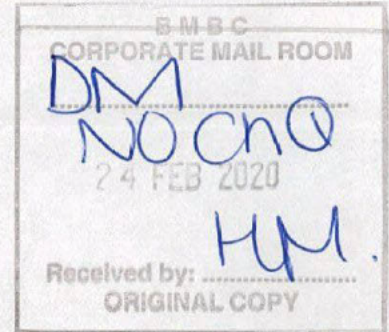


Harworth

20 February 2020

Private & Confidential

Richard Gilbert
Development Management,
Barnsley Metropolitan Borough Council,
PO Box 604,
Barnsley,
S70 9FE



Dear Richard,

SUPPORTING DOCUMENTS RELATING TO PRE-APPLICATION FOR RESIDENTIAL DEVELOPMENT ON LAND OFF HAY GREEN LANE, BIRDWELL:

Please find attached the Preliminary Risk Assessment and Coal Mining Risk Assessment documents prepared as part of our ground investigation work.

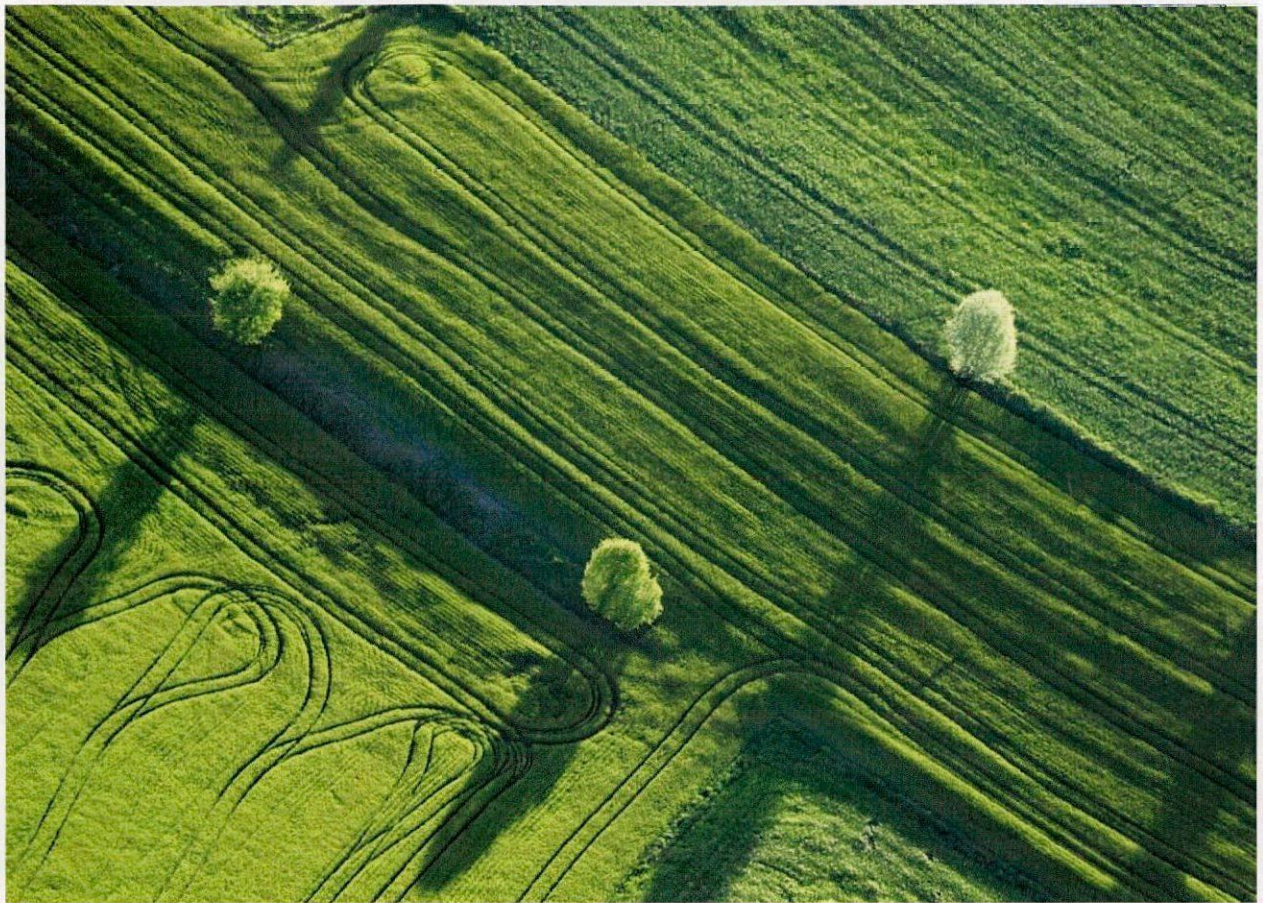
I look forward to hearing from you and please do not hesitate to contact me if you have any queries.

Yours sincerely

[REDACTED]

Joel Gandhi
Development Planner

[REDACTED]



Harworth Group

Hay Green Lane, Birdwell

Preliminary risk assessment and coal mining risk assessment

350283-R1

NOVEMBER 2019

RSK



RSK GENERAL NOTES

Project No.: 350283-R1 (00)


Title: Preliminary Risk Assessment and coal mining risk assessment: Hay Green Lane, Birdwell


Client: Harworth Group

Date: November 2019

Office: Castleford

Status: Final

Author	<u>Laura Alderman</u>	Technical reviewer	<u>John Harrison</u>
			
Signature		Signature	
Date:	<u>November 2019</u>	Date:	<u>November 2019</u>

Project manager	<u>John Harrison</u>
	
Signature	
Date:	<u>November 2019</u>

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Where any data supplied by the client or from other sources have been used, it has been assumed that the information is correct. No responsibility can be accepted by RSK for inaccuracies in the data supplied by any other party. The conclusions and recommendations in this report are based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.

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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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Appendix B	Summary of legislation and policy relating to contaminated land
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Appendix D	Previous borehole record
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Appendix G	Risk assessment methodology

1 INTRODUCTION

RSK Environment Limited (RSK) was commissioned by Harworth Group to carry out a preliminary risk assessment (PRA) and coal mining risk assessment (CMRA) of the land at Hay Green Lane, Birdwell, Barnsley. S70 5XD. It is understood the site is being considered for residential redevelopment.

This report is subject to the RSK service constraints given in Appendix A.

1.1 Background

The site is located off Hay Green Lane, Birdwell and comprises fields and allotments. RSK has undertaken a significant amount of investigation to the south of the site at the Rockingham Development, for the Harworth Group. The site is located in a coal mining area and records indicate that unrecorded shallow coal workings may be present on site.

1.2 Objective

In order to assess the potential geo-environmental and coal mining liabilities associated with the site, two distinct assessments are required; a Preliminary Risk Assessment, the minimum required by NPPF, and a Coal Mining Risk Assessment that are required to support an outline planning application for the site.

1.3 Scope

The scope of this assessment has been developed in accordance with relevant British Standards and authoritative technical guidance as referenced through the report. The assessment of the contamination status of the site is in line with the technical approach presented in CLR 11 Model Procedures for the Management of Land Contamination (Environment Agency, 2004) and in general accordance with BS 10175: 2011 + A2 2017 (BSI, 2017). It is also compliant with relevant planning policy and guidance.

A brief summary of relevant legislation and policy relating to land contamination is given in Appendix C.

The project was carried out to an agreed brief as set out in RSK's proposal, reference 350823/TL01/jh, dated 9 October 2019.

The PRA will include:

- A study of local geology and hydrogeology, including historical BGS boreholes.
- The identification of potential geological hazards, including radon.

- A study of the land-use, development history and environmental data on and around the site and its surroundings from local authority correspondence, an Envirocheck report and archival Ordnance Survey mapping.
- Review of previous RSK reports pertaining to the surrounding land.
- The identification of aquifer vulnerability rating beneath the site and local water abstraction points from Environment Agency records.
- A site walk-over reconnaissance survey.
- The identification of potential targets at risk from possible contamination.
- Production of a preliminary conceptual site model (CSM).
- Recommendations for further work, including outline intrusive investigation recommendations.

The scope of the Coal Mining Risk Assessment (CMRA) is:

- Review information provided on the Coal Authority on-line interactive viewer.
- Purchase and review of the Coal Authority Consultants Mining Report.
- Review of both abandonment plans and other relevant data included in UK Coal Completion Plans.
- Review the British Geological Survey Solid and drift geological maps, 1:10,000 and 1:50,000 series.
- Review borehole logs provided on the BGS website.
- Present a desk-based review of all available information on the coal mining issues which are relevant to the site use that information to 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 have influenced 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.

1.4 Existing reports

The following report detailing previous work at land to the south of the site were available for review:

- Preliminary Risk Assessment and Coal Mining Risk Assessment Report, J36 Phase 2, Rockingham, reference 322494-R01), RSK, 2019

Relevant information derived from this report is included in later sections of this report.

2 THE SITE

2.1 Site location and description

The site is located off Hay Green Lane, Birdwell, Barnsley. S70 5XD at National Grid reference 434780, 401350, as shown on Figure 1.

The area around the site is as detailed in Table 1.

Table 1: Site setting

To the north:	Residential properties (adjacent) and Hay Green Lane
To the east:	Residential property (Hawkwood Cottage, adjacent) and agricultural land
To the south:	Agricultural land
To the west:	Residential properties, then Sheffield Road (A61) and recreation ground

The site covers approximately 4 hectares at an elevation of approximately 125-135m above Ordnance Datum (AOD), generally sloping gently to the north east and comprises the following main attributes (some of which are shown on Figure 2):

- The site comprises allotment gardens and pastoral land (currently used by horses) in the western part of site, with associated sheds and stables
- The eastern part of the site comprises pastoral land (currently used by horses) with associated stables
- There is a densely vegetated area in the western part of site that could not be accessed during the site walkover; aerial photography shows possible buildings and/or structures in this area, however it is not known if these have been removed
- A public footpath lies along the eastern site boundary
- An overhead line runs across the south eastern corner of site, orientated northeast to southwest

3 PRELIMINARY RISK ASSESSMENT (PRA)

3.1 Site walkover

The site was visited on 8 November 2019 to undertake a site walkover. Photographs and the site walkover checklist are provided in Appendix C.

Two garages in the south western corner of site have possible asbestos cement sheet roofing. No other potentially significant sources of contamination were identified on site, except for the general land use as allotments and agricultural land.

Japanese knotweed is a non-native, highly invasive species and spreads via rhizomes (underground 'stems') rather than seeds in the UK. It is found in a range of habitats across the UK including roadsides, riverbanks and derelict land. Japanese knotweed **was not** identified during the site visit. However, Japanese knotweed is difficult to identify outside the growing season (March to September/October). As the site visit was conducted in November it is unlikely that any Japanese knotweed present could be identified accurately and, as such, we recommend that the site be resurveyed during the growing season.

No evidence for an historic well (identified on historical mapping from 1855 – see Section 3.7) was noted during the site walkover.

The ground was noted to be waterlogged over much of the site, with some areas of standing water and some flooding within the allotments. The survey was conducted following heavy rainfall.

Some areas in the western half of the site could not be accessed during the survey, as shown on Figure 2. This includes allotment plots and a densely vegetated area to the south of the allotments.

3.2 Ground conditions

3.2.1 Geology

Published records (British Geological Survey, 2008) and records on the British Geological Survey website (November, 2019) for the area indicate the geology of the site to be characterised by the succession recorded in Table 2.

Table 2: Geology at the site

Geological unit	Description	Estimated thickness (m)
-----------------	-------------	-------------------------

Pennine Middle Coal Measures Formation	Interbedded grey mudstone, siltstone, pale grey sandstone and commonly coal seams.	200 – 650
Source: British Geological Survey Lexicon of Named Rock Units		

Published geological records indicate that there are no superficial deposits beneath the site. The bedrock is recorded as being Pennine Middle Coal Measures and dips to the north east.

A BGS borehole record (borehole reference SE30SE13, presented as Appendix D), located 400m south east of site has been reviewed. This location has since been subject to opencast mining, however the record gives an indication of the anticipated geology beneath the site. The borehole encountered 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.

The 1:50,000 geological map for the area (Geological Survey of Great Britain, sheet 87, 2008) shows the Swallow Wood coal seam to sub-crop in the south western part of site. The next recorded coal seam beneath the Swallow Wood is the Lidgett, 55m deeper.

A fault known as the Birdwell Fault crosses the north western part of site, orientated north east to south west and is downthrown on the north western side.

3.2.2 Radon

The environmental database report (Envirocheck report, November 2019, see Appendix F) provides an assessment of radon risk equivalent to a stage 2 assessment undertaken by the British Geological Survey. This indicates that 1% to 3% of homes in the area are above the Action Level as defined by the Documents of the National Radiological Protection Board (Radon Atlas of England and Wales, NRPB-W26-2002) and that no radon protective measures are required within new dwellings at the site.

3.2.3 Coal Mining

A coal mining report commissioned from the Coal Authority is included in Appendix E. The report indicates that the site has been subject to underground mining in eight seams of coal at 55m to 327m depth, the last date of underground working being at Rockingham Colliery in 1979.

The Swallow Wood coal seam sub-crops in the southwestern part of site and the Coal Authority report indicates that unrecorded shallow workings may be present on site.

There are no recorded mine entries on site. The nearest recorded mine entry is 60m north west.

The Coal Authority report states that the site does not lie within the working boundary of a former opencast mine, although licensed opencast workings were carried out on the land lying adjacent to the south of site at the Rockingham opencast site.

The Coal Authority report indicates an area of unlicensed opencast workings approximately 20m to the south of site.

There is a record of a BGS recorded mineral site indicated in the environmental database report (Envirocheck, November 2019) at a site known as Hay Green Coal Workings, where coal was extracted from the Swallow Wood coal seam. The database report positions this in the southwestern part of site, however this may be a record for the unlicensed opencast workings 20m to the south of site.

A more detailed coal mining risk assessment is presented as Section 4.

3.2.4 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 referenced in this element of the desk study include:

- environmental database report
- old Ordnance Survey maps and plans (see Section 3.7)

There are no recorded current or historic landfill sites within 250m of site.

3.2.5 Ground gas

Given the presence of Coal Measures strata beneath site and underground workings, the risk associated with ground gas is considered moderate to very high in accordance with BS8576.

3.3 Hydrogeology

3.3.1 Aquifer characteristics

Based on the published geological map referred to above, the hydrogeology of the site is likely to be characterised by the presence of a deep aquifer comprising the Pennine Middle Coal Measures Formation.

The regional direction of groundwater flow is likely to be to the northeast, following the dip of the coal measures bedrock and the local topography.

It is also possible that localised perched water may be present in any made ground.

3.3.2 Vulnerability of groundwater resources

Information from the environmental database report (Envirocheck report, November 2019) indicates that the site lies upon a Secondary A aquifer associated with the bedrock.

These are permeable layers capable of supporting water supplies at a local rather than strategic scale, and in some cases forming an important source of base flow to rivers.

The soils beneath the site are classified as having a medium vulnerability class.

3.3.3 Licensed groundwater abstraction

The environmental database report (Envirocheck, November 2019) indicates that there are no licensed groundwater abstractions within 1km of the site and the site does not lie within a currently designated groundwater Source Protection Zone.

3.4 Hydrology

3.4.1 Surface watercourses

The nearest surface watercourse to site is Shortwood Dike situated approximately 340m northeast of site. There is also a pond situated approximately 180m north east of the site.

3.4.2 Surface water abstractions

The environmental database report (Envirocheck, November 2019) indicates that there are no licensed surface water abstractions within 1km of the site.

3.4.3 Preliminary flood risk assessment

The indicative floodplain map for the area, published by the EA, shows that the site does not lie within or on the margin of a designated floodplain.

3.5 Pollution incidents to controlled waters

There are no records of previous pollution incidents to controlled waters within 250m of site within the environmental database report (Envirocheck, November 2019).

3.6 Licences and permissions

There are six records within the environmental database report (Envirocheck, November 2019) for discharge consents relating to storm water/emergency overflow in the vicinity of

site, the nearest being approximately 100m west of site. These are not considered relevant to this assessment.

3.7 History of site and surrounding area

The history of the land-use and development of the site and surrounding area has been assessed based on the historical maps within the environmental database from 1855 to 2019. Copies of OS and County Series maps are included in the environmental database report in Appendix F. 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 maps.

The development history of the site and surrounding area is detailed in Table 3.

Table 3: Summary of historical development

Date	Land use/features on site	Land use/features in vicinity of site (of relevance to the assessment)
1855	<ul style="list-style-type: none"> • The site comprises agricultural fields • A well is indicated close to the southern site boundary 	<ul style="list-style-type: none"> • The surrounding land-use is predominantly agricultural • Residential and/or farm properties (including Hay Green House) lie adjacent to the north of site • A well is indicated near to the western site boundary (around 10m – 20m west)
1893	<ul style="list-style-type: none"> • The well on site is no longer shown 	<ul style="list-style-type: none"> • The well is no longer shown • Rockingham Colliery lies from approximately 560m south east, including railway sidings • Reservoir indicated 560m south east of site • Brick works including clay pits indicated 650m north east of site
1905-1906	<ul style="list-style-type: none"> • No significant change 	<ul style="list-style-type: none"> • Recreation ground indicated adjacent to the south of site • Spoil heap associated with Rockingham Colliery indicated approximately 380m south east
1931	<ul style="list-style-type: none"> • Allotment gardens are indicated in the western part of site 	<ul style="list-style-type: none"> • Residential properties have been built along Hay Green Lane adjacent to the northern site boundary • Spoil heap associated with Rockingham Colliery situated 530m south east of site

1932	<ul style="list-style-type: none"> • No significant change 	<ul style="list-style-type: none"> • Allotment garden area has extended to include an area adjacent to the south of site
1948	<ul style="list-style-type: none"> • No significant change 	<ul style="list-style-type: none"> • Large mounds indicated 500m south east of site
1962	<ul style="list-style-type: none"> • Several small structures, presumably sheds and/or stables, in the western part of site 	<ul style="list-style-type: none"> • No significant change
1965-1966	<ul style="list-style-type: none"> • No significant change 	<ul style="list-style-type: none"> • Large mounds now shown as slag heap/ refuse tip (500m south east) • Allotment garden area adjacent to the south no longer indicated
1989	<ul style="list-style-type: none"> • No significant change 	<ul style="list-style-type: none"> • Railway sidings associated with Rockingham Colliery have been dismantled, which is now annotated as disused workings • Spoil mounds associated with Rockingham Colliery and the reservoir are now shown as slag heaps/ refuse tips
2000	<ul style="list-style-type: none"> • Locations of sheds/ stables have altered 	<ul style="list-style-type: none"> • Slag heaps/ refuse tips no longer shown • Brick works no longer shown
2019	<ul style="list-style-type: none"> • No significant change 	<ul style="list-style-type: none"> • No significant change

The review of the site history has indicated that allotment gardens were present in the western part of site from the 1930's to present and the eastern part of site has remained as agricultural land from the 1800's to present.

Current aerial photography shows possible buildings and/or structures in a part of the western site area as indicated on Figure 2, which may have been former farm buildings or allotment structures. This area could not be accessed during the site walkover due to dense vegetation.

A well was indicated on site in 1855, but was no longer shown by 1893.

In the surrounding area, Rockingham Colliery was situated 560m south east, with associated spoil heaps from 380m south east. A brick works with associated clay pits was situated from 650m north east of site from 1893 and was no longer indicated by 2000. None of the historical land uses in the surrounding area are considered potential contaminant sources owing to their distance from site (greater than 250m).

It should be noted that the Rockingham opencast adjacent to site and the unlicensed opencast 20m south of site (see Section 3.2.3) have not been captured on historical mapping.

3.8 Sensitive land uses

The site lies within a nitrate vulnerable zone and in an area of adopted greenbelt.

3.9 Initial conceptual model

The information presented in Sections 2 and 3.1 to 3.8, has been used to compile an initial conceptual model. 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 3.9.4.

3.9.1 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 and present day	
Allotments	PAH, hydrocarbons, metals, inorganic chemicals, pH, asbestos. Domestic ash may have been deposited on the allotments to make up paths and condition the soil
Agricultural land	Hydrocarbons, PAH, metals, inorganic chemicals, pH
Off-site historical	
Rockingham opencast	PAH, hydrocarbons, metals, pH, asbestos
Unlicensed opencast (20m south)	
Off-site present day	
None identified.	
Ground gas sources	
Underlying Coal Measures strata and underground mine workings	Carbon dioxide, methane and trace gases
Opencast backfill (Rockingham opencast and unlicensed opencast) – likely to be predominantly inert	

3.9.2 Sensitive receptors

Sensitive receptors at this site include:

- future site occupants
- adjacent site users

- users of the public footpath along eastern boundary
- vegetation (proposed gardens and landscaped areas)
- potable water supply pipes
- shallow groundwater
- groundwater in Secondary A aquifer (PMCM bedrock)
- surface water receptors (pond and Shortwood Dike).

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.

3.9.3 Summary of plausible pathways

The plausible pathways 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
- root uptake
- permeation of plastic water supply pipes
- leaching and vertical and lateral migration.

3.9.4 Potentially complete pollutant linkages

A schematic plan showing the initial conceptual site model is included in Figure 4. An estimate of the risk associated with each linkage is summarised in Table 5. The risk classification has been undertaken in accordance with CIRIA C552 (Rudland et al., 2001), a summary of which is included in Appendix G.

3.9.5 Data gaps and uncertainties

An area in the western part of site could not be accessed during the site walkover, due to dense vegetation. Aerial photography shows possible buildings and/ or structures, however it is not known whether or not these have been removed. This represents a potential source of uncertainty and risk in relation to the presence of potential contamination sources (including the potential for ACM) and underlying soils.



Table 5: Risk estimation for potentially complete pollutant linkages

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Risk
Contaminants in site soils potentially containing hydrocarbons, PAH, inorganic chemicals, pH, asbestos	Future on-site occupants	Direct contact (soil, dust and vegetable ingestion, dermal contact, dust and fibre inhalation)	Low	Medium	Moderate/low. Potential for site users to come into contact with soils if there is an absence of hardstanding or clean cover systems in place. However, previous and current land use indicates significant contamination is not anticipated.
	Vegetation	Root uptake	Unlikely	Medium	Low. Impacted shallow soil could inhibit plant growth. However, previous and current land use indicates significant contamination is not anticipated.
	Underground potable water supply pipes	Direct contact: permeation	Likely	Medium	Moderate. Potential for permeation of water supply pipes from contaminants could create health risk. Owing to site location and use as allotments, coal/ash is likely to be present within shallow soils, indicating potential organic contamination including PAH.
Affected shallow groundwater as a result of historical or current leaching of soil contaminants	Shallow groundwater	Leaching	Low	Mild	Low. Shallow groundwater is not deemed sensitive and previous and current land use indicates significant contamination is not anticipated.
	Underground potable water supply pipes	Permeation	Low	Medium	Moderate/low. The potential for the permeation of water supply pipes by contaminants in shallow groundwater could create a health risk. Significant volumes of hydrocarbons are unlikely to have been used on-site, however PAH associated with coal/ash in the soil may be present within shallow groundwater.
	Groundwater in Secondary A aquifer	Vertical migration	Low	Mild	Low. Some vertical migration may occur through permeable granular horizons within weathered Coal Measures strata (clay); however, this is likely to be minimal and previous and current land use indicates significant contamination is not anticipated

Potential source	Potential receptor	Possible pathway	Likelihood	Severity	Risk
	Surface water receptors (pond and Shortwood Dike)	Lateral and vertical migration	Low	Mild	Low. Some lateral and vertical migration may occur through permeable granular horizons within weathered Coal Measures strata (clay); however, this is likely to be minimal and the distance to the potential receptors is likely to facilitate considerable attenuation.
Ground gases including carbon dioxide and methane derived from underlying coal measures strata, underground workings and off-site opencast backfill	Future on-site occupants and properties	Migration of soil gas via permeable shallow geology and build up in enclosed building spaces	Low	Severe	Moderate. If a pathway exists there is a potential for a risk of asphyxiation (from carbon dioxide) if gas concentrations build up in confined spaces or explosion if there is a build up of methane. The off-site opencast backfill is likely to comprise predominantly inert materials

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

1. Direct contact of the potential contamination within the soils to future on-site occupants.
2. Permeation of plastic water supply pipes by contaminants in soil and shallow groundwater.
3. Migration and build-up of ground gas within on-site buildings.

4 COAL MINING RISK ASSESSMENT

The Coal Authority (CA), 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 needs to consider a number of sources of information to determine coal mining issues relevant to a site. It then needs to identify and assess the site-specific coal mining risks and propose an appropriate mitigation strategy relevant for the proposed site end-use. This approach has been followed in the current assessment. The site-specific coal mining risks for the area are summarised in Section 4.1 and this is followed by the mitigation strategy in Section 4.2.

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.

4.1 Summary of site-specific coal mining risks

4.1.1 Underground workings

The Coal Authority report indicates that the site has been subject to underground mining in eight seams of coal at 55m to 327m bgl. The shallowest workable seam with recorded workings present below the site is the Lidgett Coal Seam, which based on the records held by the CA, is at approximately 55m bgl, with an extraction thickness of 66cm.

The Swallow Wood coal seam is indicated to sub-crop in the southwestern part of site. This shallow seam, as well as the underlying Unnamed 3 coal seam were worked by opencast mining methods at Rockingham opencast to the south of site (see Section 4.1.3). These seams are likely to be present on site at a shallower depth to the adjacent land and it is possible that unrecorded shallow workings may be present on site associated with these shallow coal seams.

Evidence of older shallow workings is indicated on the Rockingham opencast completion plan for the Swallow Wood coal seam (Drawing number 82/CP-2). The plan shows a significant number of former bell-pit workings recorded at the time of RJB opencast works, approximately 150m south of site, which are indicated to have previously extracted coal from the Swallow Wood seam.

4.1.2 Old mine entries

A review of the CA mining report indicates that there are no known coal mine entries on, or within 20m of, the site boundary. The nearest recorded mine entry is 60m north west.

4.1.3 Opencast areas

The site does not lie within the working boundary of a former opencast mine, although licensed opencast workings were carried out on the land lying adjacent to the south of site at the Rockingham opencast site. There is also an area of unlicensed opencast workings approximately 20m to the south of site.

The following completion plans (from UK Coal) have been reviewed for the Rockingham opencast site, which was operated by RJB Mining from 1989 to 1995:

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

The plans detail the coal horizons encountered and excavated during the opencast operations.

Figure 3 in the previous RSK report 322494-R01 (00) shows the extent of the workings in two seams adjacent to the south of site, starting with the shallowest:

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

The shallowest worked seam adjacent to the south of site was the Swallow Wood (AR), with the base of excavation for this being just below 126m AOD. It is evident that this seam dipped downwards towards the north-east.

The area of unlicensed opencast workings is located from 20m to the south of site and extends some 300m to the south east.

4.1.4 Coal Measures as a gas source

The underlying Coal Measures strata and underground workings are a potential source of coal bed methane and carbon dioxide.

4.2 Mitigation strategy

The CMRA completed in the preceding sections has concluded that there are some issues relating to coal mining which might influence the proposed residential development.

Aspects of coal mining and extraction discussed in the CMRA are covered in turn in this section, with comments provided as to why mitigation measures are considered necessary or not.

4.2.1 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.

It has been concluded that there is sufficient rock cover above the Lidgett coal seam, in which there are recorded workings. However, there may be shallow unrecorded workings at the site and there is the possibility that collapse of the workings could cause instability at the surface. It will be necessary to undertake intrusive investigation to assess this risk.

4.2.2 Old mine entries

There are no old mine entries recorded within or immediately around the site boundary. No mitigation measures are therefore required. However, the presence of shallow bell pitting in the Swallow Wood coal cannot be ruled out, therefore it would be prudent to have a watching brief during initial topsoil strip to identify if bell pits are present.

4.2.3 Opencast areas

The site lies outside the area subject to licensed and unlicensed opencast coaling operations, therefore no mitigation measures are required.

4.2.4 Coal Measures as a gas source

The underlying Coal Measures strata and underground workings are a potential source of methane and carbon dioxide. A ground gas risk assessment will be required at the site to determine the ground gas regime and consequently the requirements or otherwise for gas ingress preventative measures.

5 CONCLUSIONS AND RECOMMENDATIONS

5.1 Preliminary risk assessment

Current and historical uses of the site indicate that significant soil and groundwater contamination is not anticipated. However, potentially complete contaminant linkages were identified and those with risk estimations of moderate or above are:

1. Direct contact of the potential contamination within the soils to future on-site occupants.
2. Permeation of plastic water supply pipes by contaminants in soil and shallow groundwater.
3. Migration and build-up of ground gas within on-site buildings.

To reduce the uncertainty associated with the conceptual model and to quantify the risk associated with the contaminant linkages above, intrusive investigation and subsequent quantitative risk assessment is recommended. This will determine whether any further assessment and/or remedial works are required and does not preclude options for development.

5.2 Coal mining risk assessment

The CMRA has identified coal mining issues which may require mitigation and consequently necessitate further assessment by intrusive investigation. There may be shallow unrecorded workings at the site, which will require investigation to confirm their presence or absence and may subsequently require drilling and grouting consolidation treatment.

It is recommended that a watching brief is undertaken during the initial topsoil strip at the site, to identify if bell pits are present.

5.3 Uncertainties and other Potential Development Considerations

An area in the western part of site could not be accessed during the site walkover, due to dense vegetation. Aerial photography shows possible buildings and/ or structures in this area, however it is not known whether or not these have been removed. This represents a potential source of uncertainty and risk in relation to the presence of potential contamination sources (including the potential for ACM) and ground conditions. It is therefore recommended that vegetation clearance works are undertaken to gain access to this area for inspection.

Suspected asbestos cement sheet roofing was observed on two garages in the south western corner of site. The allotment sheds and stables across the site appear to be predominantly timber and metal construction, however the presence of ACM in these structures, or within any remaining structures and/or buildings in the inaccessible areas of site, cannot be ruled out.

The review of historical maps indicated a historical well on site close to the southern site boundary on the map of 1855; no evidence of the well was observed during the walkover survey.

It is recommended that the location of the well is investigated by trial trenching. If confirmed to be present, the well would require backfilling and capping. If the well cannot be located, it is recommended that a watching brief is undertaken during development of this area. A no development zone may be required around the well position.

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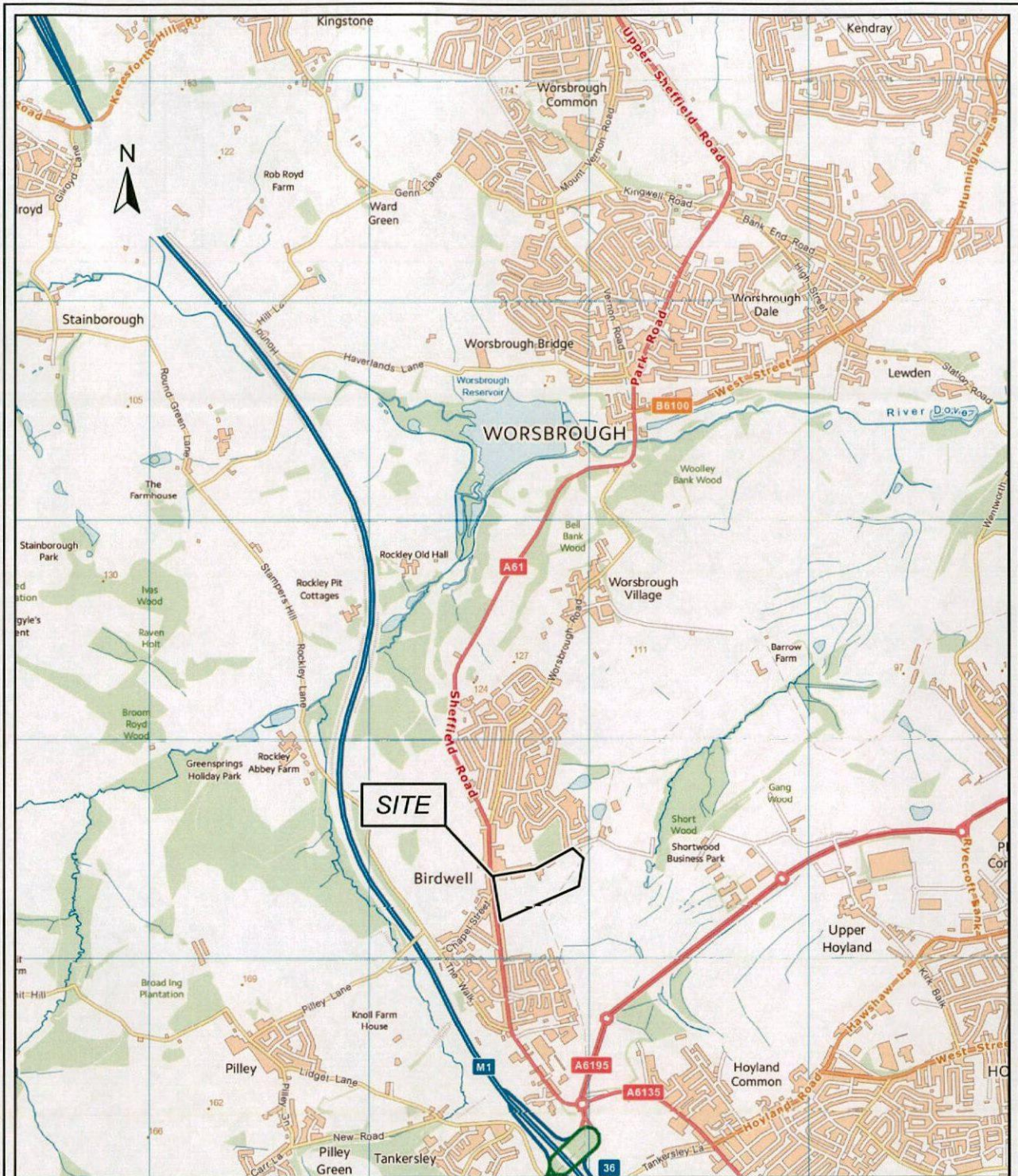
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FIGURES



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The Potteries
Pottery Street
Castleford
WF10 1NJ

Tel: +44 (0)1977 552255
www.rsk.co.uk

Client

Harworth Group

Project Title

Birdwell

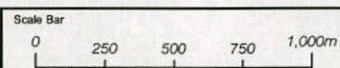
Drawing Title

SITE LOCATION PLAN

Rev 00	Drawn NP	Date 29.11.19	Checked LA	Date 29.11.19	Approved LA	Date 29.11.19
Dimensions m		Scale 1:25,000		Original Size A4		

Project Number
350283

Grid Ref
SE 347 013



Drawing Number
FIGURE 1

- LEGEND:**
- Site boundary
 - ① Photograph and direction
 - ▨ Area of dense vegetation (no access)
 - ▨ Allotments (Limited Access)



Notes
 Base plan from Gladman Development, Drawing No. 001, Dated 17.10.17

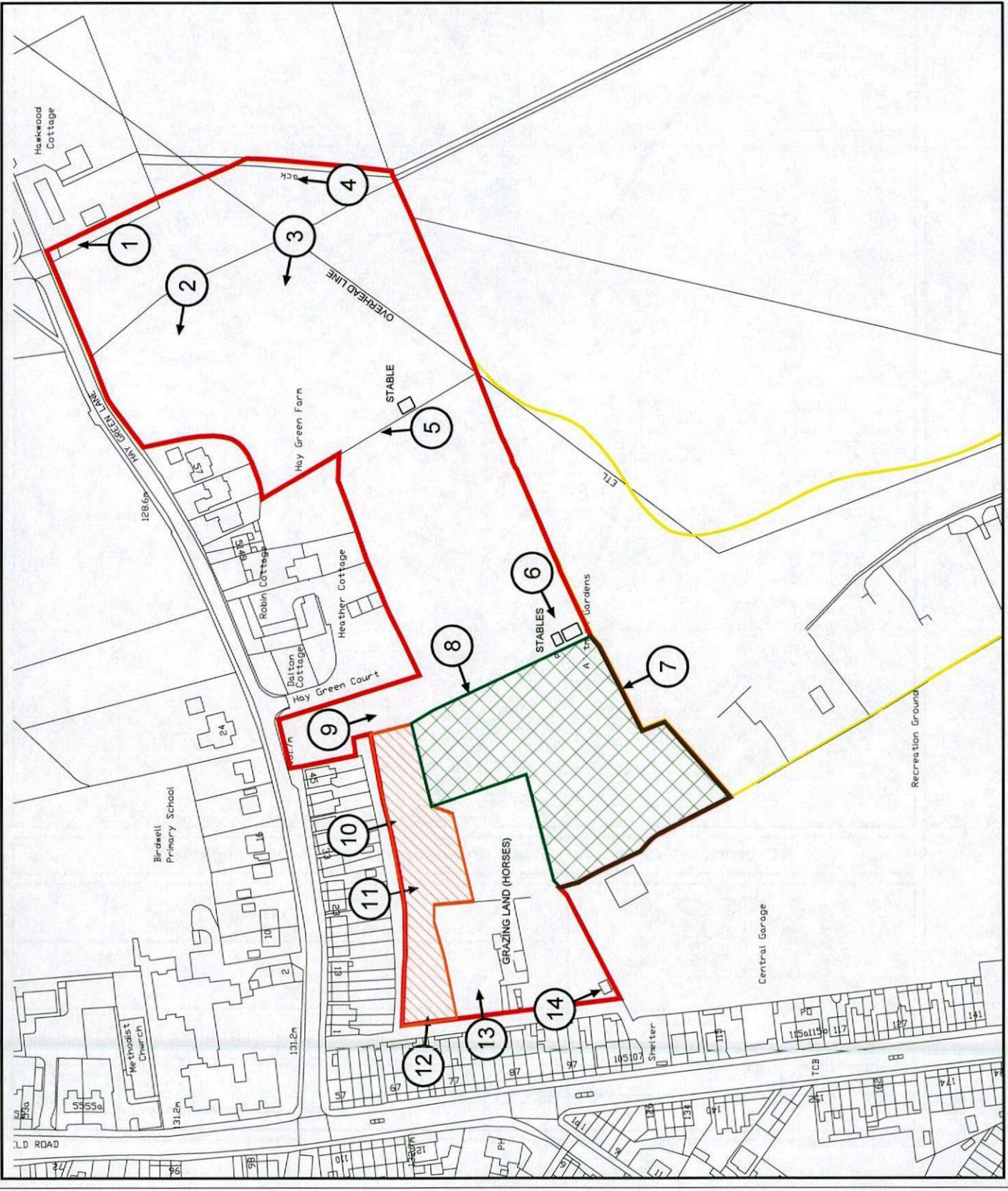
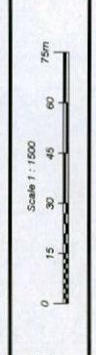
REV.	DATE	DESCRIPTION	BY	NP	LA	LA
A	28.11.19	FIRST ISSUE	CHD/JAPR			

Dimensions	Projection	Scale	Orig Size
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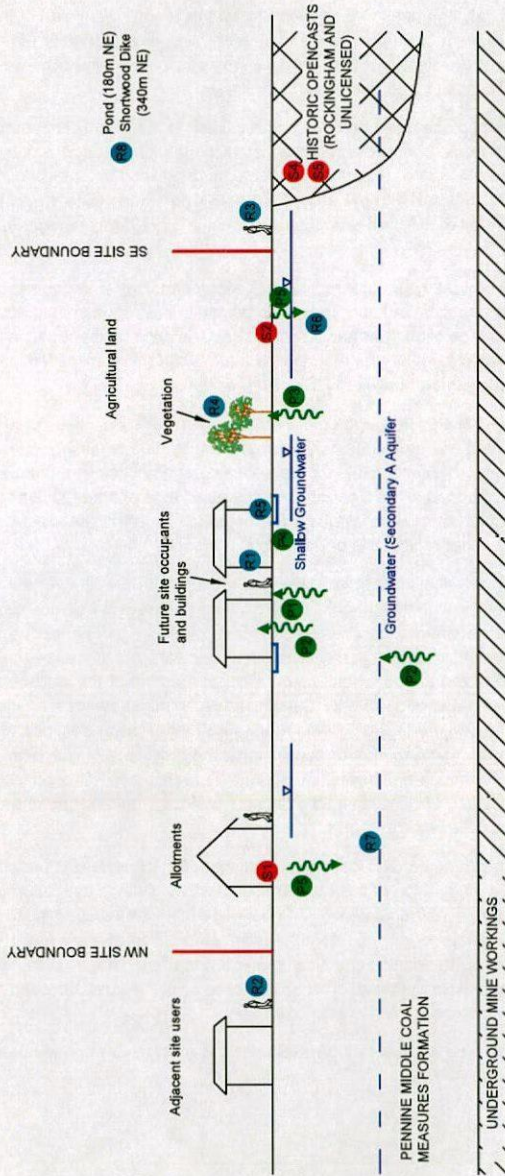


CLIENT: Harworth Group
 PRODUCT: Birdwell
 TITLE: SITE FEATURE PLAN

JOB No.:	350283	DRAWING FILE:	305283-R01(01)-FIG2
BY:	DATE: 28.11.19	CONTRACT NO.:	FIGURE 2
AP:		REV.:	A



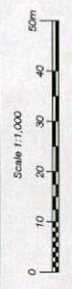
LEGEND:



REV. A	DATE	DESCRIPTION	BY	LA	LA
28.11.19		FIRST ISSUE	NP	LA	LA
Dimensions			Scale	Orig. Size	
			1:1	A3	



CUSTOMER	Harworth Group
PROJECT	Birdwell
TITLE	INITIAL CONCEPTUAL SITE MODEL
JOB No.:	350283
DRAWING FILE:	305283-R01(00)-FIG3
BY:	NP
DATE:	28.11.19
CONTRACT NO.:	FIGURE 3
REV.:	A





APPENDIX A

SERVICE CONSTRAINTS

1. This report and the site investigation carried out in connection with the report (together the "Services") were compiled and carried out by RSK Environment Limited (RSK) for Harworth Group (the "client") in accordance with the terms of a contract between RSK and the "client", dated 9 October 2018. The Services were performed by RSK with the skill and care ordinarily exercised by a reasonable environmental consultant at the time the Services were performed. Further, and in particular, the Services were performed by RSK taking into account the limits of the scope of works required by the client, the time scale involved and the resources, including financial and manpower resources, agreed between RSK and the client.
2. Other than that expressly contained in paragraph 1 above, RSK provides no other representation or warranty whether express or implied, in relation to the Services.
3. Unless otherwise agreed the Services were performed by RSK exclusively for the purposes of the client. RSK is not aware of any interest of or reliance by any party other than the client in or on the Services. Unless expressly provided in writing, RSK does not authorise, consent or condone any party other than the client relying upon the Services. Should this report or any part of this report, or otherwise details of the Services or any part of the Services be made known to any such party, and such party relies thereon that party does so wholly at its own and sole risk and RSK disclaims any liability to such parties. **Any such party would be well advised to seek independent advice from a competent environmental consultant and/or lawyer.**
4. It is RSK's understanding that this report is to be used for the purpose described in the introduction to the report. That purpose was a significant factor in determining the scope and level of the Services. Should the purpose for which the report is used, or the proposed use of the site change, this report may no longer be valid and any further use of or reliance upon the report in those circumstances by the client without RSK's review and advice shall be at the client's sole and own risk. Should RSK be requested to review the report after the date hereof, RSK shall be entitled to additional payment at the then existing rates or such other terms as agreed between RSK and the client.
5. The passage of time may result in changes in site conditions, regulatory or other legal provisions, technology or economic conditions which could render the report inaccurate or unreliable. The information and conclusions contained in this report should not be relied upon in the future without the written advice of RSK. In the absence of such written advice of RSK, reliance on the report in the future shall be at the client's own and sole risk. Should RSK be requested to review the report in the future, RSK shall be entitled to additional payment at the then existing rate or such other terms as may be agreed between RSK and the client.
6. The observations and conclusions described in this report are based solely upon the Services which were provided pursuant to the agreement between the client and RSK. RSK has not performed any observations, investigations, studies or testing not specifically set out or required by the contract between the client and RSK. RSK is not liable for the existence of any condition, the discovery of which would require performance of services not otherwise contained in the Services. For the avoidance of doubt, unless otherwise expressly referred to in the introduction to this report, RSK did not seek to evaluate the presence on or off the site of asbestos, electromagnetic fields, lead paint, heavy metals, radon gas or other radioactive or hazardous materials.
7. The Services are based upon RSK's observations of existing physical conditions at the Site gained from a walk-over survey of the site together with RSK's interpretation of information including documentation, obtained from third parties and from the client on the history and usage of the site. The Services are also based on information and/or analysis provided by independent testing and information services or laboratories upon which RSK was reasonably entitled to rely. The Services clearly are limited by the accuracy of the information, including documentation, reviewed by RSK and the observations possible at the time of the walk-over survey. Further RSK was not authorised and did not attempt to independently verify the accuracy or completeness of information, documentation or materials received from the client or third parties, including laboratories and information services, during the performance of the Services. RSK is not liable for any inaccurate information or conclusions, the discovery of which inaccuracies required the doing of any act including the gathering of any information which was not reasonably available to RSK and including the doing of any independent investigation of the information provided to RSK save as otherwise provided in the terms of the contract between the client and RSK.
8. The phase II or intrusive environmental site investigation aspects of the Services is a limited sampling of the site at pre-determined borehole and soil vapour locations based on the operational configuration of the site. The conclusions given in this report are based on information gathered at the specific test locations and can only be extrapolated to an undefined limited area around those locations. The extent of the limited area depends on the soil and groundwater conditions, together with the position of any current structures and underground facilities and natural and other activities on site. In addition chemical analysis was carried out for a limited number of parameters [as stipulated in the contract between the client and RSK] [based on an understanding of the available operational and historical information,] and it should not be inferred that other chemical species are not present.
9. Any site drawing(s) provided in this report is (are) not meant to be an accurate base plan, but is (are) used to present the general relative locations of features on, and surrounding, the site.

APPENDIX B

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 C SITE PHOTOGRAPHS AND WALKOVER CHECKLIST

<i>PHOTOGRAPHIC LOG</i>	
Photo no. 1	Date: 08.11.2019
Direction photo taken: North west	
Description: View along public footpath towards Hay Green Lane	
	


Photo No. 2	Date: 08.11.2019
Direction photo taken: North west	
Description: View across pastoral land in north eastern part of site, showing large felled tree	
	


Photo No. 7	Date: 08.11.2019	
Direction Photo Taken: North west		
Description: View of densely vegetated inaccessible land in the western part of site		


Photo No. 8	Date: 08.11.2019	
Direction Photo Taken: South west		
Description: View of densely vegetated inaccessible land in the western part of site		


Photo No. 9	Date: 08.11.2019	
Direction Photo Taken: South east		
Description: View of pastoral land in northern part of site		


Photo No. 10	Date: 08.11.2019	
Direction Photo Taken: South east		
Description: View towards densely vegetated inaccessible area		


Photo No. 3	Date: 08.11.2019	
Direction Photo Taken: North west		
Description: View of pastoral land and stable in eastern part of site		


Photo No. 4	Date: 08.11.2019	
Direction Photo Taken: North		
Description: View of waterlogged ground in eastern part of site		

Photo No. 5	Date: 08.11.2019	
Direction Photo Taken: North		
Description: View of waterlogged ground in eastern part of site		

Photo No. 6	Date: 08.11.2019	
Direction Photo Taken: South west		
Description: View of stables close to southern site boundary		

Photo No. 11	Date: 08.11.2019	
Direction Photo Taken: South		
Description: Flooded allotment		


Photo No. 12	Date: 08.11.2019	
Direction Photo Taken: South east		
Description: View across allotments		



Photo No. 13	Date: 08.11.2019	
Direction Photo Taken: East		
Description: View across pastoral land (horses and stables) in western part of site		

Photo No. 14	Date: 08.11.2019	
Direction Photo Taken: South east		
Description: Garages with possible asbestos cement sheet roofing		



WALKOVER SURVEY CHECKLIST: GEOSCIENCES

SITE NAME Hay Green Lane, Birdwell

SITE REFERENCE 350283

These inspections can provide useful information on:

- Potential geotechnical hazards
- Suitable and appropriate locations for investigation
- The groundwater and surface water environments
- Potentially sensitive receptors (targets) including issues that require further investigation, e.g. ecology surveys
- Potential sources of contaminants
- Nature of contamination
- Potential migration routes (pathways)

Mark locations of features described on a map and give them a reference number.

Describe features in as much detail as possible. Continue on the back of the checklist if necessary, using the feature letter for reference. Take photos of site and relevant features in immediate surrounding area.

The walkover survey can also provide information for the environmental consultant in planning the site investigation.

Points that should be addressed in a walkover survey are as follows:

Features	Description	Photo no.	Map ref.
a) Describe materials exposed in nearby road or railway cuttings, in pits and quarries and natural exposures of soils and rocks near to the site. <i>This will give an indication of the geology beneath the site</i>	Clayey soil observed where vegetation absent in agricultural land		
b) Describe surrounding properties/land use and name occupiers. Type of boundary demarcation (if any) on each side. <i>This will identify any potential sources of contamination from adjacent sites and any sensitive receptors</i>	North: Hay Green Lane East: Residential property and agricultural land South: Agricultural land West: Residential properties, then Sheffield Road (A61) and recreation ground		
c) Describe present land use. Are there areas of hardstanding (if yes describe location, types and condition)? <i>Especially crops, for consideration of appropriate timing for further investigation, compensation and reinstatement. Also note hardstanding, obstructions etc. Note any old buildings/ivy covered trees as these may be used by owls or bats</i>	Eastern half: Pastoral land (horses) with 3 small stables Western half: Allotments with sheds and pastoral land (horses) with stables	2,3,12,13	

WALKOVER SURVEY CHECKLIST Continued

Features	Description	Photo no.	Map ref.
<p>d) Describe the site in terms of ground slopes and changes in slope. Is there any evidence of subsidence or landslip/slope erosion?</p> <p><i>Old scarps or hummocky ground may be evidence of previous landslips that could be reactivated. A terraced appearance may be indicative of superficial solifluction movement or cambering. Trees that are leaning may indicate instability or general slope movement.</i></p>	<p>Uneven surface across agricultural land, some waterlogged areas in fields and some flooding in the allotment area</p>	3	
<p>e) Describe the types and condition of surface vegetation.</p> <p><i>Nettles may indicate an old cesspit for example or unhealthy vegetation may indicate the presence of phytotoxic fill or landfill gas. Note invasive weeds, e.g. Japanese knotweed.</i></p>	<p>Grass, scrub vegetation, hedgerow, trees</p>	3,7,8	
<p>f) Note the number, location, height and species of trees and hedges.</p> <p><i>This is important in terms of shrinking and swelling ground. Trees and hedgerows may be protected; their condition should be noted along with any restrictions they will impose for site access.</i></p> <p><i>It is important to note any areas with the potential for nesting birds, roosting bats, water voles and badger setts.</i></p>	<p>Hedgerow along field boundaries, some trees, including large felled tree in north eastern part of site</p>	2,3	
<p>g) Describe any evidence of animal activity.</p> <p><i>For example obvious animal paths or areas of excavations and burrows.</i></p>	<p>None identified</p>		
<p>h) Describe any damage to existing structures on site or adjacent to the site</p> <p><i>For example, cracks in buildings both on the site and in the neighbourhood, and other evidence of settlement or differential settlement.</i></p> <p><i>Note presence of any suspected asbestos-containing materials (ACM)</i></p>	<p>None identified</p>		
<p>i) Note the remains of structures that have been demolished. Look for evidence of remnants of any historical structures.</p> <p><i>This will provide valuable information on the location of previous foundations, processes etc.</i></p> <p><i>Note presence of any suspected asbestos-containing materials (ACM)</i></p>	<p>None identified</p>		

WALKOVER SURVEY CHECKLIST Continued

Features	Description	Photo no.	Map ref.
<p>j) Note any abrupt changes in ground level. Is there evidence of Made Ground/fill on site <i>May indicate that minerals have been worked in surface excavations. May indicate cut and fill.</i></p>	<p>Site surface generally uneven in western part of site No evidence of made ground identified.</p>	3	
<p>k) Note any surface hollows. <i>Which may indicate the presence of solution features or swallow holes in rocks such as chalk limestone, gypsum and salt, or collapsed underground workings in these materials. May also indicate badger setts or other wildlife activity.</i></p>	None identified		
<p>l) In areas of country underlain by coal or other minerals note any hummocky ground. <i>Which may be the remnants of spoil tips and surface depressions that may indicate collapsed shallow workings. Areas of general unevenness may be evidence of waste disposal activities.</i></p>	Site surface generally uneven in western part of site	3	
<p>m) Note any evidence of gas from nearby landfill sites <i>Can be indicated for example by poor vegetation or gas bubbles in water-filled trenches.</i></p>	None identified		
<p>n) Are there any evidence of gas protection measures (gas membrane, gravel filled trenches, venting pipes, cowls etc)</p>	None identified		
<p>o) Note the location of streams, culverts, ponds, seepages and sinks and signs of previous flooding. Note direction of flow. Note where the stream is accessible for sampling. May need to take dimensions of stream. <i>If ponds are present on site they may contain great crested newts. Ditches, streams and rivers that border or run through a site may contain water voles, otters or white-clawed crayfish. Presence of water features on site may prompt the need for a survey during a site investigation.</i></p>	Shortwood Dike 340m north east, could not be accessed during site walkover		
<p>p) All surface waters should be examined for evidence of contamination. <i>For example, oil sheen, silt, solid matter, discoloured sediment.</i></p>	None identified		

Features	Description	Photo no.	Map ref.
<p>q) Note site drainage. Are there any drain covers/soakaways (if yes describe locations). Are there any outfalls to surface watercourses? Are there any interceptors/lagoons/effluent treatment plants?</p>	<p>Drain manhole cover noted in south eastern part of site (fast flowing after recent heavy rainfall)</p>		
<p>r) Describe storage of fuels and chemicals. Are there any drums/containers (if yes, describe quantity, full/empty, stored on hardstanding/softstanding, banded)? <i>Is there evidence of underground fuel tanks (if yes, describe locations, how many, volumes, bunding, used/disused, condition)?</i></p>	<p>None identified</p>		
<p>s) Note any discoloured ground. <i>This may provide evidence of contamination.</i></p>	<p>None identified</p>		
<p>t) Accidents: In the event of a large spillage would runoff affect any vulnerable watercourses/culverts? <i>Are emergency procedures/equipment in place?</i></p>	<p>None close to site</p>		
<p>u) Waste: Are there any waste skips on site? Are waste storage facilities adequate? Is there any litter/fly-tipped material?</p>	<p>None identified</p>		
<p>v) Are there any electricity substations on or adjacent to site?</p>	<p>None identified</p>		
<p>w) Identify any old structures, pipework etc. wherever possible and, if safe, inspect for evidence of stored waste. <i>Old tanks may contain oil. Old electricity transformers should be noted. Asbestos risk should be assessed together with the need for a specialist hazardous materials survey.</i></p>	<p>None identified, however densely vegetated area in western part of site could not be accessed</p>		
<p>x) Examine surrounding areas for evidence of contamination which could migrate onto the site. <i>For example a leaking oil tank on an adjacent site.</i></p>	<p>None identified</p>		
<p>y) Note the presence of any underground structures, services, mine workings, tunnels etc <i>From a safety point of view for development of the site and also as they may provide contaminant migration routes.</i></p>	<p>None identified</p>		
<p>z) Note any anecdotal information in past uses of the site. <i>Local street names etc. can provide indicators of past industry or ground problems</i></p>	<p>None identified</p>		



WALKOVER SURVEY CHECKLIST Continued

Features	Description	Photo no.	Map ref
aa) Description of buildings on site. Is there any evidence of asbestos construction materials, e.g. roofing, insulation materials. Do any of the buildings have basements? Do any of the buildings have a boiler room? (if yes describe fuel type and storage arrangements)	Sheds associated with allotments in western part of site – predominantly timber and metal construction, however presence of ACM possible Stables in pastoral areas of site – timber construction Garages (2) in south western corner of site appear to have asbestos cement sheet roofing	6, 11-14	
bb) Identify potential access routes to the site for plant for the site investigation <i>Excavators and drilling rigs may be required for the next stage of the investigation, or if the access is limited window sampling techniques may need to be specified. Note any specific obstructions such as unsafe/unstable ground, protected trees or hedgerows, or protected buildings.</i>	Access to agricultural land off Hay Green Lane – public footpath/ track Narrow access road off Hay Green Lane and Sheffield Road (A61) to western part of site. Allotments currently inaccessible to plant. Densely vegetated area currently inaccessible.		
cc) Evidence of buried services (water, gas, electricity, telephone, cable, television, pipelines) <i>Both for safety considerations and in the case of water as supply for further investigation. As well as danger, there is the question of considerable expense, which can arise from an inadequate knowledge of the location of buried services. The locations and heights of overhead cables may be important when considering the movement of site equipment.</i>	Drainage manhole cover in south eastern corner of site. Overhead lines across south eastern part of site		

Walkover survey completed	Approved: _____	L. Alderman
Date 08.11.2019		

Notes:



APPENDIX D PREVIOUS BOREHOLE RECORD



British Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

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

[Report an issue with this borehole](#)

SE 30 SE/13 30' 87/71

J118870 W6.17852--8164--5.000 12/26 Op. 100. O.A. British Geological Survey

SECTION OF Rockingham Colliery at $\frac{1}{2}$ mile east of Burdwell

Maps: One-inch 87 Six-inch 282 NE County Yorkshire
 Height above O.D. 425 ft. Latitude 53° 30' 15" Longitude 1° 23' 6"
 Communicated by 'Sec. Strata Yks. Clfd' 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.	
Intervening beds are shales, brinds, etc. with thin coals seams.	Earth + clay	1.83	6 -	6 -	
	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 4
	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 dirt)	1.98	6 6	154.23	506 -
	Flockton Thin Coal (with mid-dirt)	1.14	3 7	181.79	596 5
	High Fenton " (with dirt)	1.42	4 8	206.12	676 3
	Low " " (with dirt)	1.35	4 5	209.25	686 6
	Parkgate Coal (with dirt)	3.43	11 3	227.63	746 10
	Rock	8.61	28 3	251.28	834 5
	Thorncliffe Thin Coal (with dirt)	3.05	10 -	257.48	844 9
	Claywood Ironstone	1.98	6 6	298.30	978 8
Silkstone Coal (with dirt)	1.56	5 1/2	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
 vide Colliery Surveyor (File JV steps)
 This mistake is due to misprint in
 No. 122 Blue bind 0.0.6". This should be 6.0'0".

N8 Draw up section from sections of Strata (1950 Edition) connect. CA. 10/11/78.
British Geological Survey

British Geological Survey

H. J. Jones
14.6.78



APPENDIX E
COAL AUTHORITY MINING REPORT AND RJB
COMPLETION PLAN 82/CP-2



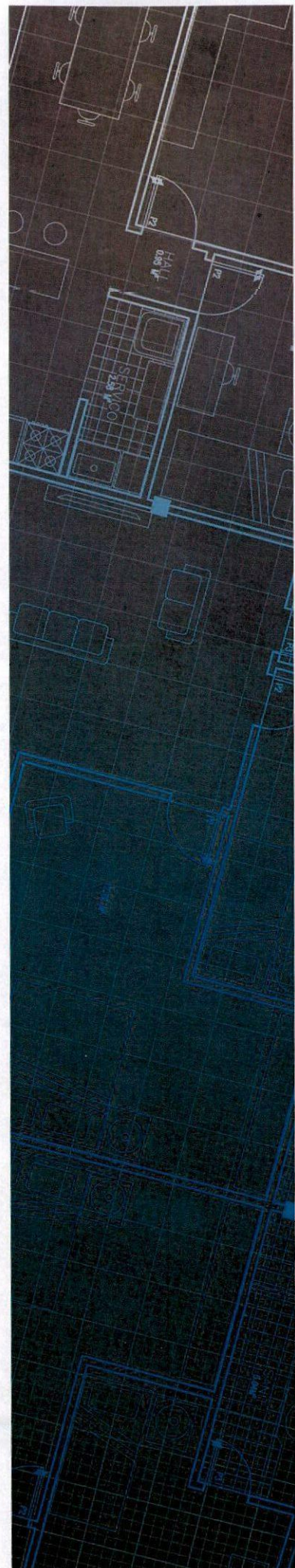
The Coal
Authority

Consultants Coal Mining Report

Hay Green Lane
Birdwell
Barnsley
S70 5XD

Date of enquiry: 6 November 2019
Date enquiry received: 6 November 2019
Issue date: 6 November 2019

Our reference: 51002188370001
Your reference: 350283



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

Laura Alderman

Enquiry address


Hay Green Lane
Birdwell
Barnsley
S70 5XD


How to contact us


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


200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

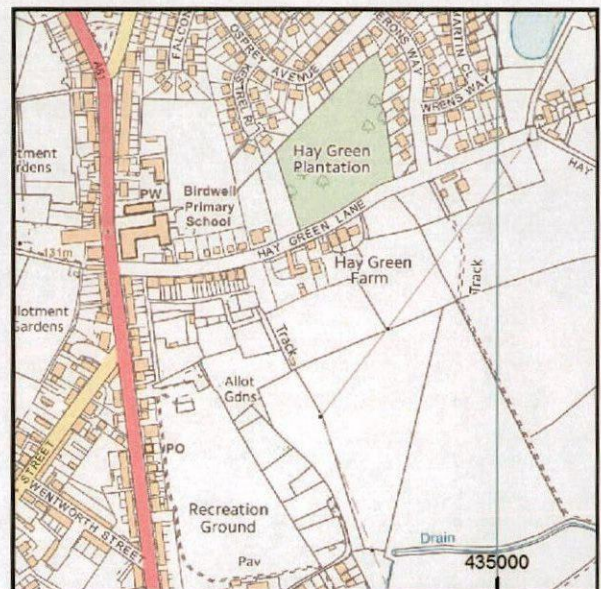
www.groundstability.com

 @coalauthority

 /company/the-coal-authority

 /thecoalauthority

 /thecoalauthority



Approximate position of property



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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
unnamed	LIDGETT	Coal	6IGC	55	Beneath Property	6.7	North-East	66	1914
ROCKINGHAM	FLOCKTON THICK	Coal	6IGI	126	Beneath Property	4.1	North-East	102	1951
ROCKINGHAM	FLOCKTON THICK	Coal	6IGH	144	Beneath Property	2.8	North-East	173	1953
ROCKINGHAM	FLOCKTON THICK	Coal	6IGK	144	North-West	4.4	North-East	178	1954
unnamed	TOP FENTON	Coal	6IGO	172	Beneath Property	4.1	North-East	104	1935
ROCKINGHAM	LOW FENTON	Coal	6IGS	175	Beneath Property	4.5	North-East	124	1979
WHARNCLIFFE	PARKGATE	Coal	6IGY	192	Beneath Property	4.9	North-East	147	1890
unnamed	TOP FENTON	Coal	6IGP	197	North-West	4.0	North-East	106	1933
unnamed	PARKGATE	Coal	6IGZ	217	North-West	4.1	North-East	129	1896
unnamed	MIDDLETON MAIN	Coal	6IH4	222	Beneath Property	4.6	North-East	94	1918
unnamed	SILKSTONE	Coal	6IHB	270	Beneath Property	4.7	North-East	147	1899
unnamed	SILKSTONE	Coal	6ICH	294	North-West	4.1	North-East	147	1914
unnamed	WHINMOOR	Coal	64RY	324	South	3.8	East	91	1941
unnamed	WHINMOOR	Coal	6IHE	327	Beneath Property	3.7	North-East	68	1944

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	434401-002	434565 401394		Coal	

Abandoned mine plan catalogue numbers

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

SY173	NE852	17828
NE855	SY207	NE853
NE1075	7183	SY171

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
SWALLOW WOOD	Coal	Yes	Within	N/A	317

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.

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

There are 2 claim(s) within 50 metres of the property boundary that do not match the property address. These are shown on the enquiry boundary plot.

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.

If further subsidence damage claims information is required, please visit www.groundstability.com.

See Section 4 for further information.

Mine gas

None recorded within 500 metres of the enquiry boundary.

Mine water treatment schemes

None recorded within 500 metres of the enquiry boundary.

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 1946, 1950 and 1951.

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.

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.

Coal mining subsidence

The site is within an area of previous interest. It is close to where the Coal Authority or licensed mine operator has investigated and where necessary remediated issues relating to coal mining subsidence.

The site requires further investigation and may influence your risk assessment. We recommend that you order the appropriate **Coal Authority Subsidence Claims 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.

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.

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.

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

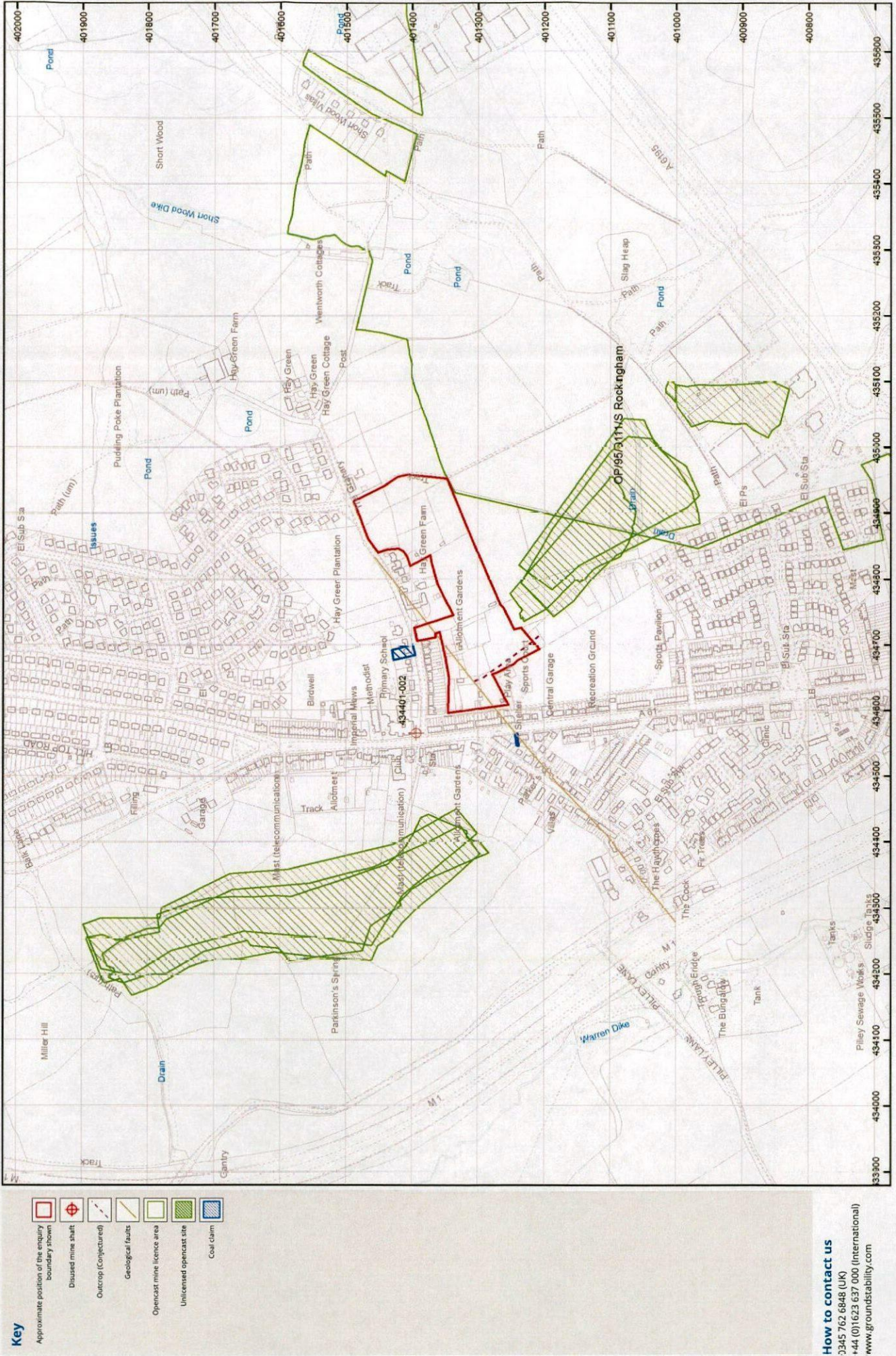
Relevant notices which may affect the property and any subsequent notice of retained interests in coal and coal mines, acceptance or rejection notices and whether any compensation has been paid to a claimant.

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Summary of findings

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





APPENDIX F ENVIRONMENTAL DATABASE REPORT



Yorkshire
Published 1893

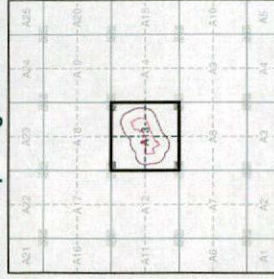
Source map scale - 1:2,500

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 1856 it covered the whole of what were considered to be the cultivated parts of Great Britain. The maps shown are older than the Ordnance Survey maps of the same date. Before 1833 all OS maps were based on the Cassin's 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)

282.00	282.04
1893	1893
1:2,500	1:2,500
282.07	282.08
1893	1893
1:2,500	1:2,500

Historical Map - Segment A13



Order Details

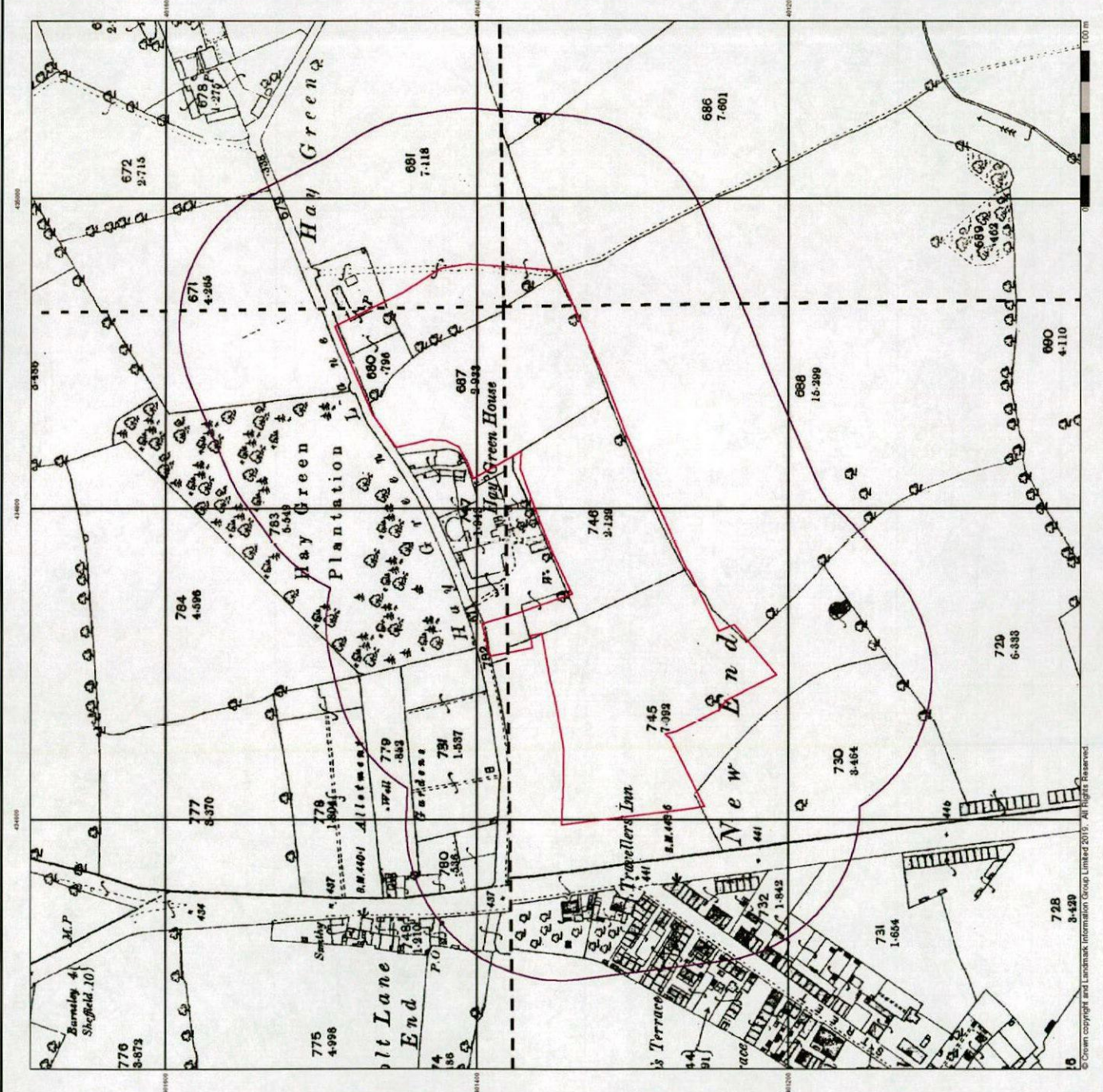
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Site Area (Ha): A
 Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



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





Yorkshire Published 1905 - 1906

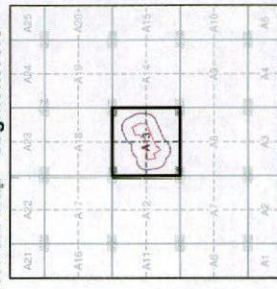
Source map scale - 1:2,500

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 survey date. Before 1938, all OS maps were based on the Cassini projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)

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282.04	1905	12.500
282.07	1905	12.500
282.08	1905	12.500

Historical Map - Segment A13

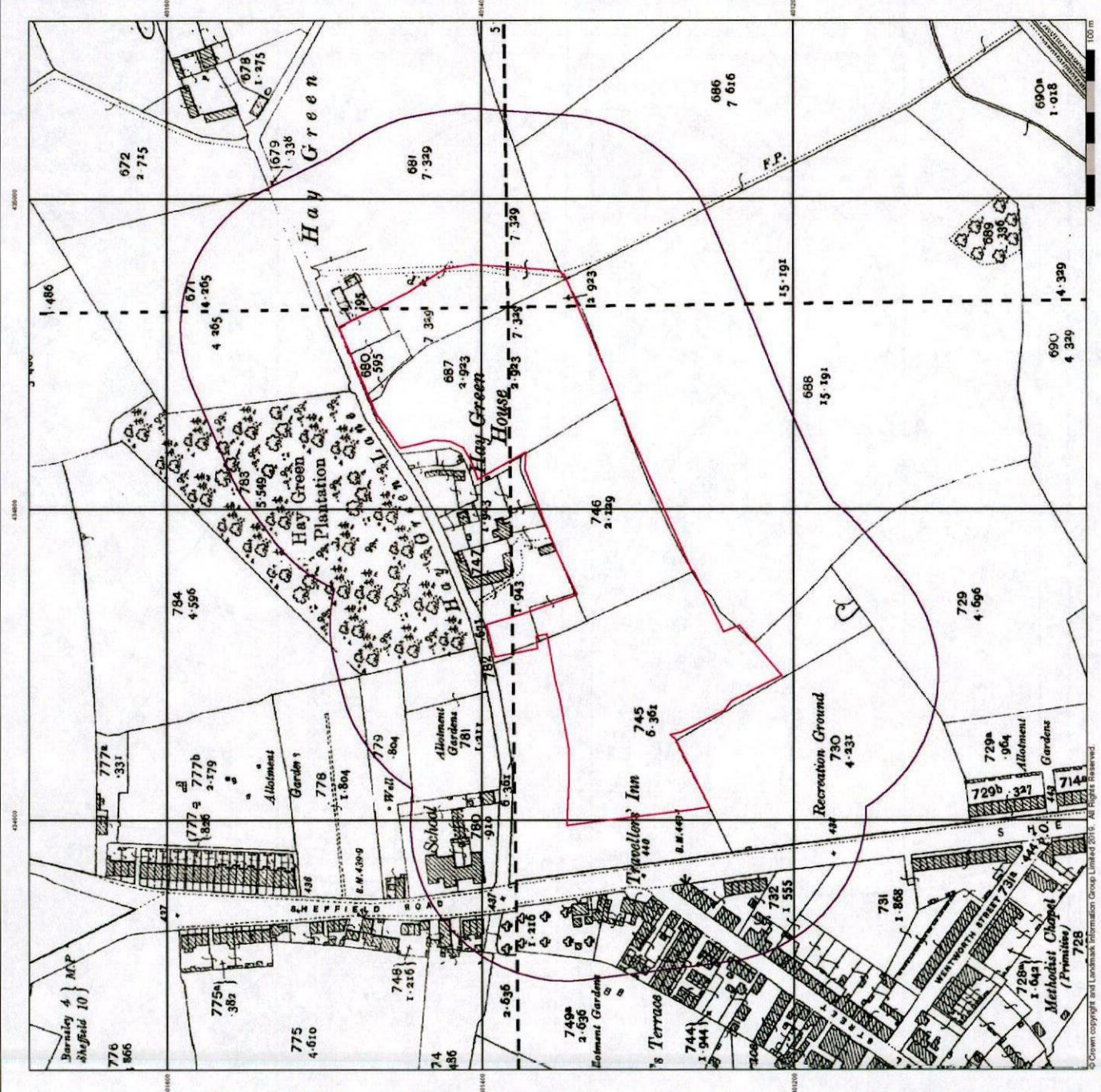


Order Details

Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNSLLEY, S70 5XD



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Yorkshire
Published 1931

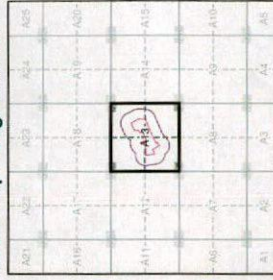
Source map scale - 1:2,500

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 1886 it covered the whole of what were considered to be the cultivated parts of Great Britain. The maps were surveyed between 1840 and 1886, with the first survey in the surveyed date. Before 1938 all OS maps were based on the Cassini I 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)

680	29	1931	1:2,500
680	04	1931	1:2,500
687	77	1931	1:2,500
687	08	1931	1:2,500

Historical Map - Segment A13



Order Details

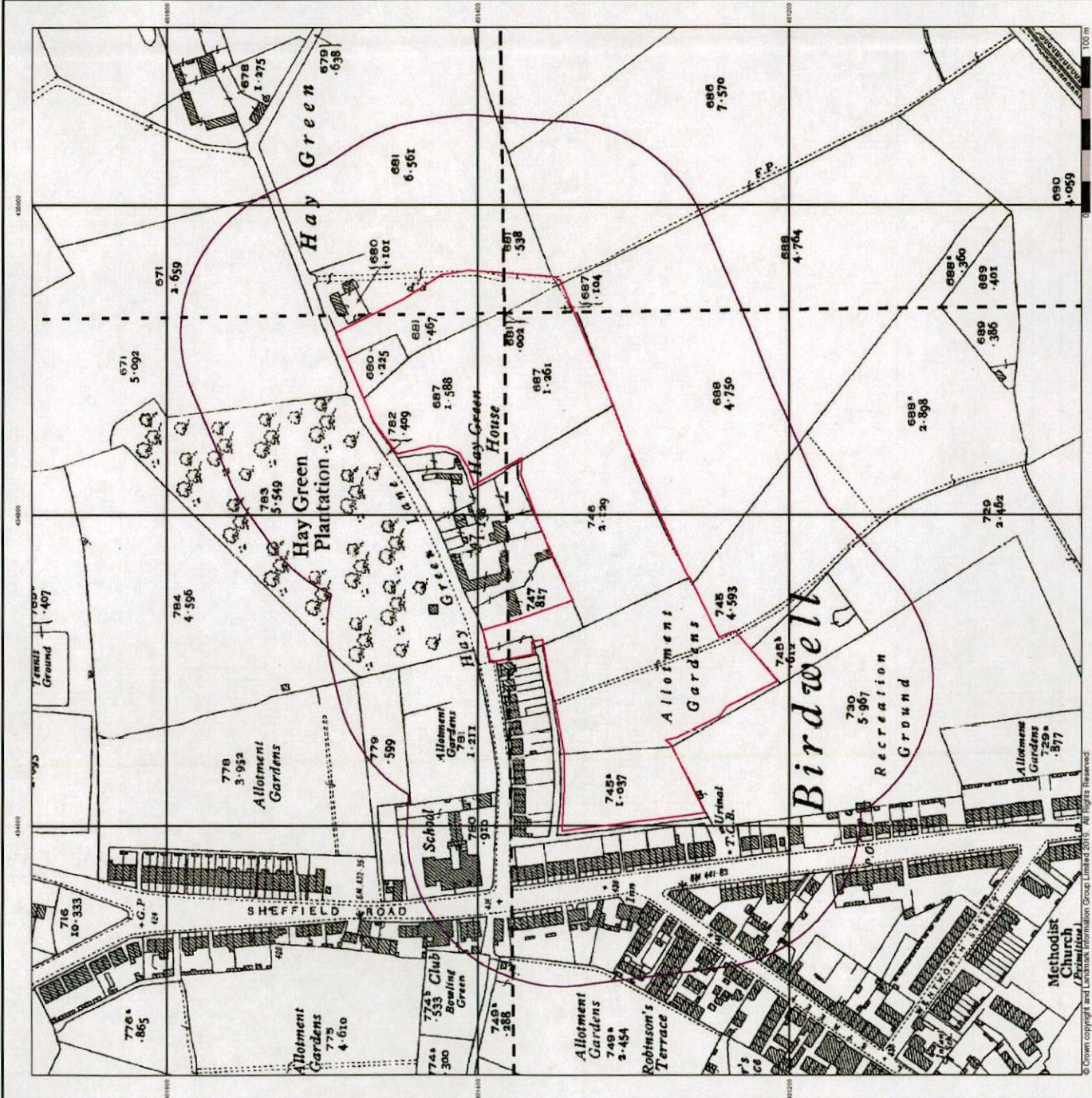
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 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNSLEY, S70 6XD



Tel: 0844 544 9952
 Web: www.envisalink.co.uk



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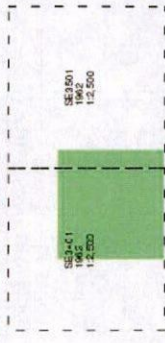


Ordnance Survey Plan Published 1962

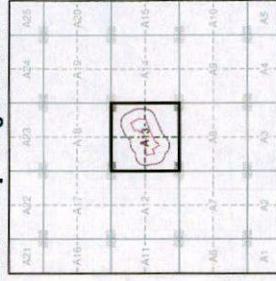
Source map scale - 1:2,500

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 1866 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 1838, all OS maps were based on the Cassini projection, with independent surveys of a single county or group of counties, giving rise to significant inaccuracies in outlying areas.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

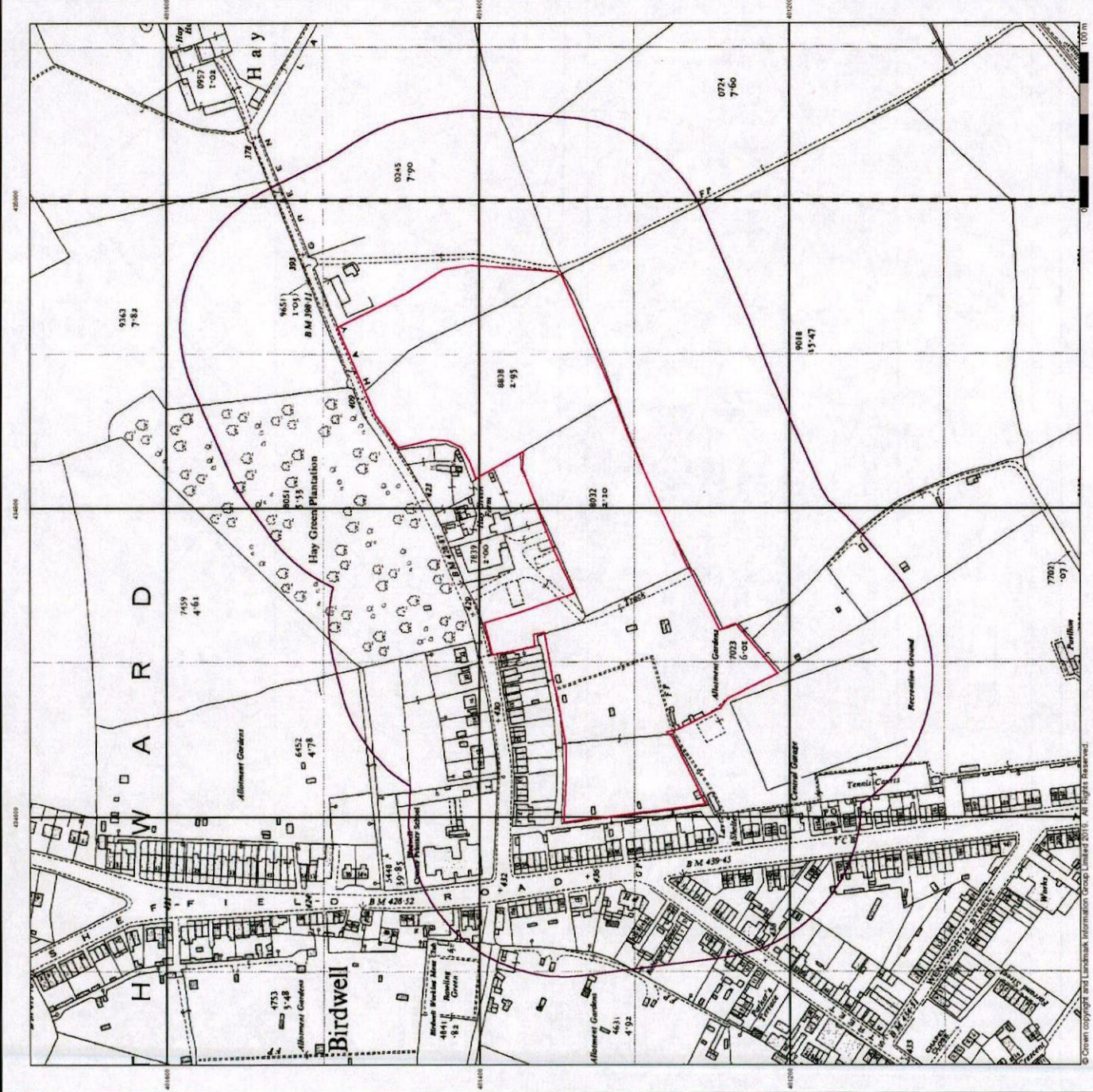
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Customer Ref: 350283
National Grid Reference: 434780, 401350
Site: A
Site Area (Ha): 4.01
Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



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





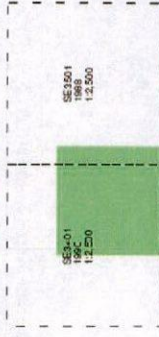
Additional SIMs

Published 1988 - 1990

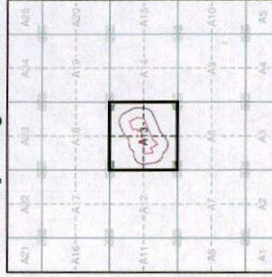
Source map scale - 1:2,500

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 of mapping which were updated. They date from 1947 to 1994, and contain detailed information on buildings, roads and land-use. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

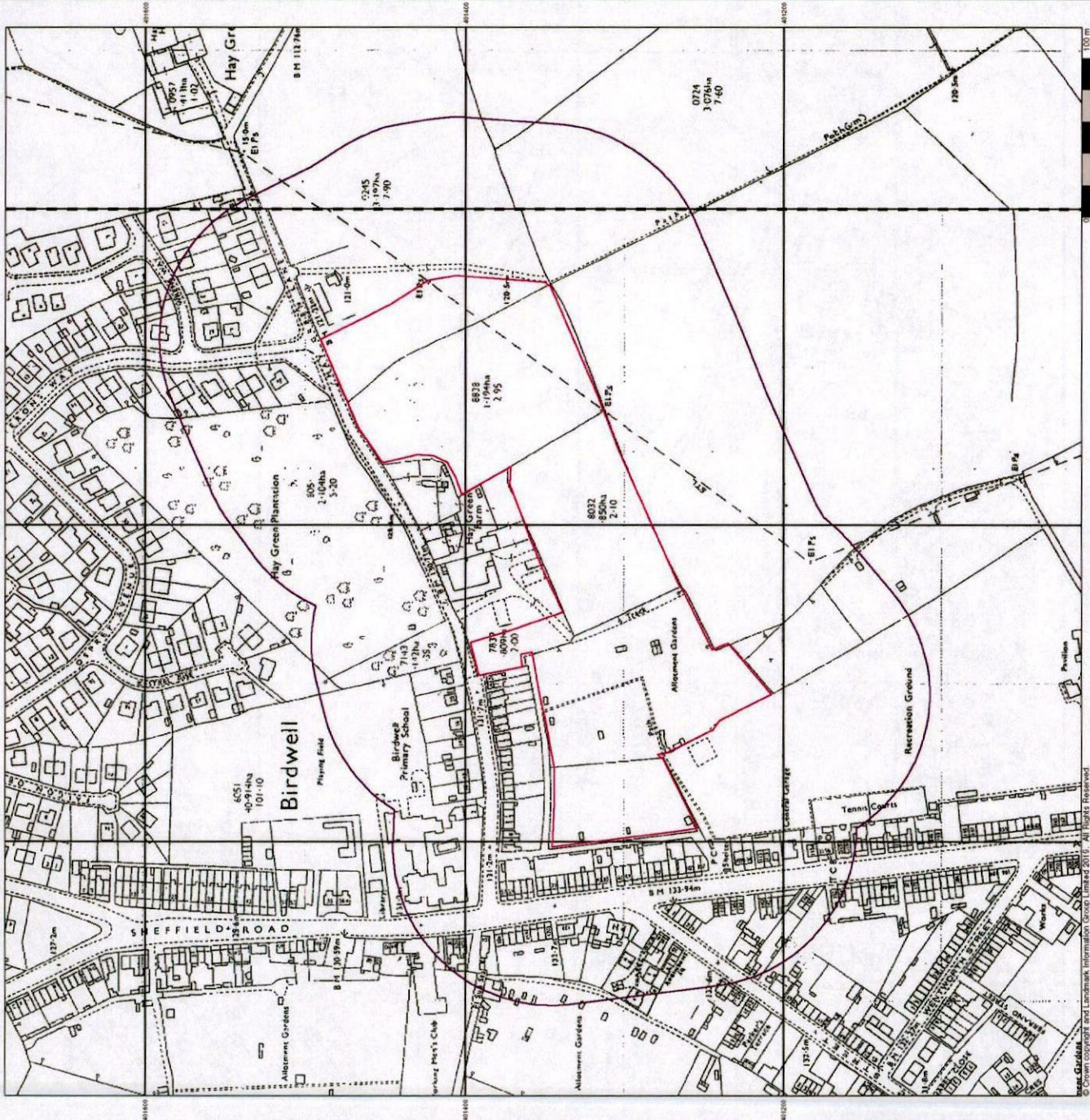


Order Details

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Customer Ref: 350283
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Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNSDLEY, ST0 5XD



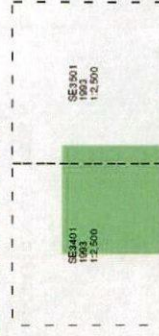


Large-Scale National Grid Data Published 1993

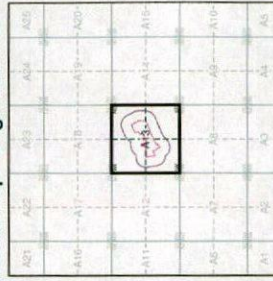
Source map scale - 1:2,500

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 detail as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13



Order Details

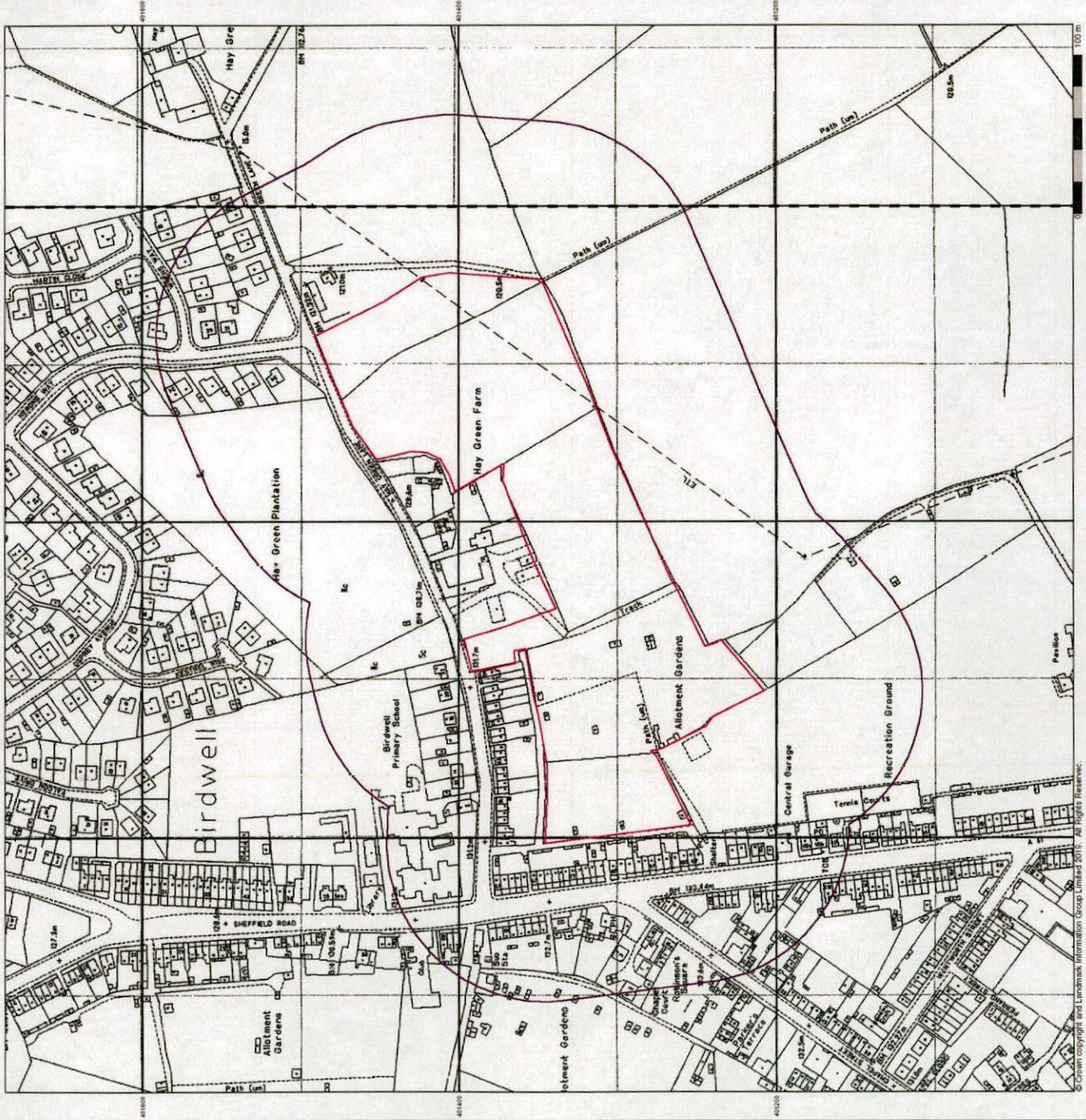
Order Number: 224076250_1_1
Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



Tel: 0844 844 9922
Fax: 0844 844 9923
Web: www.landmark.co.uk





Large-Scale National Grid Data Published 1996

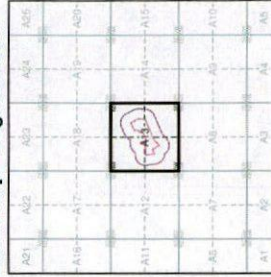
Source map scale - 1:2,500

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 forerunners of digital mapping and so provide detailed information on houses and roads, but tend to show less topographic features such as vegetation. These maps were produced at both 1:2,500 and 1:1,250 scales.

Map Name(s) and Date(s)



Historical Map - Segment A13

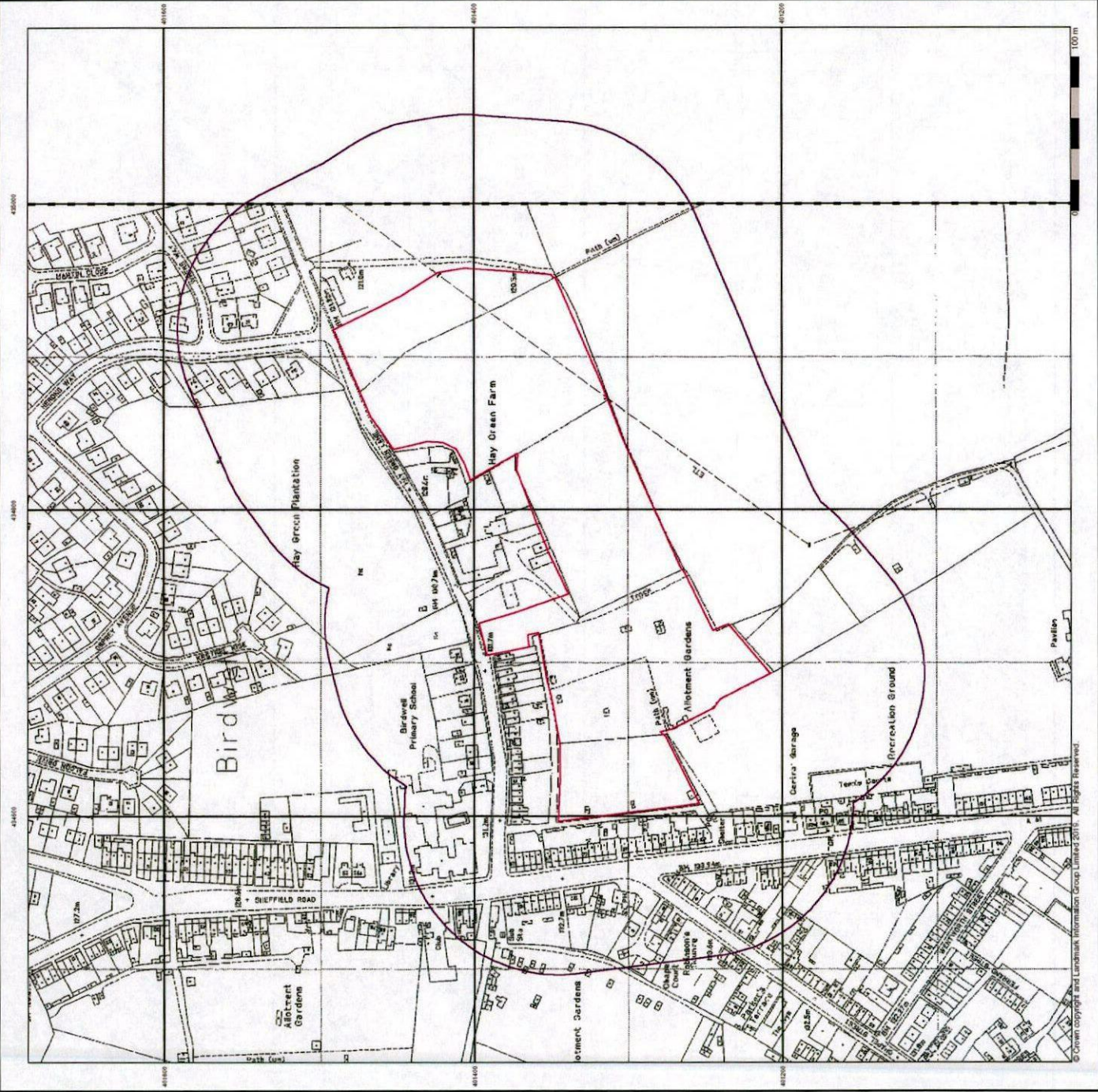


Order Details

Order Number: 224076250_1_1
Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 100

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



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Historical Mapping Legends

Ordnance Survey County Series 1:10,560

				<



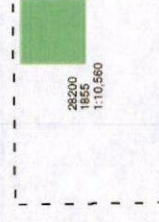
Yorkshire

Published 1855

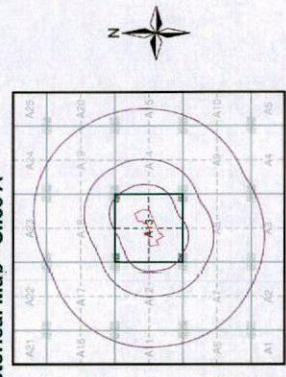
Source map scale - 1:10,560

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 1:2,000 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 maps to the Transverse Mercator Projection. This edition was unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A

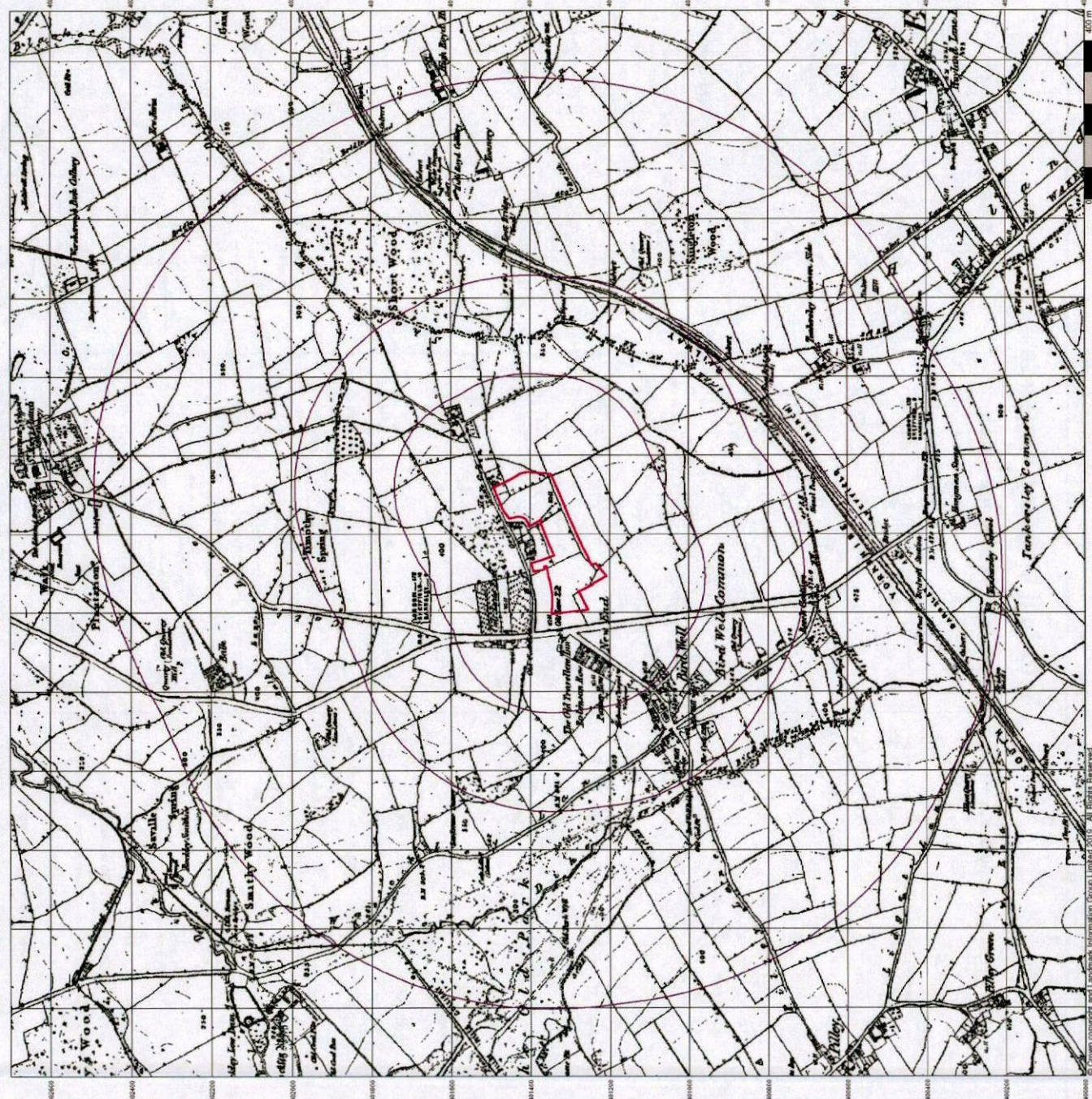


Order Details

Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1893

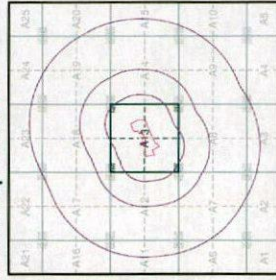
Source map scale - 1:10,560

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 Ordnance Survey began mapping urban areas, these maps were used to update the 1:10,560 maps. The maps were updated 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 updated with the Ordnance Survey's Transverse Mercator projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

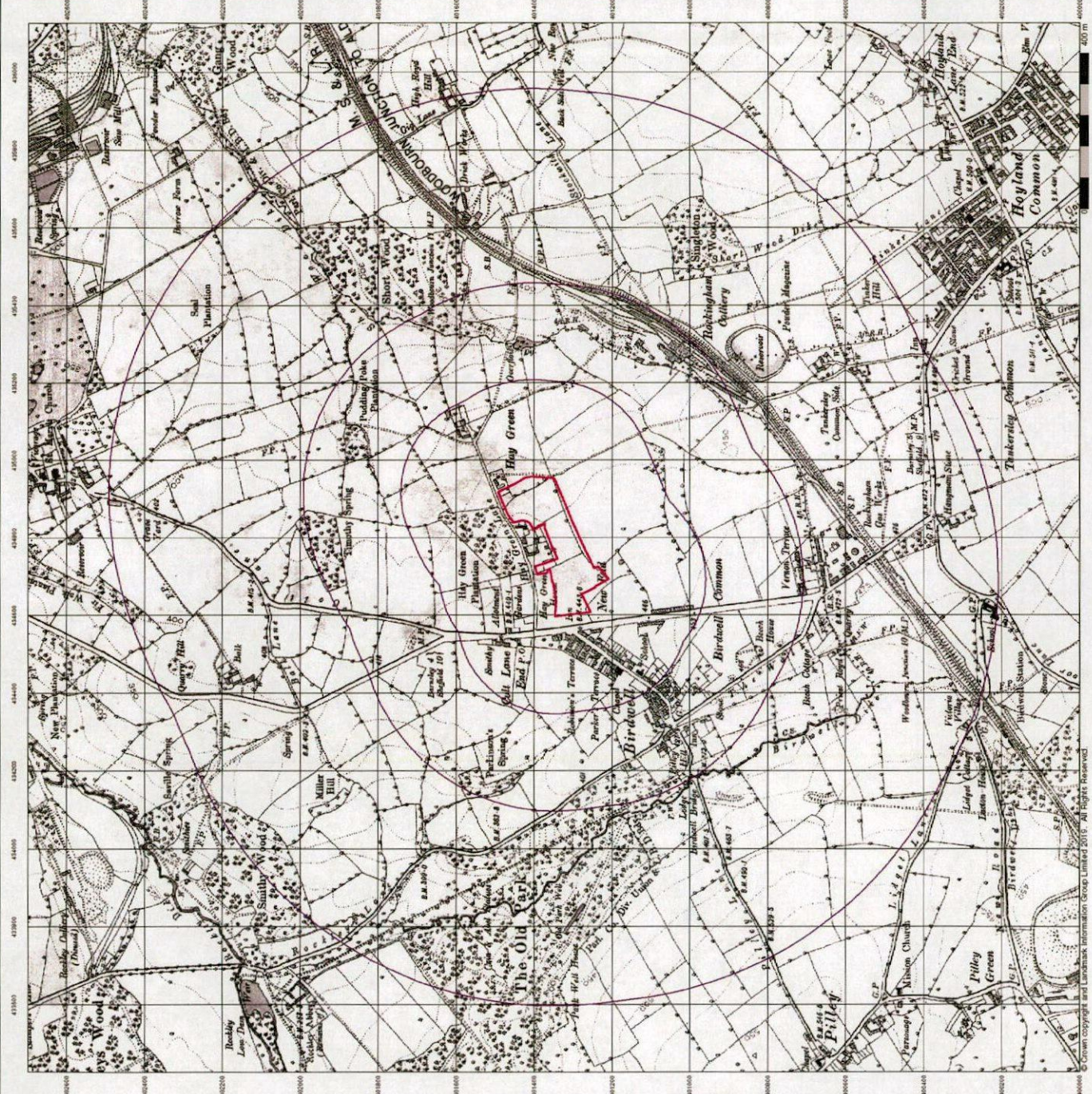
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Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



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Fax: 0844 844 9921
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Yorkshire

Published 1907

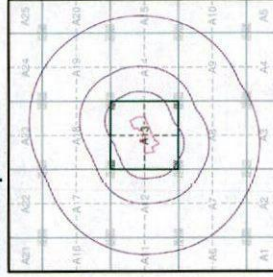
Source map scale - 1:10,560

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 area in the late 1840's. Following the Second World War, which updated the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

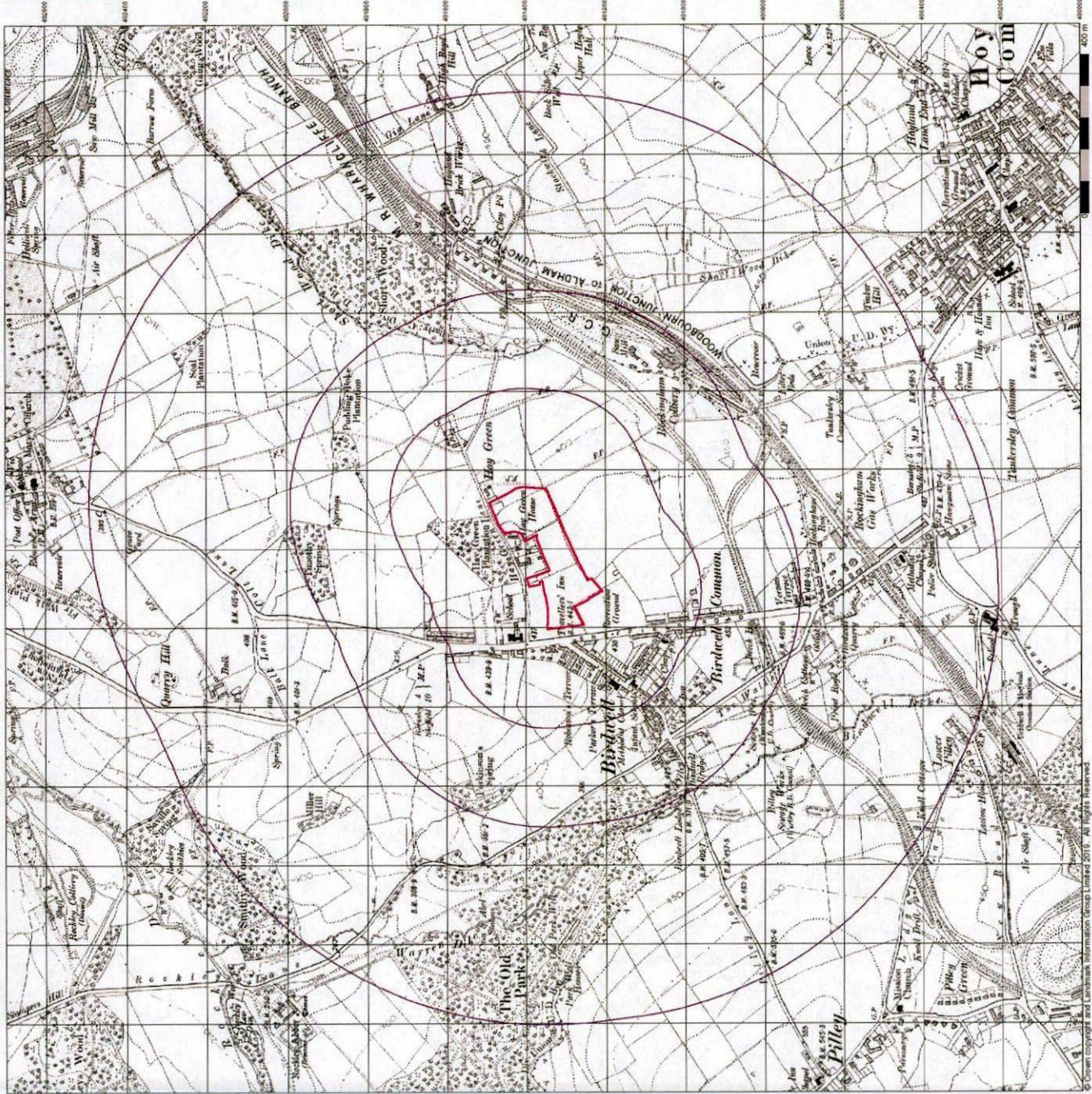
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Site: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1932

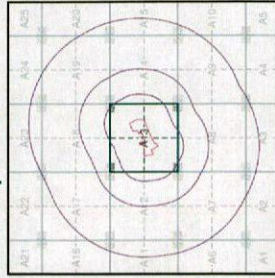
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was used for mapping urban areas, these maps were 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 overlaid with the National Grid. In 1970, the first 1:10,560 maps were produced using the Ordnance Survey datum. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

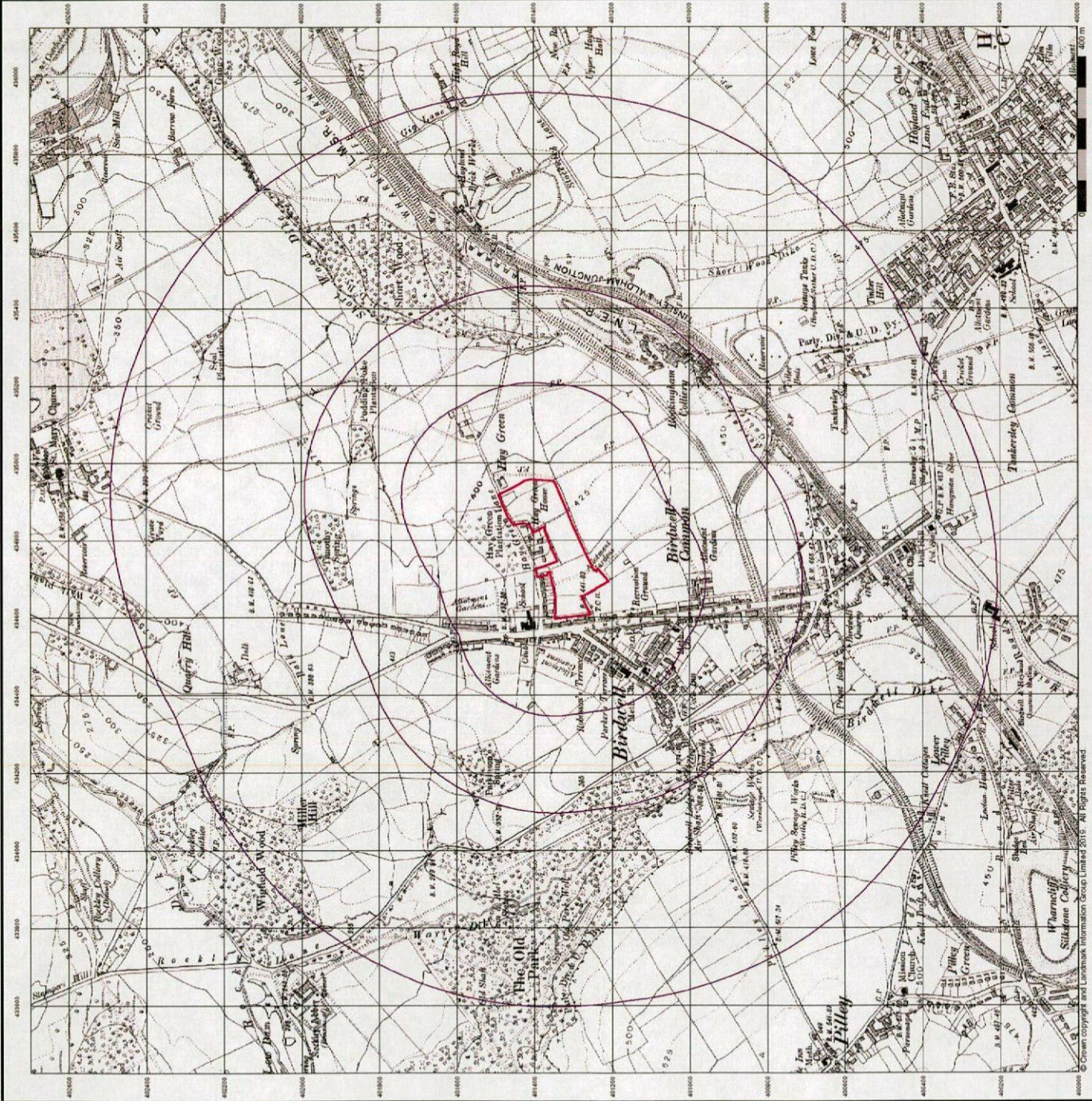
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Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 1000

Site Details

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Yorkshire

Published 1938

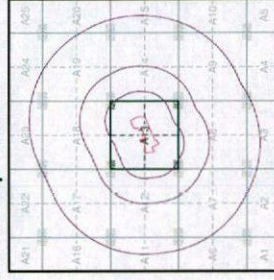
Source map scale - 1:10,560

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 1938, a Promenade Edition was produced, which updated the 1:10,560 maps with a new projection and a new datum. This edition was unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

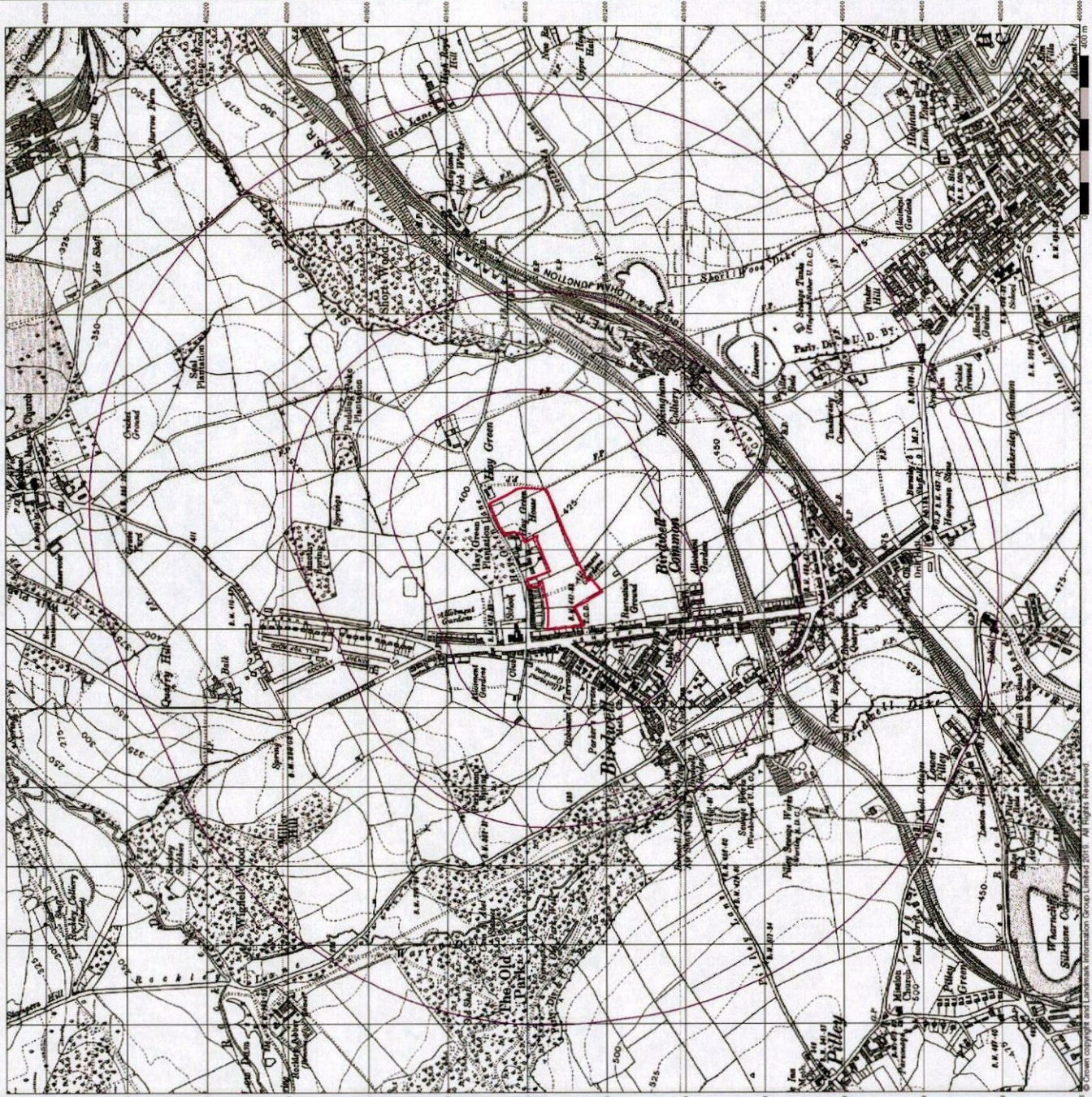
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Site: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



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Yorkshire

Published 1948

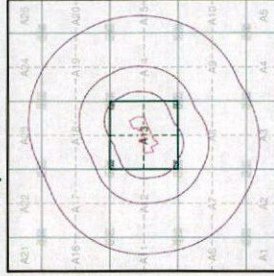
Source map scale - 1:10,560

The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas, these maps were 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 overlaid with the National Grid. In 1970, the first revision process was undertaken, resulting in the current edition. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

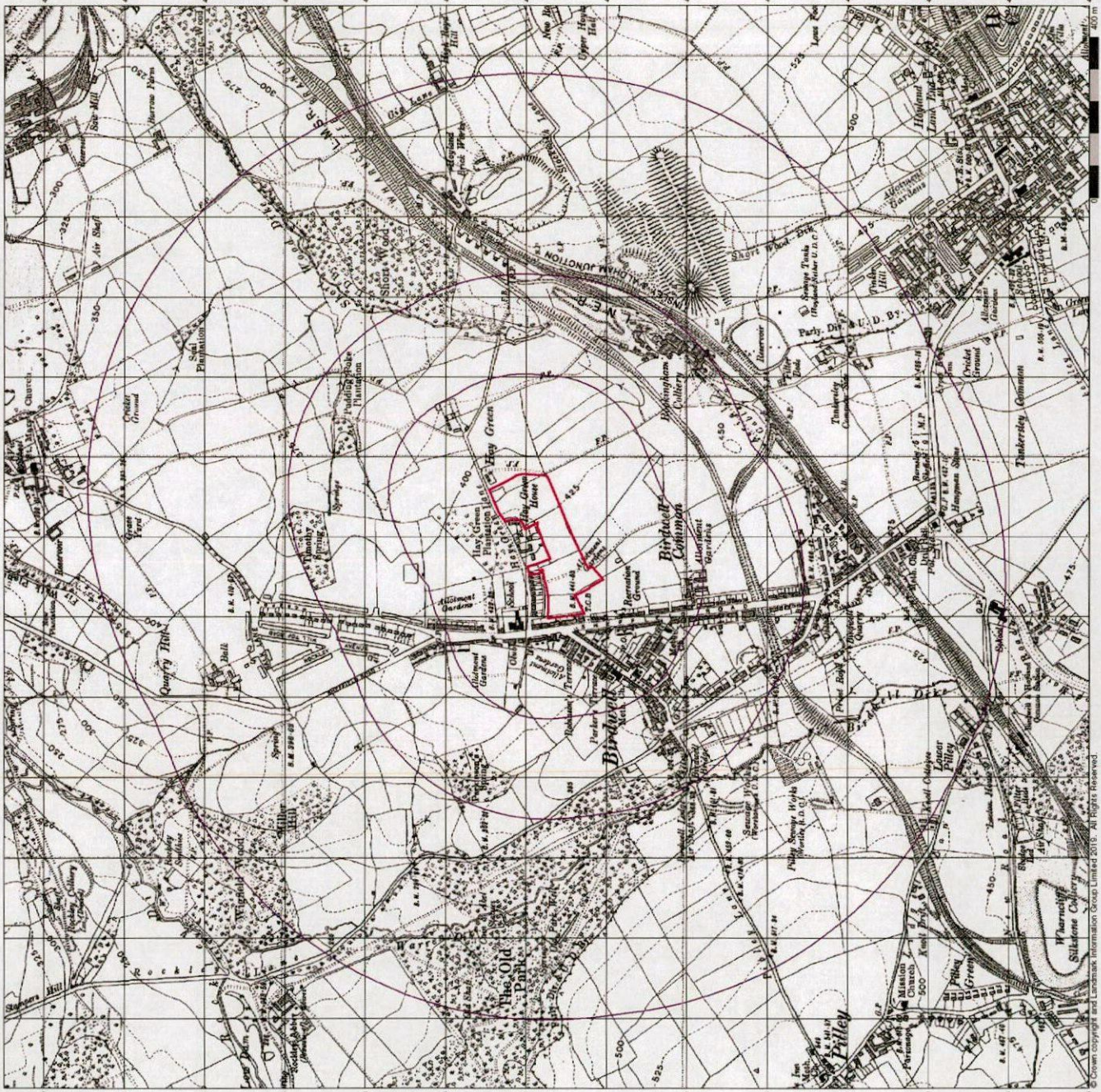
Order Number: 224076250_1_1
Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan Published 1956

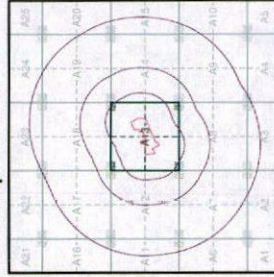
Source map scale - 1:10,000

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 1938, a national grid was introduced, which updated the 1:10,560 maps with a number of counties, which were updated and reissued - 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)

SE90SW	SE90SE
1956	1956
1:10,560	1:10,560
SK38NW	SK38NE
1956	1956
1:10,560	1:10,560

Historical Map - Slice A



Order Details

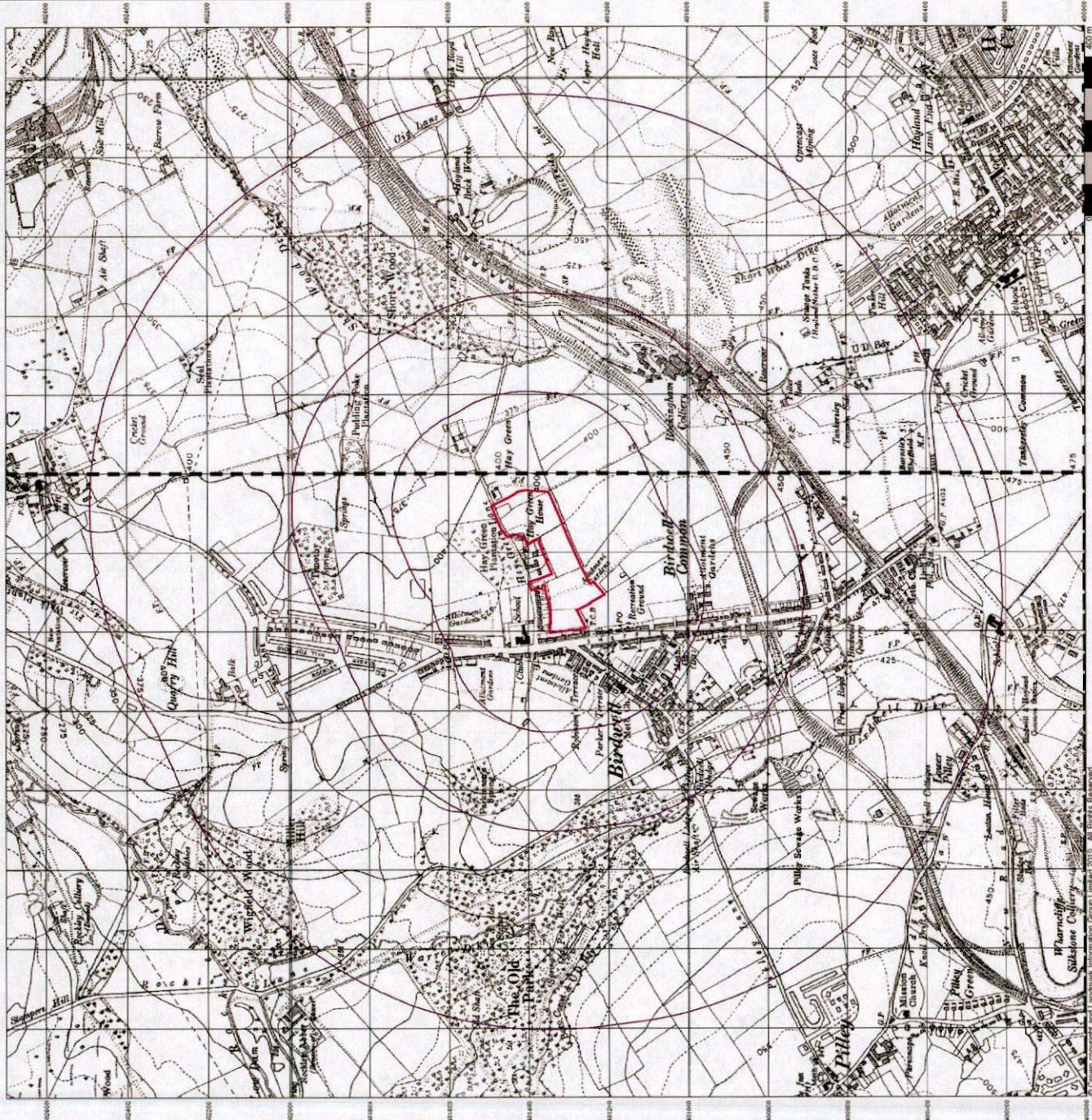
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan Published 1965 - 1966

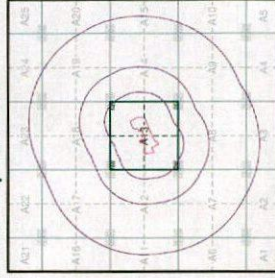
Source map scale - 1:10,000

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 produced in the 1860's and 1870's. The maps shown were produced at different times 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 1:10,000 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overlaid with the National Grid. In 1970, the first edition of the National Grid was published. The maps shown are the result of a revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)

SE30SW	SE30SE
1965	1965
1:10,000	1:10,000
SK38NW	SK38NE
1965	1965
1:10,000	1:10,000

Historical Map - Slice A



Order Details

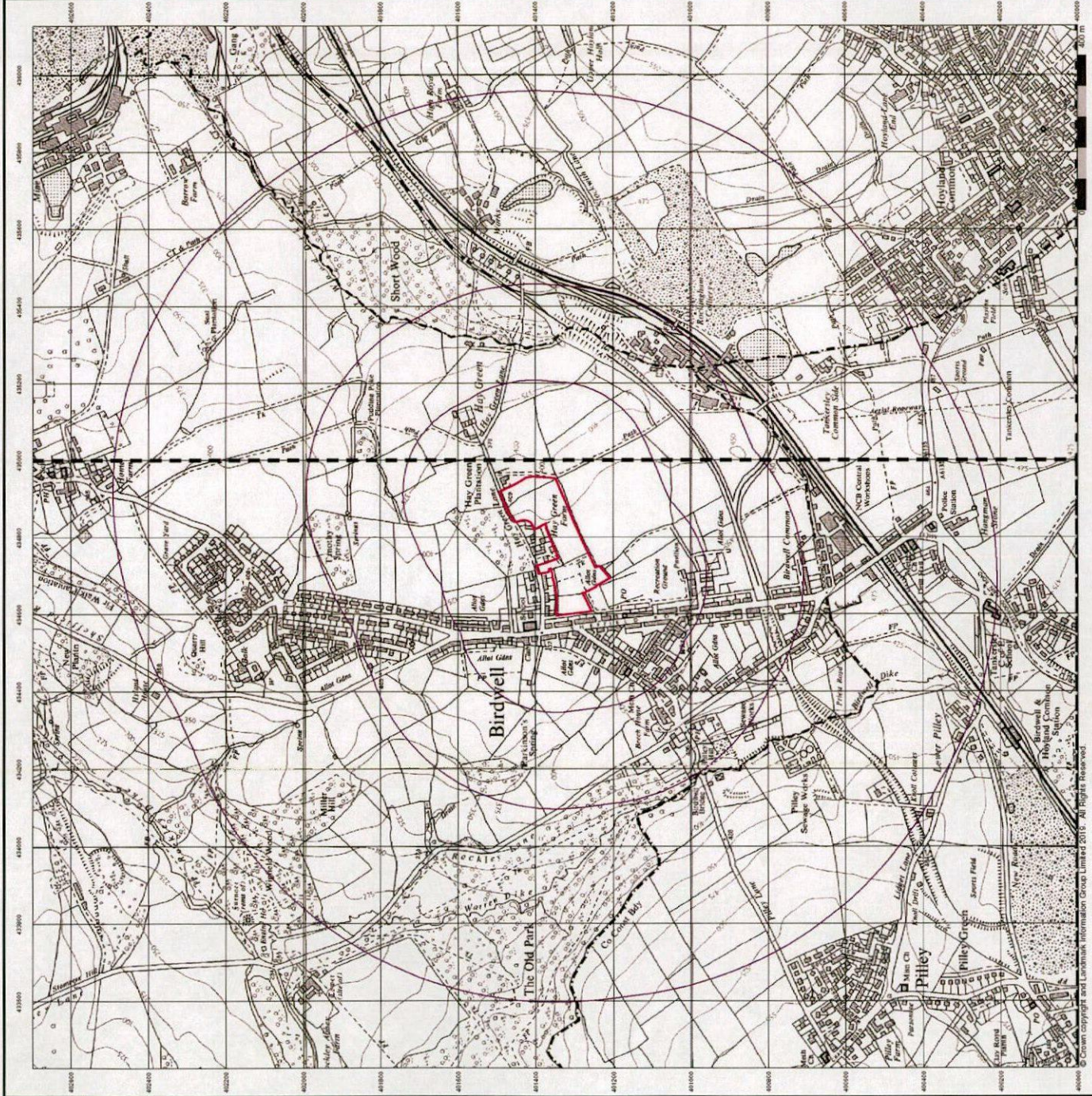
Order Number: 224076250_1_1
 Customer Ref: 350263
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan Published 1978

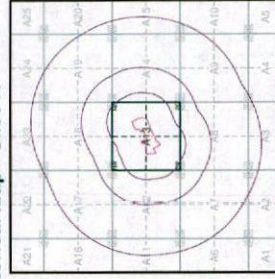
Source map scale - 1:10,000

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 1958, 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 1948, the Ordnance Survey introduced the Transverse Mercator Projection, with the 1:10,560 mapping from a number of sources. The maps appear unfinished - with all military camps and other strategic sites removed. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

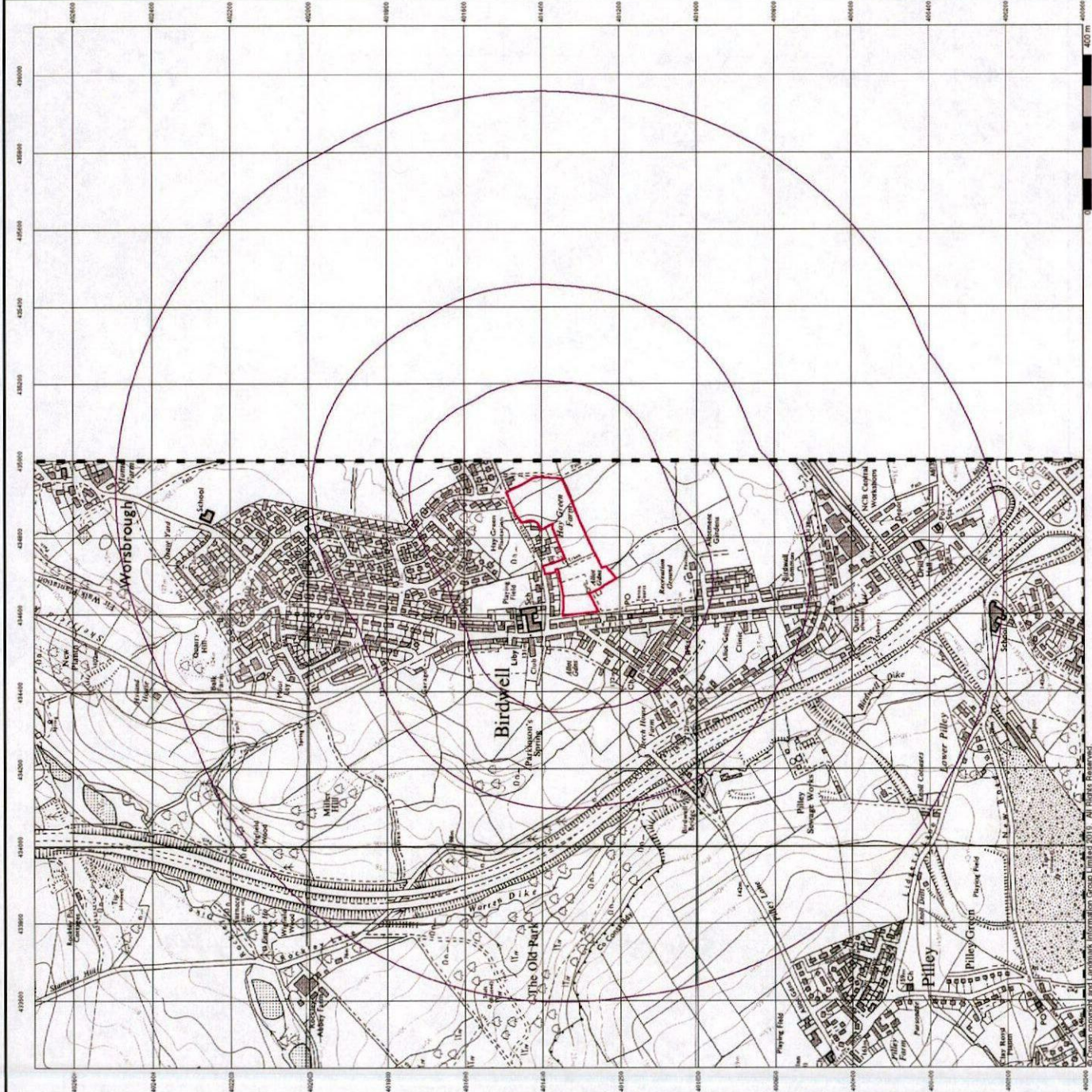
Order Number: 224076250_1_1
Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 1000

Site Details

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Ordnance Survey Plan Published 1980 - 1982

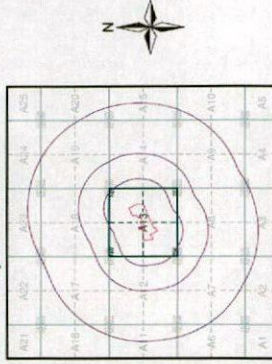
Source map scale - 1:10,000

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 often some years later than the surveyed date. Before 1838, 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 1840'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 maps were produced using the current datum, the datum being the datum of 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
SK38NW	1982	1:10,000
SK39NE	1982	1:10,000

Historical Map - Slice A



Order Details

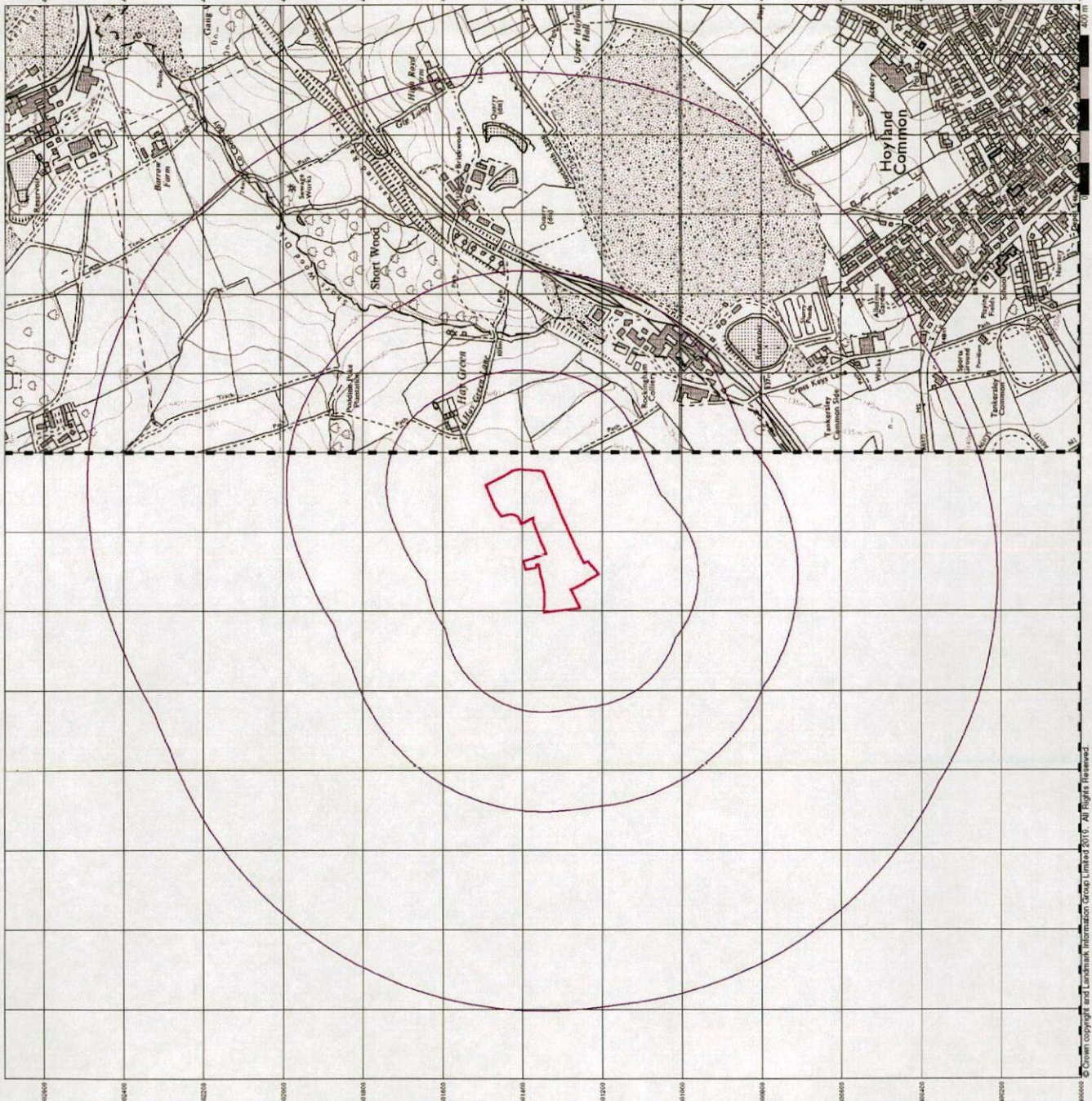
Order Number: 224076250_1_1
 Customer Ref: 350283
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 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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 A Landmark Information Group Service v5.0.0 06-Nov-2016 Page 11 of 15
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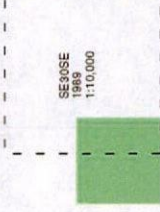


Ordnance Survey Plan Published 1989

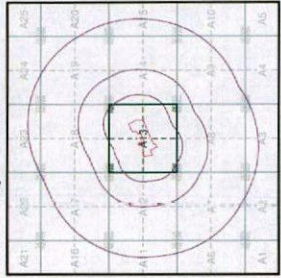
Source map scale - 1:10,000

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 1:10,000 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 1948, a Provisional Edition was produced, which updated the OS maps to the Transverse Mercator Projection. These maps were initially overprinted with the National Grid. In 1970, the first 1:10,000 maps were produced using the Transverse Mercator Projection. The revision process continued until recently, with new editions appearing every 10 years or so for urban areas.

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 224076250_1_1
Customer Ref: 350283
National Grid Reference: 434780, 401350
Slice: A
Site Area (Ha): 4.01
Search Buffer (m): 1000

Site Details

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A Landmark Information Group Service v5.0 06-Nov-2019 Page 12 of 15





Ordnance Survey Plan Published 1991 - 1992

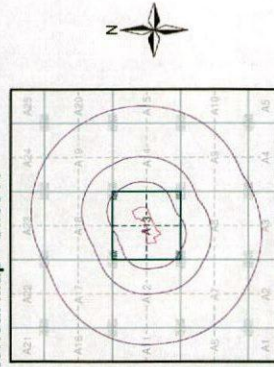
Source map scale - 1:10,000

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 1:10,000 maps. The published date given therefore is the date the maps were revised. Before 1956, all OS maps were based on the Cassini Projection, which is not a conformal projection. The 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 1:10,000 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)

SK39NW	1992	1:10,000
SK39NE	1991	1:10,000

Historical Map - Slice A



Order Details

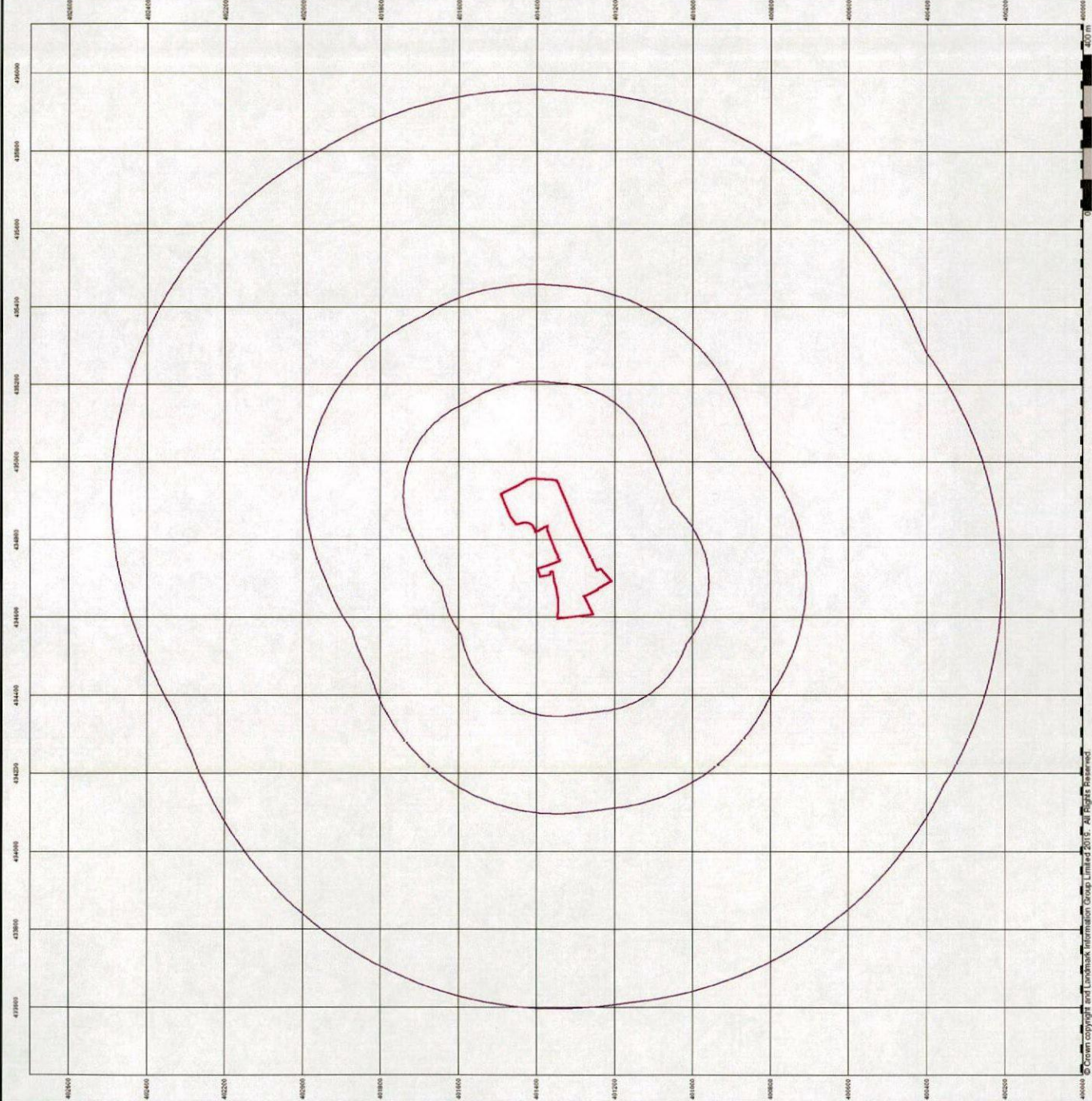
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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10k Raster Mapping Published 2000

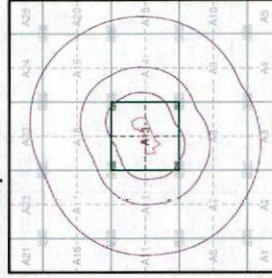
Source map scale - 1:10,000

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	SE30SE
2000	2000
1:10,000	1:10,000
SK38NW	SK38NE
2000	2000
1:10,000	1:10,000

Historical Map - Slice A

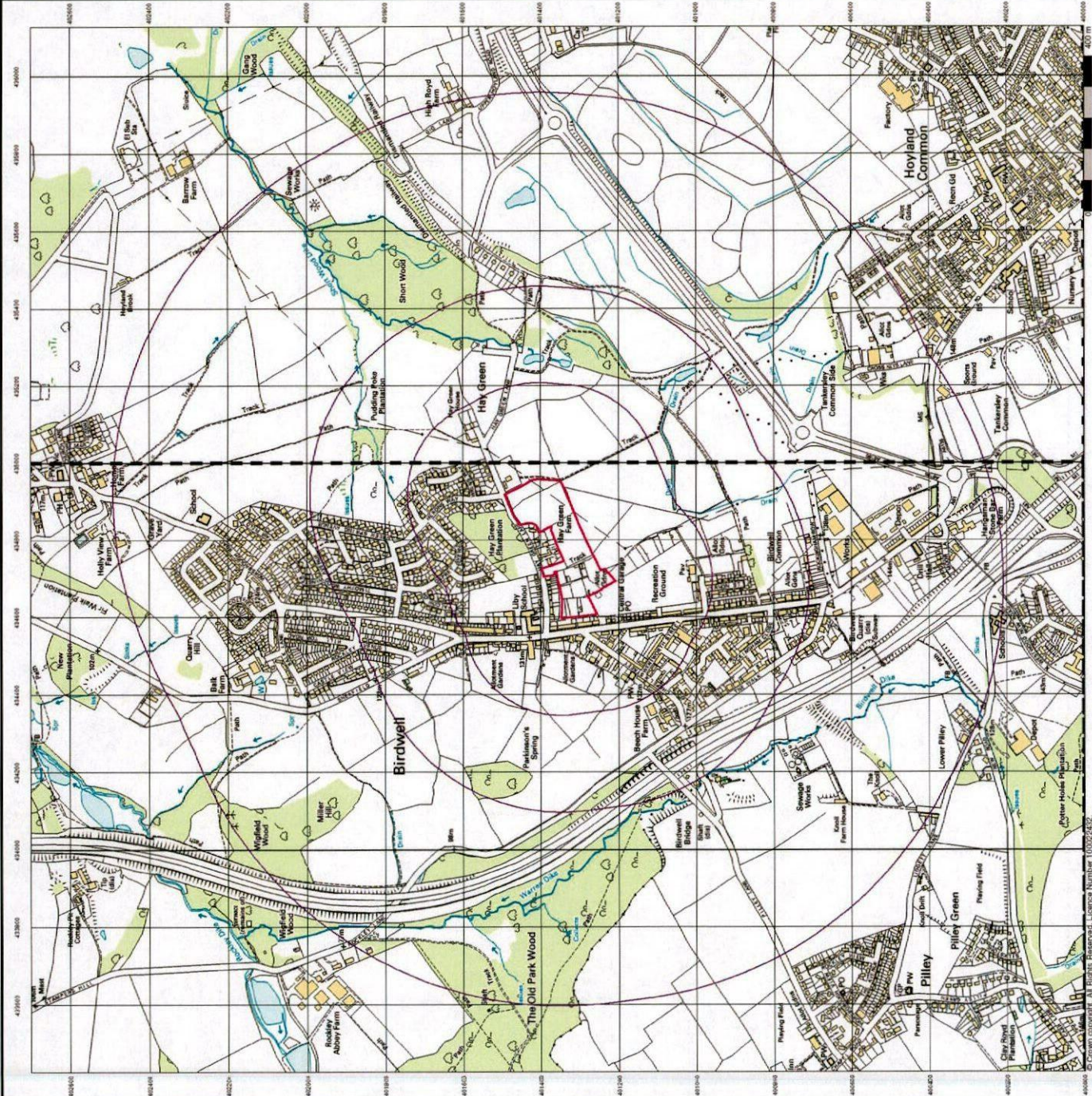


Order Details

Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD





Street View
Published 2019

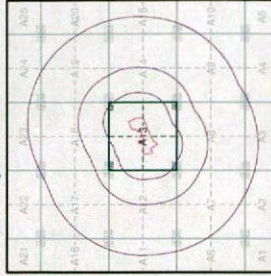
Source map scale - 1:10,000

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

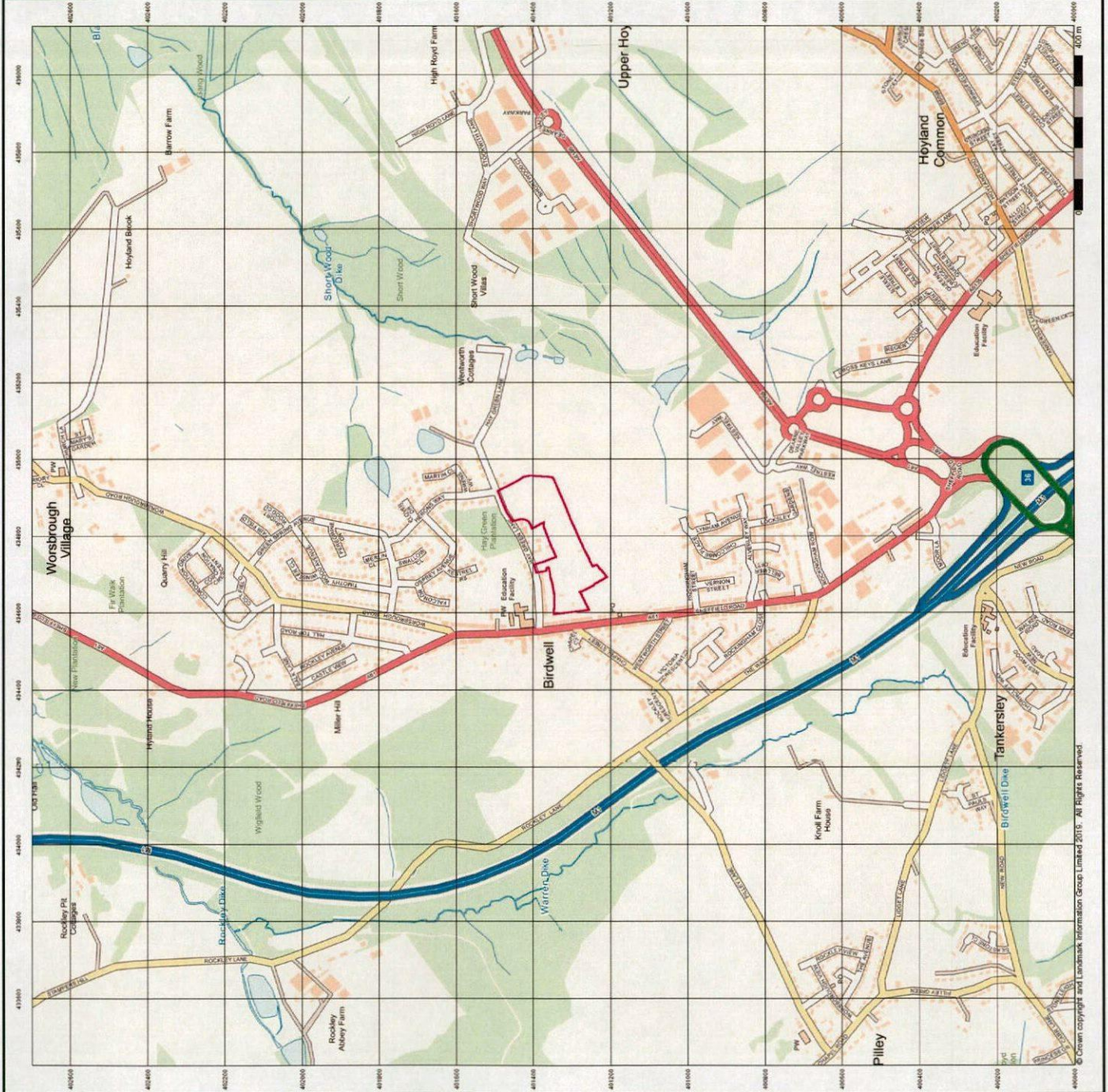
Order Number: 224076250_1_1
Customer Ref: 350283
National Grid Reference: 434780, 401350
Site: A
Site Area (Ha): 4.01
Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNLSLEY, S70 5XD



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Web: www.ennrock.co.uk



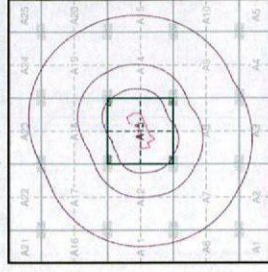


Groundwater Vulnerability

- General**
- Specified Site
 - Site
 - Map ID
 - Bearing Reference Point
- Agency and Hydrological**
- Bedrock Aquifers**
- High Vulnerability, Principal Aquifer
 - High Vulnerability, Secondary Aquifer
 - Medium Vulnerability, Principal Aquifer
 - Medium Vulnerability, Secondary Aquifer
 - Low Vulnerability, Principal Aquifer
 - Low Vulnerability, Secondary Aquifer
- Superficial Aquifers**
- High Vulnerability, Principal Aquifer
 - High Vulnerability, Secondary Aquifer
 - Medium Vulnerability, Principal Aquifer
 - Medium Vulnerability, Secondary Aquifer
 - Low Vulnerability, Principal Aquifer
 - Low Vulnerability, Secondary Aquifer

- Unproductive Aquifer
- Soluble Rock

Site Sensitivity Context Map - Slice A



Order Details

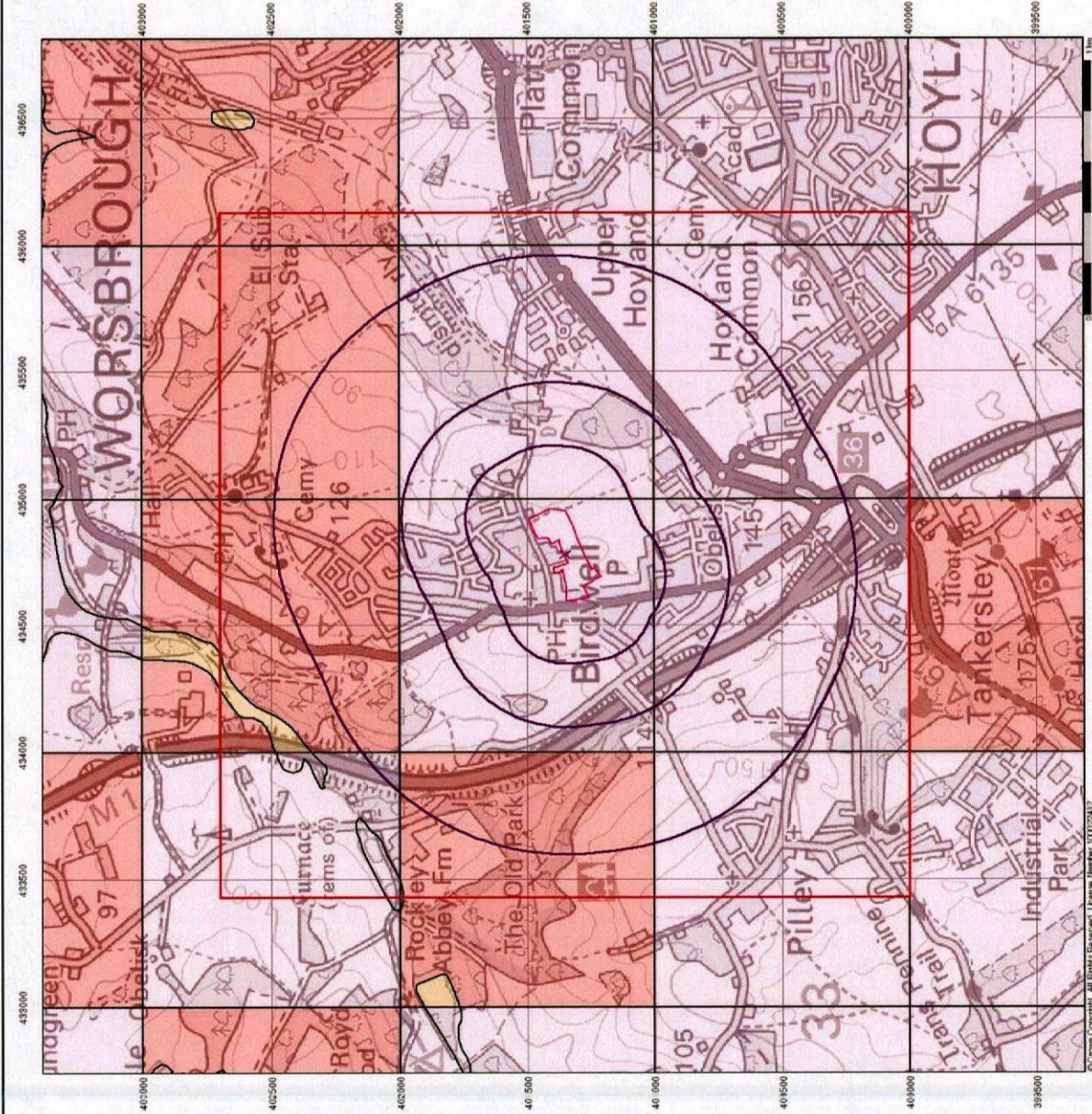
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Site: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



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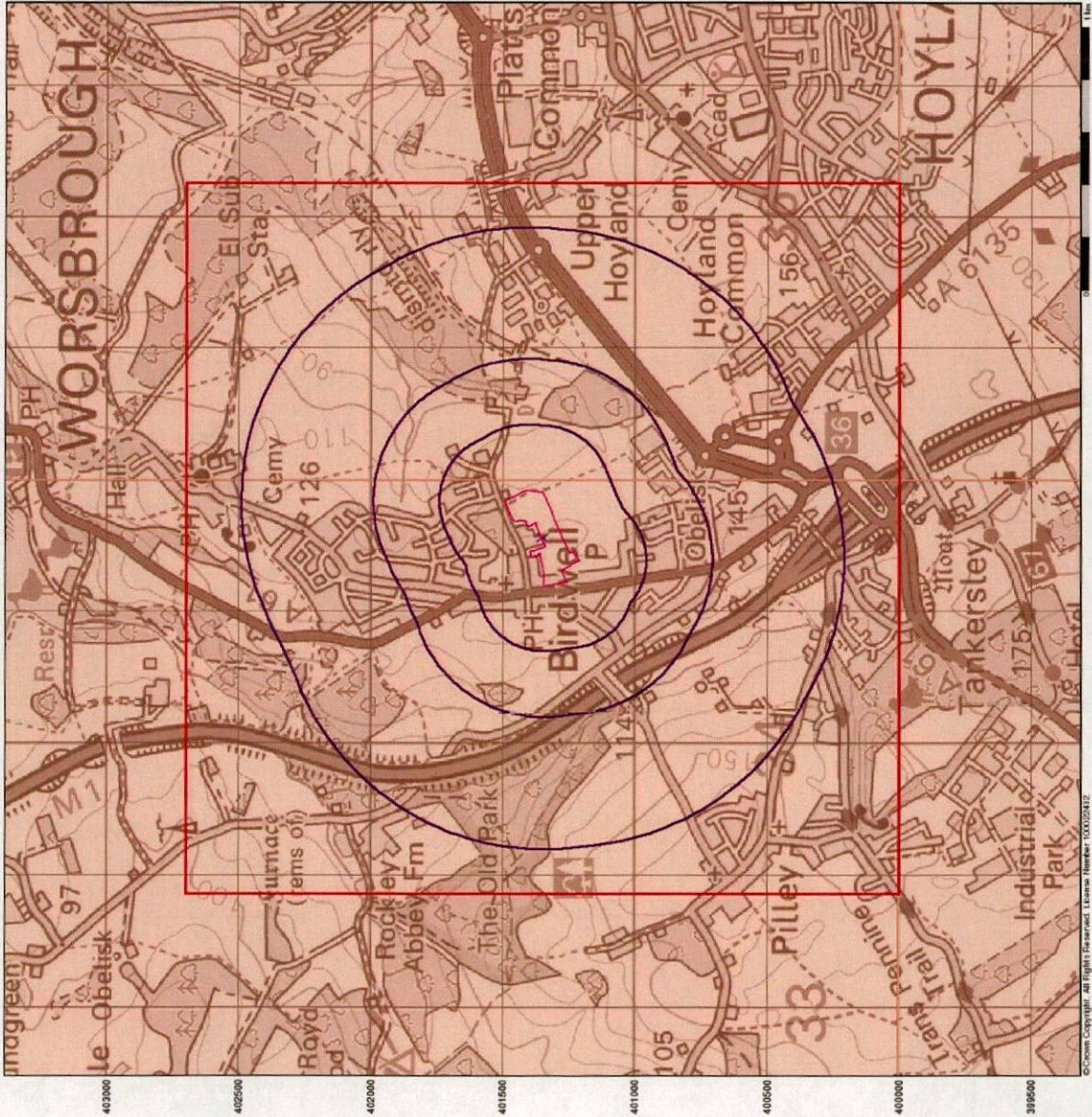


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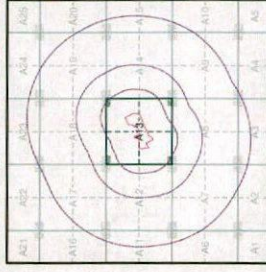


Bedrock Aquifer Designation

- General**
- Specified Site
 - Slice
 - Specified Buffer(s)
 - Map ID
 - Bearing Reference Point
- Agency and Hydrological**
- 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: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



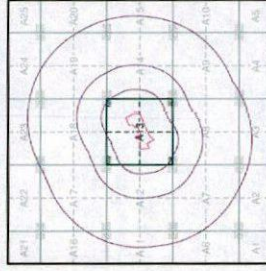
Tel: 0844 844 8622
 Fax: 0844 844 8951
 Web: www.landmark.co.uk



Superficial Aquifer Designation

- General**
- Specified Site
 - Site
 - Specified Buffers
 - Mac ID
 - Bearing Reference Point
- 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

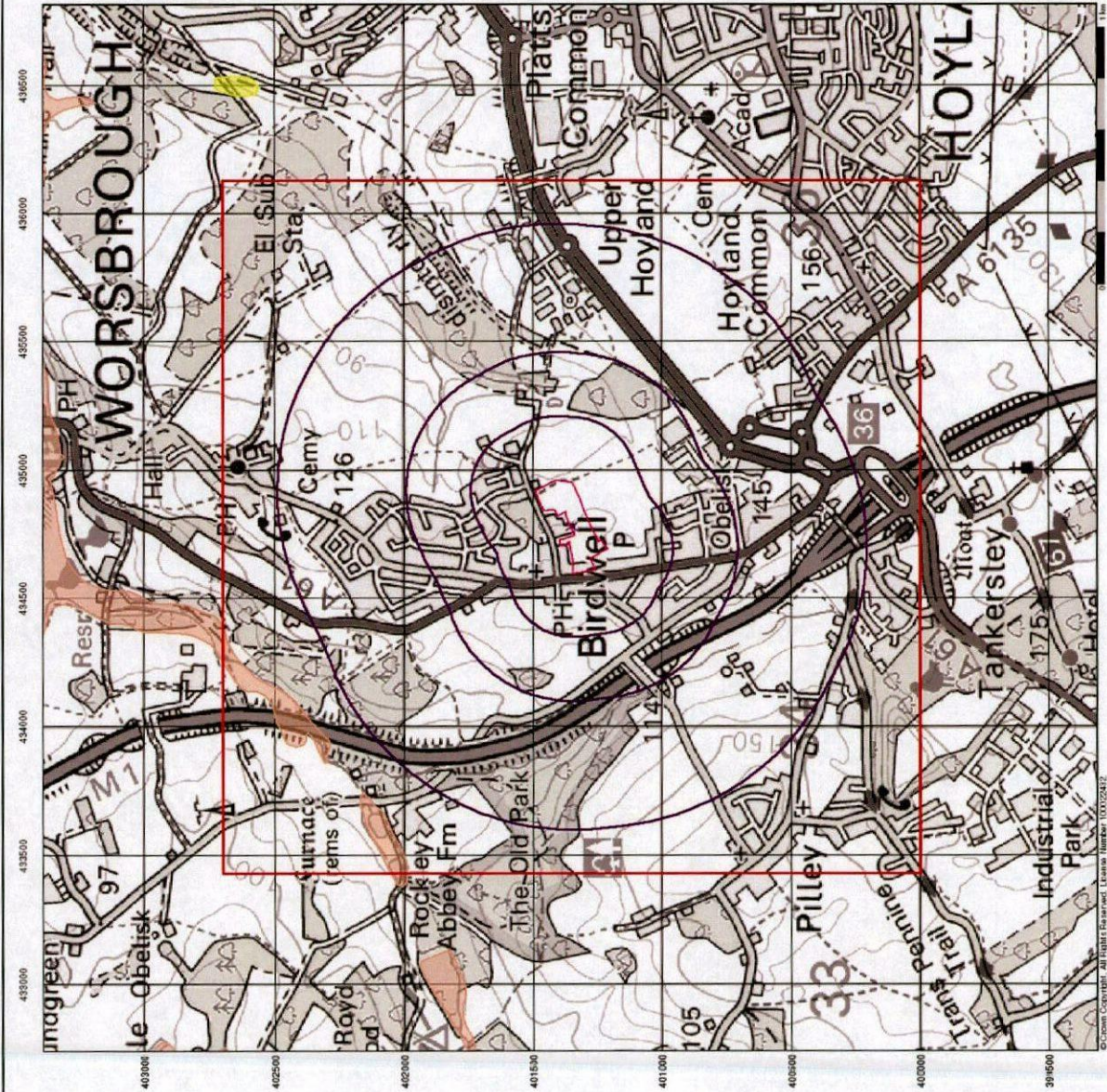
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Site: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, EARNLSLEY, S70 5XD



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 Fax: 0344 844 9921
 Web: www.landmark.co.uk



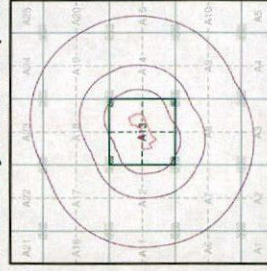
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Source Protection Zones

- General**
- Specified Site
 - Site
 - Map ID
 - Bearing Reference Point
- 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

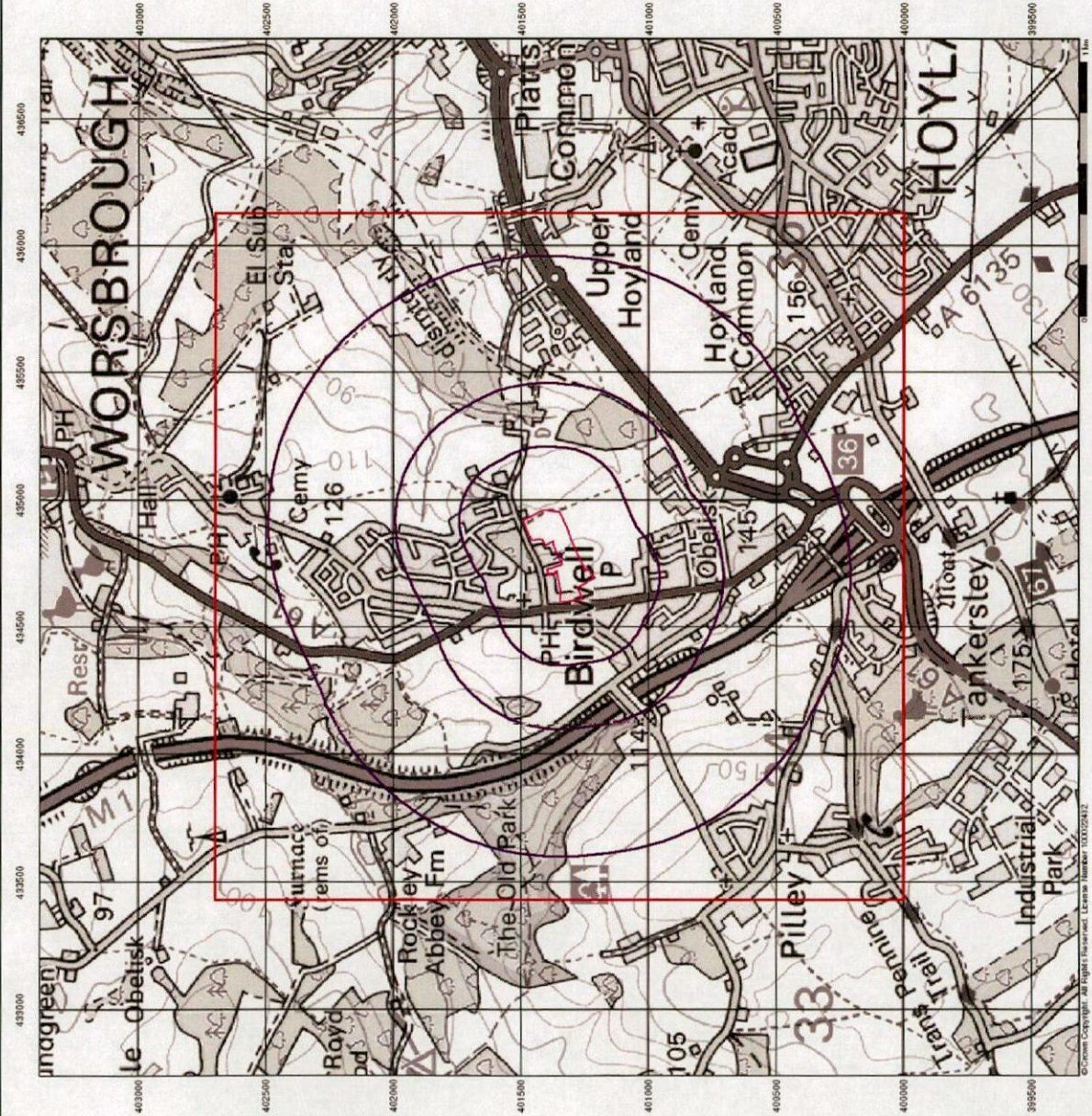
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Site: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



Tel: 0844 844 9822
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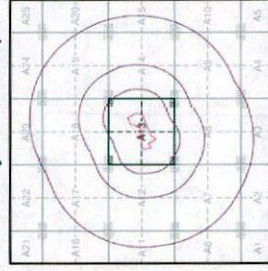




Sensitive Land Uses

- General**
- Specified Site
 - Site
 - Sprinkled Buffers
 - MACID
 - Biasing Reference Point
- Sensitive Land Uses**
- Ancient Woodland
 - Area of Adopted Green Belt
 - Area of Unadopted Green Belt
 - Area of Outstanding Natural Beauty
 - Environmentally Sensitive Areas
 - 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

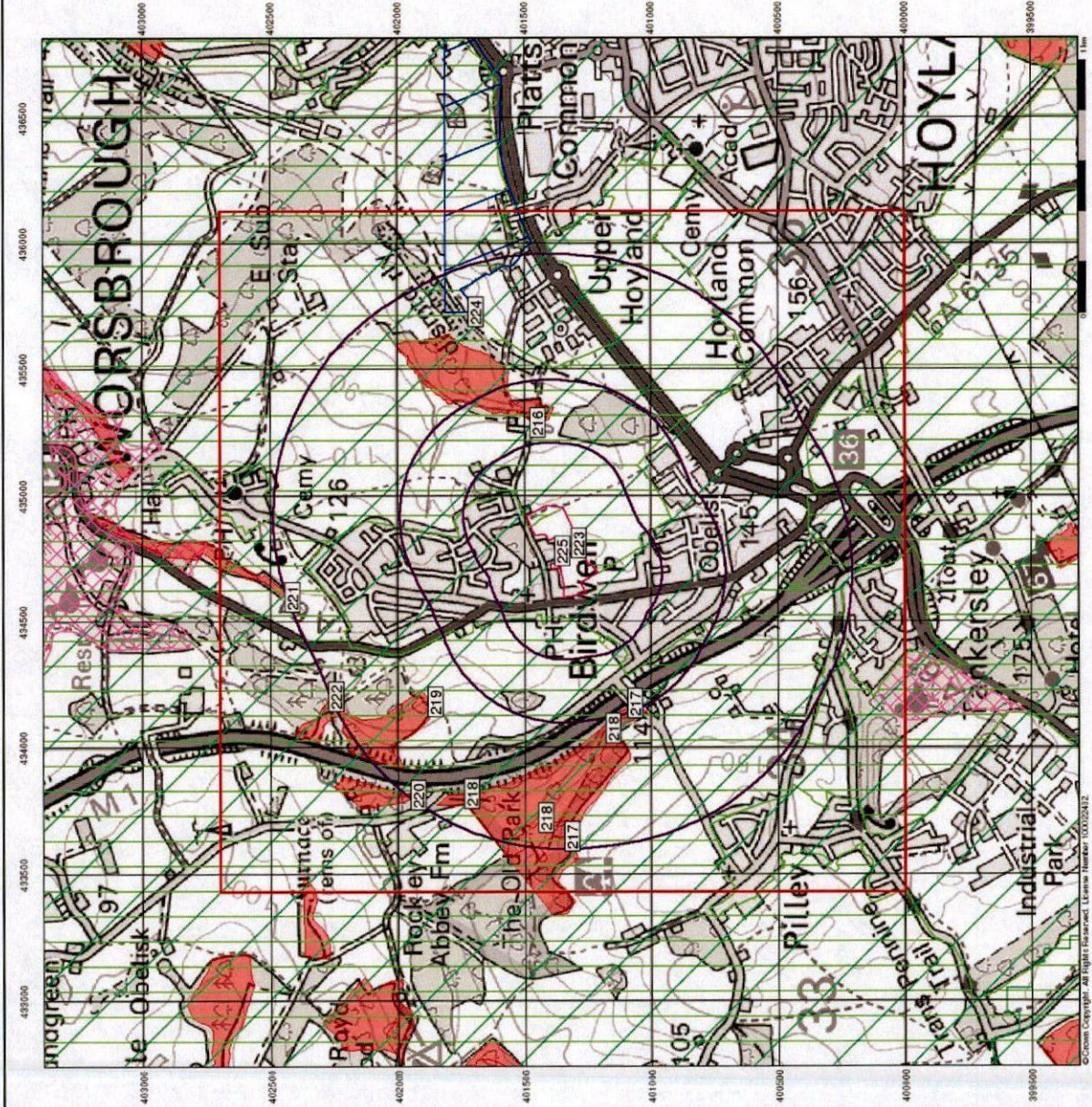
Order Number: 224076250_1_1
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 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD



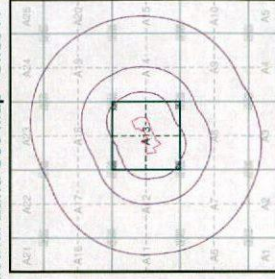
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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Slices
 - Map ID
- Industrial Land Use**
- Contemporary Trade Directory Entry
 - Fuel Station Entry
 - Gas Pipelines
 - Underground Electrical Cables

Industrial Land Use Map - Slice A

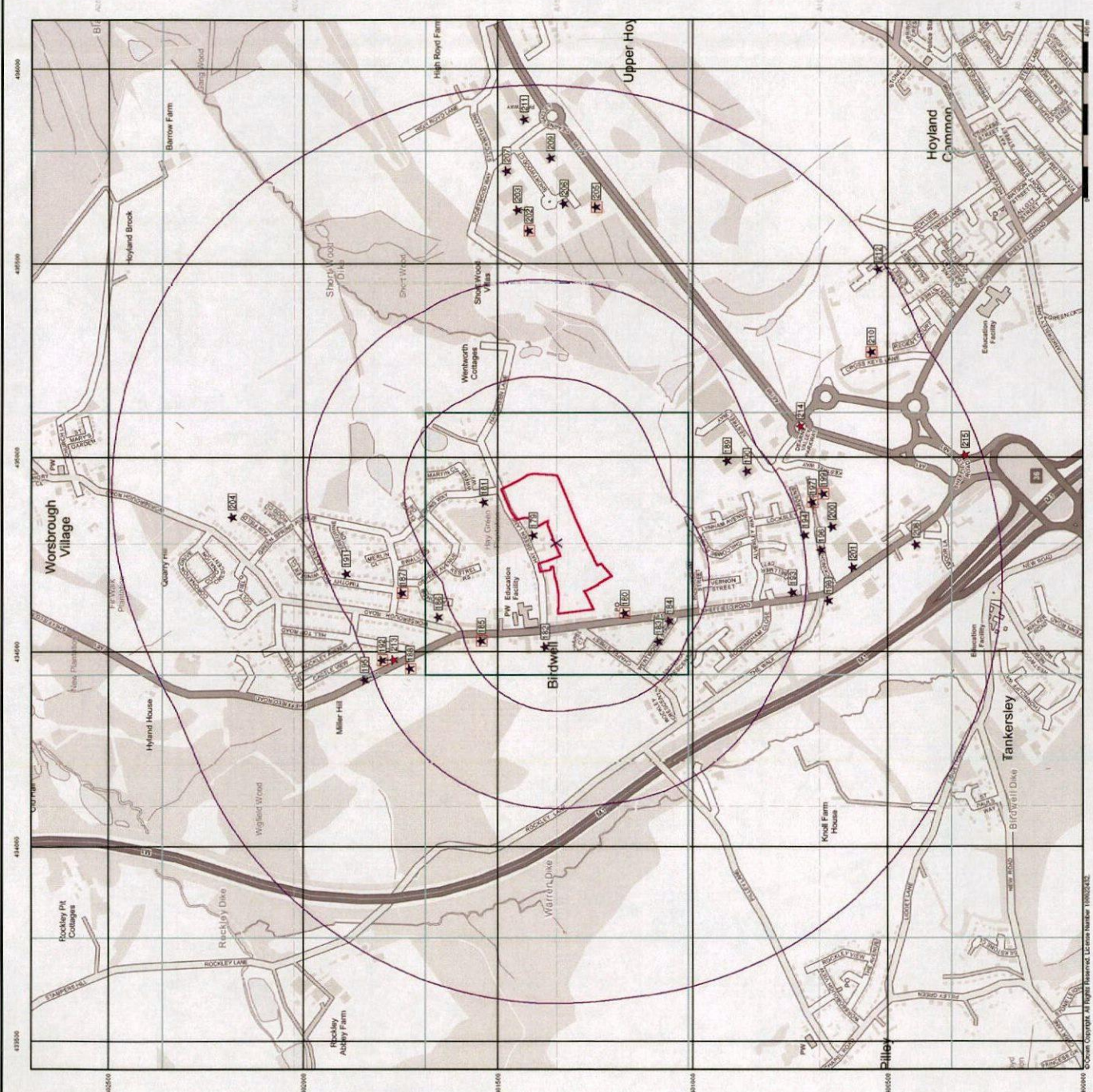


Order Details

Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNSBLEY, S70 5XD

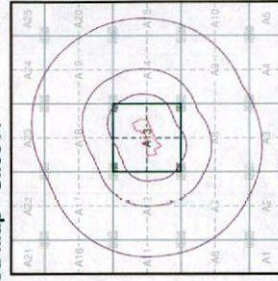




General
 Specified Site
 Specified Buffer (C)
 Bearing Reference Point

Agency and Hydrological (Flood)
 Extreme Flooding from Rivers or Sea without Defences (Zone 2)
 Flooding from Rivers or Sea without Defences (Zone 3)
 Area Enveloping from Flood Defence
 Flood Water Storage Areas
 Flood Defence

Flood Map - Slice A



Order Details

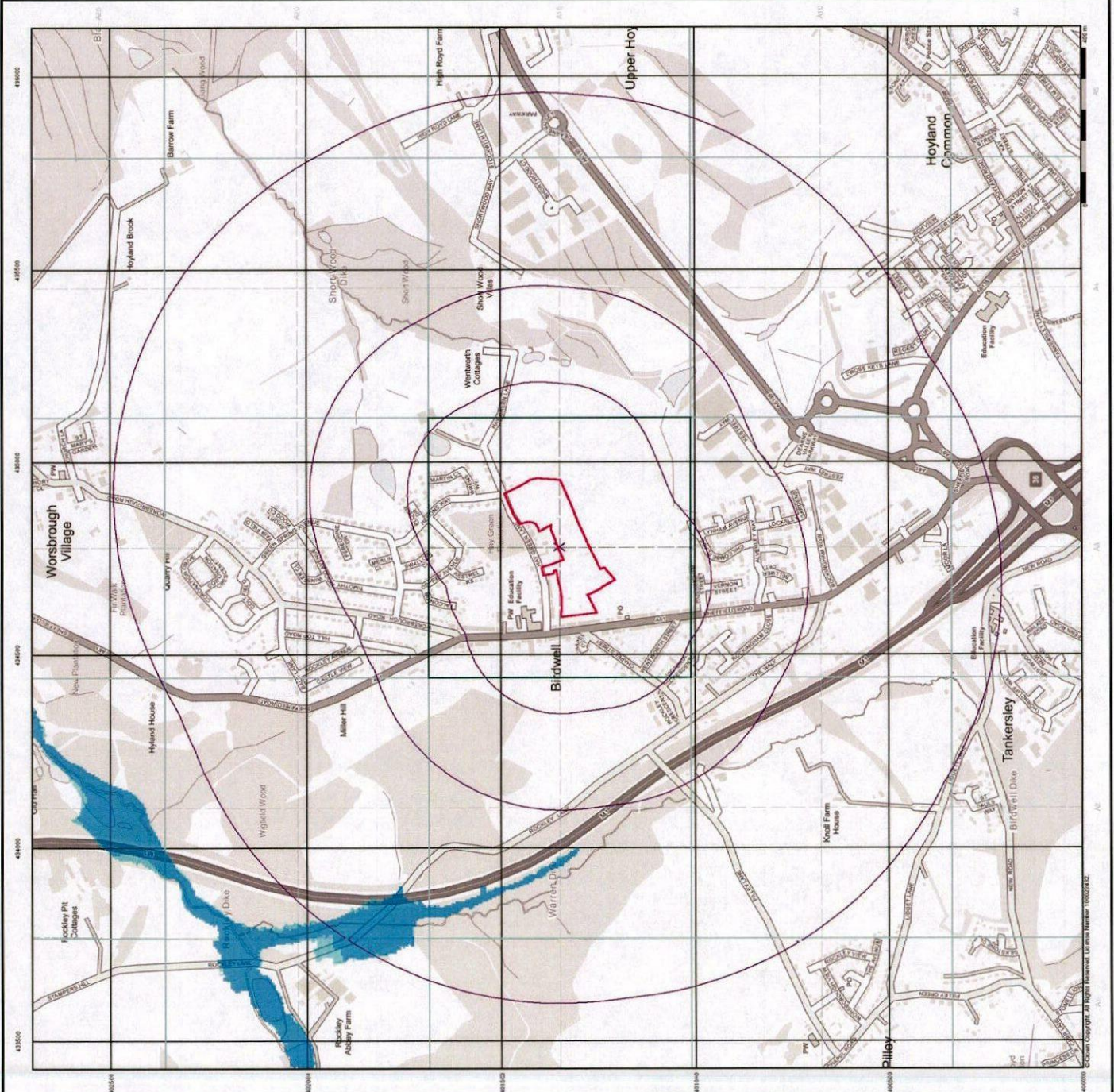
Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

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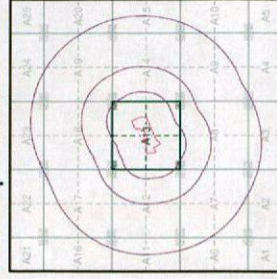
- General**
- Specified Site
 - Specified Buffer (m)
 - X Bearing Reference Point
 - Map ID
 - Search of Type & Location

Agency and Hydrological (Boreholes)

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

For Borehole information please refer to the Borehole .csv file which accompanied this slice.
A copy of the BGS Borehole Ordering Form is available to download from the Support section of www.envirocheck.co.uk.

Borehole Map - Slice A



Order Details

Order Number: 22-076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNSLEY, S70 5XD



Tel: 0844 844 9852
 Fax: 0844 844 9951
 Web: www.envirocheck.co.uk

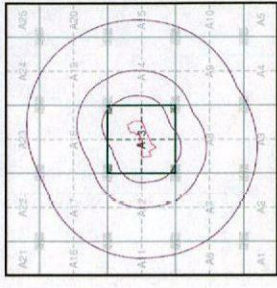


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- General**
- Specified Site
 - Specified Buffer(s)
 - X Bearing Reference Point
- OS Water Network Data**
- Canal
 - Reservoir
 - Foreshore
 - Marsh
 - Tidal River
 - Inland River
 - Drain
 - Other
 - Lake
 - Transfer
 - Lock Or Flight Of Locks
 - Sea

OS Water Network Map - Slice A

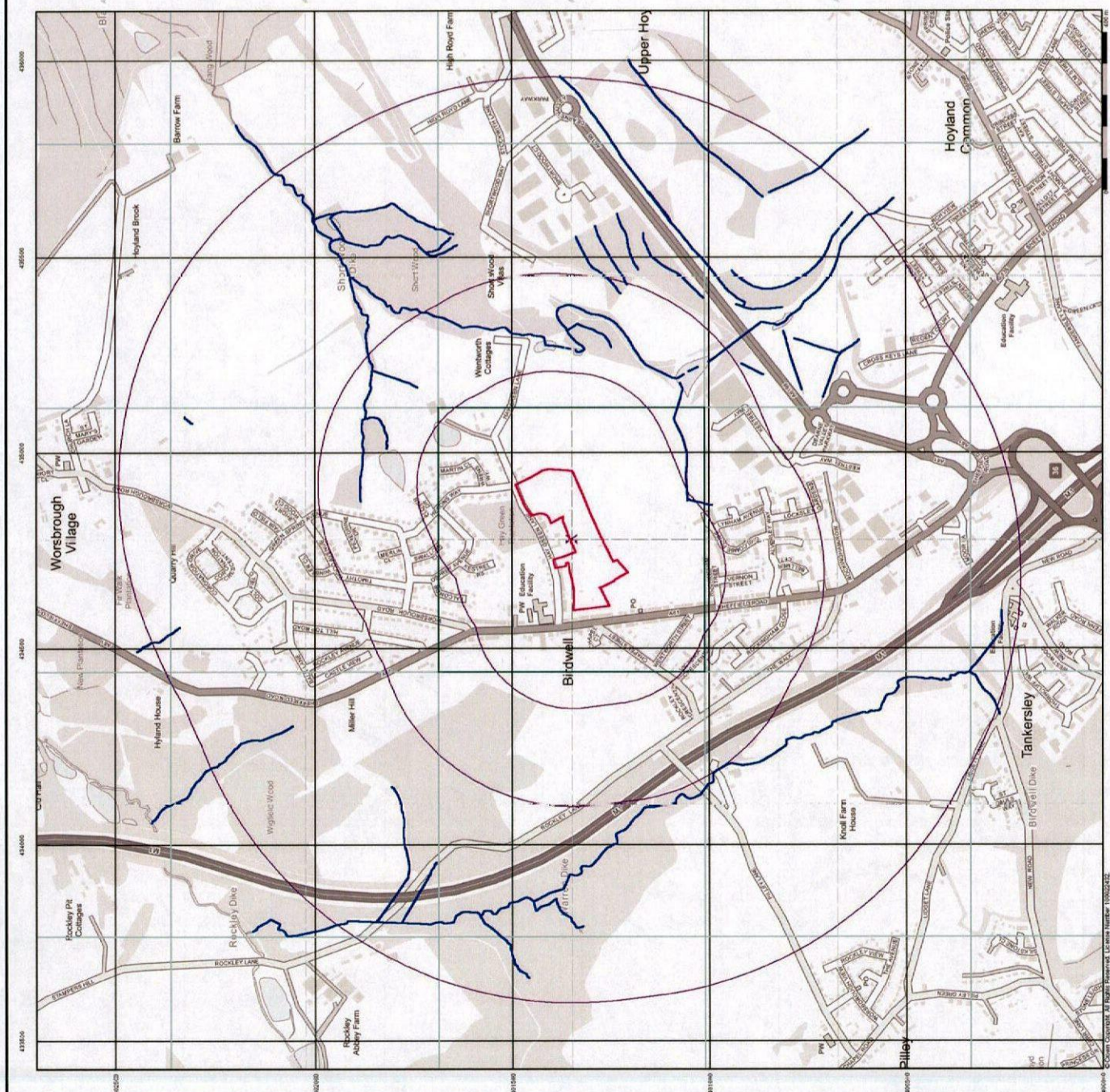


Order Details

Order Number: 224076250_1_1
 Customer Ref: 350283
 National Grid Reference: 434780, 401350
 Slice: A
 Site Area (Ha): 4.01
 Search Buffer (m): 1000

Site Details

Hay Green Lane, Birdwell, BARNESLEY, S70 5XD





Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

224076250_1_1

Customer Reference:

350283

National Grid Reference:

434780, 401350

Slice:

A

Site Area (Ha):

4.01

Search Buffer (m):

1000

Site Details:

Hay Green Lane

Birdwell

BARNSELY

S70 5XD

Client Details:

Miss L Alderman

RSK Environment Ltd

RSK Geoconsult Limited

The Potteries

Pottery Street

Casleford

West Yorkshire

WF10 1NJ

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	33
Hazardous Substances	37
Geological	38
Industrial Land Use	46
Sensitive Land Use	51
Data Currency	52
Data Suppliers	56
Useful Contacts	57

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

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1	Yes	Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		7	9	24
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 13			2	3
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 13		Yes		
Pollution Incidents to Controlled Waters	pg 13			2	8
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 15		1	1	
River Quality Biology Sampling Points					
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 15				1
Water Abstractions	pg 16				(*18)
Water Industry Act Referrals					
Groundwater Vulnerability Map	pg 20	Yes	n/a	n/a	n/a
Groundwater Vulnerability - Soluble Rock Risk			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 20	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 21		3	30	72

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 33				3
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 33				2
Local Authority Landfill Coverage	pg 34	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 34				4
Registered Landfill Sites	pg 35				2
Registered Waste Transfer Sites	pg 35				1
Registered Waste Treatment or Disposal Sites	pg 36				1
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)	pg 37				1
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					
Geological					
BGS 1:625,000 Solid Geology	pg 38	Yes	n/a	n/a	n/a
BGS Recorded Mineral Sites	pg 38	1	6	6	21
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 43	Yes	n/a	n/a	n/a
Mining Instability	pg 43	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain	pg 43	Yes	Yes	n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 44	Yes	Yes	n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 44		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 44	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 44		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 44	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas	pg 45	Yes	n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Industrial Land Use					
Contemporary Trade Directory Entries	pg 46		10	12	30
Fuel Station Entries	pg 50			1	2
Gas Pipelines					
Underground Electrical Cables					
Sensitive Land Use					
Ancient Woodland	pg 51			2	5
Areas of Adopted Green Belt	pg 51	1			
Areas of Unadopted Green Belt	pg 51				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 51	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	A13NE (NE)	0	1	434780 401351
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	0	1	434950 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	9	1	434780 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	43	1	434780 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	47	1	435000 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	53	1	435000 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	59	1	434550 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	99	1	435050 401450
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (NE)	114	1	434950 401600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NE (E)	143	1	435100 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13NW (W)	147	1	434450 401351
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	155	1	435000 401200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SE (SE)	163	1	434900 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (E)	178	1	435100 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	181	1	434950 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	203	1	435150 401300
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	225	1	435000 401700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	246	1	435200 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	261	1	434950 401750
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	266	1	435200 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	289	1	435100 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	310	1	434780 401800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14SW (E)	313	1	435250 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	320	1	435000 401800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	322	1	435250 401550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (S)	331	1	434900 400950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NE (SE)	339	1	435000 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	346	1	435300 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (SE)	351	1	435200 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14SW (SE)	358	1	435250 401150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	359	1	434900 401850
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (SW)	390	1	434250 401100
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	393	1	435350 401351
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	393	1	435350 401400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (E)	396	1	435350 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14SW (E)	409	1	435350 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	413	1	435300 401650
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	437	1	434850 400800
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A7NE (SW)	439	1	434250 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	455	1	434150 401250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A9NW (SE)	458	1	435250 401000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	496	1	435450 401350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SW (W)	499	1	434100 401300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	96	2	434505 401305
1	<p>Discharge Consents</p> <p>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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	97	2	434505 401300
1	<p>Discharge Consents</p> <p>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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	98	2	434505 401295
1	<p>Discharge Consents</p> <p>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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	101	2	434500 401305

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	<p>Discharge Consents</p> <p>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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	102	2	434500 401300
1	<p>Discharge Consents</p> <p>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: Unknown Environment: Receiving Water: Not Supplied Status: Not Supplied Positional Accuracy: Located by supplier to within 100m</p>	A13SW (W)	103	2	434500 401295
2	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Culverted Trib Short Wood Dike Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	238	2	434800 401700
3	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: 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</p>	A18SE (N)	282	2	434880 401770

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
4	<p>Discharge Consents</p> <p>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</p>	A14NW (E)	347	2	435300 401460
4	<p>Discharge Consents</p> <p>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</p>	A14NW (E)	347	2	435300 401460
4	<p>Discharge Consents</p> <p>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</p>	A14NW (E)	347	2	435300 401460
5	<p>Discharge Consents</p> <p>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</p>	A14SW (E)	378	2	435300 401200

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	<p>Discharge Consents</p> <p>Operator: Susan Robinson Property Type: DOMESTIC PROPERTY (MULTIPLE) (INCL FARM HOUSES) Location: 6 Wentworth Cottages, Hay Green Lane, Birdwell, Bamsley 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: Freshwater Stream/River Environment: Receiving Water: Short Wood Dike Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A14NW (NE)	388	2	435300 401600
7	<p>Discharge Consents</p> <p>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, Bamsley, 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: Freshwater Stream/River Environment: 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</p>	A18SE (N)	392	2	434870 401880
7	<p>Discharge Consents</p> <p>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, Bamsley, 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: Freshwater Stream/River Environment: Receiving Water: Tributary Of Short Wood Dike Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m</p>	A18SE (N)	392	2	434870 401880
7	<p>Discharge Consents</p> <p>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, Bamsley, 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: Freshwater Stream/River Environment: Receiving Water: Tributary Of Short Wood Dike Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A18SE (N)	395	2	434875 401884

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
8	<p>Discharge Consents</p> <p>Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Cook 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: Freshwater Stream/River Environment: 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</p>	A7NE (SW)	515	2	434200 400940
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Transferred from Water Act 1989 Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	549	2	434300 400800
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Transferred from Water Act 1989 Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	549	2	434300 400800
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Transferred from Water Act 1989 Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	549	2	434300 400800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Transferred from Water Act 1989 Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	549	2	434300 400800
9	<p>Discharge Consents</p> <p>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: Ditch Environment: Receiving Water: Birdwell Dyke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A7NE (SW)	549	2	434300 400800
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: 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</p>	A7NE (SW)	571	2	434271 400793
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: 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</p>	A7NF (SW)	571	2	434271 400793

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	434269 400791
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	434269 400791
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	434269 400791
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	434269 400791

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	434269 400791
9	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Birdwell Dyke Status: Varied under EPR 2010 Positional Accuracy: Located by supplier to within 10m</p>	A7NE (SW)	574	2	434269 400791
10	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Short Wood Dyke Status: Authorisation revoked Positional Accuracy: Located by supplier to within 100m</p>	A9SW (SE)	825	2	435300 400600
10	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Trib Of Shortbridge Dyke Status: Lapsed (under Environment Act 1995, Schedule 23) Positional Accuracy: Located by supplier to within 100m</p>	A9SW (SE)	825	2	435300 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
10	<p>Discharge Consents</p> <p>Operator: Gb Truck Services Property Type: Undeífinóð Or Úthór 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</p>	A9SW (SE)	825	2	435300 400500
11	<p>Discharge Consents</p> <p>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</p>	A19SE (NE)	852	2	435600 402000
11	<p>Discharge Consents</p> <p>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</p>	A19SE (NE)	852	2	435600 402000
11	<p>Discharge Consents</p> <p>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</p>	A19SE (NE)	852	2	435600 402000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
11	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Shortwood Dyke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A19SE (NE)	852	2	435600 402000
11	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Shortwood Dyke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m</p>	A19SE (NE)	852	2	435600 402000
12	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: Receiving Water: Short Wood Dike Status: Undetermined 1961 Application Positional Accuracy: Located by supplier to within 10m</p>	A9SW (SE)	867	2	435272 400542
13	<p>Discharge Consents</p> <p>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: Freshwater Stream/River Environment: 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</p>	A2NE (S)	917	2	434430 400330

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	<p>Local Authority Pollution Prevention and Controls</p> <p>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</p>	A13NW (NW)	281	3	434580 401643
15	<p>Local Authority Pollution Prevention and Controls</p> <p>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</p>	A18SW (NW)	465	3	434478 401797
16	<p>Local Authority Pollution Prevention and Controls</p> <p>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</p>	A8SW (S)	619	3	434716 400589
17	<p>Local Authority Pollution Prevention and Controls</p> <p>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</p>	A9SW (SE)	867	3	435272 400542
18	<p>Local Authority Pollution Prevention and Controls</p> <p>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</p>	A9SW (SE)	961	3	435201 400392
	Nearest Surface Water Feature	A13NE (NE)	180	-	435025 401635
19	<p>Pollution Incidents to Controlled Waters</p> <p>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</p>	A14NW (E)	354	2	435300 401500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
20	<p>Pollution Incidents to Controlled Waters</p> <p>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: Deame 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</p>	A7NE (SW)	481	2	434200 401000
21	<p>Pollution Incidents to Controlled Waters</p> <p>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: Deame Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A8NE (S)	549	2	434900 400700
22	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Industrial: Other Location: Chapman Drums, Rockingham Row, Birdwell, BARNSELEY 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: Deame Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m</p>	A8NE (S)	551	2	435001 400751
23	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Industrial Premises Location: Markers Bridge B6273, /Darfld A635 Deame 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</p>	A9NW (SE)	567	2	435300 400900
24	<p>Pollution Incidents to Controlled Waters</p> <p>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</p>	A8SE (S)	642	2	434900 400600
25	<p>Pollution Incidents to Controlled Waters</p> <p>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: Deame 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</p>	A8SE (S)	716	2	434800 400500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	<p>Pollution Incidents to Controlled Waters</p> <p>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</p>	A8SE (S)	738	2	434900 400500
27	<p>Pollution Incidents to Controlled Waters</p> <p>Property Type: Highway/Car Park Location: Darfield/Source Dove(S) Afu Authority: Environment Agency, North East Region Pollutant: Oils - Unknown Note: Not Supplied Incident Date: 30th October 1991 Incident Reference: 127839 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</p>	A17SW (W)	872	2	433800 401700
28	<p>Pollution Incidents to Controlled Waters</p> <p>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</p>	A9SW (SE)	916	2	435300 400500
	<p>River Quality</p> <p>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</p>	A14NW (E)	204	2	435161 401351
	<p>River Quality</p> <p>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</p>	A12SE (SW)	399	2	434243 401093
29	<p>Substantiated Pollution Incident Register</p> <p>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</p>	A7NE (SW)	611	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, Bamsley 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	A23SE (N)	1115	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, Bamsley 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	A16SE (NW)	1277	2	433500 402000
	Water Abstractions Operator: Bamsley 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, Bamsley 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	A22NE (N)	1408	2	434400 402800
	Water Abstractions Operator: Bamsley Metropolitan Borough Council Licence Number: 2/27/08/118 Permit Version: 102 Location: Rookley 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, Bamsley 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	A22NE (N)	1408	2	434400 402800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>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</p>	A22NE (N)	1408	2	434400 402800
	<p>Water Abstractions</p> <p>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</p>	A22NE (N)	1414	2	434416 402813
	<p>Water Abstractions</p> <p>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</p>	(N)	1809	2	434862 403299
	<p>Water Abstractions</p> <p>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</p>	(N)	1809	2	434900 403300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>Operator: Bamsley 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</p> <p>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, Bamsley 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</p>	(N)	1809	2	434900 403300
	<p>Water Abstractions</p> <p>Operator: Bamsley 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</p> <p>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, Bamsley 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</p>	(N)	1809	2	434900 403300
	<p>Water Abstractions</p> <p>Operator: Bamsley 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</p> <p>Abstraction Type: Water may be abstracted from a single point Source: Surface Daily Rate (m3): 0 Yearly Rate (m3): 0 Details: Worsborough Mill, Worsborough, Bamsley 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</p>	(N)	1809	2	434900 403300
	<p>Water Abstractions</p> <p>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</p> <p>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, Bamsley 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</p>	(N)	1811	2	435000 403300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	<p>Water Abstractions</p> <p>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</p>	(N)	1813	2	434800 403300
	<p>Water Abstractions</p> <p>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</p>	(N)	1813	2	434800 403300
	<p>Water Abstractions</p> <p>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</p>	(N)	1813	2	434800 403300
	<p>Water Abstractions</p> <p>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</p>	(N)	1813	2	434800 403300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Bamsley 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, Bamsley 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)	1822	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)	1922	2	435270 403380
	Groundwater Vulnerability Map Combined Classification: Secondary Bedrock Aquifer - Medium Vulnerability Combined Vulnerability: Medium Combined Aquifer: Productive Bedrock Aquifer, No Superficial Aquifer Pollutant Speed: Low Bedrock Flow: Well Connected Fractures Dilution: 300-550 mm/year Baseflow Index: <40% Superficial: <90% Patchiness: <3m Superficial Thickness: <3m Superficial Recharge: No Data	A13NE (NE)	0	4	434780 401351
	Groundwater Vulnerability - Soluble Rock Risk None				
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13NE (NE)	0	4	434780 401351
	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				



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
30	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	A13SE (S)	237	5	434878 401055
31	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	A13SE (S)	240	5	434883 401055
32	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	A13SE (S)	240	5	434883 401055
33	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	A14SW (E)	305	5	435258 401331
34	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	A14SW (E)	308	5	435260 401321
35	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	A14NW (E)	314	5	435270 401373
36	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	A14NW (E)	316	5	435273 401387
37	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	A14NW (E)	318	5	435275 401415
38	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 18.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A14NW (E)	329	5	435286 401417

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	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	A14SW (SE)	331	5	435215 401141
40	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	A14SW (SE)	331	5	435224 401160
41	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	A14SW (E)	332	5	435269 401249
42	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	A14SW (SE)	333	5	435140 401073
43	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	A18SE (NE)	340	5	435010 401818
44	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 15.2 Watercourse Level: Underground Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A14NW (E)	341	5	435297 401428
45	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 23.0 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A14NW (E)	344	5	435299 401443
46	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	A14SW (SE)	346	5	435156 401069
47	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 7.3 Watercourse Level: Underground Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A14NW (E)	349	5	435300 401473



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Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
48	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 472.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A14NW (E)	349	5	435300 401474
49	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	A14SW (SE)	351	5	435191 401092
50	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	A19SW (NE)	352	5	435167 401739
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	A14NW (E)	356	5	435311 401360
52	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	A14SW (SE)	358	5	435190 401080
53	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	A14NW (E)	382	5	435338 401382
54	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	A18SE (N)	392	5	434876 401884
55	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	A19SW (NE)	408	5	435190 401795
56	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	A18SE (NE)	418	5	435086 401873

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
57	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	A9NW (SE)	453	5	435236 400995
58	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	A19SW (NE)	458	5	435192 401858
59	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	A19SW (NE)	466	5	435207 401856
60	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	A19SW (NE)	468	5	435210 401855
61	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	A14SW (E)	471	5	435407 401225
62	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	A14SW (E)	498	5	435430 401209
63	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 398.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A7NE (SW)	502	5	434187 400982
64	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	A9NW (SE)	511	5	435228 400917
65	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	A14SE (E)	511	5	435459 401273



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
66	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.5 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A12SE (3W)	515	5	434128 401070
67	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	A7NE (SW)	519	5	434156 401000
68	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	A14SE (E)	521	5	435459 401225
69	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 425.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A12SW (W)	523	5	434094 401161
70	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 6.6 Watercourse Level: Underground Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A12SW (W)	524	5	434095 401149
71	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	A14SE (E)	543	5	435469 401180
72	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	A14SW (SE)	556	5	435395 401013
73	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	A9NW (SE)	598	5	435380 400930
74	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	A9NW (SE)	605	5	435373 400914

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
75	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	A9NW (SE)	605	5	435373 400914
76	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	A14NE (NE)	609	5	435511 401671
77	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	A9NW (SE)	611	5	435332 400869
78	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 157.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9NW (SE)	620	5	435161 400763
79	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	A9NE (SE)	620	5	435452 400981
80	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	A19SE (NE)	623	5	435517 401690
81	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	A19SE (NE)	631	5	435512 401719
82	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	A17SE (NW)	644	5	434147 401807
83	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	A19SW (NE)	644	5	435429 401882



Agency & Hydrological

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
84	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	A14NE (E)	645	5	435559 401648
85	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	A19SW (NE)	646	5	435430 401884
86	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	A7NE (SW)	648	5	434316 400677
87	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	A9NW (SE)	653	5	435438 400909
88	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	A9NW (SE)	658	5	435291 400783
89	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 180.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A9NW (SE)	661	5	435142 400710
90	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	A19SW (NE)	676	5	435449 401909
91	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	A14SE (E)	682	5	435586 401095
92	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	A14SE (E)	682	5	435586 401095



Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
93	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	A7SE (SW)	688	5	434333 400622
94	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	A17SW (W)	730	5	433955 401693
95	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	A12NW (W)	737	5	433861 401389
96	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	A12NW (W)	738	5	433861 401391
97	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	A14SE (E)	741	5	435669 401157
98	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	A12NW (W)	742	5	433865 401464
99	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	A19SE (NE)	763	5	435544 401926
100	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	A19SE (NE)	763	5	435544 401926
101	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	A17NE (NW)	770	5	434302 402056

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
102	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 137.0 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A17SW (NW)	771	5	433919 401712
103	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	A19SE (NE)	779	5	435541 401958
104	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 22.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A17SW (NW)	780	5	433937 401761
105	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	A19SE (NE)	792	5	435570 401940
106	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 138.4 Watercourse Level: Not Supplied Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A17SW (NW)	800	5	433915 401764
107	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 218.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A12NW (W)	807	5	433828 401590
108	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 211.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A12NW (W)	812	5	433820 401581
109	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	A19SE (NE)	828	5	435599 401961
110	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	A18NE (N)	831	5	435075 402307

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
111	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	A19SE (NE)	831	5	435612 401946
112	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	A19SE (NE)	851	5	435595 402005
113	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	A9NE (SE)	853	5	435654 400865
114	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	A9NE (SE)	872	5	435665 400846
115	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	A9NE (E)	879	5	435744 400965
116	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	A8SW (S)	905	5	434441 400339
117	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 136.1 Watercourse Level: On ground surface Permanent: True Watercourse Name: Birdwell Dike Catchment Name: Don and Rother Primacy: 1	A7SE (S)	906	5	434439 400339
118	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 64.3 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A17SW (NW)	908	5	433800 401781
119	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	A9SE (SE)	909	5	435543 400658

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
120	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 3.9 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A3NW (Q)	910	5	434453 400330
121	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	A3NW (S)	914	5	434456 400325
122	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	A3NW (S)	915	5	434457 400324
123	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 127.7 Watercourse Level: On ground surface Permanent: True Watercourse Name: Not Supplied Catchment Name: Don and Rother Primacy: 1	A18NW (N)	923	5	434553 402339
124	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	A9SE (SE)	928	5	435578 400663
125	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 355.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Warren Dike Catchment Name: Don and Rother Primacy: 1	A17SW (NW)	938	5	433803 401845
126	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)	956	5	434596 400257
127	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	A9NE (SE)	972	5	435712 400742
128	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	A15SW (E)	972	5	435927 401346

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
129	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	A15SW (E)	973	5	435929 401345
130	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	A15SW (E)	977	5	435933 401349
131	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	A19NE (NE)	977	5	435699 402077
132	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	A9NE (SE)	978	5	435715 400736
133	OS Water Network Lines Watercourse Form: Inland river Watercourse Length: 182.8 Watercourse Level: On ground surface Permanent: True Watercourse Name: Short Wood Dike Catchment Name: Don and Rother Primacy: 1	A19NE (NE)	984	5	435706 402079
134	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	A9SE (SE)	993	5	435605 400600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
135	<p>Historical Landfill Sites</p> <p>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: Deposited Waste included Inert and Commercial Waste Type: 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</p>	A8NE (S)	572	2	434955 400700
136	<p>Historical Landfill Sites</p> <p>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: Not Supplied Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0555 BGS Ref: Not Supplied Other Ref: WD20 D928, 4400/(153)</p>	A8SW (S)	611	2	434593 400606
137	<p>Historical Landfill Sites</p> <p>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: Deposited Waste included Inert and Industrial Waste Type: EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0424 BGS Ref: Not Supplied Other Ref: 20B76(21), 4400/B76, WD20 B76</p>	A14NE (E)	765	2	435685 401650
138	<p>Licensed Waste Management Facilities (Locations)</p> <p>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</p>	A8SW (S)	629	2	434720 400580

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
139	Licensed Waste Management Facilities (Locations) Licence Number: 65291 Location: Lidget Garage, Sheffield Road, Hoyland Common, Barnsley, South Yorkshire, S74 0ED 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)	947	2	434990 400309
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	3	434780 401351
140	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	A8SW (S)	539	3	434684 400669
141	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	A8NE (S)	577	3	434961 400697
142	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	A8SW (S)	690	3	434731 400519
143	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	A14NE (E)	780	3	435712 401612

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
144	<p>Registered Landfill Sites</p> <p>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: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st May 1983 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: 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.</p>	A8SE (3)	642	2	434900 400600
145	<p>Registered Landfill Sites</p> <p>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: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st October 1979 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Empty Used Containers Fired Refractory Clay &Non Flam.Tailing Ind. Non-Haz. Inert, Non-Flammable Prohibited Waste: Liquids In Containers Over 4l Cap. Slurry In Containers Over 4l Cap.</p>	A15NW (E)	875	2	435800 401650
146	<p>Registered Waste Transfer Sites</p> <p>Licence Holder: Deborah Tomese Licence Reference: WD20 B1036 Site Location: Unit 12 Rockingham Road, Birdwell, BARNSELY, 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: No known restriction on source of waste Restrictions: Licence Status: Site exempt from licenceExempt Dated: 1st December 1993 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Quality: Not Supplied Authorised Waste: Empty Used Containers Max.Storage In Licence Prohibited Waste: Waste N.O.S.</p>	A8SE (S)	588	2	434930 400670

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
147	<p>Registered Waste Treatment or Disposal Sites</p> <p>Licence Holder: Hartwood Exports (Machinery) Ltd Licence Reference: WD20 B1120 MOD 2 Site Location: Hangmanstone Depot, Sheffield Road, Birdwell, BARNSELEY, South Yorkshire, S70 5TR</p> <p>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: No known restriction on source of waste</p> <p>Restrictions: Licence Status: Operational as far as is knownOperational Dated: 22nd November 1996 Preceded By: Not Given Licence: Superseded By: Not Given Licence: Positional Accuracy: Located by supplier to within 100m Boundary Quality: Not Supplied</p> <p>Authorised Waste Max.Waste Permitted By Licence Scrap Motor Vehicles Max.Stor Scrap Tyres Max.Stor</p> <p>Prohibited Waste Liquid Wastes Waste N.O.S.</p>	A8SW (S)	629	2	434720 400580



Hazardous Substances

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
148	Notification of Installations Handling Hazardous Substances (NIHHS) Name: Mercedes Benz (Uk) Ltd. Location: Wentworth Industrial Park, Tankersley, BARNSELY, South Yorkshire Status: Not Active Positional Accuracy: Automatically positioned within the geographical locality	A11SE (W)	898	6	433700 401305

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)	A13NE (NE)	0	1	434780 401351
149	BGS Recorded Mineral Sites Site Name: Hay Green Coal Workings Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204803 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	0	1	434690 401244
150	BGS Recorded Mineral Sites Site Name: Hay Green Lane Quarries Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204798 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (NW)	43	1	434725 401439
150	BGS Recorded Mineral Sites Site Name: Hay Green Lane Quarries Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204799 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NW (N)	82	1	434732 401478
151	BGS Recorded Mineral Sites Site Name: Hay Green Lane Quarries Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204801 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m	A13NE (N)	53	1	434838 401515
152	BGS Recorded Mineral Sites Site Name: Hay Green Lane Coal Pit Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204794 Type: Underground Status: Ceased Operator: Unknown Operator 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	A13NW (W)	59	1	434592 401404

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
153	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hay Green Lane Quarries Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204800 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A13NE (N)	91	1	434781 401621
154	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hay Green Occs Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204804 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A13SE (S)	144	1	434843 401145
155	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Wigfield Occs Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204802 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Swallow Wood Coal (West And South Yorkshire) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A12NE (NW)	402	1	434270 401579
156	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Bird Well Common Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 38056 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A8NW (SW)	412	1	434498 400845
157	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Rockingham Occs Location: Hoyland, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 201 Type: Opencast Status: Ceased Operator: Rjb Mining (Uk) Ltd. Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A8NE (SE)	424	1	435059 400932
158	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Rockingham Colliery, Swallow Wood Drift Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204822 Type: Underground Status: Ceased Operator: Individual'S Name Withheld 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</p>	A14SW (SE)	452	1	435333 401106

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
159	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Rockingham Colliery, No. 2 Shaft Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204821 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14SW (SE)	471	1	435305 401036
159	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Rockingham Colliery, No. 1 Shaft Location: Hoyland, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13310 Type: Underground Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A9NW (SE)	474	1	435276 401002
160	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hay Royd Colliery Air Pit Location: Upper Hoyland, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204793 Type: Underground Status: Ceased Operator: Unknown Operator 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</p>	A19SW (NE)	542	1	435350 401817
161	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Singleton Wood Location: Upper Hoyland, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 38055 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A14SW (E)	547	1	435447 401114
162	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Birdwell Lodge Coal Mine Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108286 Type: Underground Status: Ceased Operator: Unknown Operator 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</p>	A7NE (SW)	559	1	434114 400993
163	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Birdwell Lodge Coal Mine Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204796 Type: Underground Status: Ceased Operator: Unknown Operator 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</p>	A7NE (SW)	579	1	434194 400850

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
164	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Birdwell Location: Hoyland, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13311 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A8SW (S)	614	1	434660 400595
165	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Birdwell Lodge Coal Mine Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204797 Type: Underground Status: Ceased Operator: Unknown Operator 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</p>	A7NE (SW)	634	1	434131 400837
166	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Birdwell Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 38044 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A12NW (W)	634	1	434010 401585
167	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Birdwell Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 38045 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A17SE (NW)	650	1	434285 401916
168	<p>BGS Recorded Mineral Sites</p> <p>Site Name: High Royd Brick Works Location: Upper Hoyland, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 108221 Type: Opencast Status: Ceased Operator: Ffrith Fireclay Co., Ltd 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</p>	A14NE (E)	690	1	435645 401350
169	<p>BGS Recorded Mineral Sites</p> <p>Site Name: High Royd Brick Works Location: Hoyland, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13309 Type: Opencast Status: Ceased Operator: Ffrith Fireclay Co., Ltd 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</p>	A14NE (E)	703	1	435655 401490

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
170	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hay Royd Colliery Location: Upper Hoyland, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 38049 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bamsley Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	716	1	435652 401587
170	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hay Royd Colliery Location: Upper Hoyland, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204792 Type: Underground Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Bamsley Coal (West And South Yorkshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m</p>	A14NE (E)	752	1	435681 401618
171	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Old Park Quarries Location: Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 205019 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Haigh Moor Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A12SW (W)	827	1	433776 401245
172	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Knoll Drift Mine Location: Tankersley Common, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204805 Type: Underground Status: Ceased Operator: Unknown Operator 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</p>	A8SE (S)	831	1	434871 400396
172	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Knoll Drift Mine Location: Tankersley Common, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204806 Type: Underground Status: Ceased Operator: Unknown Operator 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</p>	A8SE (S)	843	1	434912 400394
173	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hay Royd Brick Works Location: Upper Hoyland, Hoyland, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 204791 Type: Opencast Status: Ceased Operator: Frith Fireclay Co., Ltd 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</p>	A15NW (E)	855	1	435810 401460

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
174	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Hoyland Common Occs Location: Hoyland Common, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 235898 Type: Opencast Status: Ceased Operator: Individual'S Name Withheld Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Barnsley Coal (West And South Yorkshire) Commodity: Coal - Opencast Positional Accuracy: Located by supplier to within 10m</p>	A9NE (SE)	895	1	435695 400850
175	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Old Park Quarries Location: Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 205018 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Haigh Moor Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A11SE (W)	903	1	433695 401297
176	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Balk Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 38047 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Middle Coal Measures Formation Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A18NW (N)	930	1	434469 402310
177	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Wigfield Wood Quarries Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 205028 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Haigh Moor Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	966	1	434110 402179
178	<p>BGS Recorded Mineral Sites</p> <p>Site Name: Wigfield Wood Quarries Location: Birdwell, Worsbrough, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 205027 Type: Opencast Status: Ceased Operator: Unknown Operator Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Haigh Moor Rock Commodity: Sandstone Positional Accuracy: Located by supplier to within 10m</p>	A17NE (NW)	990	1	434137 402222
	<p>Coal Mining Affected Areas</p> <p>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.</p>	A13NE (NE)	0	7	434780 401351
	<p>Mining Instability</p> <p>Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied</p>	A13NE (NE)	0	-	434780 401351
	<p>Non Coal Mining Areas of Great Britain</p> <p>Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service</p>	A13NE (NE)	0	1	434780 401351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Non Coal Mining Areas of Great Britain Risk: Highly Unlikely Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401351
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	434780 401351
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401351
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	434780 401351
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	13	1	434783 401253
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401351
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A12NE (W)	165	1	434435 401381
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	434780 401351
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401351
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	434780 401351
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401351
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	434780 401351
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (S)	13	1	434783 401253
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401351
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A12NE (W)	165	1	434435 401381
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	0	1	434780 401351
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (W)	0	1	434697 401346
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	0	1	434794 401389
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	43	1	435000 401362
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	46	1	435000 401351
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (E)	47	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	A13SW (SW)	66	1	434551 401221
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	211	1	435090 401613
	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	A13NE (NE)	0	1	434780 401351
	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	A13NE (NE)	0	1	434780 401351

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
179	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	A13NE (N)	22	-	434799 401410
180	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	A13SW (SW)	43	-	434591 401214
180	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	A13SW (SW)	80	-	434598 401175
180	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	A13SW (SW)	80	-	434598 401175
181	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	A13NE (NE)	55	-	434884 401537
182	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	A13NW (W)	92	-	434511 401378
183	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	A13SW (SW)	186	-	434524 401088
184	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	A13SW (SW)	187	-	434578 401060
185	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	A13NW (NW)	209	-	434527 401542
185	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	A13NW (NW)	243	-	434544 401582
186	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	A13NW (NW)	286	-	434588 401653
187	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	A18SW (N)	349	-	434650 401745

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
187	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	A18SW (N)	349	-	434650 401745
188	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	A18SW (NW)	405	-	434455 401725
188	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	A18SW (NW)	405	-	434455 401725
188	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	A18SW (NW)	405	-	434455 401725
189	Contemporary Trade Directory Entries Name: Talurit Uk Location: Unit 3, Kestrel Way, Birdwell, Barnsley, S70 5SZ Classification: Cutting Tools & Machinery Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (SE)	417	-	434990 400912
190	Contemporary Trade Directory Entries Name: Esco Gb Location: Unit 2, Kestrel Way, Birdwell, Barnsley, S70 5SZ Classification: Laboratory Equipment, Instruments & Supplies Status: Active Positional Accuracy: Automatically positioned to the address	A8NE (S)	441	-	434963 400860
191	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	A18SW (N)	452	-	434700 401889
192	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	A18SW (NW)	465	-	434478 401797
192	Contemporary Trade Directory Entries Name: Hilltop Service Station Location: Sheffield Road, Birdwell, Barnsley, South Yorkshire, S70 5XB Classification: Petrol Filling Stations Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (NW)	465	-	434478 401797
193	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	A8NW (S)	466	-	434651 400744
194	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	A8NE (S)	508	-	434799 400711
195	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	A17SF (NW)	525	-	434427 401842

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
196	<p>Contemporary Trade Directory Entries</p> <p>Name: The Parlow 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</p>	A8SW (S)	542	-	434760 400670
197	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8NE (S)	544	-	434852 400688
197	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8NE (S)	545	-	434844 400684
197	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SE (S)	582	-	434838 400645
197	<p>Contemporary Trade Directory Entries</p> <p>Name: May Gurney Ltd Location: Unit 4, Rockingham Business Park, Rockingham Row, Birdwell, BARNSELEY, South Yorkshire, S70 5TW Classification: Sewage Disposal - Equipment & Service Status: Inactive Positional Accuracy: Automatically positioned to the address</p>	A8SE (S)	583	-	434836 400643
198	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SW (S)	561	-	434629 400651
199	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SE (S)	578	-	434875 400659
199	<p>Contemporary Trade Directory Entries</p> <p>Name: Scrap My Car Now For Bamsley Kws Location: Rockingham Row, Barnsley, South Yorkshire, S70 5TW Classification: Car Breakers & Dismantlers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality</p>	A8SE (S)	579	-	434875 400659
199	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SE (S)	584	-	434906 400665
199	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SE (S)	584	-	434906 400665
200	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SE (S)	580	-	434820 400642

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
201	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SW (S)	619	-	434716 400589
202	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A14NE (E)	627	-	435584 401420
202	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A14NE (E)	643	-	435599 401372
203	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A14NE (E)	679	-	435637 401421
204	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A18NE (N)	695	-	434846 402182
205	<p>Contemporary Trade Directory Entries</p> <p>Name: Pro Display 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</p>	A14SE (E)	699	-	435645 401247
205	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A14SE (E)	716	-	435666 401282
206	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A14SE (E)	700	-	435654 401330
207	<p>Contemporary Trade Directory Entries</p> <p>Name: Glass Resort Ltd Location: Unit 1, Shortwood Court, Shortwood Business Park, Hoyland, Barnsley, S74 9LH Classification: Bottle Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address</p>	A14NE (E)	783	-	435737 401477
208	<p>Contemporary Trade Directory Entries</p> <p>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</p>	A8SW (S)	784	-	434774 400428

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
209	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	A14NE (E)	814	-	435771 401365
210	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	A9SW (SE)	867	-	435272 400542
210	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	A9SW (SE)	867	-	435272 400542
210	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	A9SW (SE)	867	-	435272 400542
210	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	A9SW (SE)	867	-	435272 400542
211	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	A15NW (E)	913	-	435870 401432
212	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	A9SE (SE)	981	-	435484 400524
213	Fuel Station Entries Name: Mfg 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	A18SW (NW)	465	-	434478 401797
214	Fuel Station Entries Name: Rockingham Roundabout Service Station Location: Dearne Valley Parkway, Birdwell, Barnsley, South Yorkshire, S70 5TW Brand: Bp Premises Type: Petrol Station Status: Open Positional Accuracy: Manually positioned within the geographical locality	A8NE (SE)	620	-	435079 400723
215	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)	960	-	435006 400301

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
216	Ancient Woodland Name: Short Wood Reference: 1103158 Area(m ²): 94053.61 Type: Ancient and Semi-Natural Woodland	A14NW (E)	331	8	435286 401440
217	Ancient Woodland Name: The Old Park Reference: 1103453 Area(m ²): 176563.54 Type: Plantation on Ancient Woodland	A12SE (SW)	475	8	434175 401062
218	Ancient Woodland Name: The Old Park Reference: 1103453 Area(m ²): 38225.39 Type: Ancient and Semi-Natural Woodland	A12SW (W)	544	8	434074 401150
219	Ancient Woodland Name: Not Supplied Reference: 1504799 Area(m ²): 55439.68 Type: Plantation on Ancient Woodland	A17SE (NW)	654	8	434179 401849
220	Ancient Woodland Name: Not Supplied Reference: 1411815 Area(m ²): 20207.62 Type: Ancient and Semi-Natural Woodland	A17SW (NW)	971	8	433813 401918
221	Ancient Woodland Name: Not Supplied Reference: 1411822 Area(m ²): 31244.12 Type: Ancient and Semi-Natural Woodland	A23SW (N)	977	8	434595 402413
222	Ancient Woodland Name: Wigfield Wood Reference: 1103454 Area(m ²): 13143.85 Type: Ancient and Semi-Natural Woodland	A17NE (NW)	979	8	434202 402241
223	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	A13SE (SE)	0	9	434809 401286
224	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	A19SE (E)	816	9	435727 401688
225	Nitrate Vulnerable Zones Name: River Deame Nvz Description: Surface Water Source: Environment Agency, Head Office	A13NE (NE)	0	4	434780 401351













Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Rotherham Metropolitan Borough Council - Environmental Health Department Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Sheffield City Council - Environmental Protection Service	April 2014 July 2013 October 2017	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	July 2019	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	Annual Rolling Update
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Variable
Integrated Pollution Prevention And Control Environment Agency - North East Region	July 2019	Quarterly
Local Authority Integrated Pollution Prevention And Control Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Sheffield City Council - Environmental Protection Service Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 October 2014	Variable Variable Variable
Local Authority Pollution Prevention and Controls Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Sheffield City Council - Environmental Protection Service Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Control Enforcements Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Sheffield City Council - Environmental Protection Service Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 October 2014	Variable Variable Variable
Nearest Surface Water Feature Ordnance Survey	September 2019	
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	Annual Rolling Update
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	Annual Rolling Update
Registered Radioactive Substances Environment Agency - North East Region	June 2016	
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2019 July 2019	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	July 2019	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2017	Quarterly
Groundwater Vulnerability Map Environment Agency - Head Office	June 2018	As notified
Bedrock Aquifer Designations Environment Agency - Head Office	January 2018	Annually

Agency & Hydrological	Version	Update Cycle
Superficial Aquifer Designations Environment Agency - Head Office	January 2018	Annually
Source Protection Zones Environment Agency - Head Office	October 2019	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2019	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	August 2019	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	August 2019	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	August 2019	Quarterly
Flood Defences Environment Agency - Head Office	August 2019	Quarterly
OS Water Network Lines Ordnance Survey	July 2019	Quarterly
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually
Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	October 2019	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2018 July 2018	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	July 2019 July 2019	Quarterly Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Rotherham Metropolitan Borough Council - Environmental Health Department Sheffield City Council - Environmental Protection Service	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Rotherham Metropolitan Borough Council - Environmental Health Department Sheffield City Council - Environmental Protection Service	May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	March 2003 March 2003	Not Applicable Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	March 2003 March 2003	Not Applicable Not Applicable

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

Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	July 2019	Quarterly
Fuel Station Entries Catalist Ltd - Experian	September 2019	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 Rotherham Metropolitan Borough Council Sheffield City Council	March 2019 March 2019 March 2019	As notified As notified As notified
Areas of Unadopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Rotherham Metropolitan Borough Council Sheffield City Council	March 2019 March 2019 March 2019	As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	June 2019	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	March 2019	Bi-Annually
Marine Nature Reserves Natural England	July 2019	Bi-Annually
National Nature Reserves Natural England	July 2019	Bi-Annually
National Parks Natural England	April 2017	Bi-Annually
Nitrate Vulnerable Zones Environment Agency - Head Office Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	December 2017 October 2015	Bi-Annually
Ramsar Sites Natural England	April 2019	Bi-Annually
Sites of Special Scientific Interest Natural England	March 2019	Bi-Annually
Special Areas of Conservation Natural England	June 2019	Bi-Annually
Special Protection Areas Natural England	April 2019	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
1	British Geological Survey - Enquiry Service British Geological Survey, Environmental Science Centre, Keyworth, Nottingham, Nottinghamshire. NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
2	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
3	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	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
5	Ordnance Survey Adanac Drive, Southampton, Hampshire, SO16 0AS	Telephone: 03456 05 05 05 Email: customerservices@ordnancesurvey.co.uk Website: www.ordnancesurvey.gov.uk
6	Health and Safety Executive 5S.2 Redgrave Court, Merton Road, Bootle, L20 7HS	Website: www.hse.gov.uk
7	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk Website: www2.groundstability.com
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	Barnsley Metropolitan Borough Council - Planning Department Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
-	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.

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