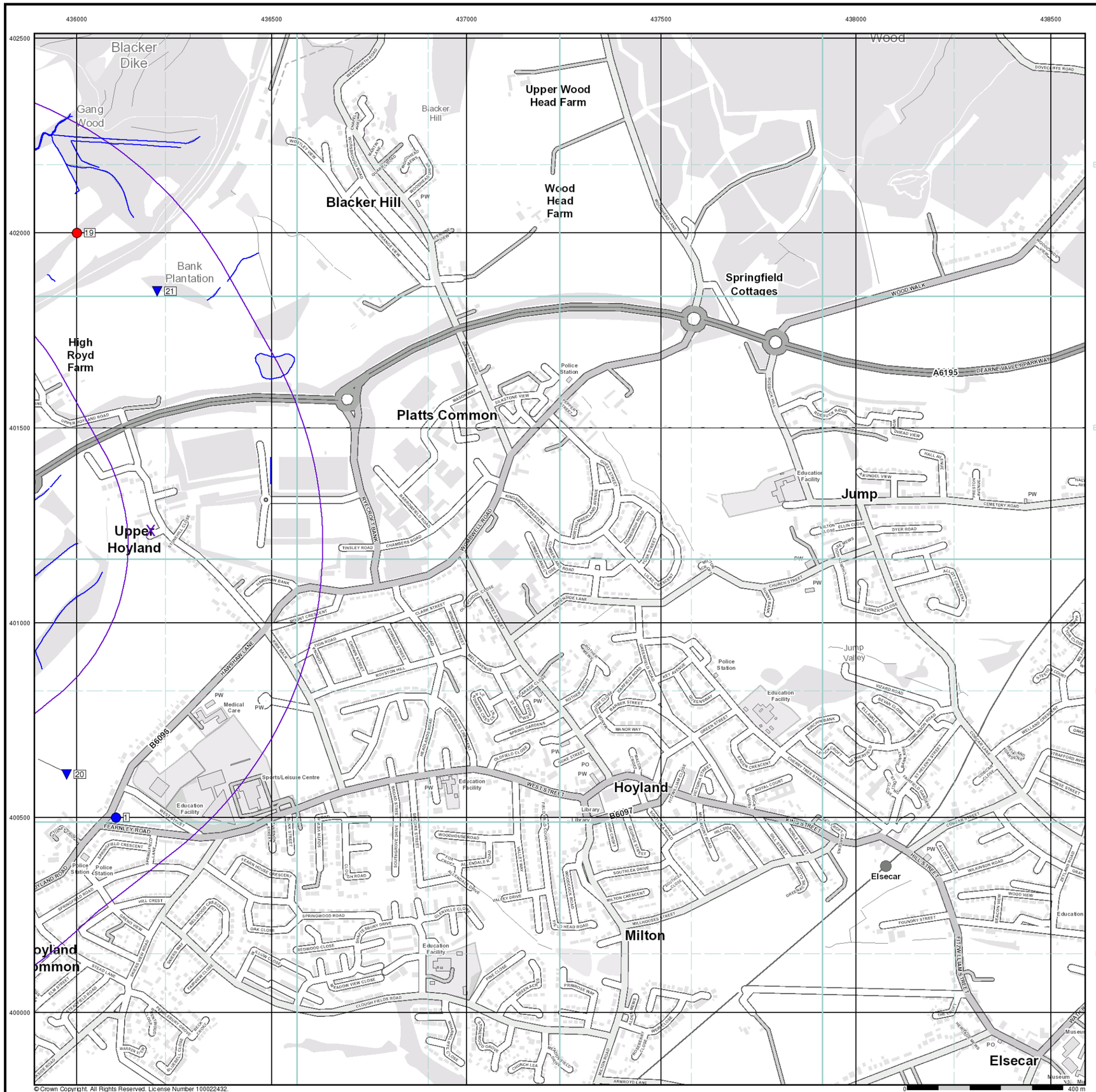
Order Details

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Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
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

- 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

Geological

- BGS Recorded Mineral Site

Industrial Land Use

- Contemporary Trade Directory Entry
- Fuel Station Entry

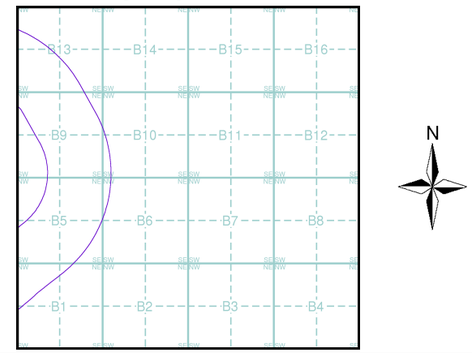
Waste

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

Hazardous Substances

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

Site Sensitivity Map - Slice B



Order Details

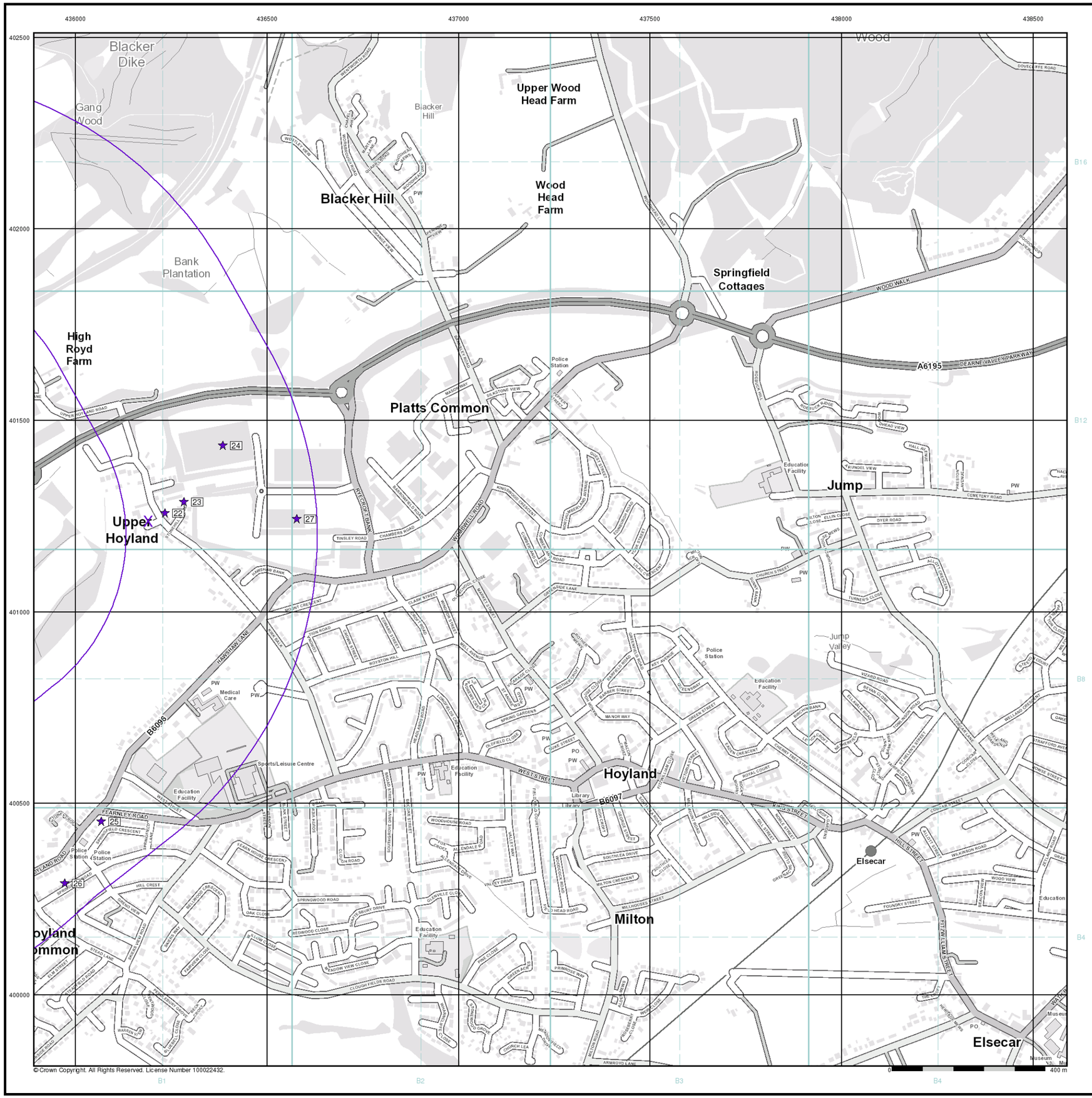
Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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Industrial Land Use Map

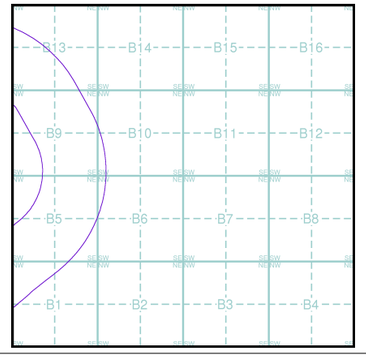
General

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

Industrial Land Use

Contemporary Trade Directory Entry
Fuel Station Entry
Gas Pipeline
Underground Electrical Cables

Industrial Land Use Map - Slice B



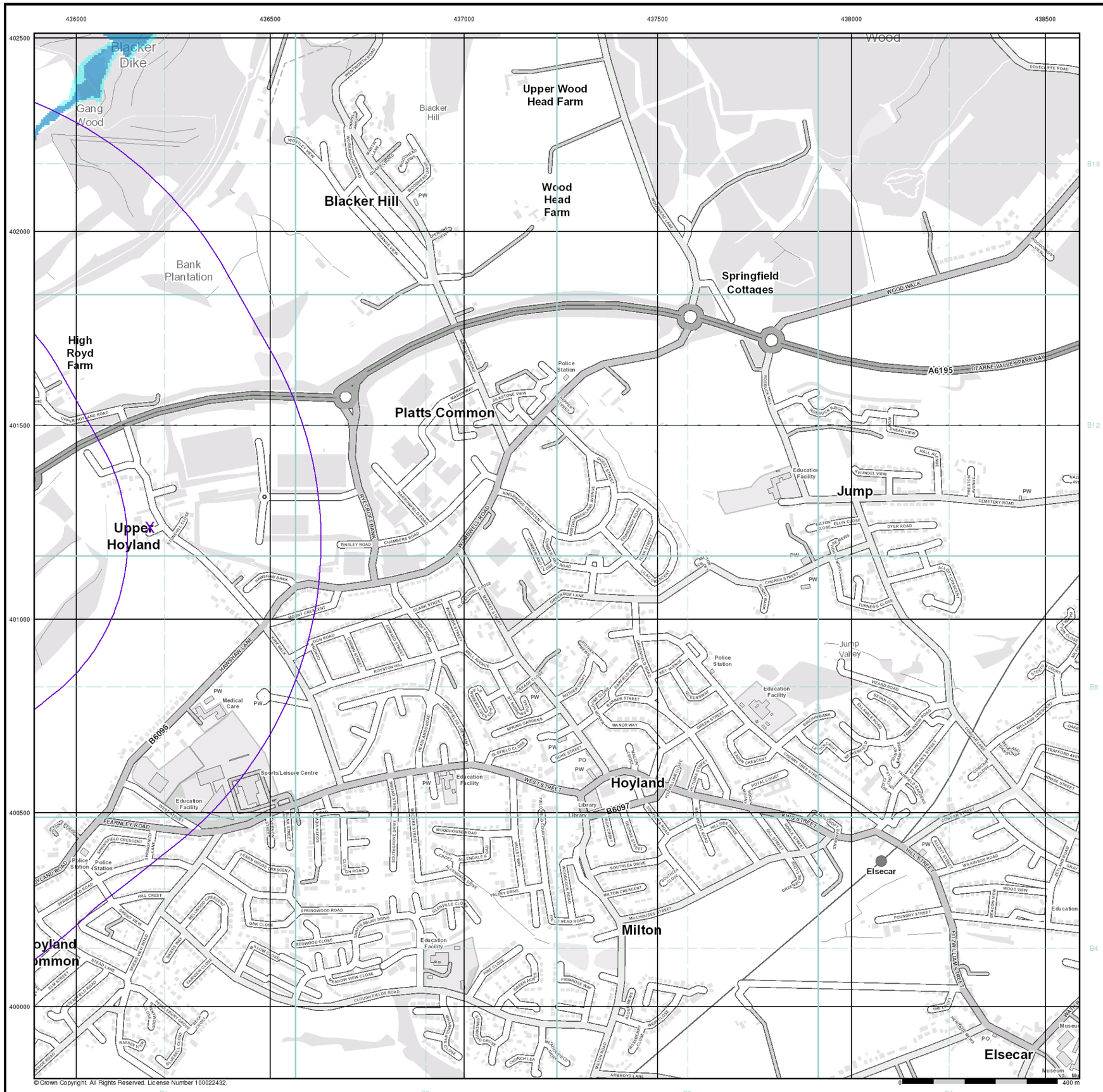
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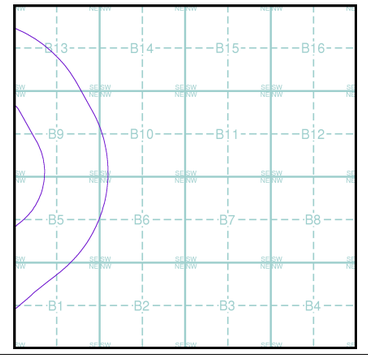
General

- Specified Site
- Specified Buffer(s)
- X 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 B



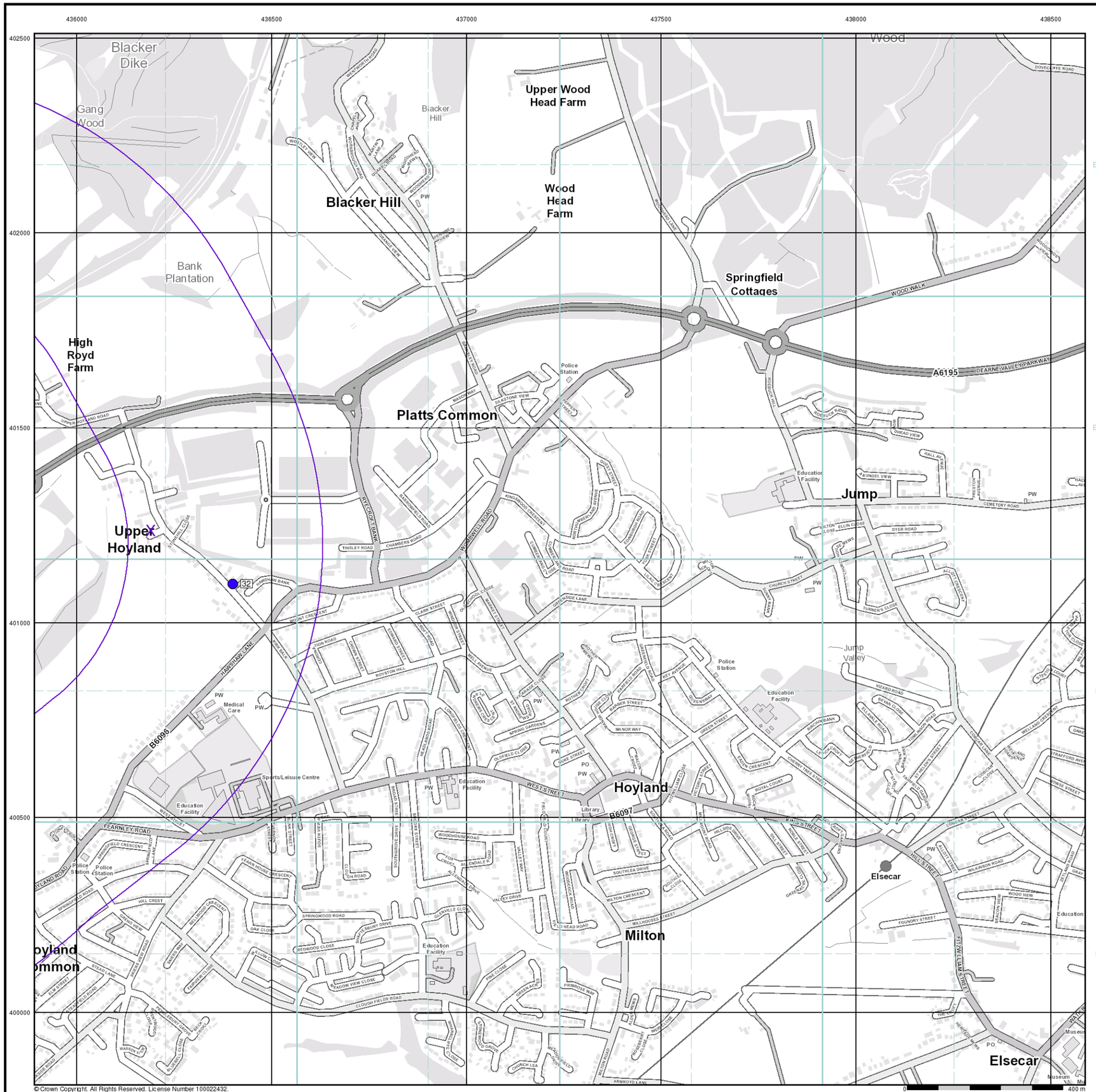
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General

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

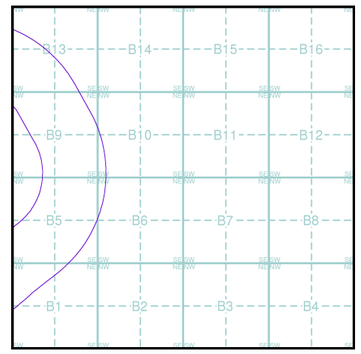
Agency and Hydrological (Boreholes)

- 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 B



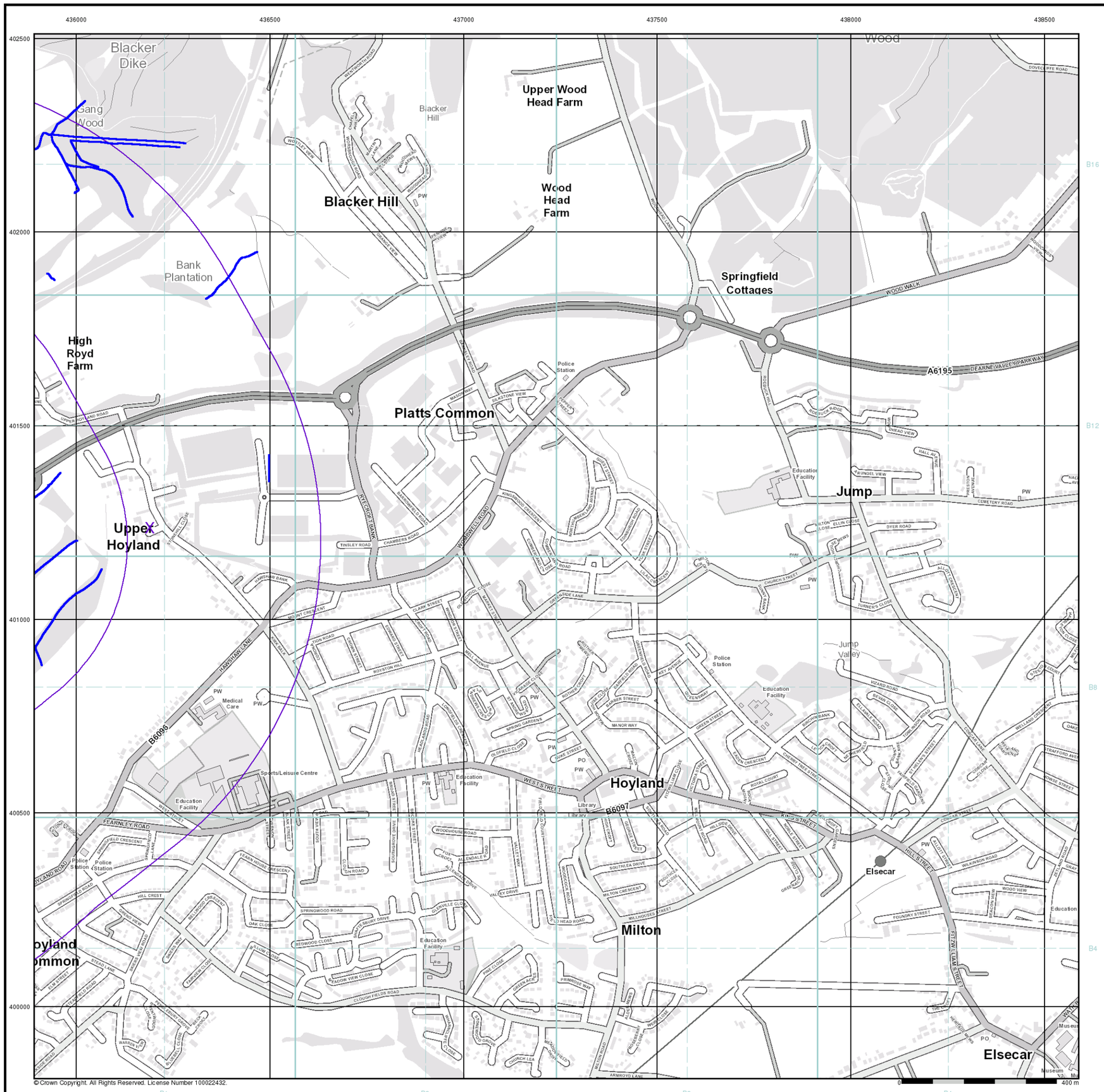
Order Details

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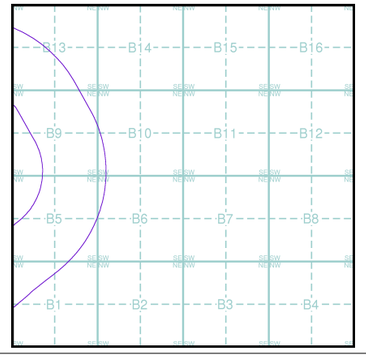
General

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

OS Water Network Data

- Canal
- Reservoir
- Foreshore
- Marsh
- Tidal River
- Inland River
- Drain
- Other
- Lake
- Transfer
- Lock Or Flight Of Locks
- Sea

OS Water Network Map - Slice B



Order Details

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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

Gravel Pit
Sand Pit
Other Pits
Quarry
Shingle
Orchard
Osiers
Reeds
Marsh
Mixed Wood
Deciduous
Brushwood
Fir
Furze
Rough Pasture
Arrow denotes flow of water
Trigonometrical Station
Site of Antiquities
Bench Mark
Pump, Guide Post, Signal Post
Well, Spring, Boundary Post
·285 Surface Level
Sketched Contour
Instrumental Contour
Main Roads
Fenced
Un-Fenced
Minor Roads
Fenced
Un-Fenced
Sunken Road
Raised Road
Road over Railway
Railway over River
Railway over Road
Level Crossing
Road over River or Canal
Road over Stream
Road over Stream
County Boundary (Geographical)
County & Civil Parish Boundary
Administrative County & Civil Parish Boundary
Co. Boro. Bdy. County Borough Boundary (England)
Co. Burgh Bdy. County Burgh Boundary (Scotland)
R.D. Bdy. Rural District Boundary
Civil Parish Boundary

Ordnance Survey Plan 1:10,000

Chalk Pit, Clay Pit or Quarry
Gravel Pit
Sand Pit
Disused Pit or Quarry
Refuse or Slag Heap
Lake, Loch or Pond
Dunes
Boulders
Coniferous Trees
Non-Coniferous Trees
Orchard
Scrub
Coppice
Bracken
Heath
Rough Grassland
Marsh
Reeds
Saltings
Building
Direction of Flow of Water
Shingle
Sand
Glasshouse
Pylon
Pylon
Electricity Transmission Line
Sloping Masonry
Cutting
Embankment
Standard Gauge Multiple Track
Road Under
Road Over
Level Crossing
Foot Bridge
Standard Gauge Single Track
Siding, Tramway or Mineral Line
Narrow Gauge
Geographical County
Administrative County, County Borough or County of City
Municipal Borough, Urban or Rural District, Burgh or District Council
Borough, Burgh or County Constituency
Shown only when not coincident with other boundaries
Civil Parish
Shown alternately when coincidence of boundaries occurs

BP, BS	Boundary Post or Stone	Pol Sta	Police Station
Ch	Church	PO	Post Office
CH	Club House	PC	Public Convenience
F E Sta	Fire Engine Station	PH	Public House
FB	Foot Bridge	SB	Signal Box
Fn	Fountain	Spr	Spring
GP	Guide Post	TCB	Telephone Call Box
MP	Mile Post	TCP	Telephone Call Post
MS	Mile Stone	W	Well

1:10,000 Raster Mapping

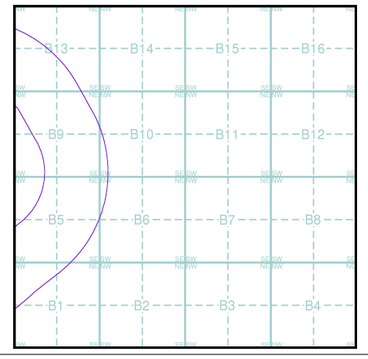
Gravel Pit
Refuse tip or slag heap
Rock
Rock (scattered)
Boulders
Boulders (scattered)
Shingle
Mud
Sand
Sand Pit
Slopes
Top of cliff
General detail
Underground detail
Overhead detail
Narrow gauge railway
Multi-track railway
Single track railway
County boundary (England only)
Civil, parish or community 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
MHW(S) Mean high water (springs)
MLW(S) Mean low water (springs)
Telephone line (where shown)
Electricity transmission line (with poles)
BM 123.45 m 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

RSK

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1855	2
Yorkshire	1:10,560	1893	3
Yorkshire	1:10,560	1893 - 1894	4
Yorkshire	1:10,560	1905 - 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	1956	9
Ordnance Survey Plan	1:10,000	1965 - 1966	10
Ordnance Survey Plan	1:10,000	1980 - 1982	11
Ordnance Survey Plan	1:10,000	1989	12
Ordnance Survey Plan	1:10,000	1991	13
10K Raster Mapping	1:10,000	2000	14
Street View	Variable		15

Historical Map - Slice B



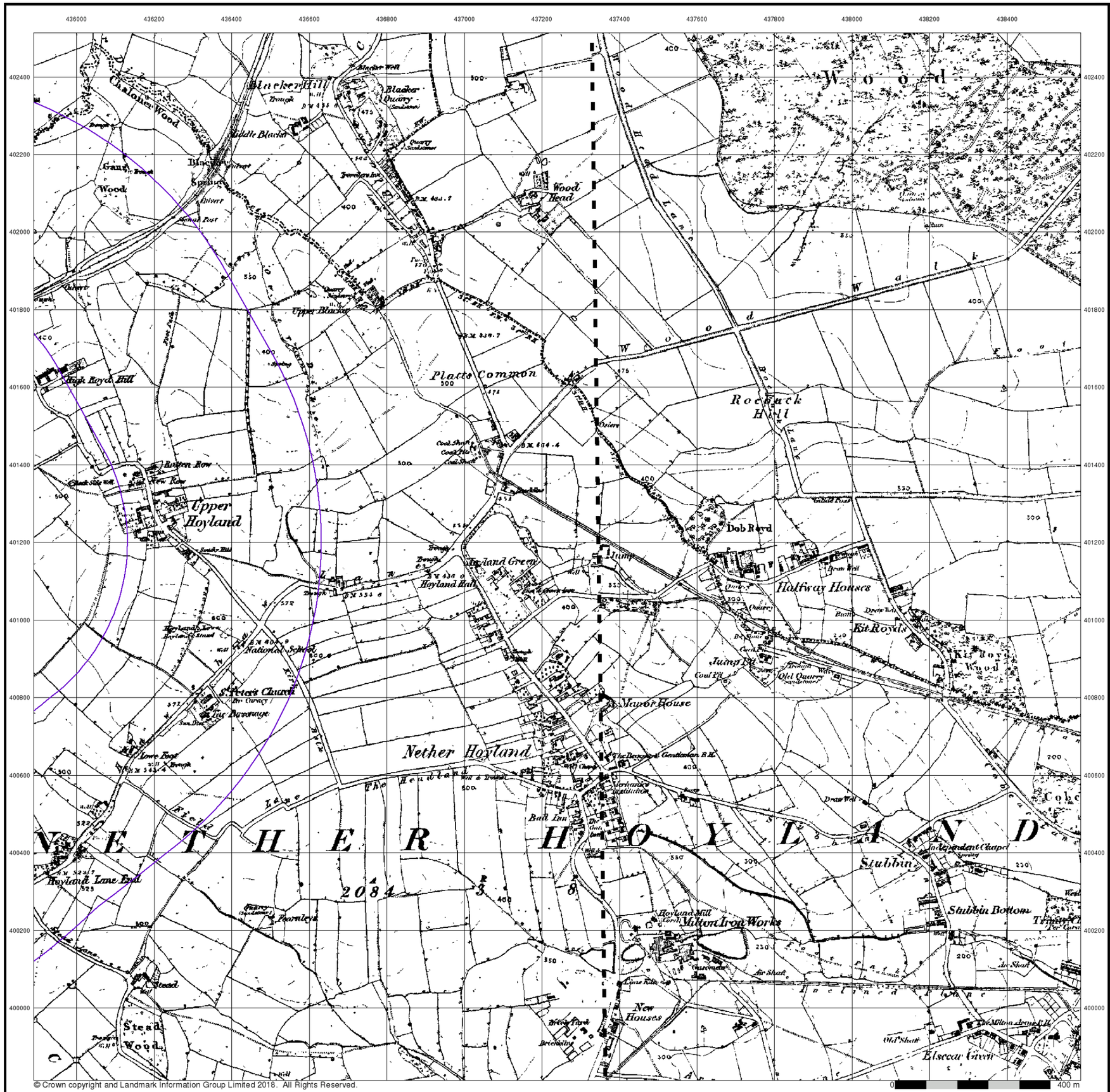
Order Details

Order Number: 182024082_1_1
Customer Ref: 322494
National Grid Reference: 436190, 401240
Slice: B
Site Area (Ha): 18.59
Search Buffer (m): 1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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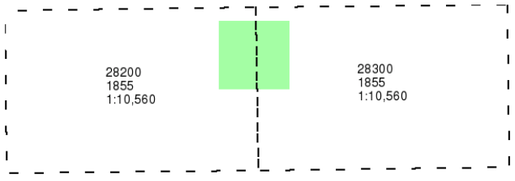
Yorkshire

Published 1855

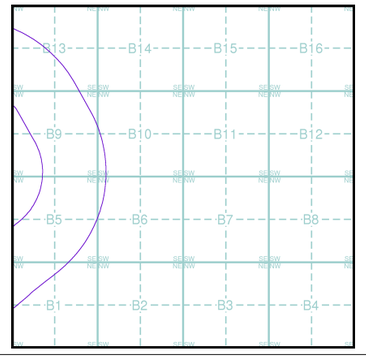
Source map scale - 1:10,560

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 B



Order Details

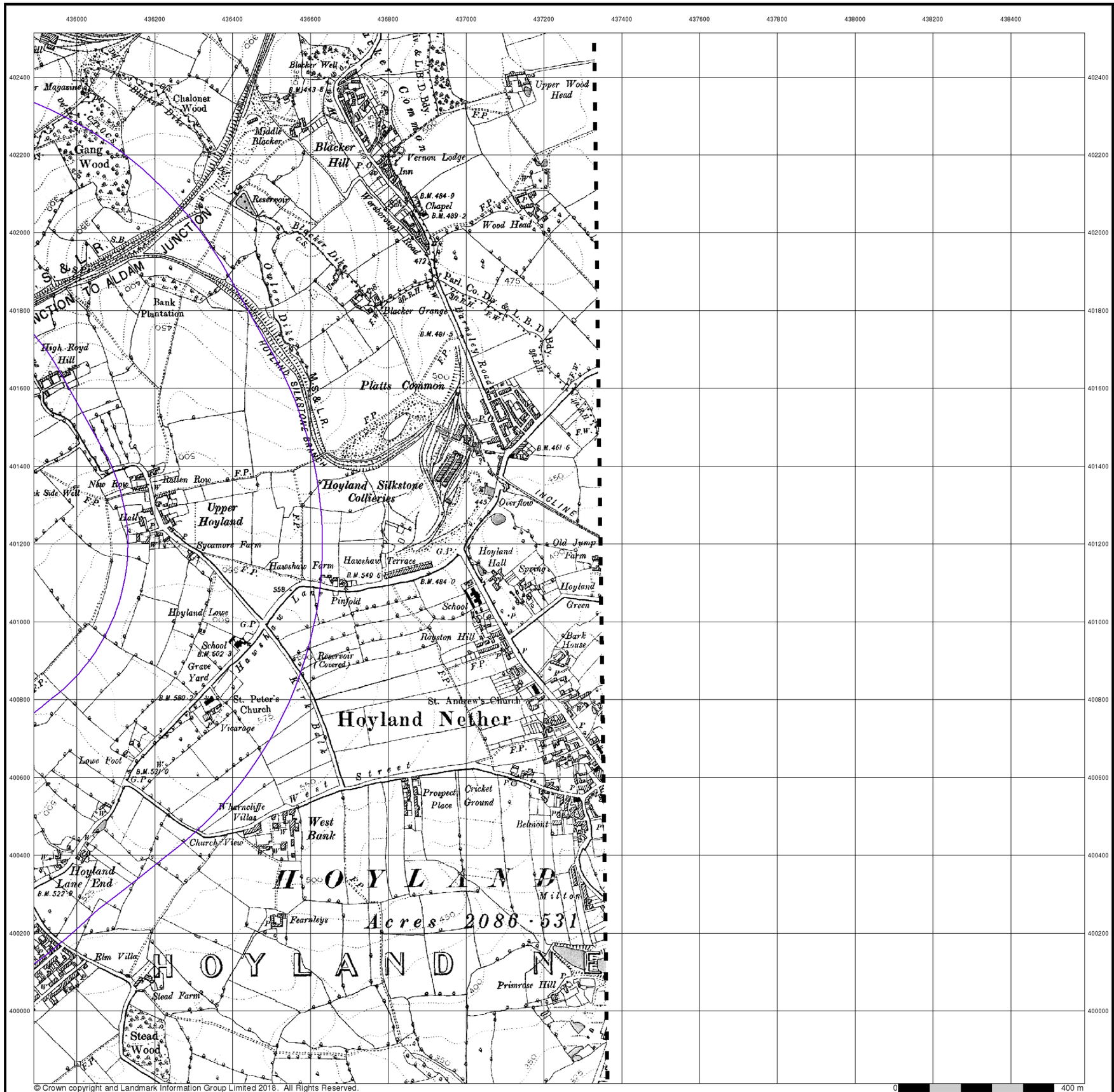
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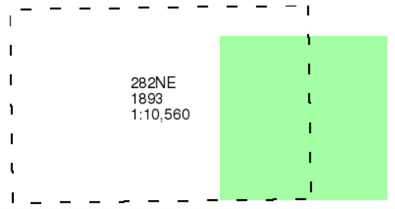
Yorkshire

Published 1893

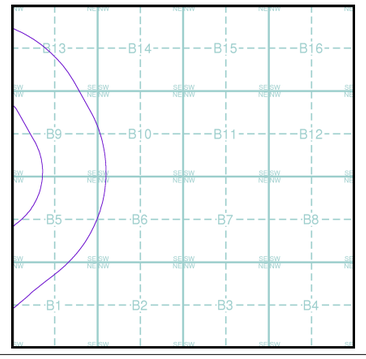
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Map Name(s) and Date(s)



Historical Map - Slice B



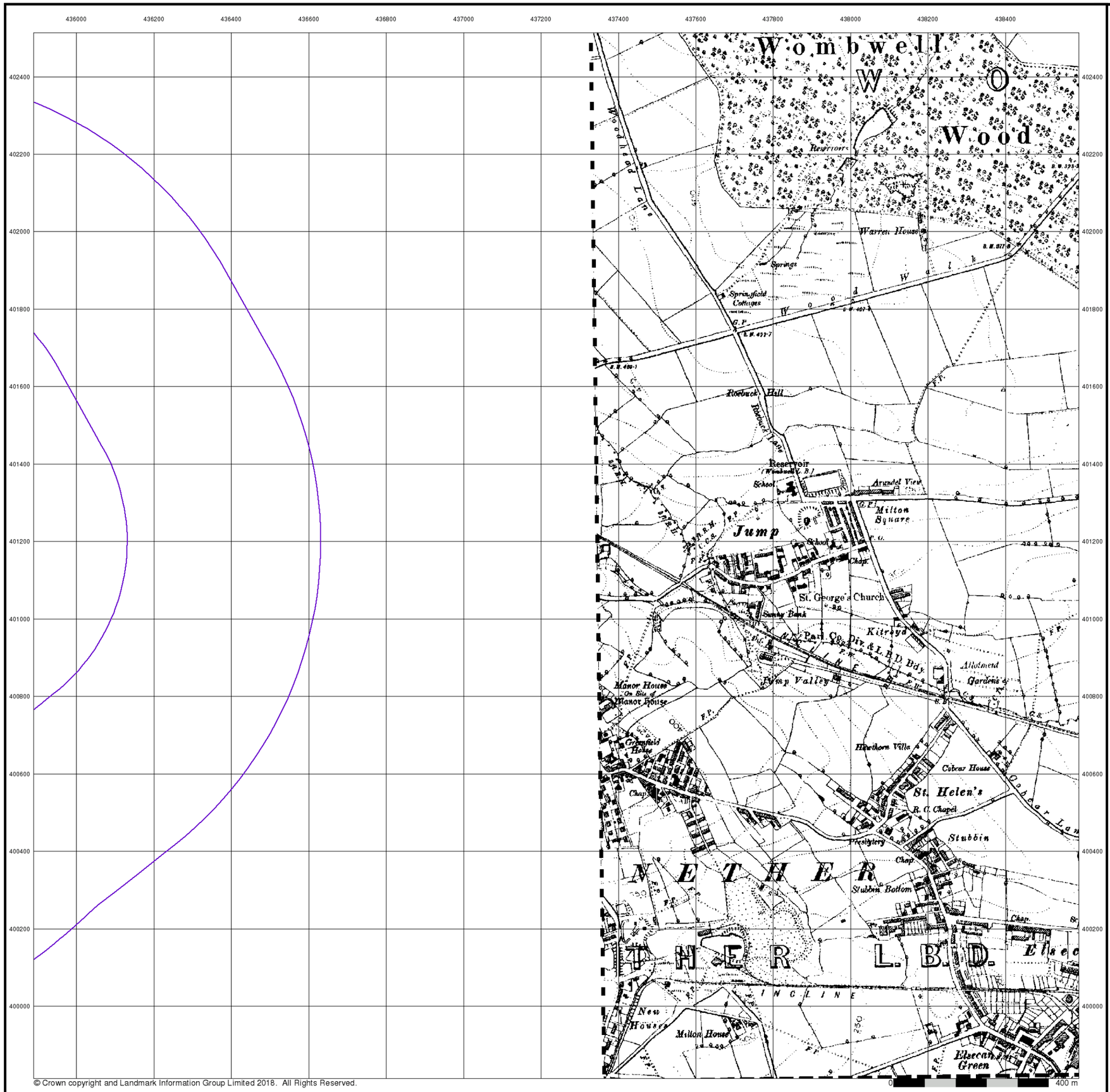
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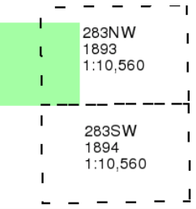
Yorkshire

Published 1893 - 1894

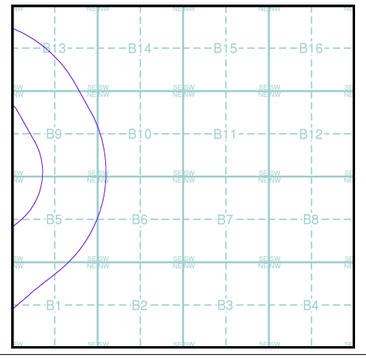
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Map Name(s) and Date(s)



Historical Map - Slice B



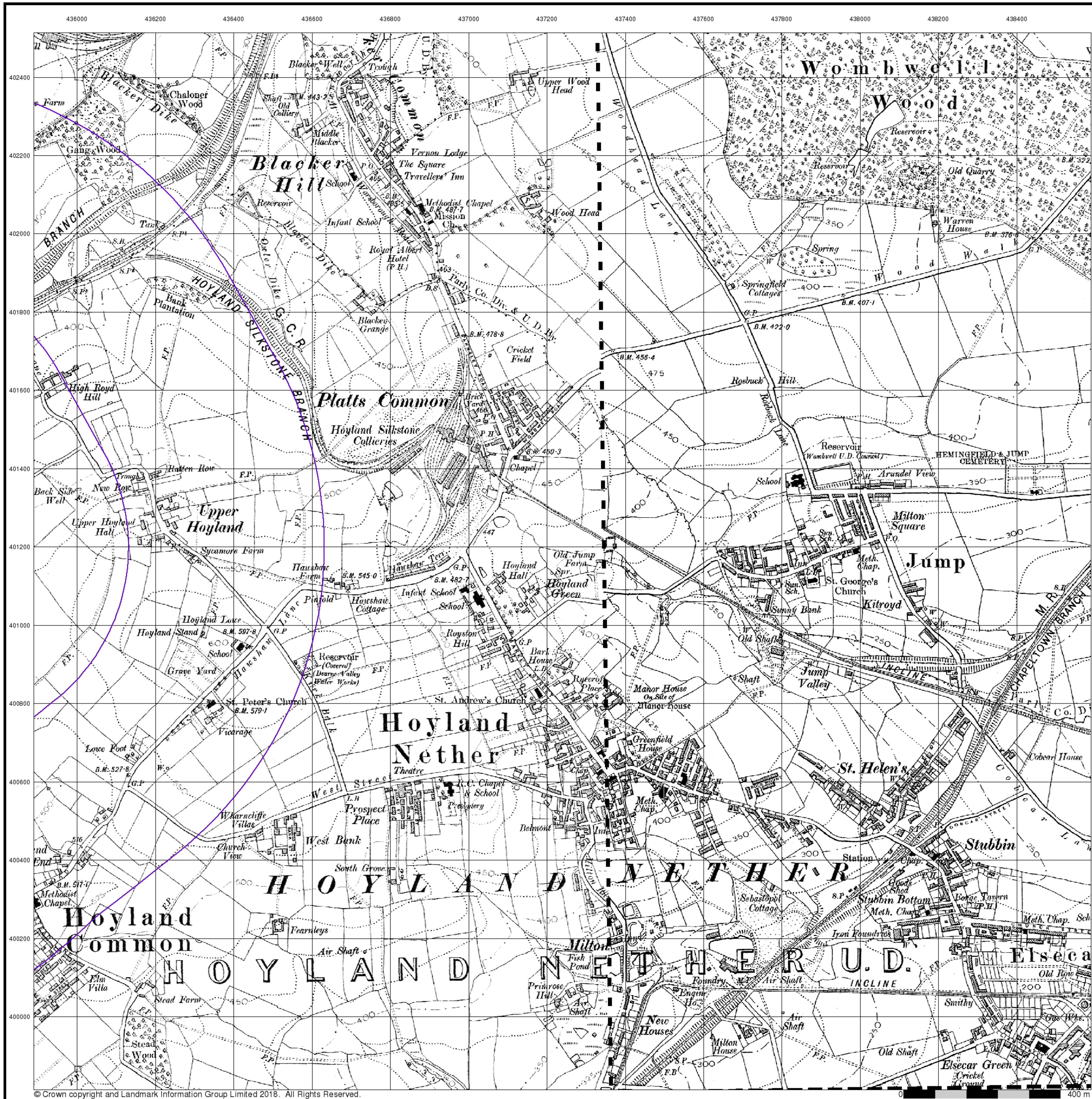
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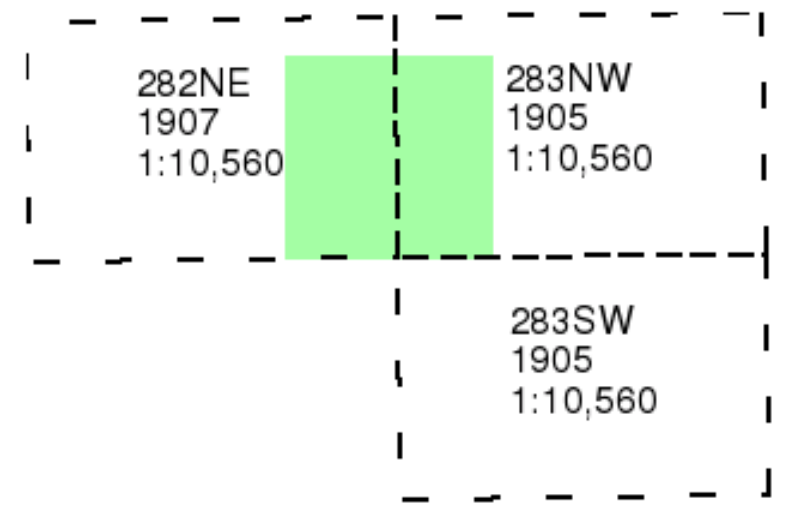
Yorkshire

Published 1905 - 1907

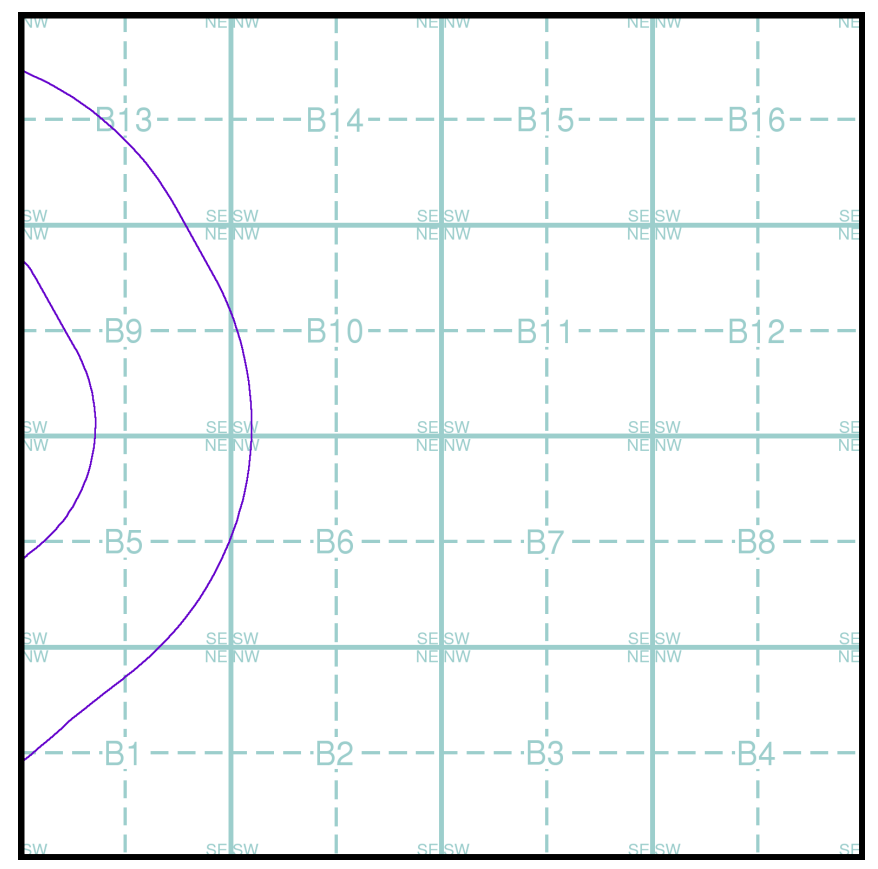
Source map scale - 1:10,560

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Map Name(s) and Date(s)



Historical Map - Slice B



N

Order Details

Order Number:	182024082_1_1
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National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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0 — 400 m

Yorkshire

Published 1931 - 1932

Source map scale - 1:10,560

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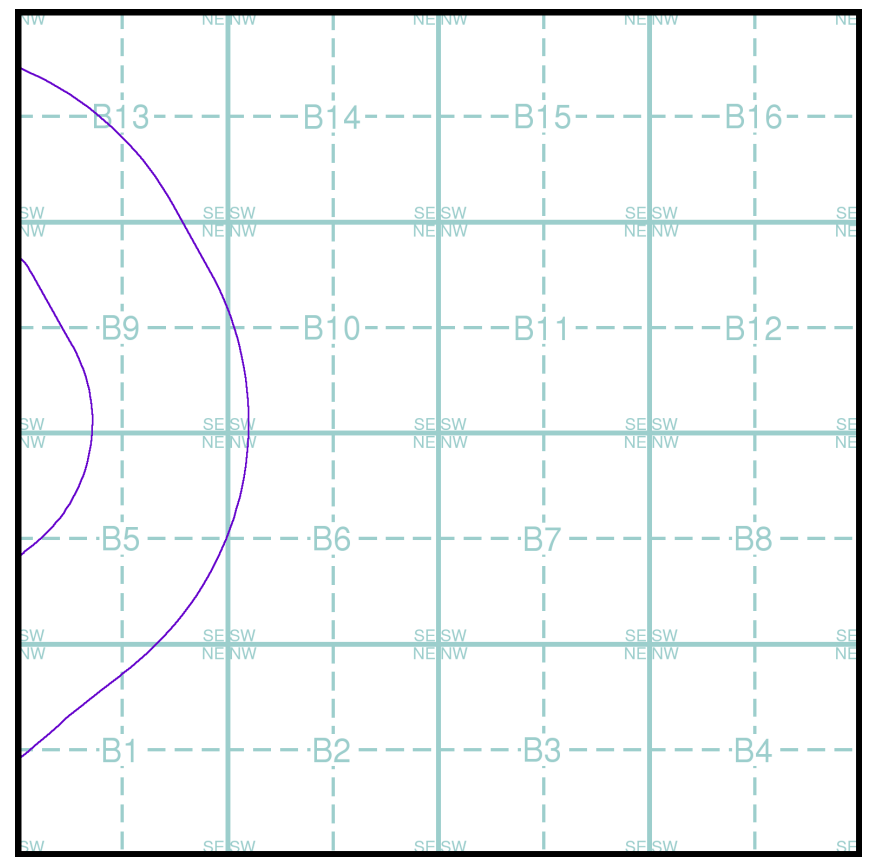
Map Name(s) and Date(s)

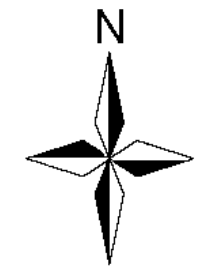
282NE 1932 1:10,560

283NW 1931 1:10,560

283SW 1931 1:10,560

Historical Map - Slice B





Order Details

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0 400 m

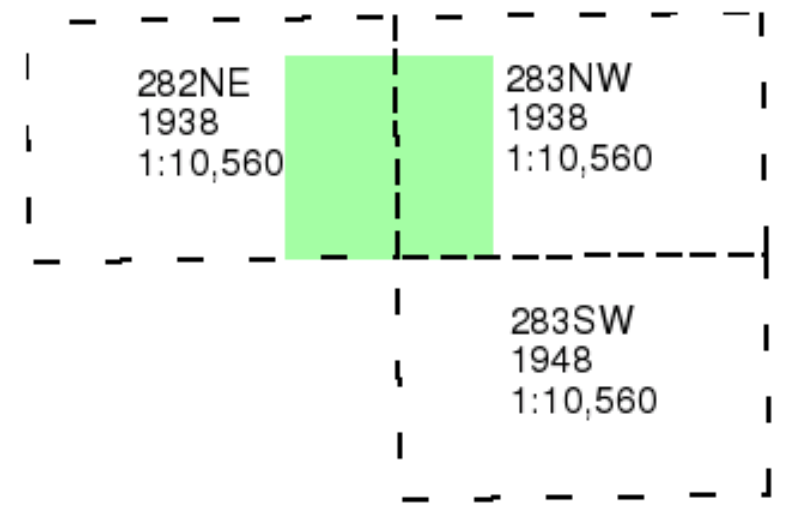
Yorkshire

Published 1938 - 1948

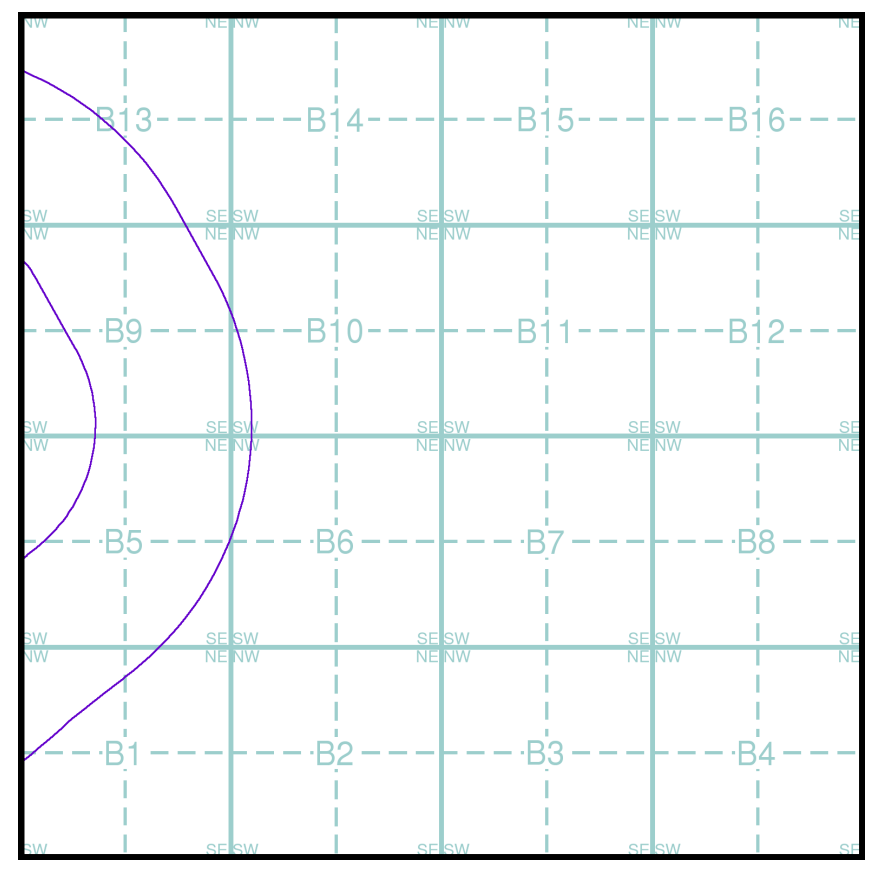
Source map scale - 1:10,560

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)



Historical Map - Slice B



N

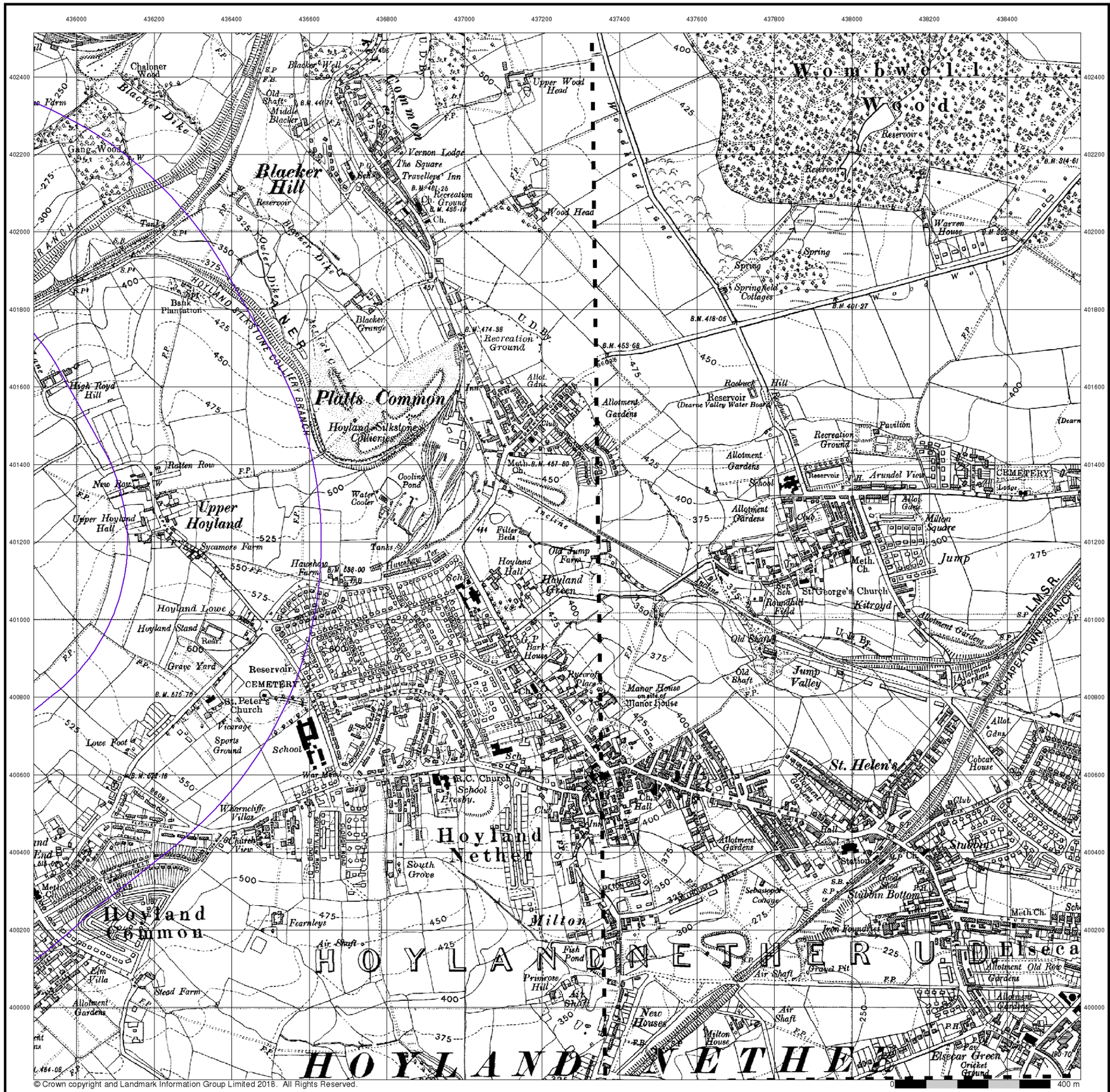
Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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Fax: 0844 844 9951
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RSK

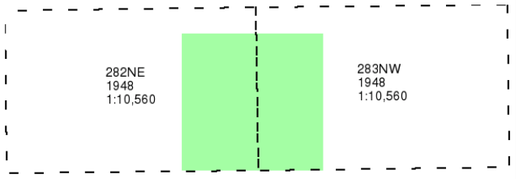
Yorkshire

Published 1948

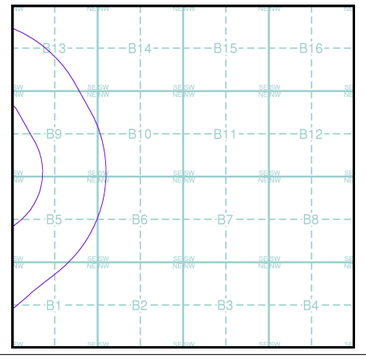
Source map scale - 1:10,560

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)



Historical Map - Slice B



Order Details

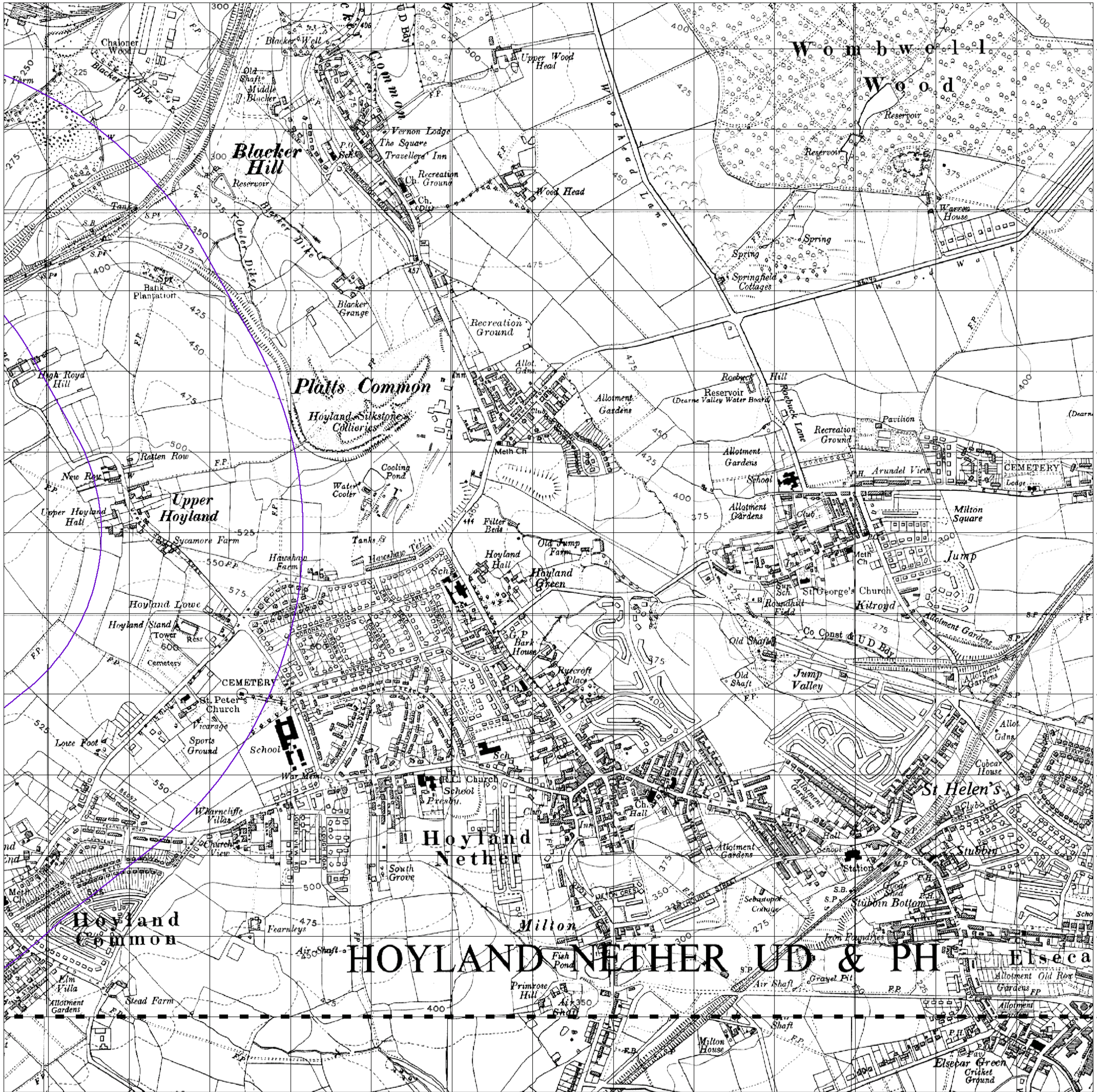
Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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436000 436200 436400 436600 436800 437000 437200 437400 437600 437800 438000 438200 438400



402400 402200 402000 401800 401600 401400 401200 401000 400800 400600 400400 400200 400000

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0 400 m

RSK

Ordnance Survey Plan

Published 1956

Source map scale - 1:10,000

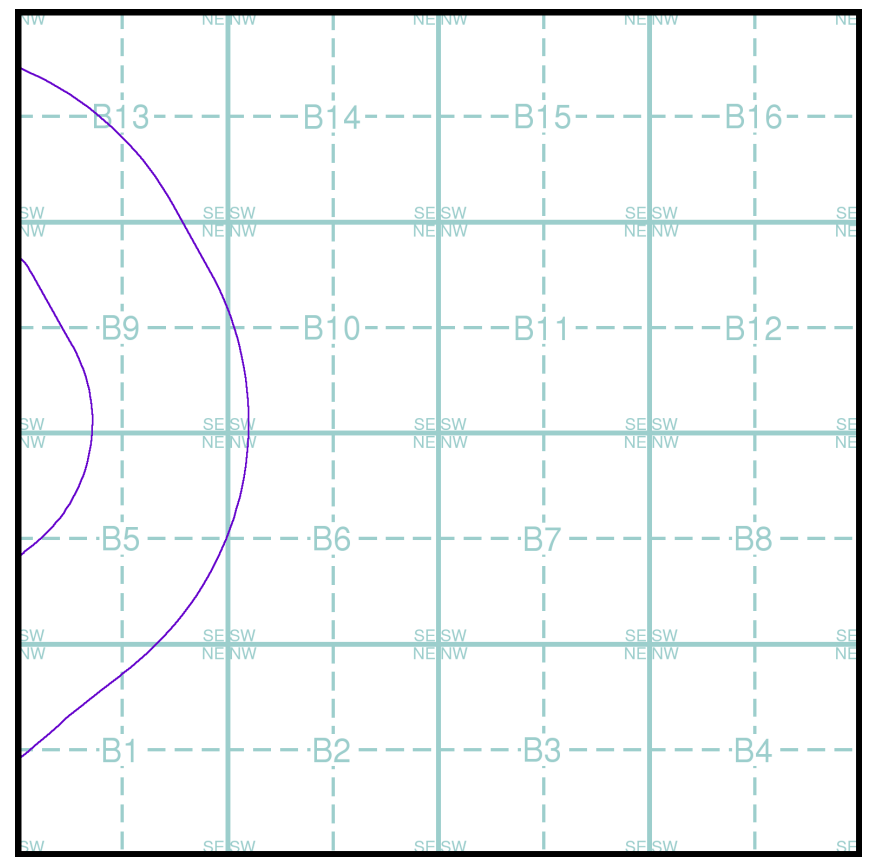
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SE30SE
1956
1:10,560

SK39NE
1956
1:10,560

Historical Map - Slice B



N

Order Details

Order Number: 182024082_1_1
Customer Ref: 322494
National Grid Reference: 436190, 401240
Slice: B
Site Area (Ha): 18.59
Search Buffer (m): 1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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RSK

Ordnance Survey Plan

Published 1965 - 1966

Source map scale - 1:10,000

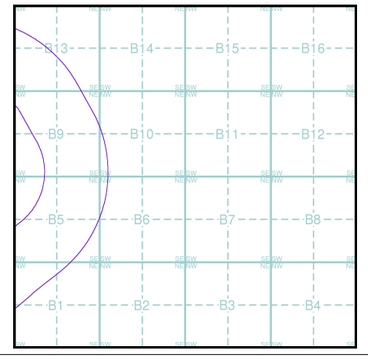
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some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

Map Name(s) and Date(s)

SE30SE
1966
1:10,560

SK39NE
1965
1:10,560

Historical Map - Slice B



Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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RSK

Ordnance Survey Plan

Published 1980 - 1982

Source map scale - 1:10,000

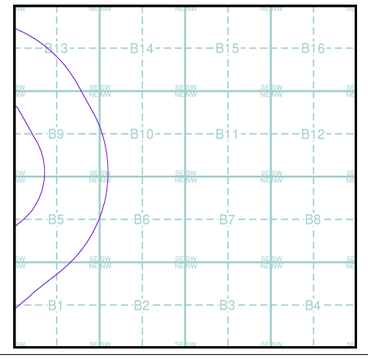
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840`s. In 1854 the 1:2,500 scale was adopted for mapping urban areas; these maps were used to update the 1:10,560 maps. The published date given therefore is often some 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)

SE30SE
1980
1:10,000

SK39NE
1982
1:10,000

Historical Map - Slice B



Order Details

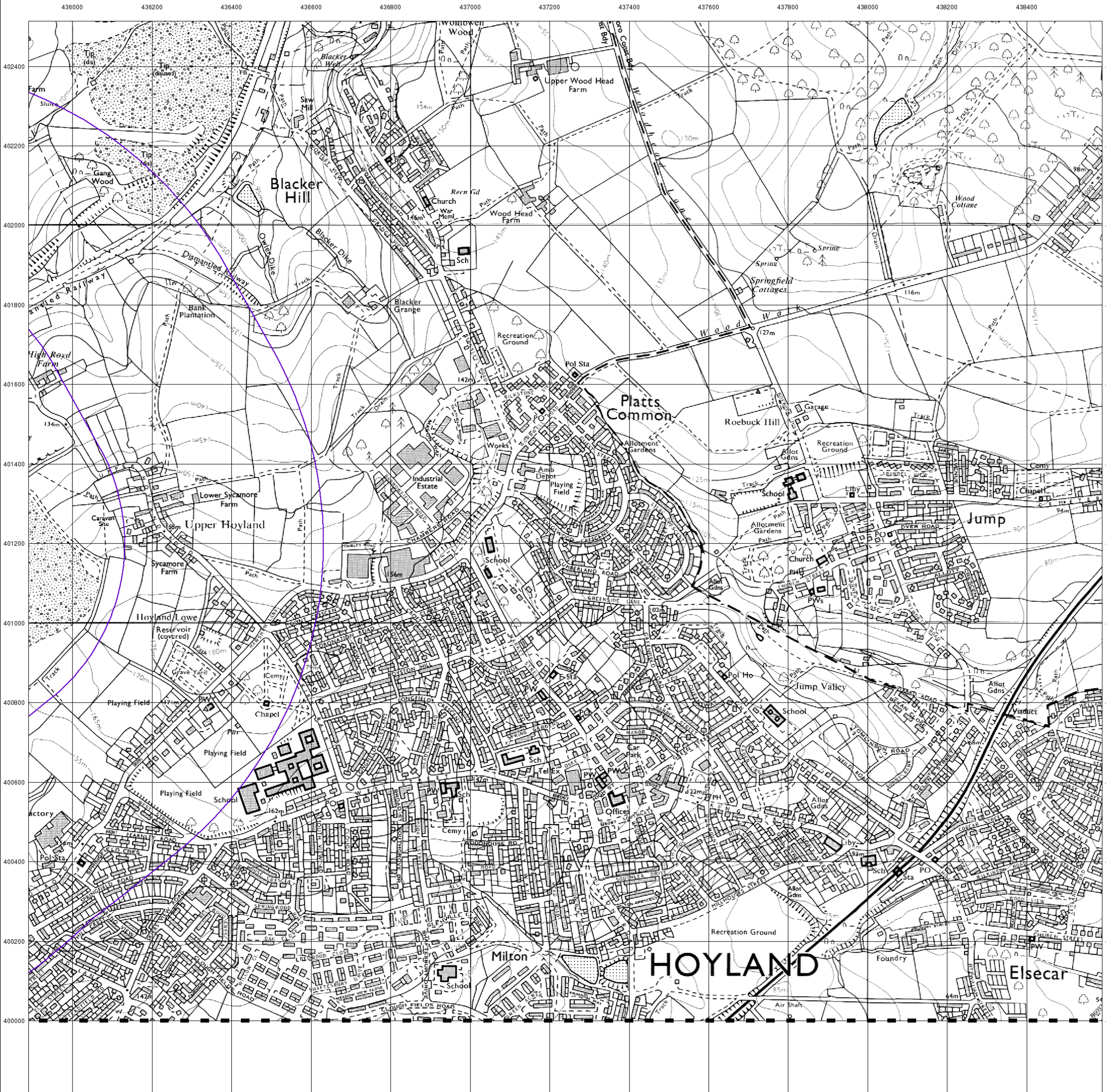
Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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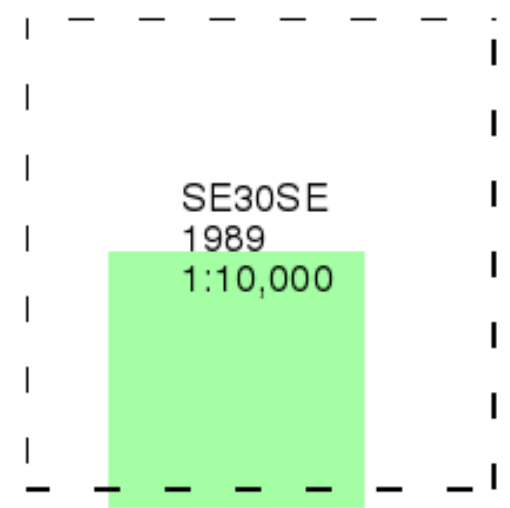
Ordnance Survey Plan

Published 1989

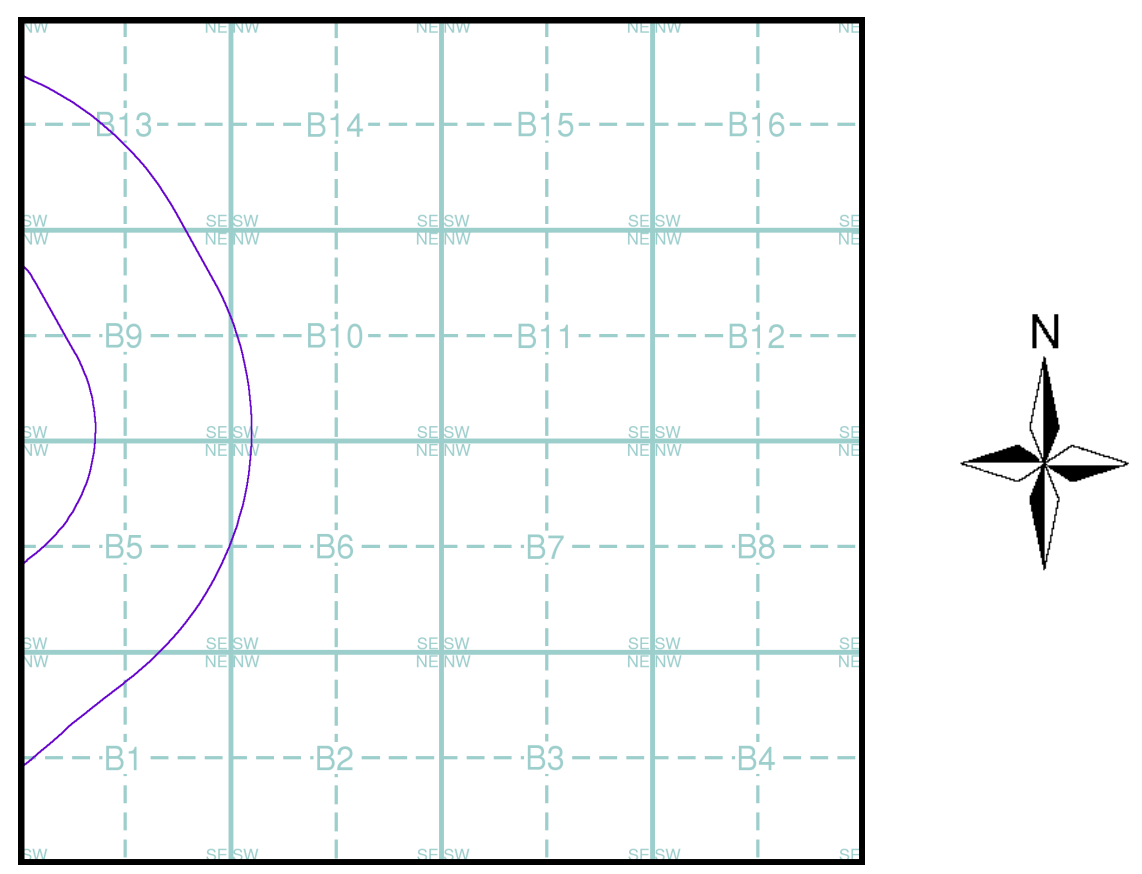
Source map scale - 1:10,000

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 B



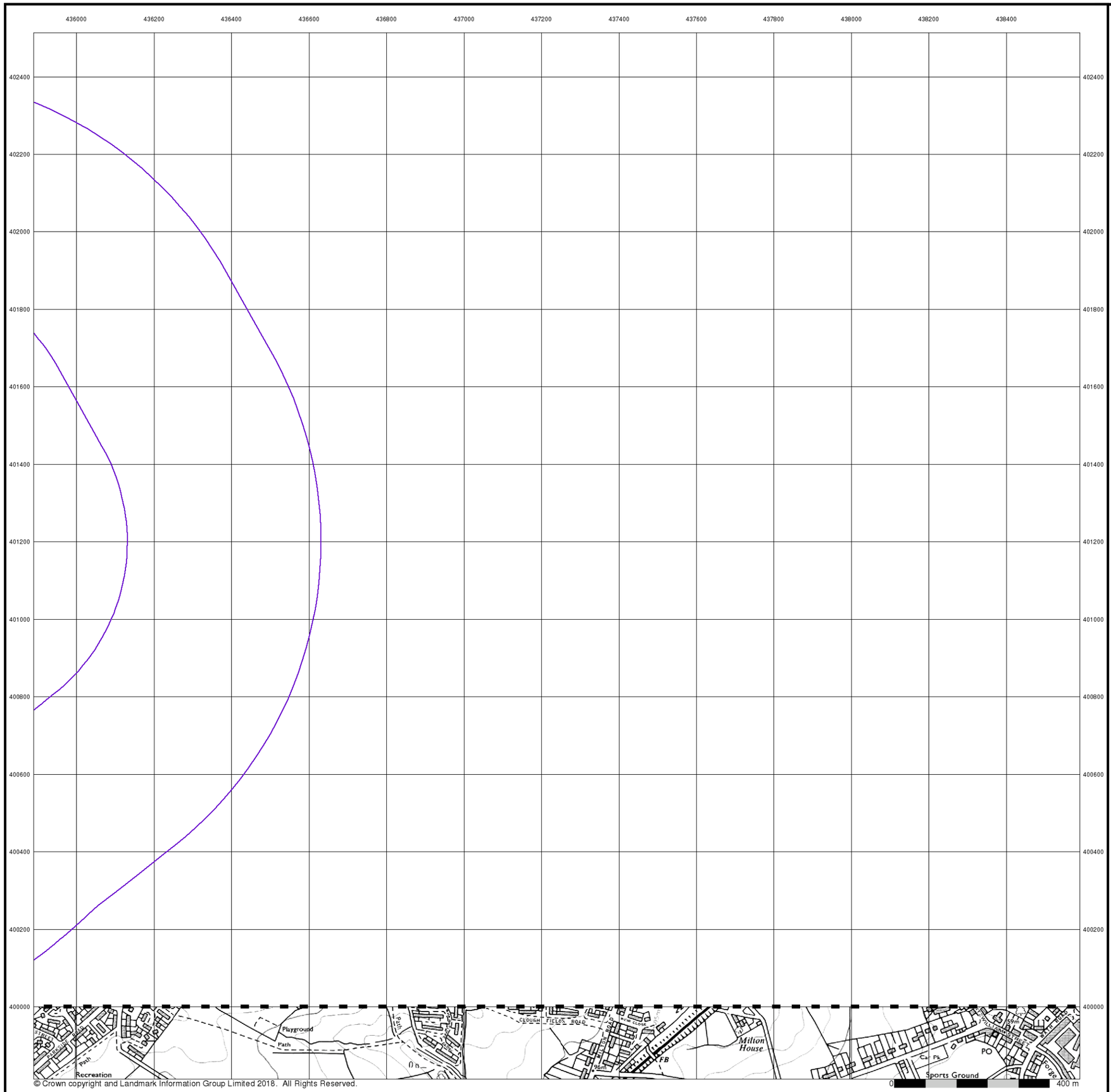
Order Details

Order Number: 182024082_1_1
Customer Ref: 322494
National Grid Reference: 436190, 401240
Slice: B
Site Area (Ha): 18.59
Search Buffer (m): 1000

Site Details

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RSK

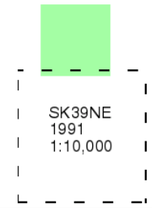
Ordnance Survey Plan

Published 1991

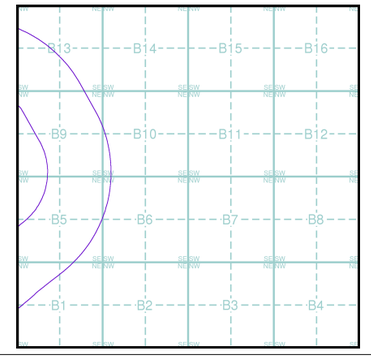
Source map scale - 1:10,000

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 B



Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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RSK

10k Raster Mapping

Published 2000

Source map scale - 1:10,000

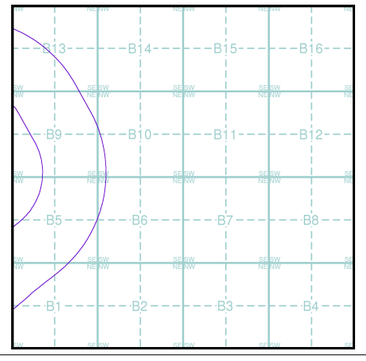
The historical maps shown were produced from the Ordnance Survey`s 1:10,000 colour raster mapping. These maps are derived from Landplan which replaced the old 1:10,000 maps originally published in 1970. The data is highly detailed showing buildings, fences and field boundaries as well as all roads, tracks 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)

SE30SE 2000 1:10,000

SK39NE 2000 1:10,000

Historical Map - Slice B



Order Details

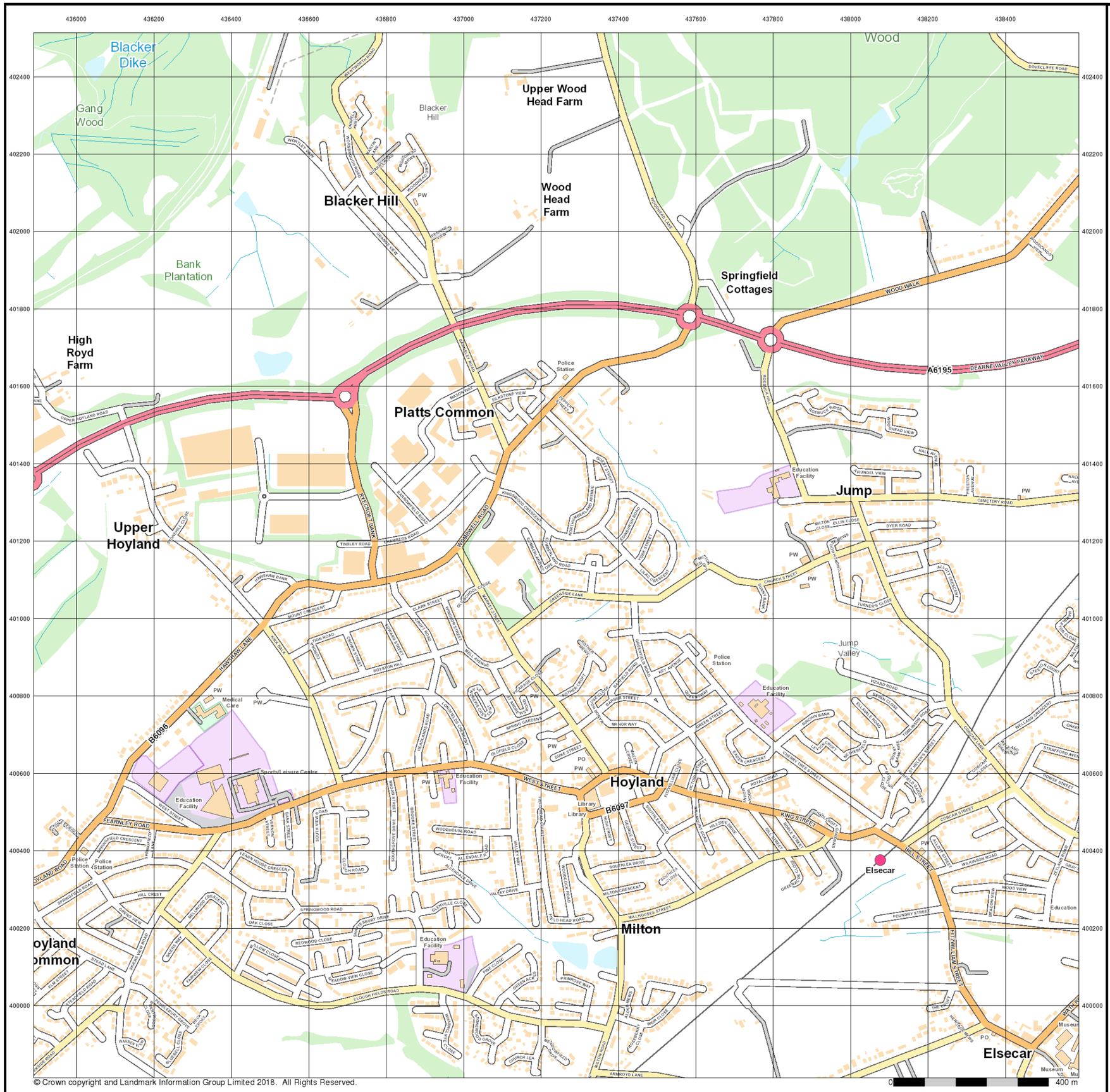
Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

K F C, Unit 1A, Kestrel Way, Birdwell, BARNSLEY, S70 5SZ

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RSK

Street View

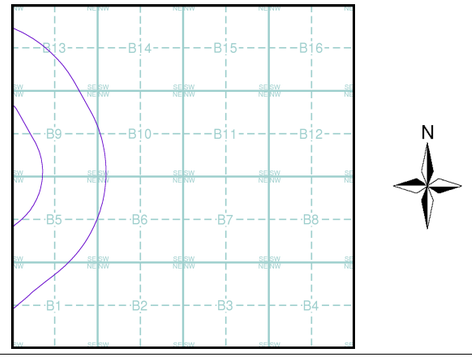
Published 2018

Source map scale - 1:10,000

Street View is a street-level map for the whole of Great Britain produced by the Ordnance Survey. These maps are provided at a nominal scale of 1:10,000

Map Name(s) and Date(s)

Street View Map - Slice B



Order Details

Order Number:	182024082_1_1
Customer Ref:	322494
National Grid Reference:	436190, 401240
Slice:	B
Site Area (Ha):	18.59
Search Buffer (m):	1000

Site Details

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APPENDIX D
COAL AUTHORITY REPORT

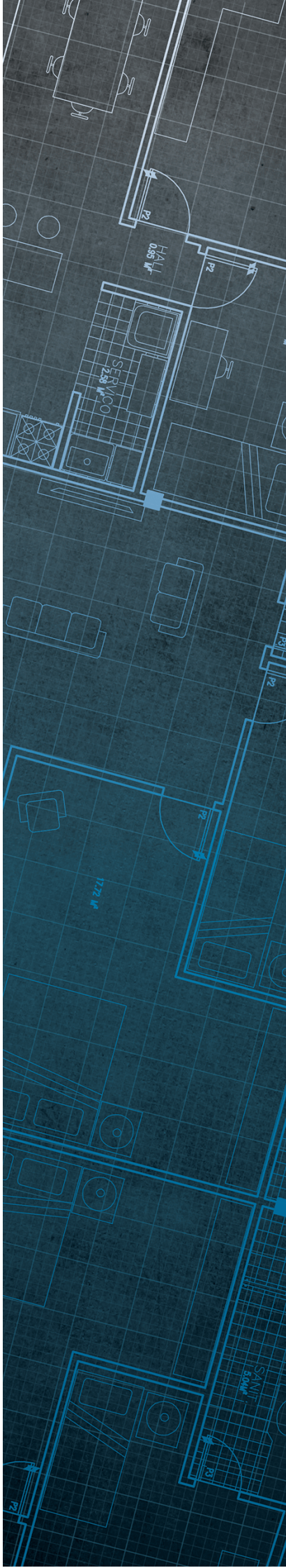
The Coal Authority

Consultants

Coal Mining Report

Kfc
Unit 1a
Kestrel Way
Birdwell
Barnsley
S70 5SZ

Date of enquiry:	**4 October 2018**
Date enquiry received:	**4 October 2018**
Issue date:	**4 October 2018**
Our reference:	**51001939639001**
Your reference:	**PO285080**



Consultants

Coal Mining Report

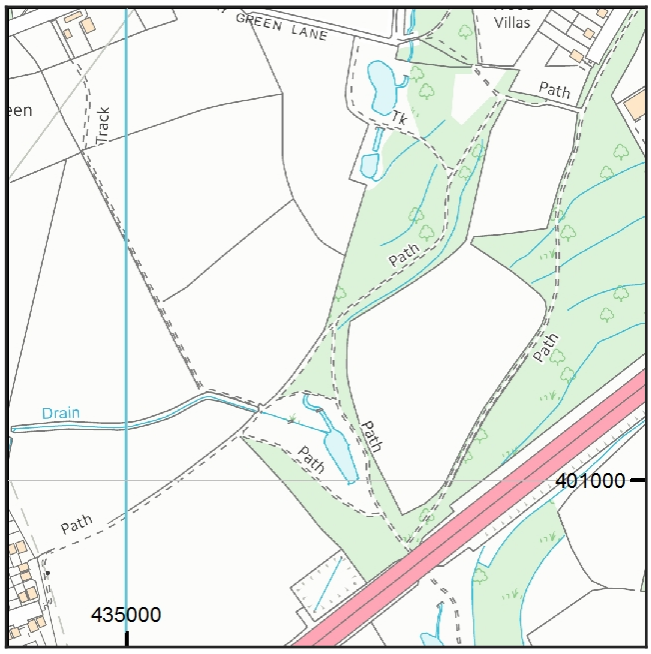
This report is based on and limited to the records held by the Coal Authority at the time the report was produced.

Client name

RSK ENVIRONMENT LIMITED

Enquiry address

Kfc
Unit 1a
Kestrel Way
Birdwell
Barnsley
S70 5SZ



Approximate position of property

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+44 (0)1623 637 000 (International)

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

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

Section 1 – Mining activity and geology

Past underground mining

Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
HIGH ROYD	BARNSLEY	Coal	6IG7	54	Beneath Property	3.7	North-East	254	1862
unnamed	LIDGETT	Coal	6IGC	71	Beneath Property	6.7	North-East	66	1915
ROCKINGHAM	LIDGETT	Coal	64RA	85	Beneath Property	3.8	North-East	66	1940
unnamed	LIDGETT	Coal	6IGB	91	Beneath Property	3.0	North-East	66	1940
ROCKINGHAM	SWALLOW WOOD	Coal	6IG8	111	Beneath Property	2.1	North-East	89	1944
ROCKINGHAM	FLOCKTON THICK	Coal	64RD	131	Beneath Property	2.9	North-East	104	1950
ROCKINGHAM	FLOCKTON THICK	Coal	6IGI	134	Beneath Property	4.1	North-East	102	1955
ROCKINGHAM	FLOCKTON THICK	Coal	6IGH	149	Beneath Property	2.8	North-East	173	1953
ROCKINGHAM	LIDGETT	Coal	6IGA	174	Beneath Property	4.9	North-East	71	1952
ROCKINGHAM	FLOCKTON THICK	Coal	4V0O	177	South-East	2.9	North-East	99	1951
unnamed	TOP FENTON	Coal	64RG	178	Beneath Property	3.4	North-East	109	1931
unnamed	TOP FENTON	Coal	6IGO	179	Beneath Property	4.1	North-East	104	1938
ROCKINGHAM	LOW FENTON	Coal	6IGS	182	Beneath Property	4.5	North-East	124	1979
ROCKINGHAM	LOW FENTON	Coal	64RK	183	Beneath Property	3.4	North-East	137	1952
unnamed	PARKGATE	Coal	64RQ	200	Beneath Property	3.7	North-East	147	1890
WHARNCLIFFE	PARKGATE	Coal	6IGY	202	Beneath Property	4.9	North-East	147	1892
unnamed	TOP FENTON	Coal	64RH	211	South-East	3.5	North-East	109	1920
unnamed	MIDDLETON MAIN	Coal	6IH4	226	Beneath Property	4.6	North-East	94	1918
ROCKINGHAM	PARKGATE	Coal	6IGW	228	Beneath Property	3.8	North-East	145	1913
unnamed	PARKGATE	Coal	64PM	230	South-East	2.3	East	152	1920
unnamed	MIDDLETON MAIN	Coal	64RT	235	Beneath Property	3.7	North-East	102	1904
ROCKINGHAM	FLOCKTON THICK	Coal	6IGG	242	North	5.2	North-East	152	1973

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Colliery	Seam	Mineral	Coal Authority reference	Depth (m)	Direction to working	Dipping rate of seam worked (degrees)	Dipped direction of seam worked	Extraction thickness (cm)	Year last mined
unnamed	SILKSTONE	Coal	6IHB	277	Beneath Property	4.7	North-East	147	1904
unnamed	SILKSTONE	Coal	64SI	279	Beneath Property	3.9	North-East	160	1909
UNAMED	TOP FENTON	Coal	6IGN	285	North-East	3.8	North-East	99	1958
UNAMED	SILKSTONE	Coal	64SB	291	Beneath Property	3.5	North-East	180	1916
ROCKINGHAM	LOW FENTON	Coal	6IGR	296	North-East	3.8	North-East	122	1949
ROCKINGHAM	SILKSTONE	Coal	6IHA	304	Beneath Property	3.9	North-East	180	1900
BARROW	PARKGATE	Coal	6IGX	310	North-East	3.9	North-East	147	1904
ROCKINGHAM	SILKSTONE	Coal	6IH9	313	Beneath Property	4.0	North-East	180	1904
ROCKINGHAM	PARKGATE	Coal	6IGV	317	North-East	2.6	North-East	145	1934
unnamed	WHINMOOR	Coal	64RY	328	Beneath Property	3.8	East	91	1946
unnamed	WHINMOOR	Coal	6IHE	332	Beneath Property	3.7	North-East	68	1944
ROCKINGHAM	MIDDLETON MAIN	Coal	6IH2	344	North-East	3.7	North-East	94	1936
BARROW	MIDDLETON MAIN	Coal	6IH3	345	North-East	5.2	East	132	1900
BARROW	SILKSTONE	Coal	6IH7	394	North	3.7	North-East	164	1901

Probable unrecorded shallow workings

Yes.

Spine roadways at shallow depth

No spine roadway recorded at shallow depth.

Mine entries

Entry type	Reference	Grid reference	Treatment description	Mineral	Conveyancing details
Shaft	435401-001	435298 401067	This shaft may have been wholly or partially removed by opencast mining	Coal	
Shaft	435401-002	435302 401038	was plugged below the Flockton seam level and filled in 1990. It was partially removed by opencast mining and subsequently capped at the base of the opencast excavation in June 1992	Coal	
Shaft	435401-003	435277 401004	was filled in 1990. It was partially removed by opencast mining and subsequently capped at the base of the opencast excavation in June 1992	Coal	
Shaft	435401-007	435309 401199	was filled in 1953 and has been totally removed by opencast mining	Coal	
Adit	435401-008	435335 401105	has been totally removed by opencast mining	Coal	
Adit	435401-009	435329 401109	has been totally removed by opencast mining	Coal	

Abandoned mine plan catalogue numbers

The following abandoned mine plan catalogue numbers intersect with some, or all, of the enquiry boundary:

14371	NE274	SY173
NE852	17828	NE855
SY207	NE853	NE1075

Our records show we have more plans than those shown above which could affect the enquiry boundary.

Please contact us on 0345 762 6848 to determine the exact abandoned mine plans you require based on your needs.

Outcrops

Seam name	Mineral	Seam workable	Distance to outcrop (m)	Direction to outcrop	Bearing of outcrop
KENT THICK	Coal	Yes	Within	N/A	351
SWALLOW WOOD	Coal	Yes	Within	N/A	180
SWALLOW WOOD	Coal	Yes	Within	N/A	284
SWALLOW WOOD	Coal	Yes	Within	N/A	290
SWALLOW WOOD	Coal	Yes	Within	N/A	330

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Geological faults, fissures and breaklines

Please refer to the 'Summary of findings' map (on separate sheet) for details of any geological faults, fissures or breaklines either within or intersecting the enquiry boundary.

Fault under or close to the property recorded.

Opencast mines

Please refer to the “Summary of findings” map (on separate sheet) for details of any opencast areas within 500 metres of the enquiry boundary.

Coal Authority managed tips

None recorded within 500 metres of the enquiry boundary.

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Section 2 – Investigative or remedial activity

Please refer to the 'Summary of findings' map (on separate sheet) for details of any activity within the area of the site boundary.

Site investigations

None recorded within 50 metres of the enquiry boundary.

Remediated sites

None recorded within 50 metres of the enquiry boundary.

Coal mining subsidence

The Coal Authority has not received a damage notice or claim for the subject property, or any property within 50 metres of the enquiry boundary, since 31st 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.

Mine gas

Distance to gas incident/remediation (m)	Direction
340.5	North-East

See Section 4 for further information.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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Section 3 – Licensing and future mining activity

Future underground mining
None recorded.

Coal mining licensing
None recorded within 200 metres of the enquiry boundary.

Court orders
None recorded.

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

Withdrawal of support notices
The property is in an area where notices to withdraw support were given in 1950.

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.

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.

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Section 4 – Further information

The following potential risks have been identified and as part of your risk assessment should be investigated further.

Development advice

The site is within an area of historical coal mining activity. Should you require advice and/or support on understanding the mining legacy, its risks to your development or what next steps you need to take, please contact us.

Mine gas remedial works

The site is within an area of previous interest. It is close to where the Coal Authority has investigated and subsequently remediated the effects of mine or ground gas emissions following specific reported hazards.

The site requires further investigation and may influence your risk assessment. We recommend that you order the **Coal Authority Mine Gas Emission Report**, which will include more information about the hazard.

For further information on specific site or ground investigations in relation to any issues raised in Section 4, please call us on 0345 762 6848 or email us at groundstability@coal.gov.uk.

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Section 5 – Data definitions

The datasets used in this report have limitations and assumptions within their results. For more guidance on the data and the results specific to the enquiry boundary, please **call us on 0345 762 6848** or **email us at groundstability@coal.gov.uk.**

Past underground coal mining

Details of all recorded underground mining relative to the enquiry boundary. Only past underground workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination, will be included.

Probable unrecorded shallow workings

Areas where the Coal Authority believes there to be unrecorded coal workings that exist at or close to the surface (less than 30 metres deep).

Spine roadways at shallow depth

Connecting roadways either, working to working, or, surface to working, both in-seam and cross measures that exist at or close to the surface (less than 30 metres deep), either within or within 10 metres of the enquiry boundary.

Mine entries

Details of any shaft or adit either within, or within 100 metres of the enquiry boundary including approximate location, brief treatment details where known, the mineral worked from the mine entry and conveyance details where the mine entry has previously been sold by the Authority or its predecessors British Coal or the National Coal Board.

Abandoned mine plan catalogue numbers

Plan numbers extracted from the abandoned mines catalogue containing details of coal and other mineral abandonment plans deposited via the Mines Inspectorate in accordance with the Coal Mines Regulation Act and Metalliferous Mines Regulation Act 1872. A maximum of 9 plan extents that intersect with the enquiry boundary will be included. This does not infer that the workings and/or mine entries shown on the abandonment plan will be relevant to the site/property boundary.

Outcrops

Details of seam outcrops will be included where the enquiry boundary intersects with a conjectured or actual seam outcrop location (derived by either the British Geological Survey or the Coal Authority) or intersects with a defined 50 metres buffer on the coal (dip) side of the outcrop. An indication of whether the Coal Authority believes the seam to be of sufficient thickness and/or quality to have been worked will also be included.

Geological faults, fissures and breaklines

Geological disturbances or fractures in the bedrock. Surface fault lines (British Geological Survey derived data) and fissures and breaklines (Coal Authority derived data) intersecting with the enquiry boundary will be included. In some circumstances faults, fissures or breaklines have been known to contribute to surface subsidence damage as a consequence of underground coal mining.

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Opencast mines
Opencast coal sites from which coal has been removed in the past by opencast (surface) methods and where the enquiry boundary is within 500 metres of either the licence area, site boundary, excavation area (high wall) or coaling area.

Coal Authority managed tips
Locations of disused colliery tip sites owned and managed by the Coal Authority, located within 500 metres of the enquiry boundary.

Site investigations
Details of site investigations within 50 metres of the enquiry boundary where the Coal Authority has received information relating to coal mining risk investigation and/or remediation by third parties.

Remediated sites
Sites where the Coal Authority has undertaken remedial works either within or within 50 metres of the enquiry boundary following report of a hazard relating to coal mining under the Coal Authority's Emergency Surface Hazard Call Out procedures.

Coal mining subsidence
Details of alleged coal mining subsidence claims made since 31 October 1994 either within or within 50 metres of the enquiry boundary. Where the claim relates to the enquiry boundary confirmation of whether the claim was accepted, rejected or whether liability is still being determined will be given. Where the claim has been discharged, whether this was by repair, payment of compensation or a combination of both, the value of the claim, where known, will also be given.

Details of any current 'Stop Notice' deferring remedial works or repairs affecting the property/site, and if so the date of the notice.

Details of any request made to execute preventative works before coal is worked under section 33 of the Coal Mining Subsidence Act 1991. If yes, whether any person withheld consent or failed to comply with any request to execute preventative works.

Mine gas
Reports of alleged mine gas emissions received by the Coal Authority, either within or within 500 metres of the enquiry boundary that subsequently required investigation and action by the Coal Authority to mitigate the effects of the mine gas emission.

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Mine water treatment schemes
Locations where the Coal Authority has constructed or operates assets that remove pollutants from mine water prior to the treated mine water being discharged into the receiving water body.

These schemes are part of the UK's strategy to meet the requirements of the Water Framework Directive. Schemes fall into 2 basic categories: Remedial – mitigating the impact of existing pollution or Preventative – preventing a future pollution incident.

Mine water treatment schemes generally consist of one or more primary settlement lagoons and one or more reed beds for secondary treatment. A small number are more specialised process treatment plants.

Future underground mining
Details of all planned underground mining relative to the enquiry boundary. Only those future workings where the enquiry boundary is within 0.7 times the depth of the workings (zone of likely physical influence) allowing for seam inclination will be included.

Coal mining licensing
Details of all licenses issued by the Coal Authority either within or within 200 metres of the enquiry boundary in relation to the under taking of surface coal mining, underground coal mining or underground coal gasification.

Court orders
Orders in respect of the working of coal under the Mines (Working Facilities and Support) Acts of 1923 and 1966 or any statutory modification or amendment thereof.

Section 46 notices
Notice of proposals relating to underground coal mining operations that have been given under section 46 of the Coal Mining Subsidence Act 1991.

Withdrawal of support notices
Published notices of entitlement to withdraw support and the date of the notice. Details of any revocation notice withdrawing the entitlement to withdraw support given under Section 41 of the Coal Industry Act 1994.

Payment to owners of former copyhold land
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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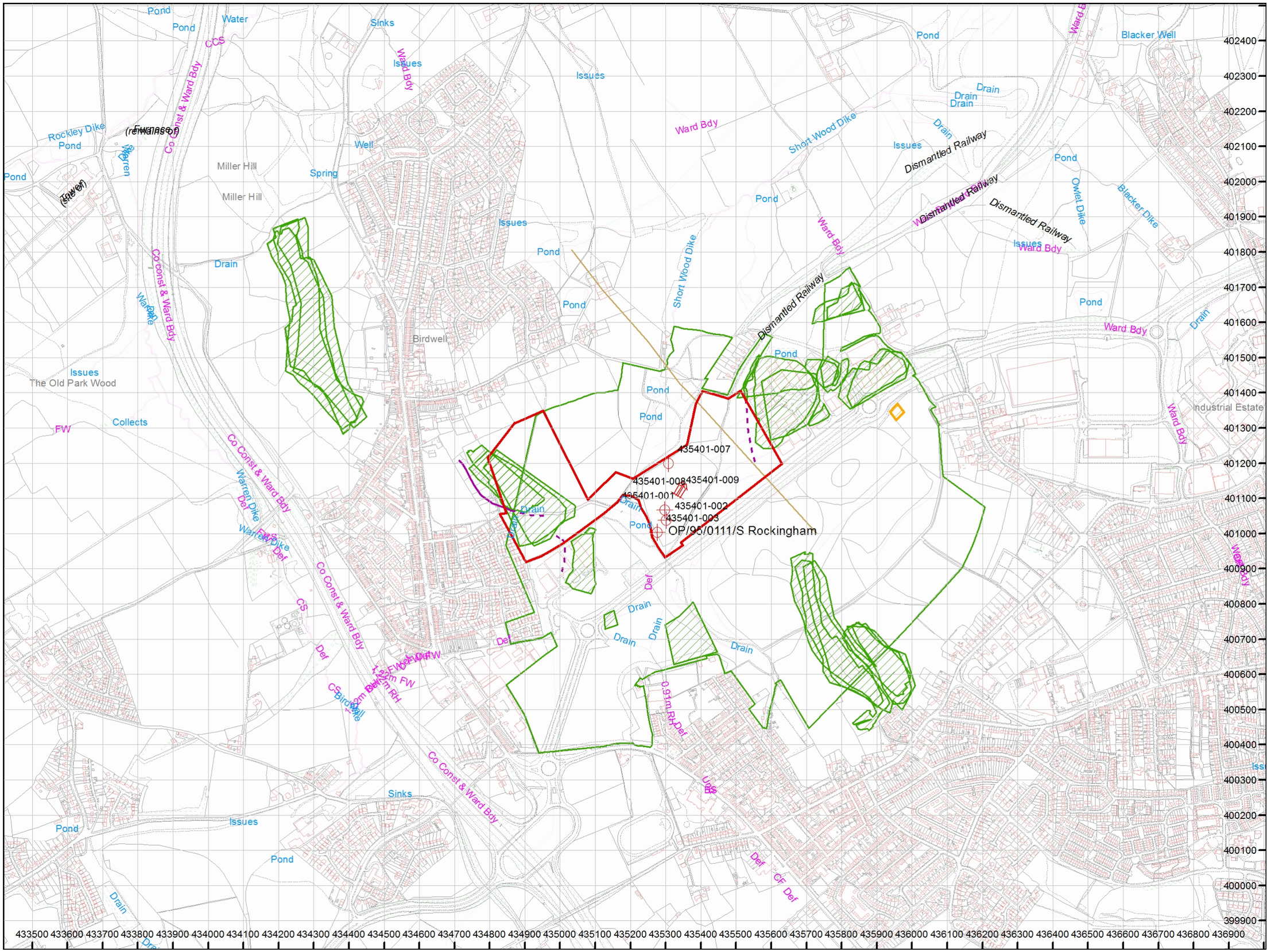
Summary of findings

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The map highlights any specific surface or subsurface features within or near to the boundary of the site.

Key

- Approximate position of the enquiry boundary shown
- Disused mine shaft
- Disused adit
- Outcrop (Proven)
- Outcrop (Conjectured)
- Geological faults
- Opencast mine licence area
- Unlicensed opencast site
- Mine gas remedial works



How to contact us
0345 762 6848 (UK)
+44 (0)1623 637 000 (International)
www.groundstability.com

APPENDIX E
BGS BOREHOLE LOG

British Geological Survey
NATURAL ENVIRONMENT RESEARCH COUNCIL

Version 2.0.6

BGS ID: 84439 : BGS Reference: SE30SE13
British National Grid (27700) : 435274,401100

Report an issue with this borehole

<< < Prev Page 1 of 5 Next > >>

SE 30 SE/13 87 71

(J11857) Wt. 17852—8154—5,000 12/26 Gp. 160. O.A.

SECTION OF Rockingham Colliery at ½ mile east of Braidwell

Maps: One-inch 87 Six-inch 282 NE County Yorkshire

Height above O.D. 425ft. Latitude 53° 30' 15" Longitude 1° 28' 5"

Communicated by 'Sec. Strata Yks. Clfld' 1927 p.280 Date of Sinking Not stated

Made by Dip of Strata 1 in 18 N 60°E

Summary of published record:

		Thickness.			Depth from Surface.		
	Earth + clay	1·83	6	-		6	-
Intervening beds are shales, binds, etc. with thin coalseams.	Swallow Wood Coal	0 93	3	1	20·93	68	8
	Stone	30·56	100	3	59·95	196	8
	Lidgett quarry	5·36	17	7	84·23	276	6
	Lidgett Coal (with dirt)	1·24	4	1	88·47	290	3
	Joan Coal	0·46	1	6	127·92	419	8
	Tankersley Ironstone	2·34	7	8	145·08	476	-
	Flockton Thick Coal (with dirts)	1·98	6	6	154·23	506	-
	Flockton Thin Coal (with mid-dirt)	1·14	3	4	181. 79	596	5
	High Fenton " (with dirts)	1·42	4	8	206. 12	676	3
	Low " " (with dirt)	1·35	4	5	209. 25	686	6
	Parkgate Coal (with dirts)	3·43	11	3	227. 63	746	10
	Rock	8·61	28	3	251 28	824	5
	Thorncliffe Thin Coal (with dirts)	3·05	10	-	257. 48	844	9
	Clay wood Ironstone	1·98	6	6	298·30	978	8
	Silkstone Coal (with dirts)	1·56	3	1½	309·96	1016	11
	Rock	2·39	7	10	312·93	1026	8

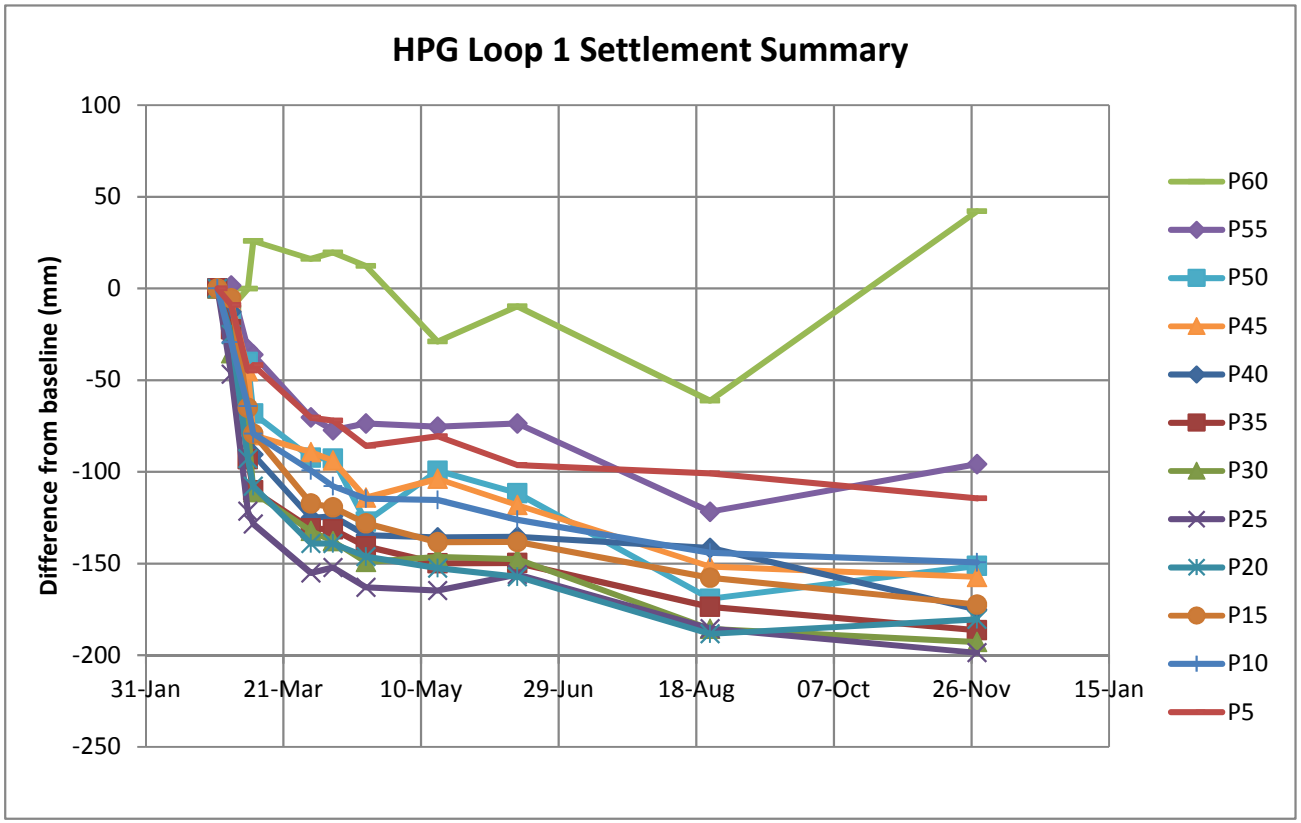
Totals given in published record for coal at 978'8" Silkstone + bottom of shaft are incorrect side Colliery Surveyor (fide J.V. Stephens) This mistake is due to misprint in item No. 122 Blue bind 0·0·6". This should be 6'0'·0".

N.B. Drawn up section from Sections of Strata (1950 Edition) correct. CA. 10/11/78.

H. Johnson 14.6.71

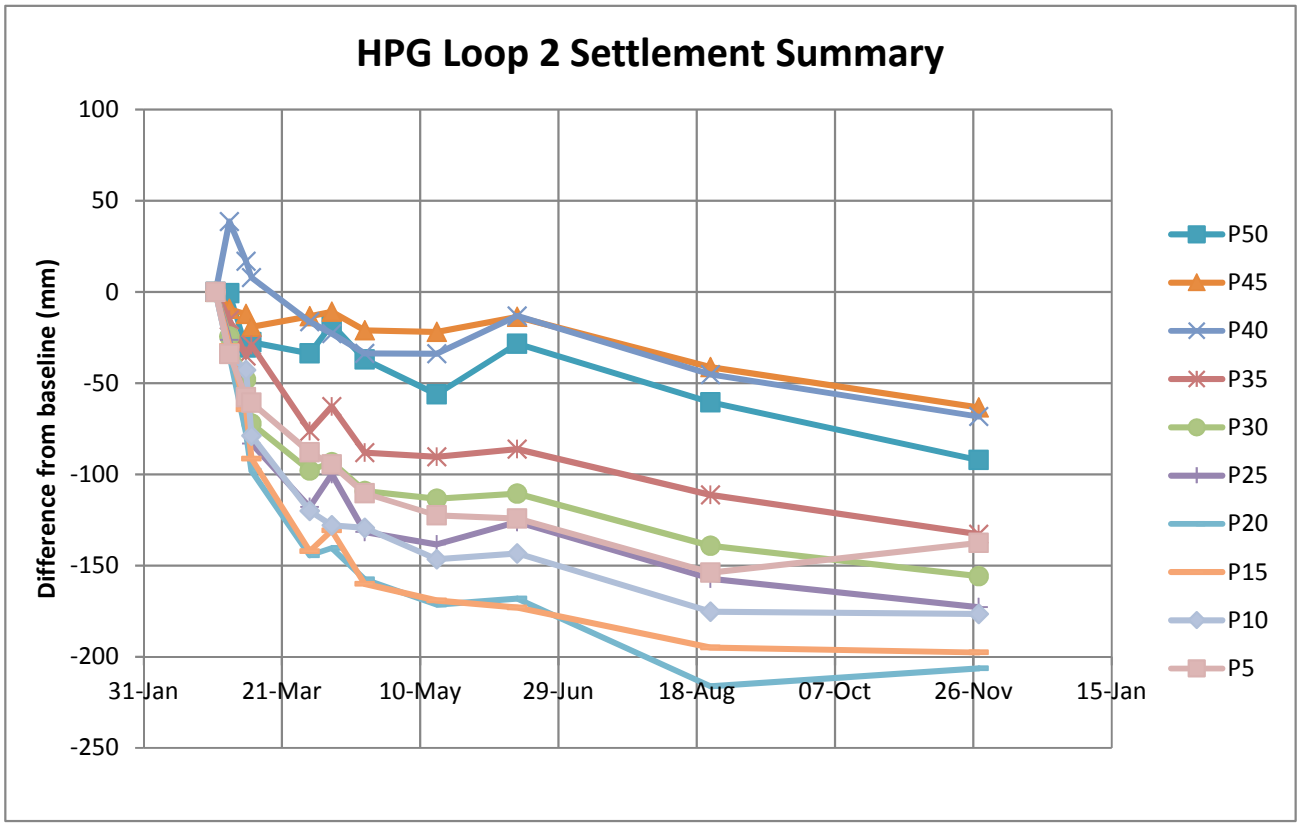
APPENDIX F
SETTLEMENT MONITORING DATA

Eastern Site Area: 2016 Load Test Settlement Results



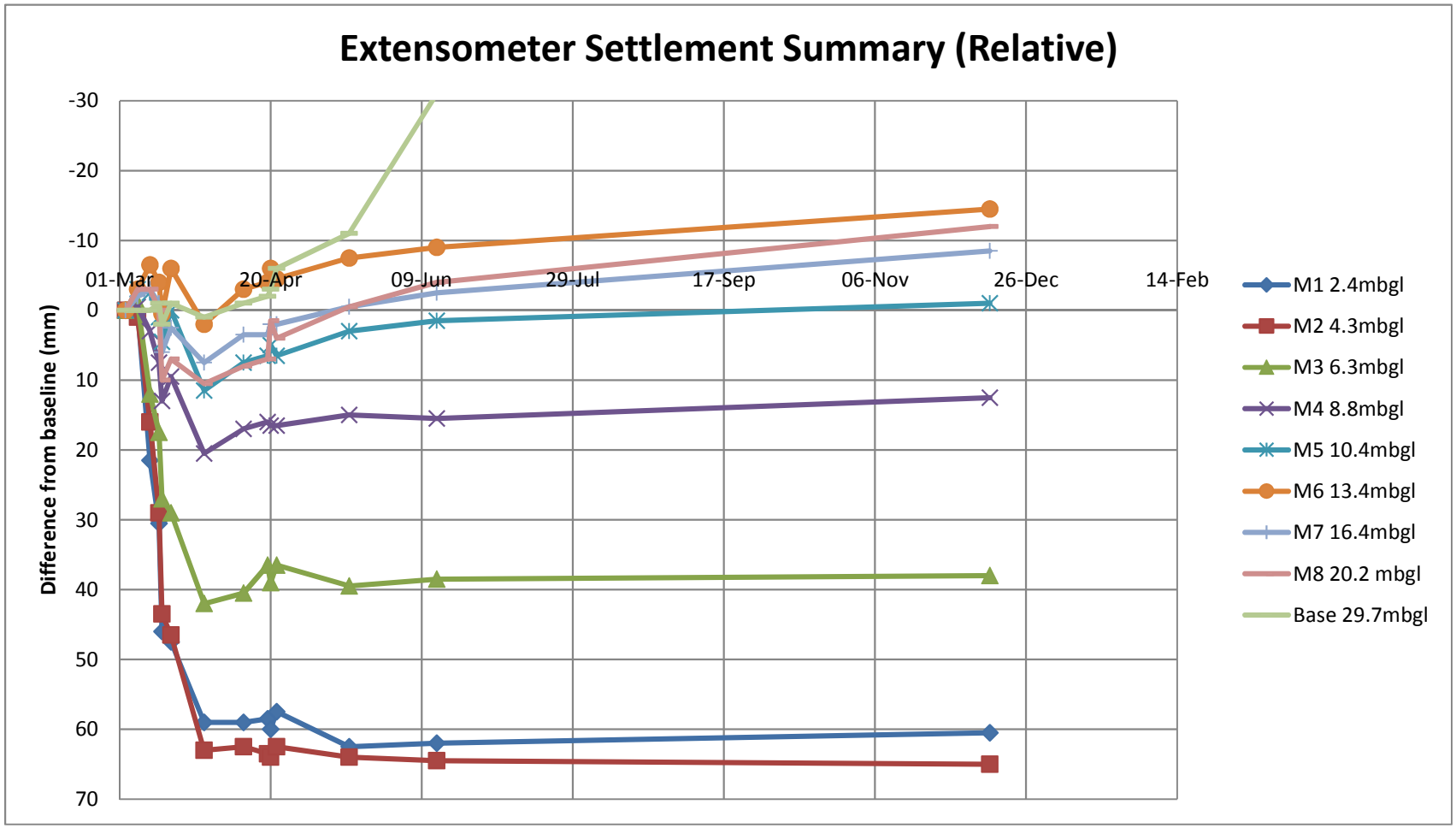
322494
J36 Phase 2, Rockingham

Eastern Site Area: 2015 Load Test Settlement Results



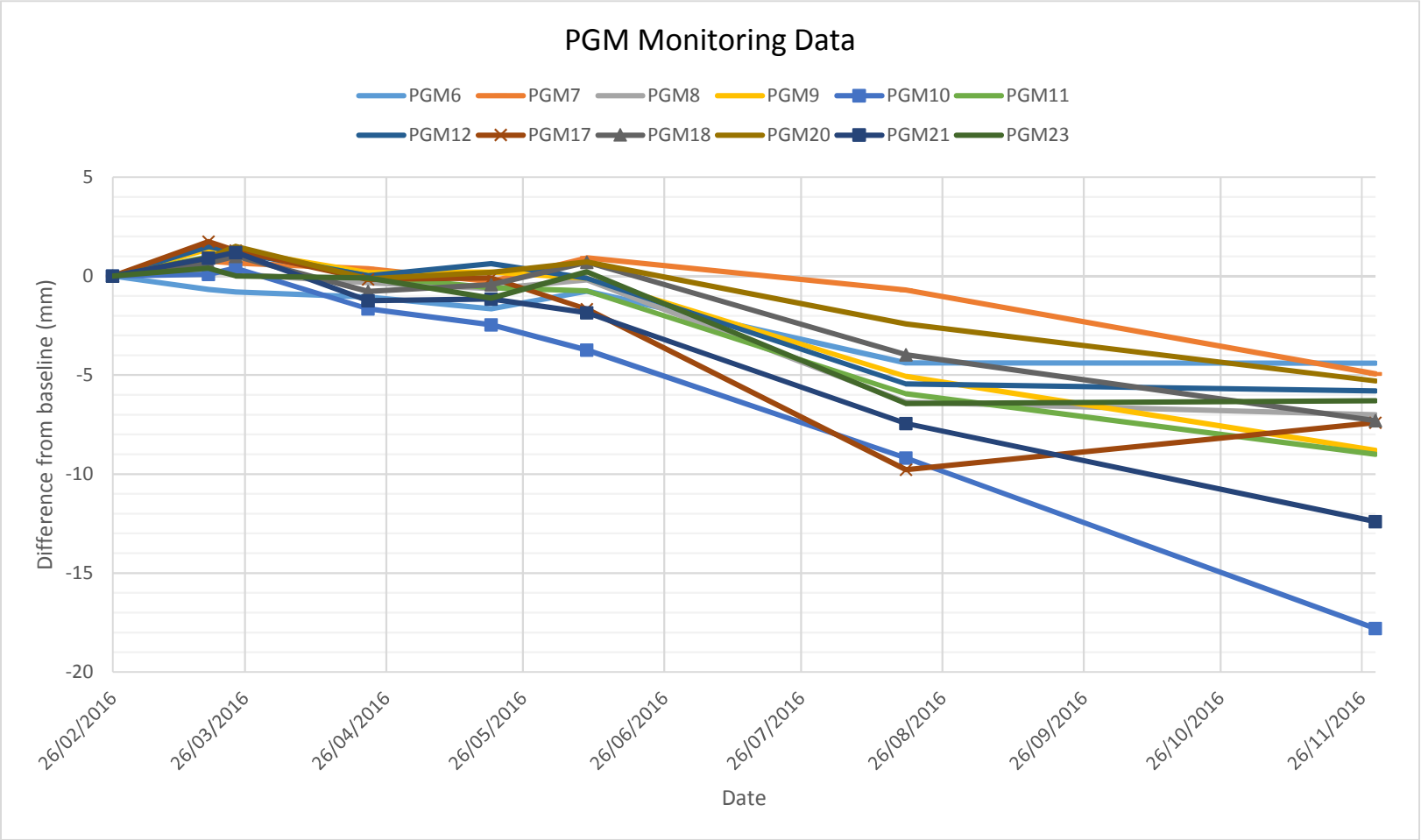
322494
J36 Phase 2, Rockingham

Eastern Site Area: 2016 Load Test Settlement Results



322494
J36 Phase 2, Rockingham

Eastern Site Area: 2016 PGM Monitoring Results



322494
J36 Phase 2, Rockingham

APPENDIX G
RISK ASSESSMENT METHODOLOGY

CLR11 outlines the framework to be followed for risk assessment in the UK. The framework is designed to be consistent with UK legislation and policies including planning. Under CLR11, three stages of risk assessment exist: preliminary, generic quantitative and detailed quantitative. An outline conceptual model should be formed at the preliminary risk assessment stage that collates all the existing information pertaining to a site in text, tabular or diagrammatic form. The outline conceptual model identifies potentially complete (termed possible) pollutant linkages (contaminant–pathway–receptor) and is used as the basis for the design of the site investigation. The outline conceptual model is updated as further information becomes available, for example as a result of the site investigation.

Production of a conceptual model requires an assessment of risk to be made. Risk is a combination of the likelihood of an event occurring and the magnitude of its consequences. Therefore, both the likelihood and the consequences of an event must be taken into account when assessing risk. RSK has adopted guidance provided in CIRIA C552 for use in the production of conceptual models.

The likelihood of an event can be classified on a four-point system using the following terms and definitions based on CIRIA C552:

- highly likely: the event appears very likely in the short term and almost inevitable over the long term or there is evidence at the receptor of harm or pollution
- likely: it is probable that an event will occur or circumstances are such that the event is not inevitable, but possible in the short term and likely over the long term
- low likelihood: circumstances are possible under which an event could occur, but it is not certain even in the long term that an event would occur and it is less likely in the short term
- unlikely: circumstances are such that it is improbable the event would occur even in the long term.

The severity can be classified using a similar system also based on CIRIA C552. The terms and definitions relating to severity are:

- severe: short term (acute) risk to human health likely to result in ‘significant harm’ as defined by the Environment Protection Act 1990, Part IIA. Short-term risk of pollution of sensitive water resources. Catastrophic damage to buildings or property. Short-term risk to an ecosystem or organism forming part of that ecosystem (note definition of ecosystem in ‘Draft Circular on Contaminated Land’, DETR 2000)

- medium: chronic damage to human health ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000), pollution of sensitive water resources, significant change in an ecosystem or organism forming part of that ecosystem

- mild: pollution of non-sensitive water resources. Significant damage to crops, buildings, structures and services ('significant harm' as defined in 'Draft Circular on Contaminated Land', DETR 2000). Damage to sensitive buildings, structures or the environment

- minor: harm, not necessarily significant, but that could result in financial loss or expenditure to resolve. Non-permanent human health effects easily prevented by use of personal protective clothing. Easily repairable damage to buildings, structures and services.

Once the probability of an event occurring and its consequences have been classified, a risk category can be assigned according to the table below.

		Consequences			
		Severe	**Medium**	**Mild**	**Minor**
Probability	**Highly likely**	Very high	High	Moderate	Moderate/low
	Likely	High	Moderate	Moderate/low	Low
	Low likelihood	Moderate	Moderate/low	Low	Very low
	Unlikely	Moderate/low	Low	Very low	Very low

Definitions of these risk categories are as follows together with an assessment of the further work that may be required:

- Very high: there is a high probability that severe harm could occur or there is evidence that severe harm is currently happening. This risk, if realised, could result in substantial liability; urgent investigation and remediation are likely to be required.

- High: harm is likely to occur. Realisation of the risk is likely to present a substantial liability. Urgent investigation is required. Remedial works may be necessary in the short term and are likely over the long term.

- Moderate: it is possible that harm could arise, but it is unlikely that the harm would be severe and it is more likely that the harm would be relatively mild. Investigation is normally required to clarify the risk and determine the liability. Some remedial works may be required in the longer term.

- Low: it is possible that harm could occur, but it is likely that if realised this harm would at worst normally be mild.

  Very low: there is a low possibility that harm could occur and if realised the harm is unlikely to be severe.