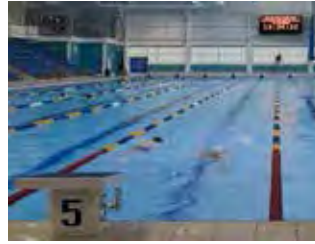




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**HICKLETON COLLIERY
PHASE 1 GEO-ENVIRONMENTAL REPORT
PRIORITY SPACE (HICKLETON) LTD**

11525

FEBRUARY 2017

Contract: Hickleton Colliery**Document Title:** Hickleton Colliery Phase 1 Geo-Environmental Report**Our Ref:** 11525/12**Prepared by:** W.P. Dixon BSc (Hons) MSc FGS **Date:** February 2017**RECORD OF AMENDMENTS TO DOCUMENT**

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0.0 EXECUTIVE SUMMARY

The site is located on Thurnscoe Business Park, Thurnscoe, Barnsley district. The National Grid Reference for the site is 446436E, 405337N. The postcode for the site is S63 0BH.

The proposal is to construct several light industrial units on the site.

The site was developed into Hickleton Main Colliery sometime between 1894 and 1906 and expanded between 1906 and 1930. The off-site spoil tip is first indicated in 1906. Between 1966 and 1973 several buildings to the south and east were removed. In the early 1990s the majority of the buildings were removed from the colliery, with the exception of the western shaft's winding house and the power house, both on the site. By 1999 no colliery buildings remain.

The site is indicated to lie on a bedrock of interbedded mudstone, siltstone and sandstone of the Pennine Upper Coal Measures Formation with no superficial deposits present. The bedrock is classified by the EA as a Secondary A aquifer. The site lies at approx. 48m AOD at the base of a gently sloping valley.

The site is in the likely zone of influence of workings in 3 seams of coal, at 360m to 730m depth, last worked in 1949. Ground movement from these workings should have ceased. There are 3 known mine entries in, or within 20m of, the site. The site lies in the boundary of a past opencast mine.

The site lies within Environment Agency (EA) Flood Zone 1, i.e. is within an area considered to have a risk of flooding of less than 1 in 1000 in any one year. The site is indicated by the EA to have an annual probability of surface water flooding of less than 1 in 1000.

The site is in a lower probability radon area and no radon protective measures are necessary in the construction of new buildings. Methane is extracted from the no.2 shaft to the west of the site, there is the potential for ground/mine gas on site.

The Phase I Conceptual Site Model indicates the site would appear to have a low risk of causing harm to controlled waters, however, based on the proposed commercial end uses, the CSM indicates a potential moderate risk to human health.

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The Phase II investigation should investigate levels of ground/mine gas, the chemical properties of the made ground and the stability of the ground around the mine shaft in the centre of the site.

1.0 INTRODUCTION

1.1 Background

William Saunders have been instructed by Priority Space (Hickleton) Ltd to prepare a Phase 1 Geo Environmental Report for the proposed development at Hickleton Colliery.

1.2 Objectives

The objective of this Phase 1 investigation is to provide, on the basis of information on historic and recent activities at the site, an opinion of the likely presence of soil contamination arising from historic, recent and current uses on and surrounding the subject site, the potential pathways and the resulting risks to water resources, ecological resources, building materials, on site and off site receptors.

This report also considers wider potential ground engineering development constraints.

1.3 Scope of works

The review comprised the following;

- Reconnaissance of the site and the immediate surrounding area.
- An assessment of historical land uses (as can be deduced from historic Ordnance Survey mapping) and activities at the site and neighbouring land to assess the potential for soil, groundwater and surface water contamination.
- An assessment of the environmental setting of the land through a review of the geology, hydrogeology, hydrology, waste management activities, hazardous installations, pollution control authorisations, past pollution incidents, radon hazards, ecological features and regulatory authority information.
- An assessment of the potential for contamination arising from the use of the site or surrounded land.
- Identification of the potential human health and environmental risks that may be associated with the site, taking into account past, current and planned future uses of the land and its environmental setting.

This review is based on is based on publicly available information, a site reconnaissance and information obtained from the relevant authorities. No sampling or analysis of soils, waters or other materials was carried out for the purpose of this review. Recommendations are made for Phase II intrusive investigations.

2.0 SITE DESCRIPTION

2.1 Location

The site is located on Thurnscoe Business Park, Thurnscoe, Barnsley district. It is between Phoenix Lane and Barrowfield Road, immediately west of The Windings. The site is on the eastern border of Thurnscoe, approx. 600m south-east of the train station. The village of Hickleton is approx. 1.5km east.

The site is accessed from either Phoenix Lane (north) or Barrowfield Road (south), these roads both connect to the B6411 Lidget Lane to the north and the A635 Dearne Valley Parkway approx. 775m south-west near Goldthorpe.

The National Grid Reference for the site is 446436E, 405337N. The postcode for the site is S63 0BH.

Location plans are given at Appendix A.

2.2 Description

The development site comprises an undeveloped plot of land of approx. 0.86 hectares. A topographical survey is given in Appendix A. The site is in an industrial park and bounded by an energy plant to the west, a mechanics and two other industrial buildings to the north. To the south is a large newly constructed industrial development with semi-wooded parkland beyond.

The site lies at approx. 48m AOD at the base of a gentle valley trending east-west. Locally the site appears almost flat with the surrounding roads raised by approx. 1.5m. In general, the land rises to the north and south, becoming steeper after approx. 100m. There is a hill to the south-east with a summit of 90m AOD 500m from the site.

2.3 Proposals

The proposals are to build 15 light industrial units.

3.0 SITE HISTORY

3.1 Ordnance Survey

Archive Ordnance Survey maps have been reviewed as an indicator of the previous uses of the site. Historical mapping can be found in Appendix B. Findings are as follows:

3.1.1 County Series 1854 (1: 10560)

The site appears undeveloped comprising of farmland. Lidget Lane is in the same location as at present. There is a building directly north of the site on the far side of Lidget Lane.

3.1.2 County Series 1892 (1:2500)

There appears to have been no change.

3.1.3 County Series 1894 (1:10560)

The Midland & North Eastern Railway and Swinton & Nottingham Joint Rail Line run SSW-NNE approx. 500m west of the site. Rows of terraced housing have been constructed along Lidget Lane to the north-west of the site.

3.1.4 County Series 1906 (1:2500 & 10560)

Hickleton Main Colliery is on the site. Three mine shafts are indicated, one in the centre of the site, one approx. 15m west and one approx. 20m south of the SE boundary which is referred to as a well. To the south-east and east of the site there appears to be opencast mining or refuse heaps, to the south there are coke ovens, water tanks and a brickworks. Several rail lines cross the site trending east-west with lines to most buildings. There are several buildings on site including the power house, powder magazine, washery and winding houses. Road access to the site appears to be from the present Lockwood Lane leading to Phoenix Lane.

3.1.5 County Series 1930 (1:2500)

More colliery buildings have been developed on and off site, especially towards the east where shaft no. 3 has been drilled, there has also been an increase in rail line sidings with many replacing the spoil heap which has been relocated further south-east.

There is a reservoir of a similar size to the site approx. 250m north as well as development of semi-detached houses to the north-west and north-east.

3.1.6 County Series 1931 (1:10560)

There appears to be no change.

3.1.7 County Series 1938 (1:10560)

There appears to be no change.

3.1.8 County Series 1948 (1:10560)

There appears to be no change.

3.1.9 Ordnance Survey Plan 1956 (1:10560)

There appears to be little change to the site itself and its surroundings, however, there are large tips to the south and south-east.

3.1.10 Ordnance Survey Plan 1962 (1:1250 & 2500)

There appears to be no change.

3.1.11 Ordnance Survey Plan 1966 (1:10560)

The land that borders the south and east of the colliery (presently Phoenix Park) is nearly all indicated to be a tip. There are additional railway sidings to the south.

3.1.12 Ordnance Survey Plan 1973 (1:1250)

Some smaller buildings and features to the south and east of the site appear to have been demolished. There is a connection between the building adjacent to shaft no. 2 and a building over the rail line to the NW of the site, potentially a conveyor.

3.1.13 Ordnance Survey Plan 1983 (1:10000)

There appears to be little change.

3.1.14 Additional SIMs 1984 (1:1250)

Lockwood Lane, a path to the west of the site running to Goldthorpe has been straightened to accommodate the westwards expansion of the spoil heap.

3.1.15 Additional SIMs 1989 (1:1250)

There appears to be little change.

3.1.16 Ordnance Survey Plan 1991 (1:10000)

There appears to be little change.

3.1.17 Large Scale National Grid Data 1993 (1:1250)

Removal of all buildings to the north and east and immediately south of the site. Only the winding house for the western shaft and the power house in the SE of the site remain in the vicinity of the site.

3.1.18 Historical Air Photograph 1999

No colliery buildings remain. Phoenix Lane and Barrowfield Road have been constructed in their present layout.

3.1.19 10k Raster mapping 2000 (1:10000)

The Windings road is indicated to be constructed. There is no evidence of any buildings remaining associated with the colliery although the spoil heap is indicated to the south-east of the site.

3.1.20 10k Raster mapping 2006 (1:10000)

Industrial units have been constructed to the north, west and east of the site on Phoenix Lane. Phoenix park is indicated in place of the spoil heap, it is mostly wooded and features many drains. Thurnscoe dyke is indicated east of the site and appears to be culverted.

3.1.21 Vector Map Local 2017 (1:10000)

There has been the addition of one industrial unit to the west of the site.

3.2 **Summary**

The site was developed into Hickleton Main Colliery sometime between 1894 and 1906, 2 shafts and one well were drilled, it was expanded between 1906 and 1930 with the addition of one shaft SE of the site. The off-site spoil tip is first indicated in 1906, was relocated further SE by 1930 and increased in size in the 1966 and 1984 maps. Between 1966 and 1973 several buildings to the south and east were removed. In the early 1990s the majority of the buildings were removed from the colliery, with the exception of the western shaft's winding house and the power house, both on the site. By 1999 no colliery buildings remain at all and the site is being constructed to its current layout. The 2006 mapping indicates that Phoenix Park has been completed on the spoil heap.

4.0 LAND USE

4.1 The site

The site is currently an undeveloped plot on a business park.

The site was formerly occupied by Hickleton Main Colliery which was developed in the late 19th century and expanded by 1930. Buildings were periodically demolished with new ones constructed, by 1993 only the winding house and power house remained. Reclamation of the site took place circa 1999.

4.2 Surroundings

To the north of the site is a mechanics and two other industrial units, to the west an energy plant, to the south a newly constructed industrial unit and to the east there are other undeveloped plots. Beyond the immediate surroundings to the west are more business unit, to the north-west and north is residential and to the east, to south-west is a semi-wooded park.

Previous use has been a colliery with associated buildings, rail lines and 3 mine shafts, the parkland to the south-west to east was the associated spoil heap. The eastern and western had extensive areas of rail sidings, coke ovens were located to the south.

5.0 ENVIRONMENTAL SETTING

A package of environmental data has been obtained from Envirocheck, to be found at Appendix C.

5.1 Geology

The geological mapping is derived from British Geological Survey 1:50,000 scale mapping.

5.1.1 Artificial Geology

There is no geologically significant made ground on the site. Made ground is indicated approx. 100m north-east and south of the site. Made ground is anticipated to be present on all brownfield developments.

5.1.2 Superficial geology

The mapping indicates there are no superficial deposits on the site. Alluvium is present approx. 100m SE.

5.1.3 Bedrock Geology

The site is indicated to lie on a bedrock of interbedded mudstone, siltstone and sandstone of the Pennine Upper Coal Measures Formation (Carboniferous). Faults are indicated approx. 600m north-east and south of the site, both trending SEE-NWW.

5.2 Mining

A Coal and Brine Report has been obtained from the Coal Authority, to be found in Appendix D. Brine extraction is not relevant to this site. This states the following:

- The site is in the likely zone of influence of workings in 3 seams of coal, at 360m to 730m depth, last worked in 1949. Ground movement from these workings should have ceased.
- There are 3 known mine entries in, or within 20m of, the site, and there are no known faults due to coal mining.
- The site is not in an area currently licensed or where a licence application has been made for underground coal removal, however, reserves of coal are present which could be worked at some time in the future. The area is not likely to be affected by any planned future underground coal mining.

- The site is not affected by current underground coal workings.
- The site lies in the boundary of a past opencast mine, it does not lie within 200m of a present or 800m from a proposed future opencast mine.
- There are no records of mine gas emissions, or surface hazards, having required attention by the Coal Authority.

There are two areas of infilled land within 1 km of the site, 1 is approx. 50m north-west and the other approx. 580m SW.

The mine shaft in the centre of the site is known as Hickleton Colliery no. 1 shaft, it was filled in 1986 and capped in 1990. The Coal Authority's interactive mapper indicates the shaft is 513m deep with a diameter of 5.5m. The BGS Interactive Borehole Records Scanner indicates a depth of 831m, however, this is likely to be mistaken for shaft no. 3, approx. 100m SE, which is indicated by the CA to be 831m deep.

The mine shaft in the adjacent site to the west is known as Hickleton Colliery no. 2 shaft, it is filled with hardcore, plugged with concrete to an unknown depth and capped with a 750mm thick reinforced hexagonal cap in 1994. A 600mm diameter vent is installed through the cap and concrete plug. The Coal Authority's interactive mapper indicates the shaft is 756m deep with a diameter of 5.5m.

The shaft to the south of the site is likely to be the well indicated in the 1906 historic map, no treatment details are provided by the Col Authority.

SYMAS

The South Yorkshire Mining Advisory Service were contacted regarding treatment details of the mine shafts affecting the site with a focus on the presumed well. Correspondence is available in Appendix E.

5.3 Hydrology

5.3.1 Surface Water Features

The closest surface water feature to the site is an extended culvert of the Thurnscoe Dyke which is approx. 75m SE of the site running NE-SW. At its closest the open channel section of the Thurnscoe Dyke is approx. 100m south of the site flowing west.

Thurnscoe reservoir lies approx. 250m north of the site.

5.3.2 Flooding

The site lies within Environment Agency (EA) Flood Zone 1, i.e. is within an area considered to have a risk of flooding of less than 1 in 1000 in any one year. The closest area of flood zone 2 is approx. 900m SW of the site.

The site is indicated by Environment Agency mapping to have an annual probability of surface water flooding of less than 1 in 1000. However, the roads to the south of the site is indicated to be at risk of a 1 in 1000-year pluvial event, as is the site immediately to the west.

The site is not considered to be at risk of groundwater flooding.

The site is not indicated to be at risk of reservoir flooding although the model does not take Thurnscoe Reservoir (250m north) into account.

5.3.3 Sewers

Foul sewers are indicated to run to the north and south of the site along Phoenix Lane and Barrowfield Road.

5.3.4 Surface Water Abstractions

There are no licenced surface water abstractions within 1km of the site.

5.4 Hydrogeology

5.4.1 Aquifers

The bedrock beneath the site (Pennine Upper Coal Measures) is classified as a Secondary A aquifer. Secondary A aquifers are defined by the EA as:

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

5.4.2 Leaching Potential

Soils are classified as having a 'high u' (urban areas and restored mineral workings) leaching potential (worst-case assumed until proven otherwise). As a result, the Secondary A aquifer is classified as having a high vulnerability.

5.4.3 Groundwater Source Protection Zones

The site does not lie within a Source Protection Zone.

5.4.4 Groundwater Abstractions

There are no licensed abstractions reported from the aquifer within 1000m of the site.

5.5 Waste

5.5.1 Operational Waste Activities

There is an operational registered waste transfer site approx. 450m NE of the site on Albion Drive. The licence was granted/renewed in 2001 and is classed as 'operational as far as is known'. The max input rate is small (10,000 to 25,000 tonnes/year) and waste includes household and commercial excluding liquids, hazardous waste, special waste and sludges.

5.5.2 Historic Landfill Sites

There are 5 registered historic landfill sites within 1km of the site:

- The site lies approx. 100m south of a BGS recorded landfill site relating to Hickleton brickworks.
- The site lies approx. 125m north of a Local Authority recorded landfill site relating to the Phoenix Park area.
- The site lies approx. 400m SW of a local authority recorded landfill site at the north end of George Street.
- The site lies approx. 500m SW of Lidget Lane historic landfill site.
- The site lies approx. 820m SSE of Chapel Lane historical landfill site in a former railway cutting. The licence was held by Barnsley Metropolitan Borough Council and expired in 1981. Max input rate was large (75,000 to 250,000), authorised waste included contaminated rubbish, medical/veterinary, scrap metal and rubber, sewage sludge, slag, tar and asphalts.

5.5.3 Discharge Consents

There are seven discharge consents within 1km of the site. However, these are all indicated to be inactive.

- 96m south of the site – British Coal Corporation. Trade effluent. Authorisation revoked in 1991. Discharges to Thurnscoe Dyke.
- 123m south of the site – British Coal Corporation. Trade effluent. Authorisation revoked in 1991. Discharges to Thurnscoe Dyke.
- 170m SSW of the site – Yorkshire Forward. Site drainage. Authorisation revoked in 2003. Discharges to Thurnscoe Dyke.
- 345m south-west of the site – National Coal Board, South Yorkshire. Settlement lagoon. Authorisation revoked in 1995. Discharges to Thurnscoe Dyke.
- 545m south-west of the site – Yorkshire Forward and Yorkshire Water Service Ltd. Storm Tank/CSO on sewage network as well as site drainage. Authorisation revoked by 2012. Discharges to Thurnscoe Dyke.
- 725m ENE of the site – English Partnerships and Yorkshire Forward. Trade discharges and site drainage. Discharges to Thurnscoe Dyke.
- 770m ENE of the site – Yorkshire Water Services Ltd. Pumping station, sewage treatment works and associated storm overflow tank. Authorisation revoked in 1996. Discharged to Thurnscoe Dyke.

5.6 Pollution Incidents

5.6.1 Controlled Waters

There have been 7 pollution incidents to controlled waters reported within 1km of the site. These are all at least 800m from the site and generally located in the same area to the south-west. These have included 3 significant incidents, 1 major incident and 3 minor incidents. Pollutants were cement, mining water, animal slurry and sewage. These were not related to nor had any impact on the site.

5.6.2 Substantiated Pollution Incident

There have been 3 substantiate pollution incidents within 1km of the site:

- 283m north – July 2013. ‘Other pollutant’. Significant incident to water.
- 445m north-east - August 2004. Asbestos waste. Significant incident to land and minor incident to air.
- 721m NNW - Feb 2003. Vehicles and vehicle parts. Significant incident to land.

5.7 Ground Gas

The site is in a lower probability radon area and no radon protective measures are necessary in the construction of new buildings. Methane is extracted from the no.2 shaft to the west of the site. Ground gas may be produced from worked coal seams and could vent from the shafts proximal to the site.

5.8 Ecological

A search of Natural England's 'Nature on the Map' website indicates that the site lies within the South Yorkshire Forest and falls under an Objective 1 Area (England) which are non-statutory designation. The site lies within a Nitrate Vulnerable Zone for surface water which is a statutory designation.

5.9 Industrial Activity

There are 6 active contemporary trade directories, 5 commercial services and 1 manufacturing and production site located within 250m of the site.

6.0 SITE WALKOVER

A walkover inspection of the site was undertaken on 24th February 2017. The weather was sunny.

No evidence was noted to suggest severe contamination of the ground. Vegetation on-site was poor quality grass, moss, few weeds and few bushes, this may be an indicator of acidic conditions although there is minimal soil cover on the site. No noxious weeds were noted to be present. Ground was wet underfoot towards the west of the site with localised large puddles. There is some semi-mature vegetation around the perimeter of the site and a large buddleia to the west.

There appeared to be no issues regarding the mine shaft marker in the centre of the site although the plaque is missing, there is no visible evidence of the shaft to the south of the site.

Regarding levels on the site the following points were noted:

- The site slopes gently from east to west with roughly 1m fall between boundaries, the west and east appear to be at similar levels.
- Along the northern border to Phoenix Lane the site is approx. 1.5m below the road.
- Along the eastern border to The Windings the site is approx. 1m below the road.
- Along the southern boundary to Barrowfield road the site appears slightly higher than the road, there is a 1m vegetated bund between the site and the road.
- The western boundary to the small power station is flat and separated by a 1.8m high metal fence.
- In the north-west corner of the site there is an earth bund approx. 3m above the site and 1.5m above the road, this only extends approx. 5m into the site extent.

7.0 REVIEW OF PREVIOUS WORK

- 7.1 WYG Transport Planning. Hickleton Colliery Ground Conditions Review. For Homes and Communities Agency. Report Number: RT97680-01.

Site History

- Hickleton Colliery officially closed in 1994. The Northern Mine Research Society claim the site closed in 1988 and the site was cleared between 1991 and 1994.
- Slab foundations of the former No. 1 and No. 2 winding houses as well as the power house may still be present.
- Any gross contamination identified would have been removed in the reclamation of the colliery although this cannot be verified.

Current Site Conditions

- Shaft no. 2 on the adjacent site to the west is current used to generate electricity through methane abstraction, a previous report stated the necessity for venting.
- The site has the potential for contamination petroleum hydrocarbons, coal, ash and asbestos.
- The shaft in the centre of the site has been capped. The cap is 11m in diameter and the top is at 47.069m AOD. A 1:1 batter would mean a 3m radius standoff zone.
- The shaft to the south of the site (shaft no. 10) was proved by drilling to be a well of 21m depth and unknown diameter by the South Yorkshire Mining Advisory Service who also installed a reinforced concrete cap in 1995.
- Reclamation work 'turned over' the upper 3m of the site. Any structures within this level were removed. Groundwork in 1999 suggest some foundations remain in-situ, see Appendix F.
 - o Foundations of the former winding house (towards the west of the site) are believed to be in-situ at 45.4m AOD.
 - o Foundations of the former power house (along the south of the site) are believed to be in-situ at 47.45m AOD. Southern and eastern wall sections are left in to avoid undermining the slope up to Barrowfield Road. Top of wall is 48.935m AOD.

8.0 PHASE I ENVIRONMENTAL RISK ASSESSMENT

The risk of any contaminants impacting on development is a function of the nature of the contaminant, the probability of exposure, the pathway by which exposure occurs and the likely effect on the receptor. A contaminant is defined by the Contaminated Land Exposure Assessment (CLEA) method as a substance that has the potential to cause harm, and a risk is considered to be present where a contaminant is present at sufficient concentration to cause harm and a pathway is present for a receptor to be exposed to that contaminant.

At this stage, the Phase 1 Risk Assessment is qualitative in nature, and aims to identify all potential source-pathway-receptor linkages irrespective of significance or uncertainty. The identification will cover the following scenarios: -

- § Existing site conditions affecting the site itself,
- § Existing site conditions affecting the environment more generally, and
- § Existing off site conditions affecting the site.

8.1 Potential Pollution Sources

Based on the findings of this Phase 1 Report, the potential sources of contaminants are: -

On site

- Deposits from previous site use, construction and demolition.
- Mine gas from the shaft beneath the site or the two adjacent ones.

Off site

- Ground gas from the areas of infilled land to the north-east and south.

8.2 Potential Pathways

Potential pathways are as follows:

- Ingestion through direct contact or edible vegetable uptake,
- Skin contact,
- § Inhalation,
- § Direct contact with buried structures,
- § Leaching to ground water,
- § Surface run off,
- § Accumulation of explosive or asphyxiative gases in confined spaces.

8.3 Potential Receptors

Human health

- § Current site users,
- § Construction workers,
- § Future site users,
- § Users of adjacent sites.

Construction materials

- § Buried concrete in foundations,
- § Buried water pipes.
- § Buried brickwork

Controlled waters

- § Groundwater underlying the site, noted as a secondary A aquifer,
- § Surface water.

Flora and fauna

- § Existing vegetation,
- § Future development landscape planting,

8.4 Preliminary Conceptual Site Model

The Preliminary Conceptual Site Model (CSM) is a hypothetical review of the linkages between source, pathway and receptor as noted above. This is set within the identified ground and waters context of the site and the site's proposed end use.

No significance or uncertainty is attributed to any source-pathway-receptor pollutant linkage at this stage.

A graphical representation of the CSM is given in Appendix G.

In tabular form, the CSM and attributable risk is as follows: -

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HICKLETON COLLIERY

Source	Pathway	Receptor	Probability	Consequence	Risk
On-site contaminants in near surface soils	Direct contact and ingestion	Long term – future site users	Unlikely	Medium	Low
		Short term – construction workers	Low	Medium	Moderate / low
	Inhalation of dust	Long term – future site users	Unlikely	Medium	Low
		Short term – construction workers	Low	Medium	Moderate / low
	Leaching through infiltration	Secondary A aquifer	Low	Medium	Moderate / low
On-site mobile hydrocarbons in near surface soils	Leaching through infiltration	Secondary A aquifer	Low	Medium	Moderate / low
	Direct contact	Short term – construction workers	Low	Medium	Moderate / low
Asbestos in made ground	Inhalation of fibres	Long term – future site users	Unlikely	Medium	Low
		Short term – construction workers	Low	Medium	Moderate / low
On-site aggressive ground conditions	Contact with buried structures	Construction materials	Low	Medium	Moderate / low
Shaft on site/site boundary	Subsidence	Built environment	Low	Severe	Moderate
On & off-site ground gas	Build-up in confined spaces	Long term – future site users	Likely	Severe	High
		Short term – construction workers	Likely	Severe	High

In summary, the site would appear to have a moderate to low risk of causing harm to controlled waters and a moderate risk to the built environment. Based on the proposed commercial end uses, the CSM indicates a potential high risk to human health, principally due to the potential for

elevated levels of ground gases, but also due to the potential presence of contaminants within near surface materials.

There is potential for ground gas from coal seams beneath the site to migrate to the surface through the mine shafts or from fractures in the rock, however, the shafts are capped and small-scale faults/subsidence in the vicinity of the site have not been proven. Ground gas originating from the spoil heaps to the north-east and south of the site could potentially migrate and affect the site. The effects of ground gas to the site may be reduced by the ongoing extraction of methane from shaft 2 to the west of the site by the power station, this may induce negative pressure to the other shafts and decrease the risk.

9.0 CONCLUSIONS & RECOMMENDATIONS

9.1 Conclusions

The information obtained has been used to inform a preliminary risk assessment taking into account all of the potential sources of contamination, the receptors that are (or will be) in the area, and the potential contaminant pathways.

The risk assessment has identified:

- A potential high risk to future site occupiers,
- A potential high risk to construction workers,
- A moderate to low risk to controlled waters,
- A moderate risk to vegetation/building foundations,

The Phase I investigation has noted potential geo-environmental risks as follows: -

- The evolution of ground and mine gas from beneath the site and the adjacent infilled land,
- Aggressive ground conditions from the oxidation of coal,
- Petroleum hydrocarbons from former use,
- Subsidence/micro-faulting around the mine shaft.

9.2 Recommendations

For the Phase II investigation it is recommended that a site investigation be undertaken. The specific aims of the preliminary site investigation should be:

- To monitor levels of ground gas on the site,
- To analyse the chemical properties of the made ground (including asbestos),
- To identify the extent and level of shaft caps and any other below ground structures from the former use of the site that may be present,
- To ascertain the depth to the rock and allow a suitable stand-off from the shafts to be agreed.

To further development design the intrusive investigation should identify the following:

- The suitability of the ground for infiltration drainage,
- To obtain the geotechnical parameters of the ground for development design,
- CBR values for road design.

APPENDIX A

Site Location Plan



SCALE 1:25000



SCALE 1:50000

NGR: 446436, 405337

In accordance with CDM Regulations 7, 11 and 18, any significant risks (as defined in the Approved Code of Practice paragraph 133) relating to the design features shown on this drawing have been identified and are annotated thus: 

☒ No significant risks have been identified.

☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature		Date	
Rev.	Description	Vfd	Date
1			
2			
3			

Project Hickleton Main Colliery, Thurnscoe			
Client Priority Space Ltd			
Title Site Location			
Drawing Status Information			
Drawn WD	Date Feb 2016	Scale As shown	W A4
Discipline Civil	Project Number 11525	Drawing Number	Revision

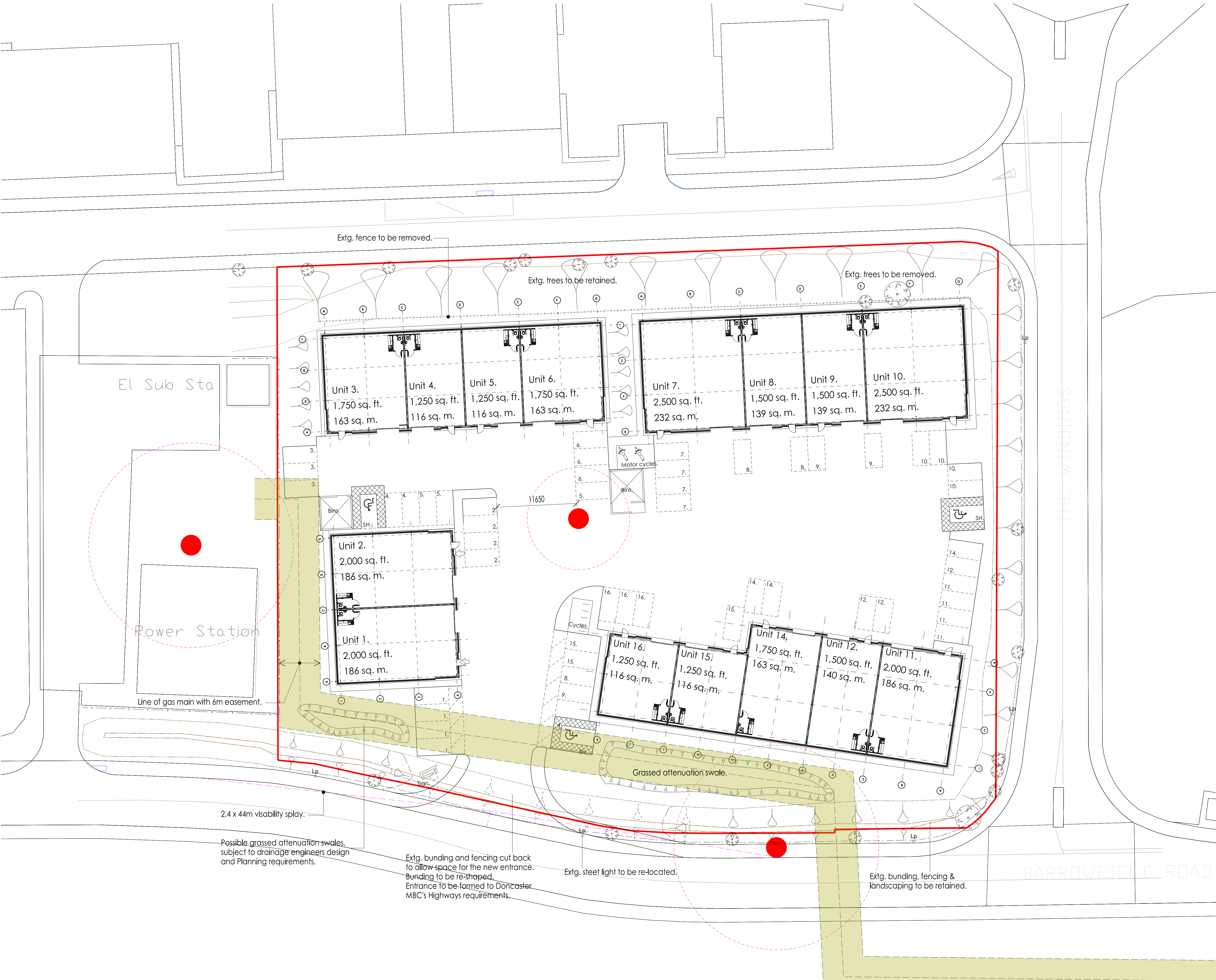
williamsaunders
architecture: engineering: building consultancy

Sheppard Lockton House Tel: 01636 704361
Cafferata Way Fax: 01636 702609
Newark-on-Trent W: wm-saunders.co.uk
Nottinghamshire, NG24 2TN

Also at Leeds, Carciff, Warksworth

Wm Saunders is the trading name of Wm Saunders Partnership LLP. Wm Saunders Partnership Limited Liability Partnership is registered in England and Wales with the Registration number OC 308393. The Registered Office is Sheppard Lockton House, Cafferata Way Newark-on-Trent, Notts, NG24 2TN.

This drawing & any design thereon is the copyright of Wm Saunders Partnership LLP and must not be reproduced without their written consent. Contractors must verify all dimensions, levels & co-ordinates at the site before commencing any work or making any shop drawings; no dimensions to be taken from drawing.



Williams Saunders is the trading name of Wm Saunders Partnership LLP. Wm Saunders Partnership United Liability Partnership is registered in England and Wales with the Registration number OC 38823. The Registered Office is Sheppard Lockton House, Cafferata Way, Newark on Trent, Notts, NG24 2TN.

This drawing & any design thereon is the copyright of Wm Saunders Partnership LLP and must not be reproduced without their written consent.

Contractors must verify all dimensions, levels and co-ordinates of the site before commencing any work or making any shop drawings: no dimensions to be taken from drawing.

Block.	Site Area.	Total GIA.
Phase 1	0.853 Acres 0.345 Hectares	10,000 sq.ft. 929 sq.m.
Phase 2	1.278 Acres 0.517 Hectares	15,500 sq.ft. 1,440 sq.m.
Total	2.130 Acres 0.862 Hectares	25,500 sq.ft. 2,369 sq.m.

Existing Mine Shaft - dotted line shows 30m no build exclusion zone.

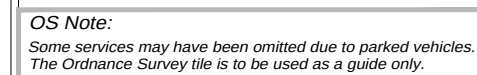
Unit	Area Sq.m	Area Sq.Ft	Car Parking
1	186	2,000	4
2	186	2,000	4
3	163	1,750	3
4	116	1,250	3
5	116	1,250	3
6	163	1,750	3
7	232	2,500	4
8	139	1,500	3
9	139	1,500	3
10	232	2,500	4
11	186	2,000	4
12	140	1,500	3
14	163	1,750	3
15	116	1,250	3
16	116	1,250	3
SH Dis'			3
Total	2,393	25,750	53

P3	Site plan updated. Floor plans added. Motor cycles added.	SW	NAC	07/18
P2	Additional parking for units 4 & 5.	SW	NAC	07/18
P1	Issued for Planning	SW	NAC	07/18
Rev	Description	Drm	Vfd	Date
As outlined in section 2.3 of the CIB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: 				
☒ No significant risks have been identified.				
☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.				
Refer to the Current Designer's Risk Assessment sheets for further details.				
Designer's Signature		NAC.	Date 07/18	

Drawing Status
PLANNING

williamsaunders
architecture: engineering: building consultancy
Sheppard Lockton House
Cafferata Way
Newark-on-Trent
Nottinghamshire, NG24 2TN
Tel: 01636 704361
Fax: 01636 702809
W: wms-saunders.co.uk
Also at Leeds, Lincoln, Wlrskworth

Project	Proposed Development at former Hickleton Colliery, Thurnscoe, Barnsley.							
Client	Priority Space Ltd.							
Title	Proposed Site Plan.							
WmS Project Ref.	11525	Drawn	SW	Date	07/18	Scale	1:250	@ A1
Drawing/Document Reference								
Project	Originator	Zone	Level	Type	Role	Number	Status	Rev.
11525	WMS	XXX	XX	DR	A	10001	S2	P3

OS Buildings Surveyed Buildings

This survey has been orientated to the Ordnance Survey (O.S) National Grid OSGB36(15) via Global Navigational Satellite Systems (GNSS) and the O.S. Active Network (OS Net).

A true OSGB36 coordinate has been established near to the site centre via a transformation using the OSTN15GB & OSGM15GB transformation models.

The survey has been correlated to this point and a further one or more OSGB36 (15) points established to create a true O.S. bearing for angle orientation.

No scale factor has been applied to the survey therefore the coordinates shown are arbitrary & not true O.S. Coordinates which have a scale factor applied.

Please refer to Survey Station Table to enable establishment of the on-site grid and datum.

[illegible]

Rev	Date	Description	Drawn	O. Ref.
-----	------	-------------	-------	---------



- ❑ Topographical Surveys
- ❑ Site Engineering
- ❑ Utility / CCTV Surveys
- ❑ Measured Building Surveys
- ❑ 3D Laser Scanning
- ❑ Revit & BIM Models

Rowan House
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admin@greenhatch-group.co.uk
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St Albans Unit B, The Courtyard Alban Park St Albans Hertfordshire AL4 0LA t. (01727) 854481	Newcastle 24 Riverside Studios Amethyst Road Newcastle Bus. Park Newcastle-U-Tyne NE4 7YL t. (01912) 736391	Poland ul. Panewnicka 91 40-761 Katowice Poland t. 0048 32 202 2292 www.greenhatch.pl
--	---	---

CLIENT

**Wm Saunders
Partnership LLP**

PROJECT

**The Windings
Thurnscoe
S63 0BH**

TITLE	
-------	--

Topographical Survey

SCALE

@ 1: 500

DRAWN

JK2

--	--

Level datum

Grid orientation

Job number

No.

36504

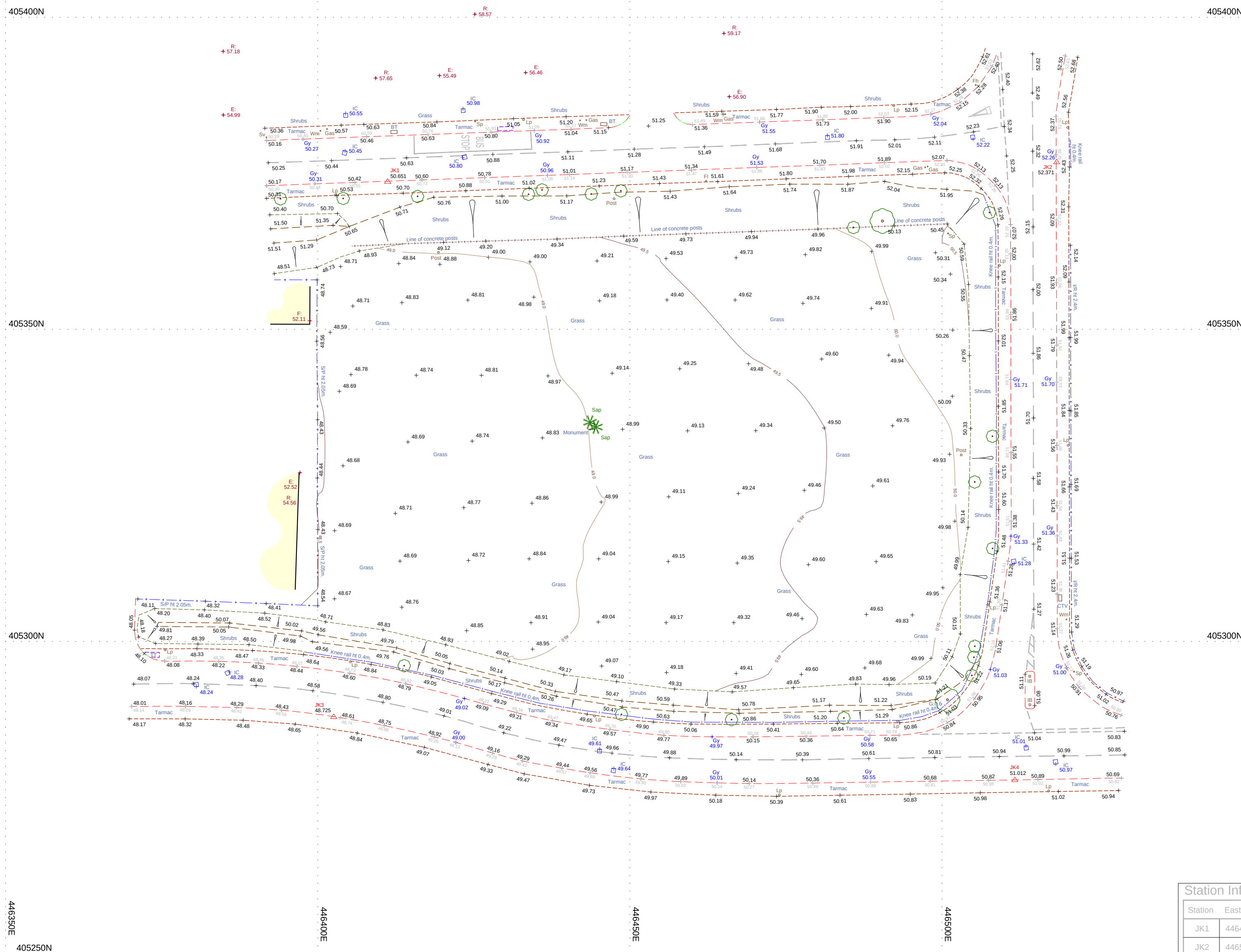
--	--

Comments
This plan should only be used for its original purpose. Greenhatch Group accepts no responsibility for this plan if supplied to any party other than the original client.

All dimensions should be checked on site prior to design and construction.

Drainage information (where applicable) has been visually inspected from the surface and therefore should be treated as approximate only.

Notes:



Station Information:

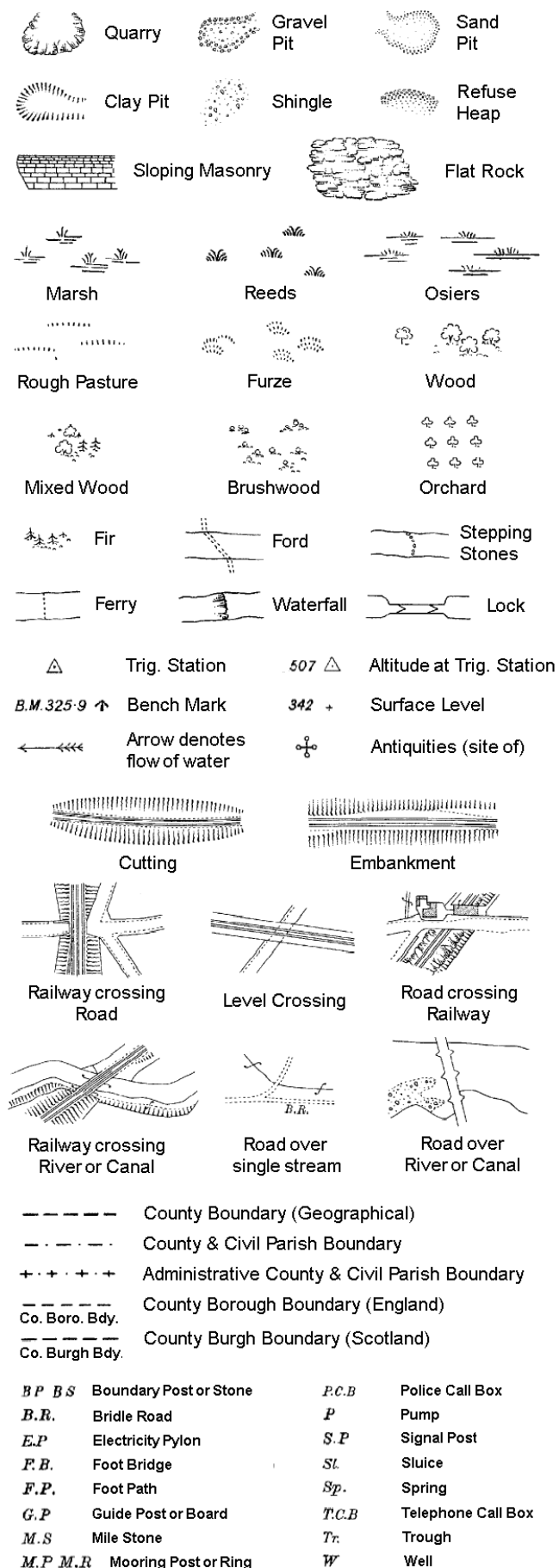
Station	Easting (m)	Northing (m)	Level (m)
JK1	446411.193	405373.676	50.651
JK2	446518.369	405376.809	52.371
JK3	446402.550	405287.926	48.725
JK4	446511.675	405277.802	51.012

APPENDIX B

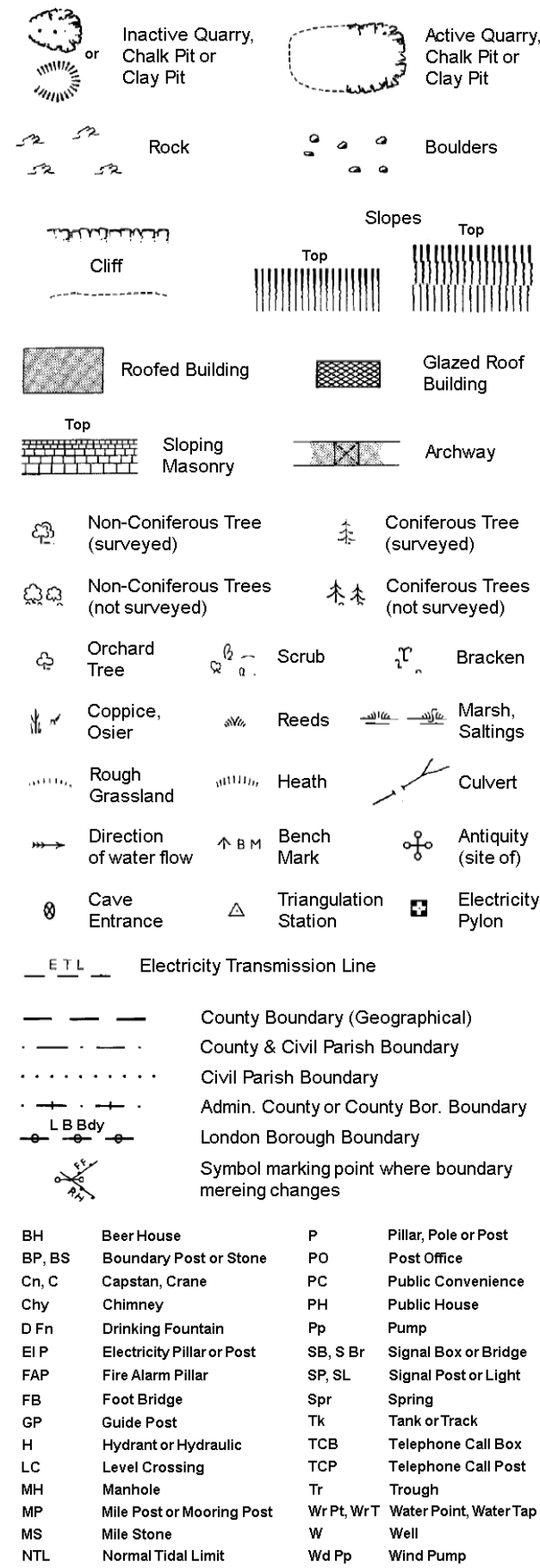
Historical Ordnance Survey Mapping

Historical Mapping Legends

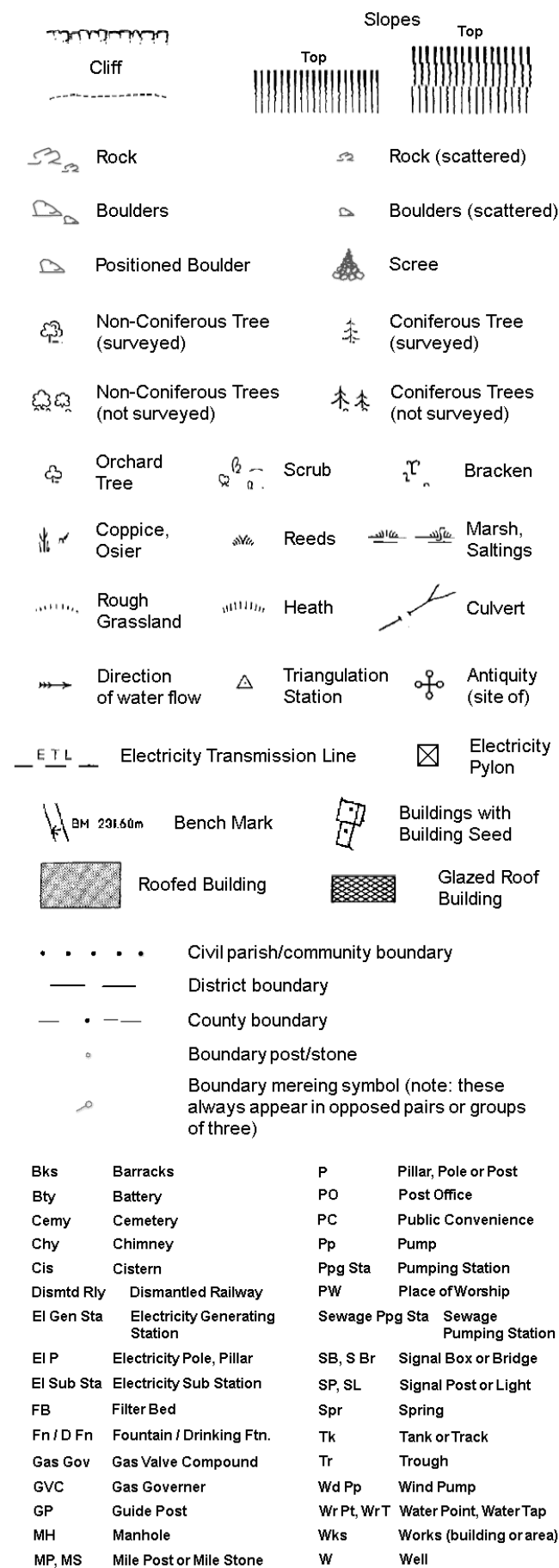
Ordnance Survey County Series and Ordnance Survey Plan 1:2,500



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



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

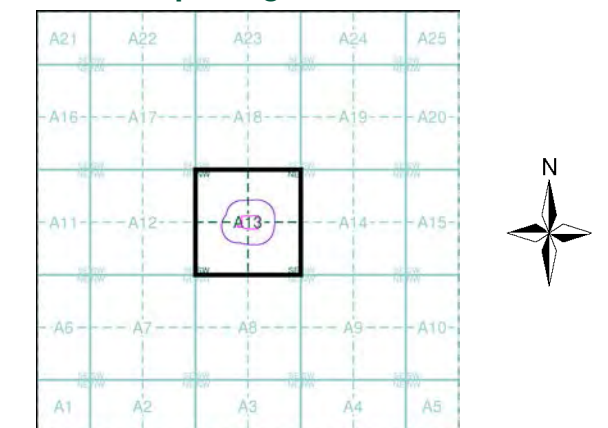


williamsaunders

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:2,500	1892	2
Yorkshire	1:2,500	1906	3
Yorkshire	1:2,500	1930	4
Ordnance Survey Plan	1:1,250	1962	5
Ordnance Survey Plan	1:2,500	1962	6
Additional SIMs	1:1,250	1962 - 1989	7
Ordnance Survey Plan	1:1,250	1973 - 1981	8
Additional SIMs	1:1,250	1983 - 1989	9
Additional SIMs	1:1,250	1991	10
Large-Scale National Grid Data	1:1,250	1993	11
Large-Scale National Grid Data	1:1,250	1993 - 1995	12
Historical Aerial Photography	1:2,500	1999	13

Historical Map - Segment A13



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster

Landmark
INFORMATION GROUP

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

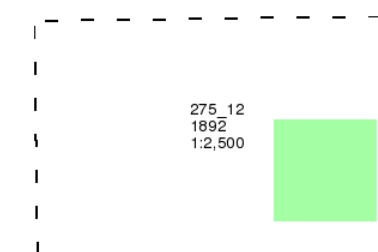
Yorkshire

Published 1892

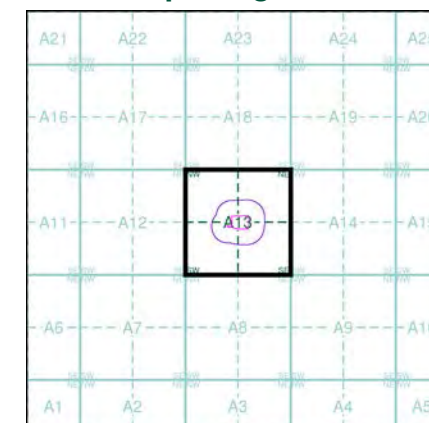
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

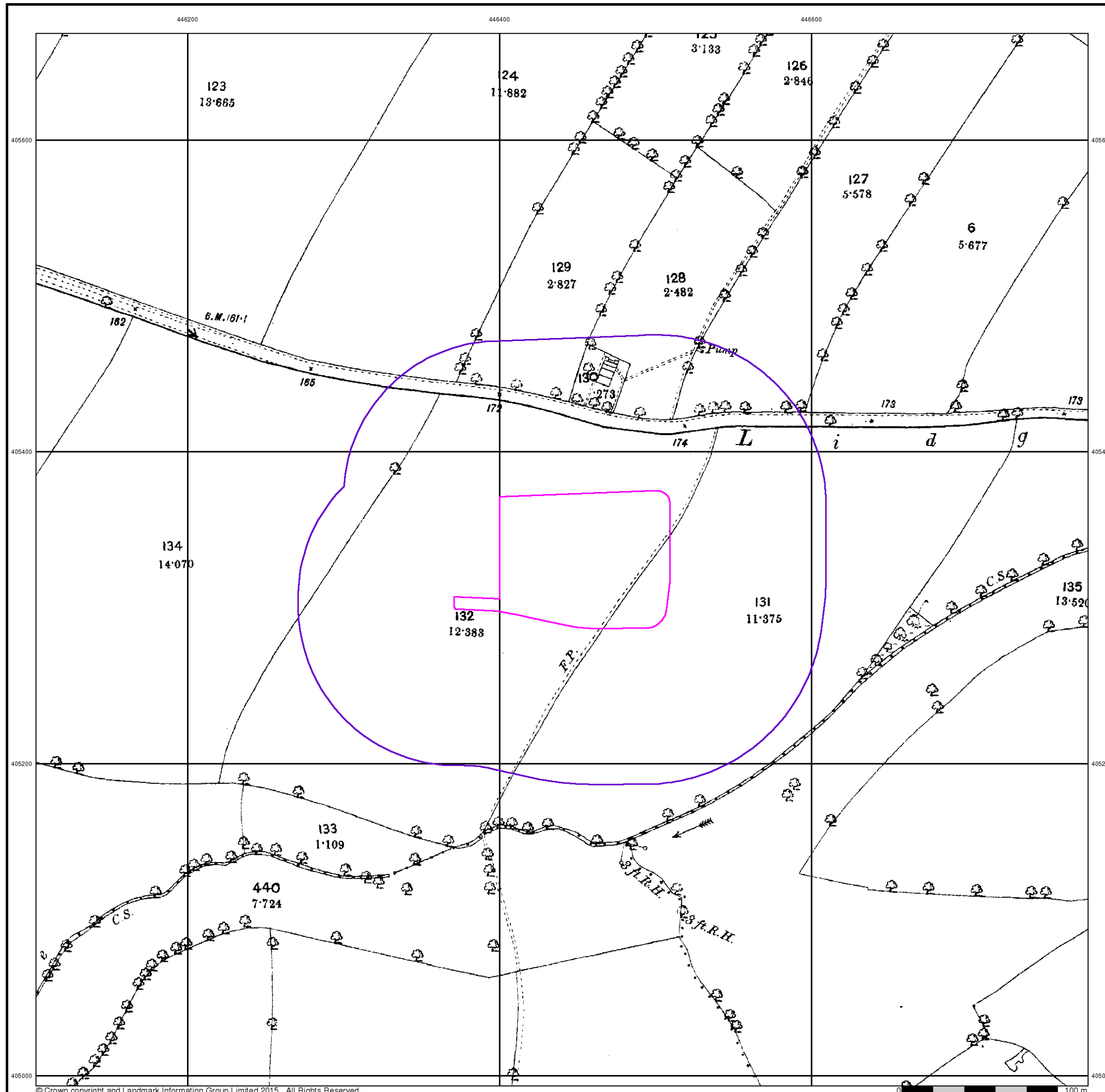


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



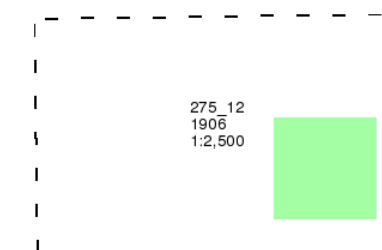
Yorkshire

Published 1906

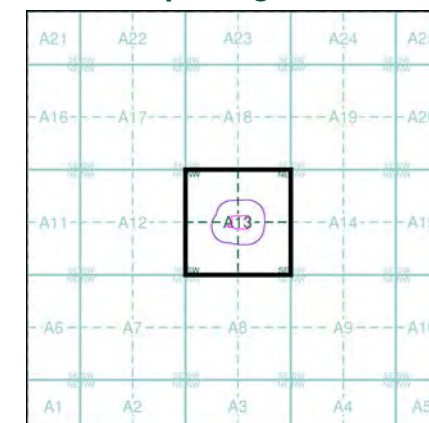
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

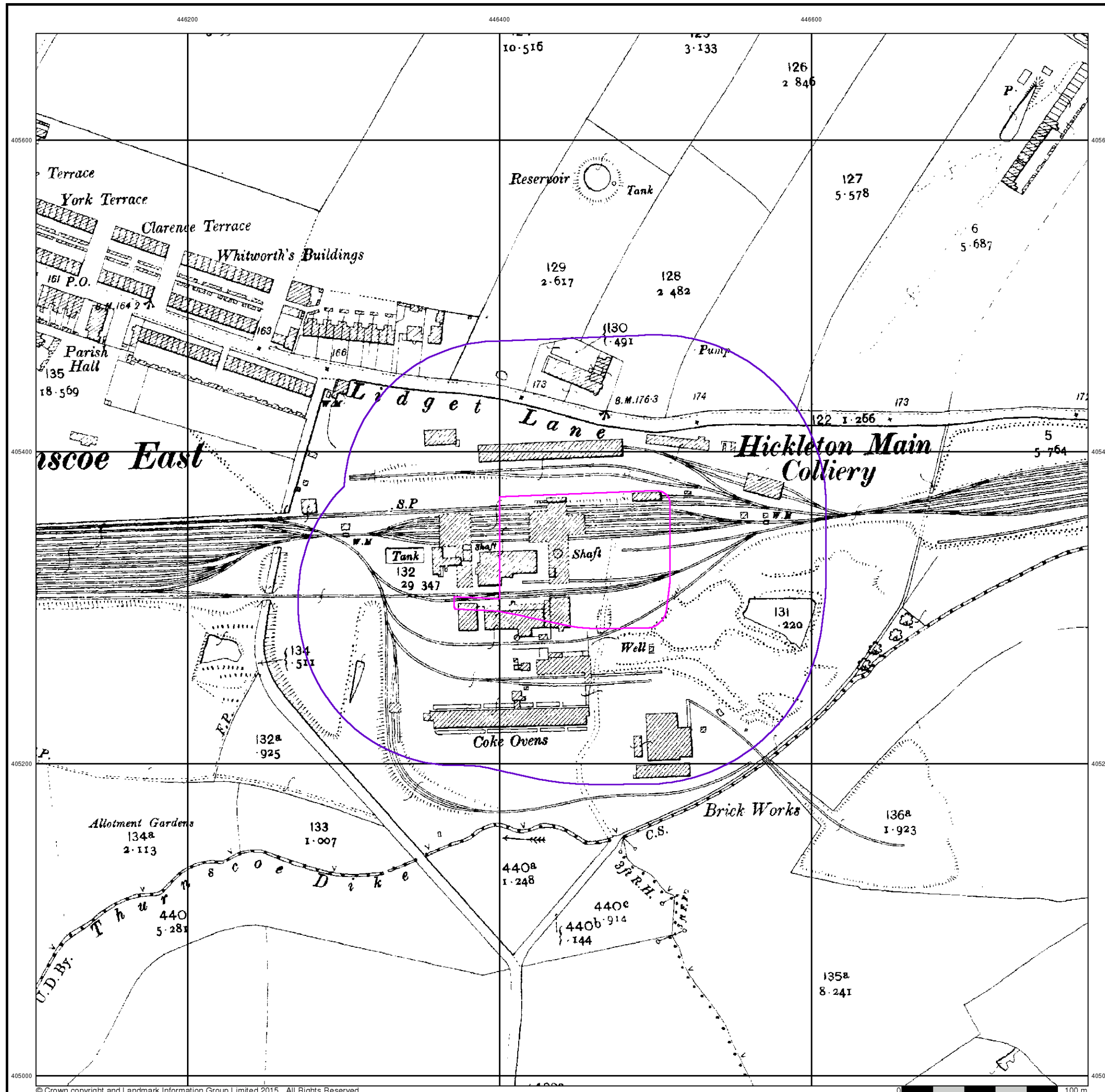


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



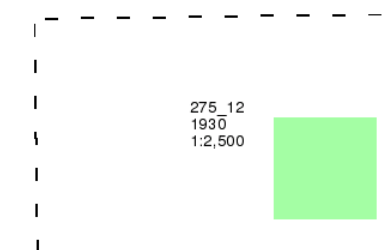
Yorkshire

Published 1930

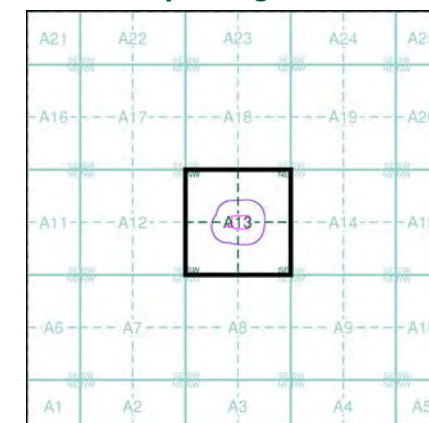
Source map scale - 1:2,500

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

Map Name(s) and Date(s)



Historical Map - Segment A13

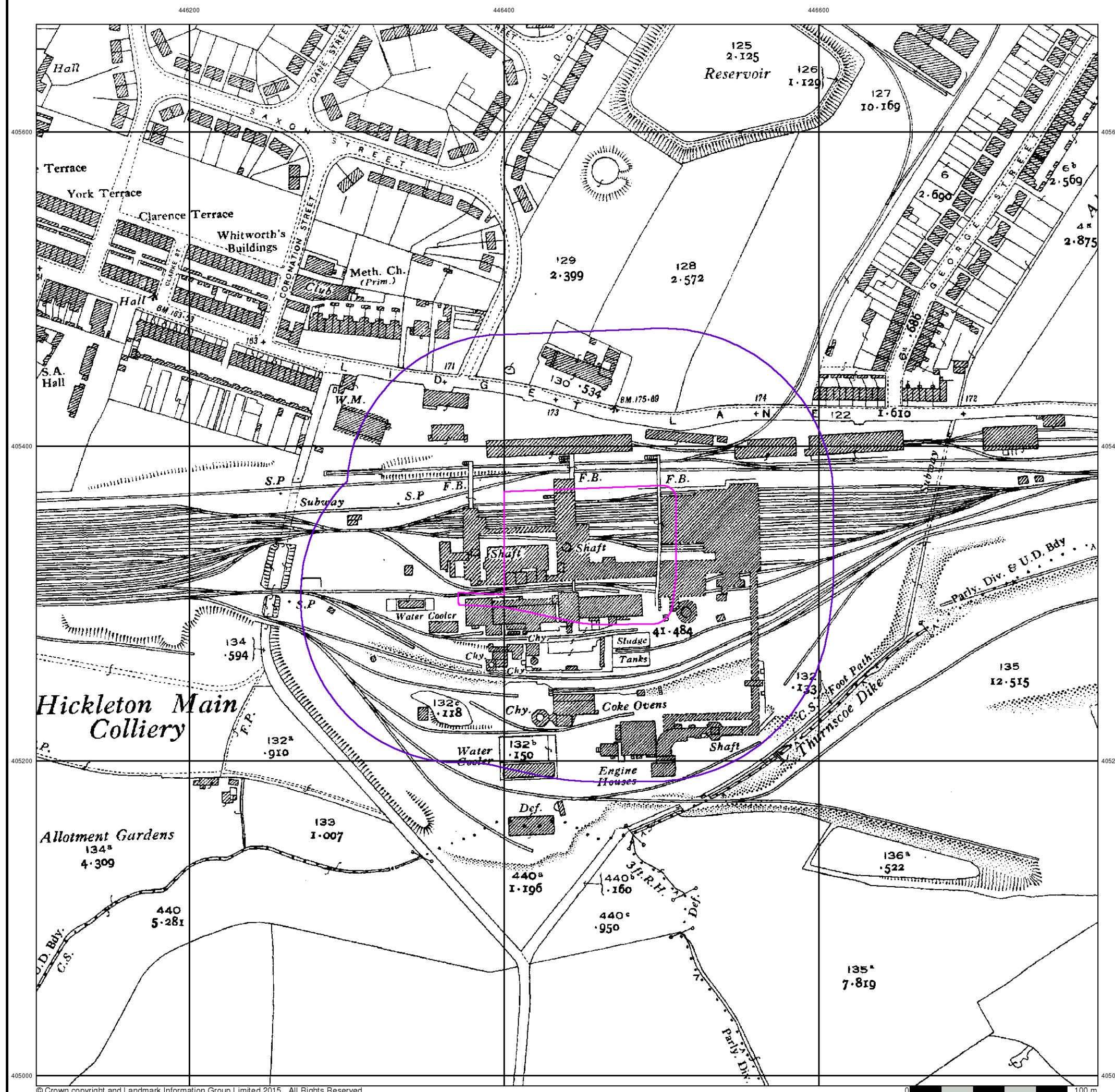


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Ordnance Survey Plan

Published 1962

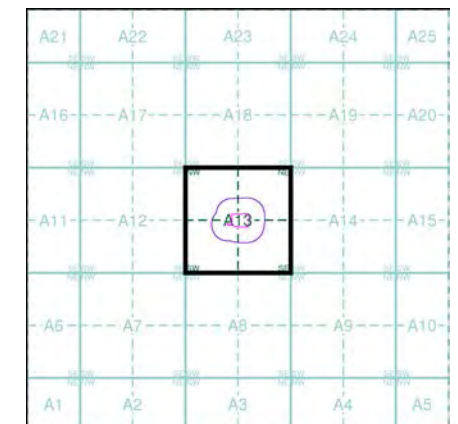
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

E4605NW	E4605NE
962	962
1:1,250	1:1,250
E4605SW	E4605SE
962	962
1:1,250	1:1,250
E4604NW	E4604NE
962	962
1:1,250	1:1,250

Historical Map - Segment A13

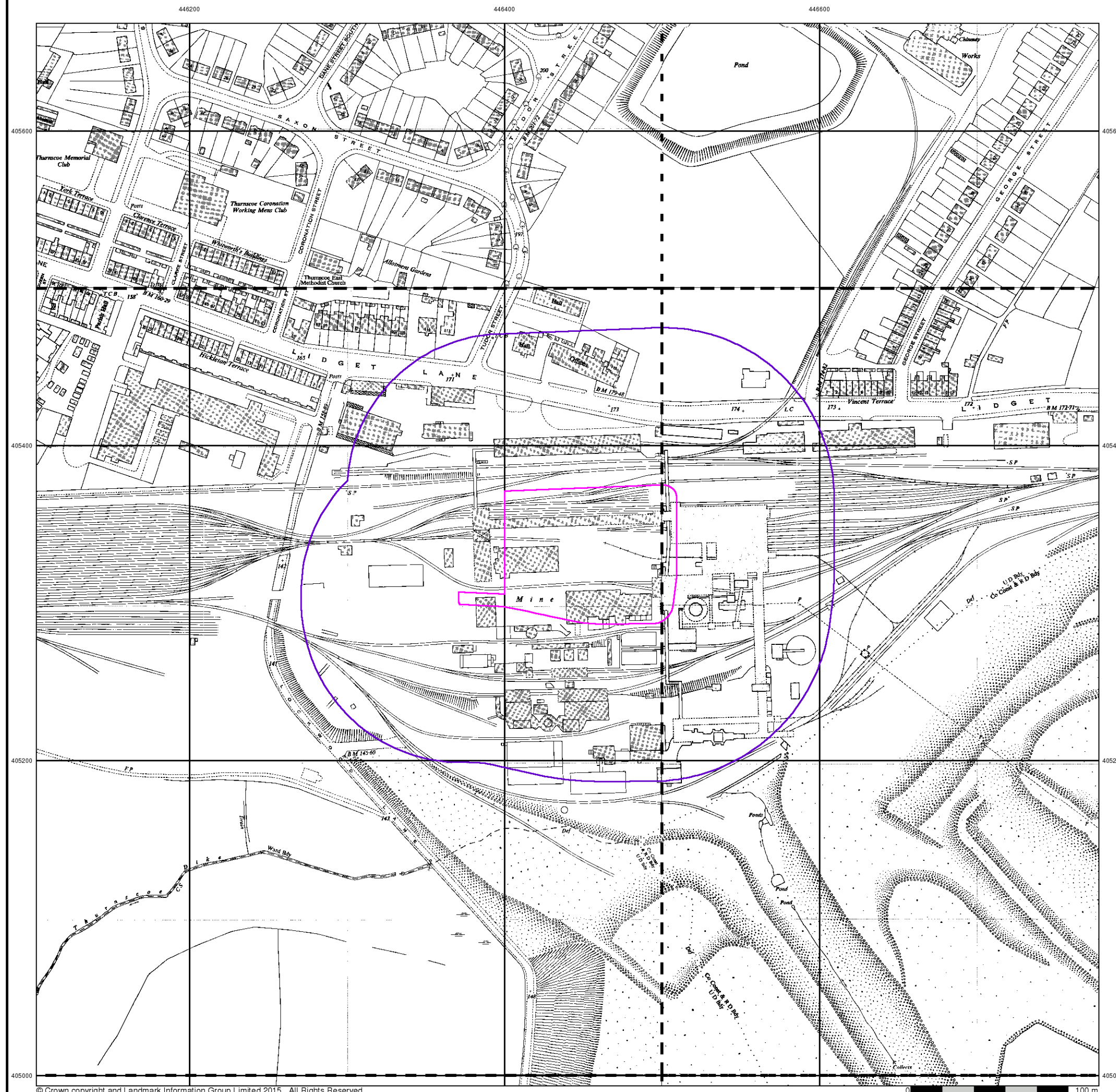


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Ordnance Survey Plan

Published 1962

Source map scale - 1:2,500

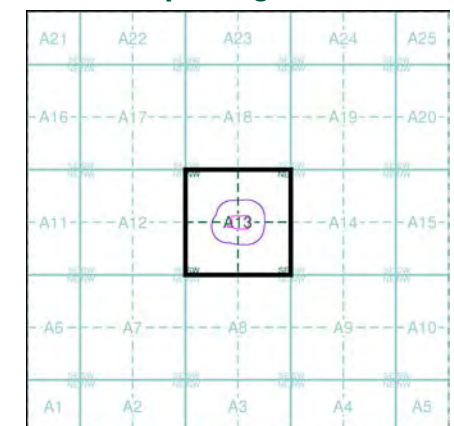
The historical maps shown were reproduced from maps predominantly held at the scale adopted for England, Wales and Scotland in the 1840's. In 1854 the 1:2,500 scale was adopted for mapping urban areas and by 1896 it covered the whole of what were considered to be the cultivated parts of Great Britain.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

Map Name(s) and Date(s)

SE4605
1962
1:2,500

SE4604
1962
1:2,500

Historical Map - Segment A13

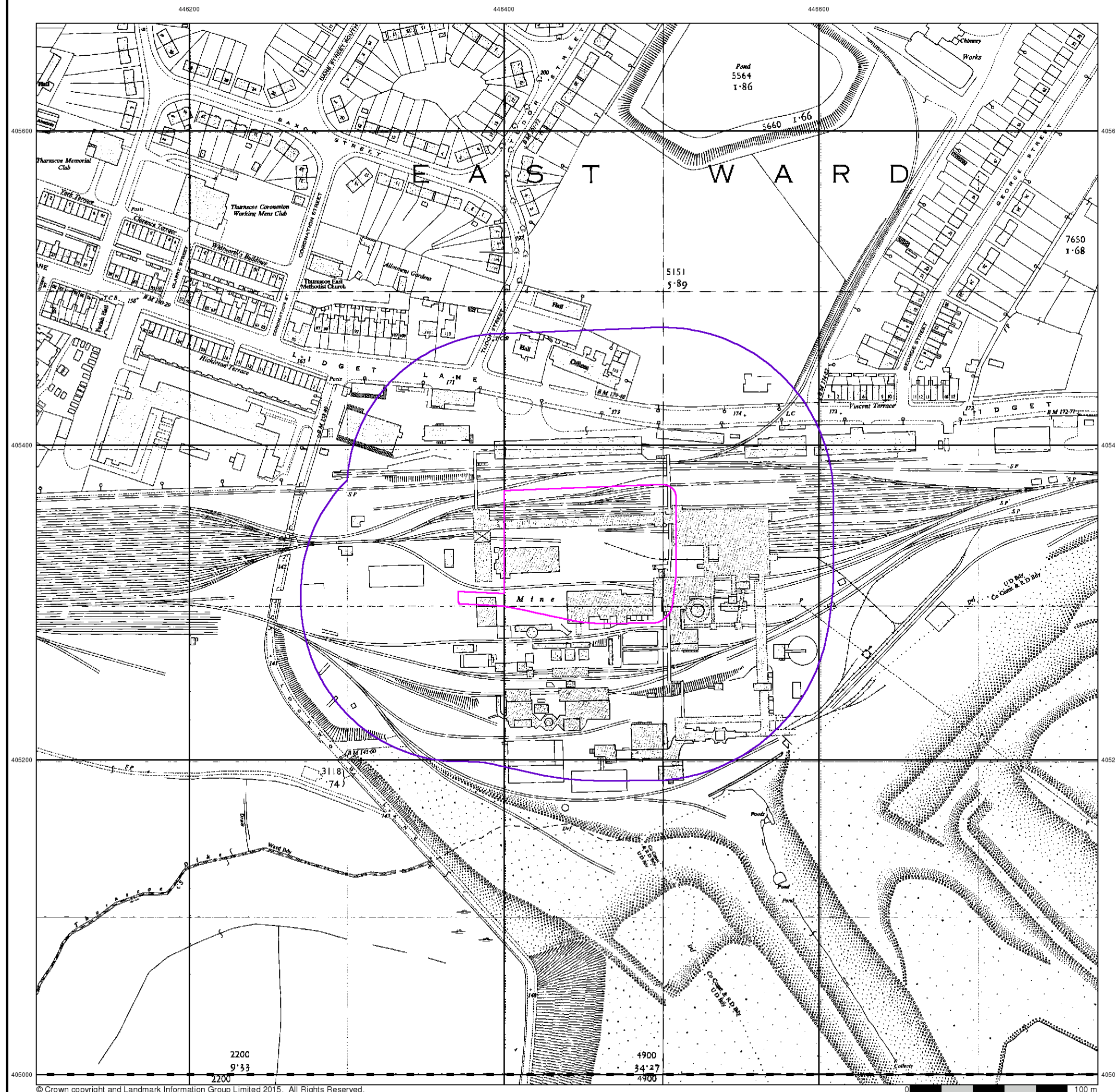


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Additional SIMs

Published 1962 - 1989

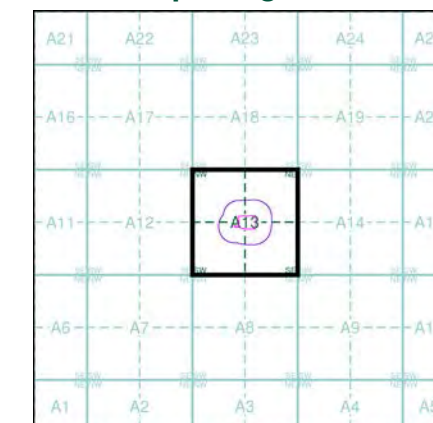
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

IE4605NW	IE4605NE
962	1962
1:1,250	1:1,250
IE4605SW	IE4605SE
984	1989
1:1,250	1:1,250
IE4604NW	
983	
1:1,250	

Historical Map - Segment A13

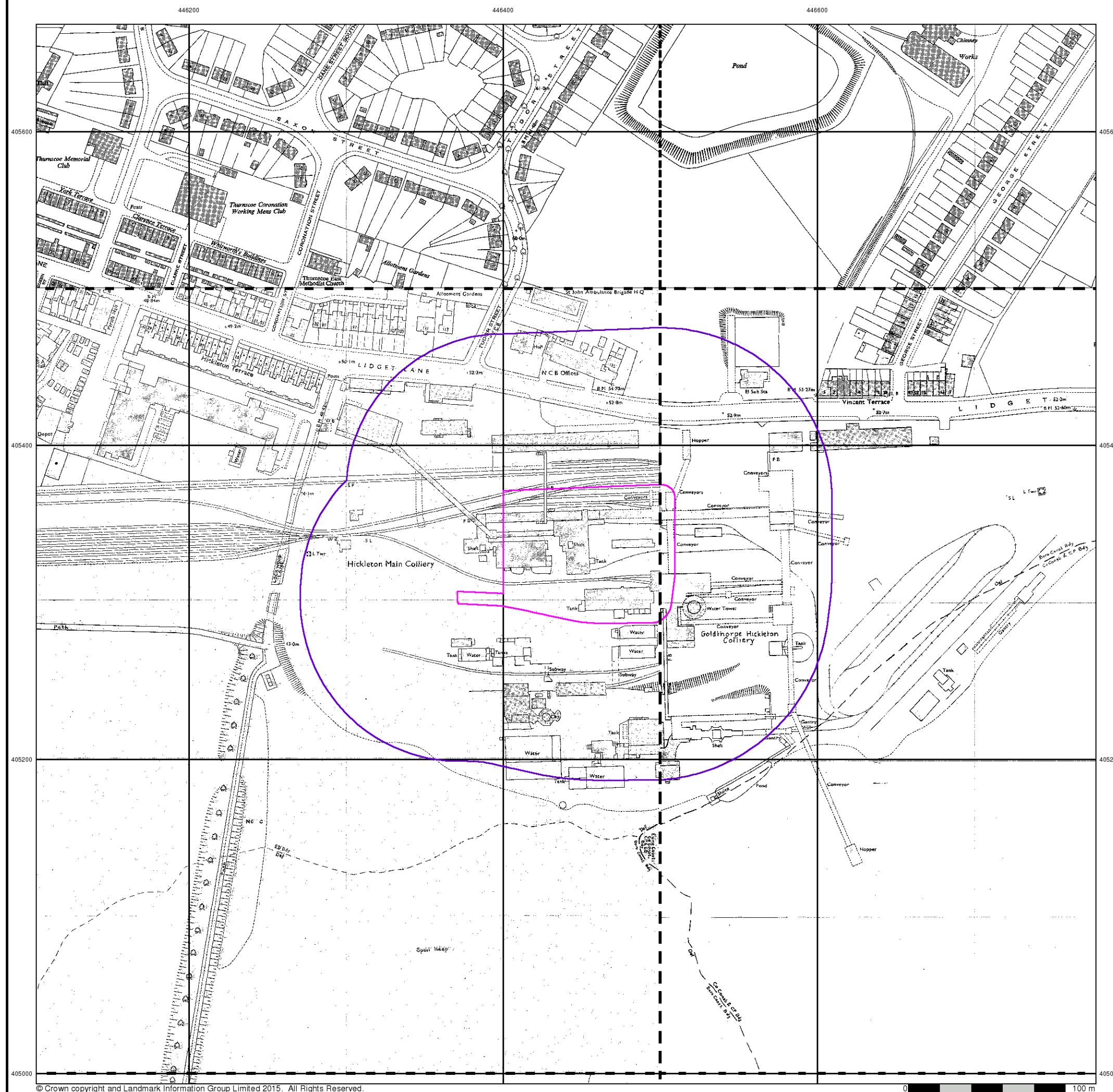


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Ordnance Survey Plan

Published 1973 - 1981

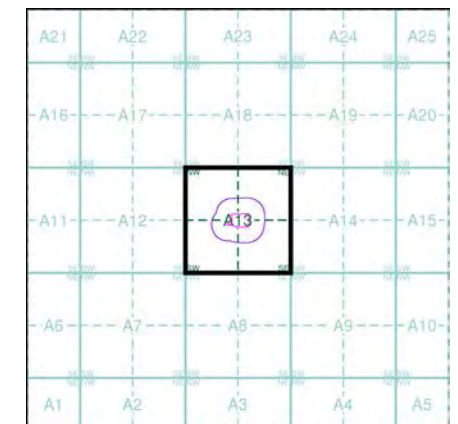
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SE4605SW	SE4605SE
1973	1973
1:1,250	1:1,250
	SE4604NE
	1981
	1:1,250

Historical Map - Segment A13



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Additional SIMs

Published 1983 - 1989

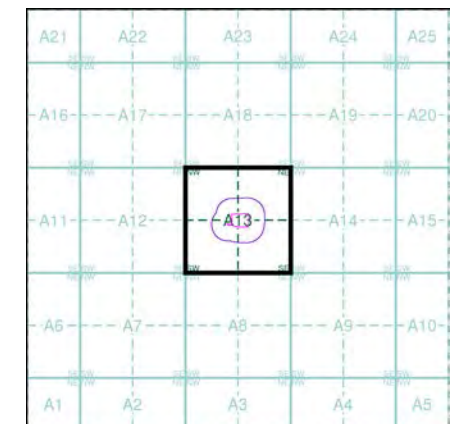
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SE4605NW	SE4605NE
1989	1983
1:1,250	1:1,250
SE4605SW	
1989	
1:1,250	

Historical Map - Segment A13

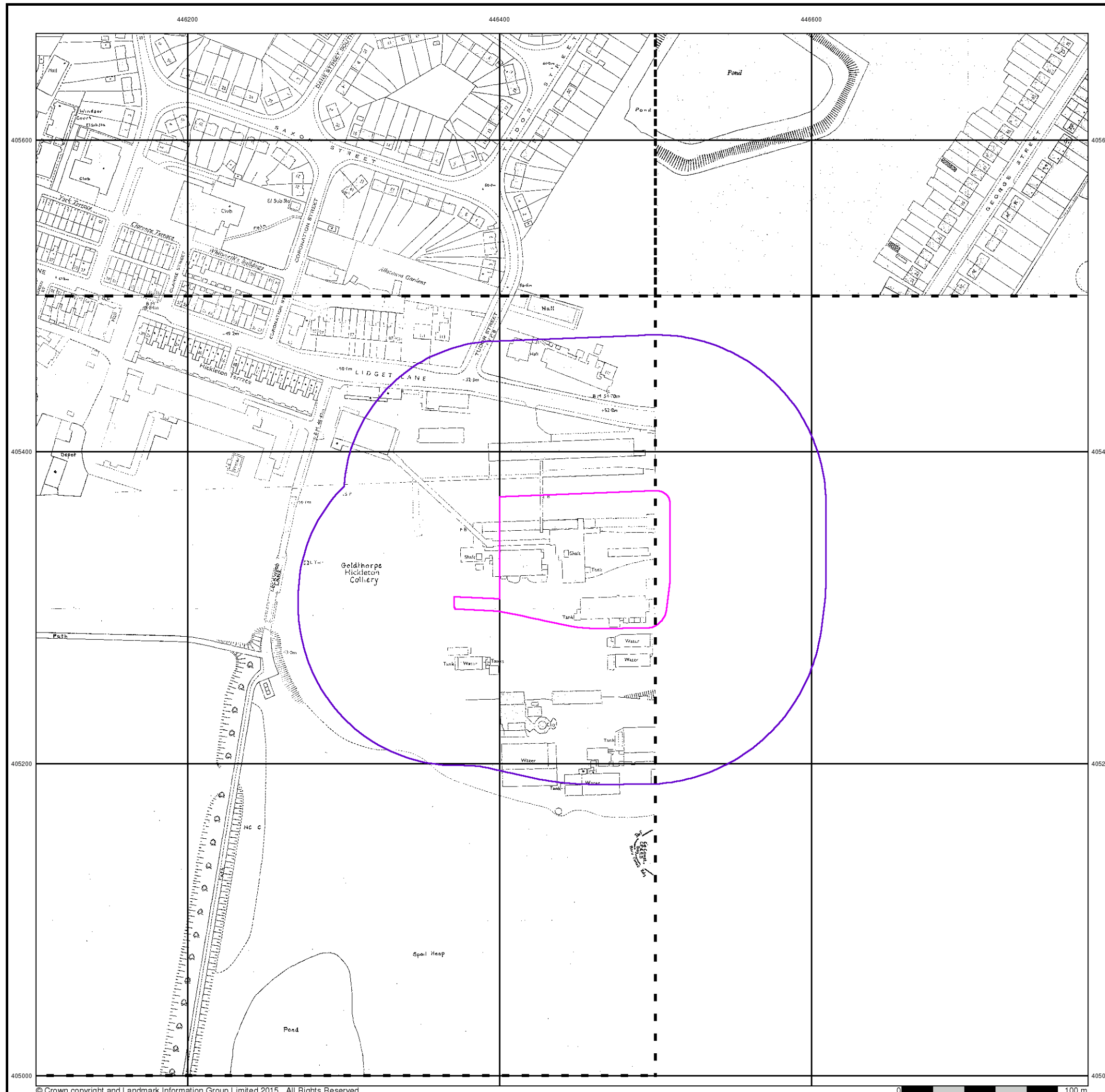


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Large-Scale National Grid Data

Published 1993

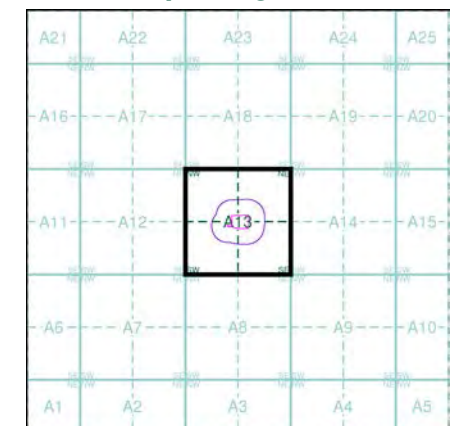
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

IE4605NW	IE4605NE
993	993
1:1,250	1:1,250
IE4605SW	IE4605SE
993	993
1:1,250	1:1,250
IE4604NW	IE4604NE
993	993
1:1,250	1:1,250

Historical Map - Segment A13

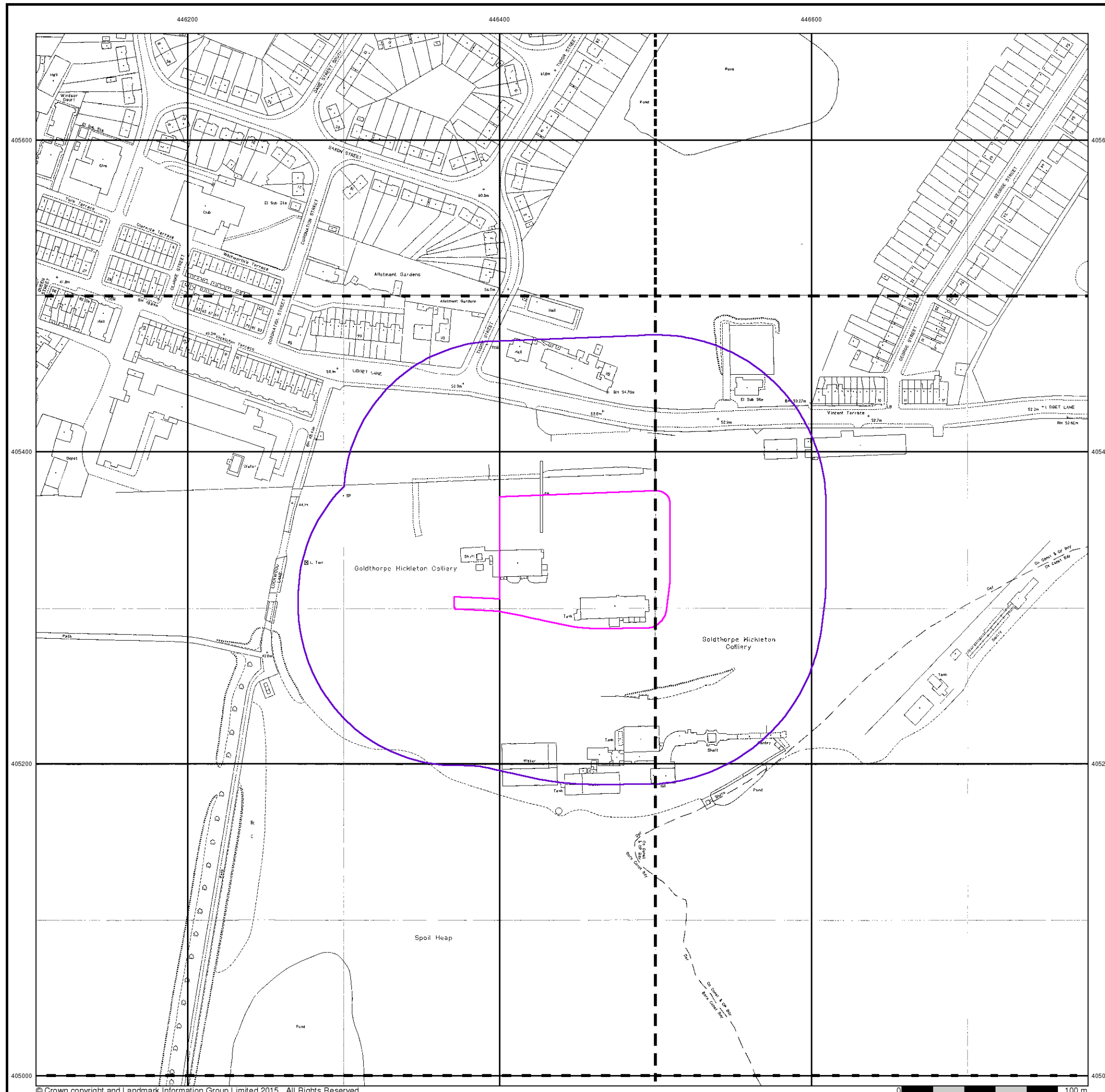


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster



Large-Scale National Grid Data

Published 1993 - 1995

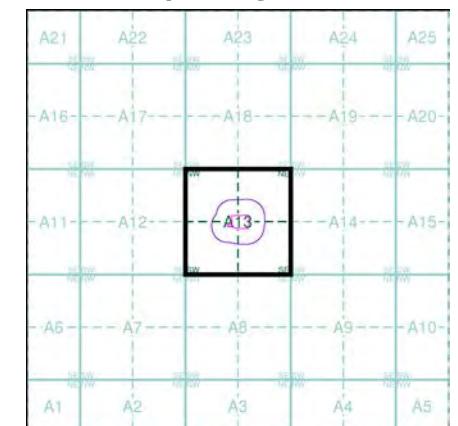
Source map scale - 1:1,250

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

Map Name(s) and Date(s)

SE4605NE
1993
1:1,250
SE4605SW
993
1:1,250
SE4604NWSE4604NE
995 1995
1:1,250 1:1,250

Historical Map - Segment A13

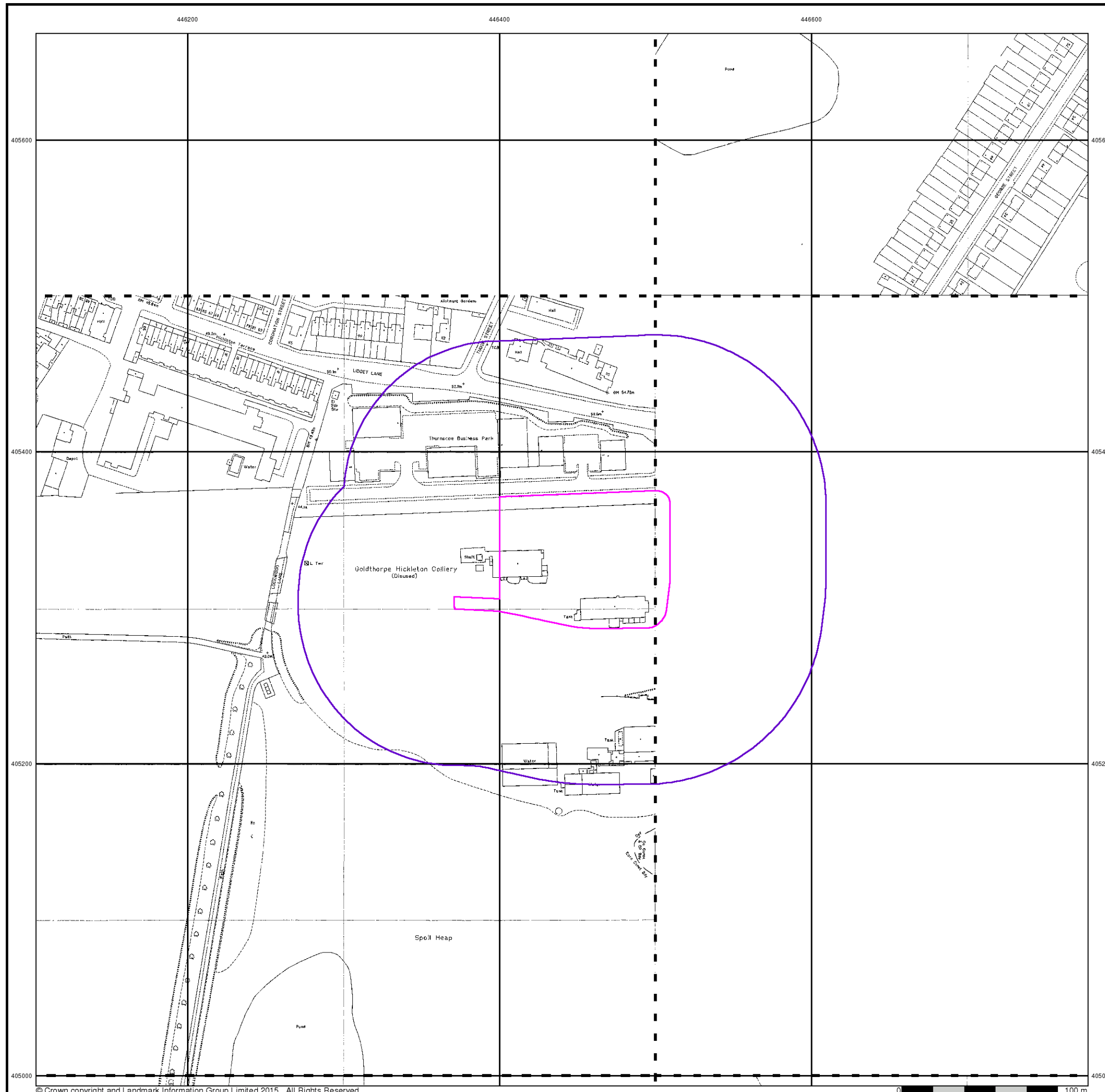


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 100

Site Details

Site at, Hickleton, Doncaster

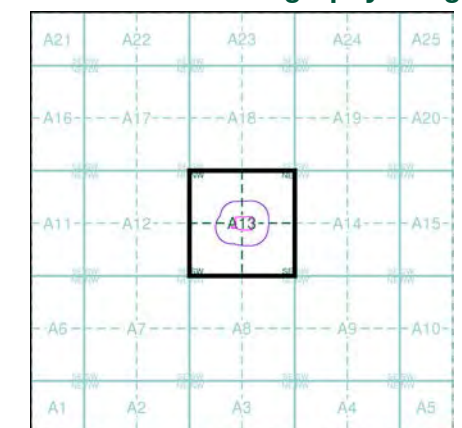


Historical Aerial Photography

Published 1999

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

Historical Aerial Photography - Segment A13



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 100

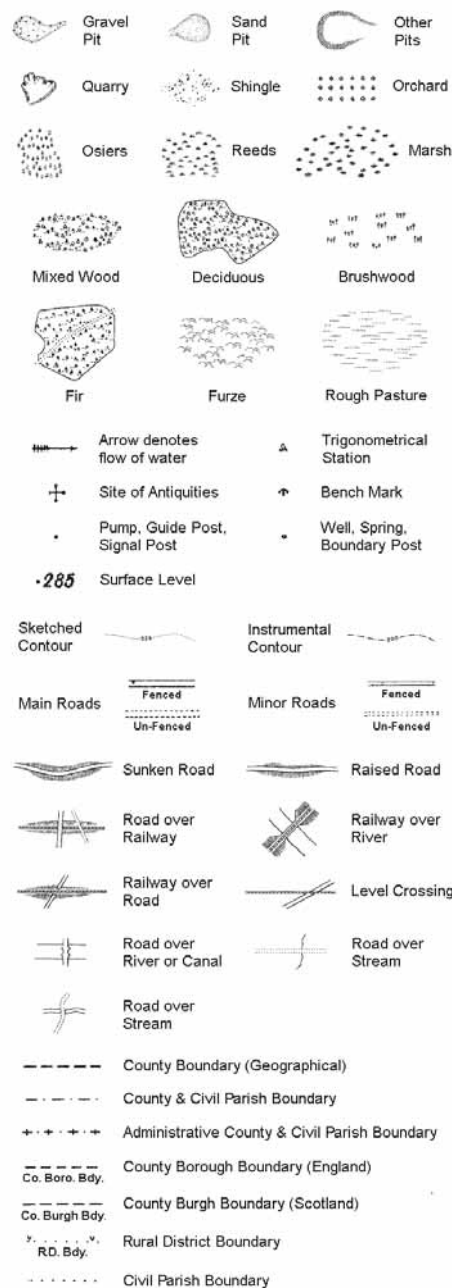
Site Details

Site at, Hickleton, Doncaster

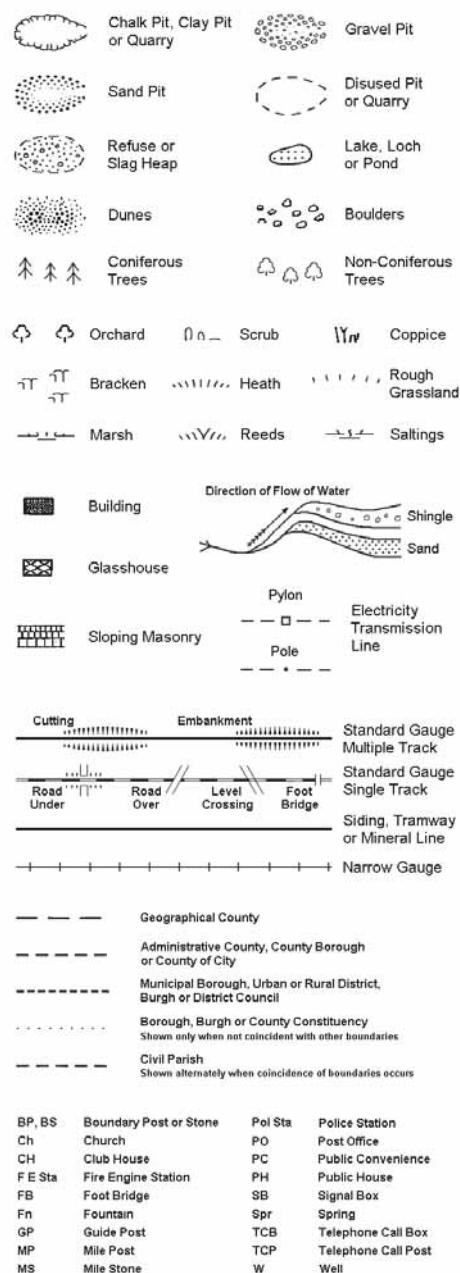


Historical Mapping Legends

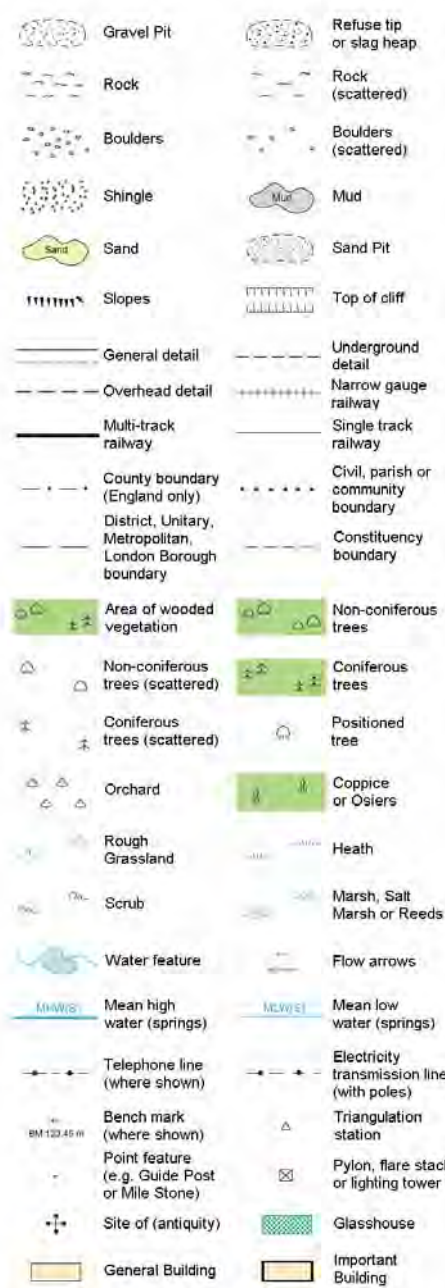
Ordnance Survey County Series 1:10,560



Ordnance Survey Plan 1:10,000



1:10,000 Raster Mapping

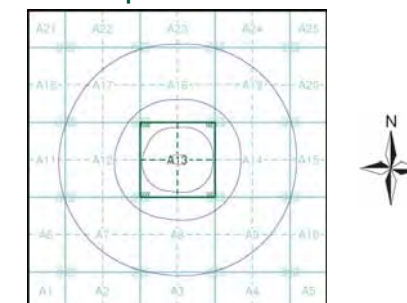


williamsaunders

Historical Mapping & Photography included:

Mapping Type	Scale	Date	Pg
Yorkshire	1:10,560	1851 - 1854	2
Yorkshire	1:10,560	1893	3
Yorkshire	1:10,560	1894	4
Yorkshire	1:10,560	1906 - 1907	5
Yorkshire	1:10,560	1931 - 1932	6
Yorkshire	1:10,560	1938 - 1948	7
Yorkshire	1:10,560	1948	8
Ordnance Survey Plan	1:10,000	1956	9
Ordnance Survey Plan	1:10,000	1966	10
Ordnance Survey Plan	1:10,000	1976	11
Ordnance Survey Plan	1:10,000	1983 - 1988	12
Ordnance Survey Plan	1:10,000	1991	13
10K Raster Mapping	1:10,000	2000	14
10K Raster Mapping	1:10,000	2006	15
VectorMap Local	1:10,000	2017	16

Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster

Landmark
 INFORMATION GROUP

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

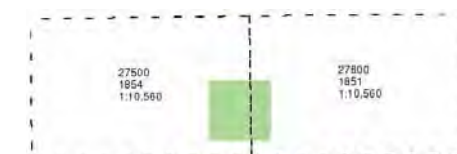
Yorkshire

Published 1851 - 1854

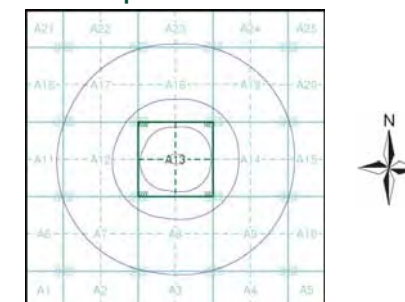
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

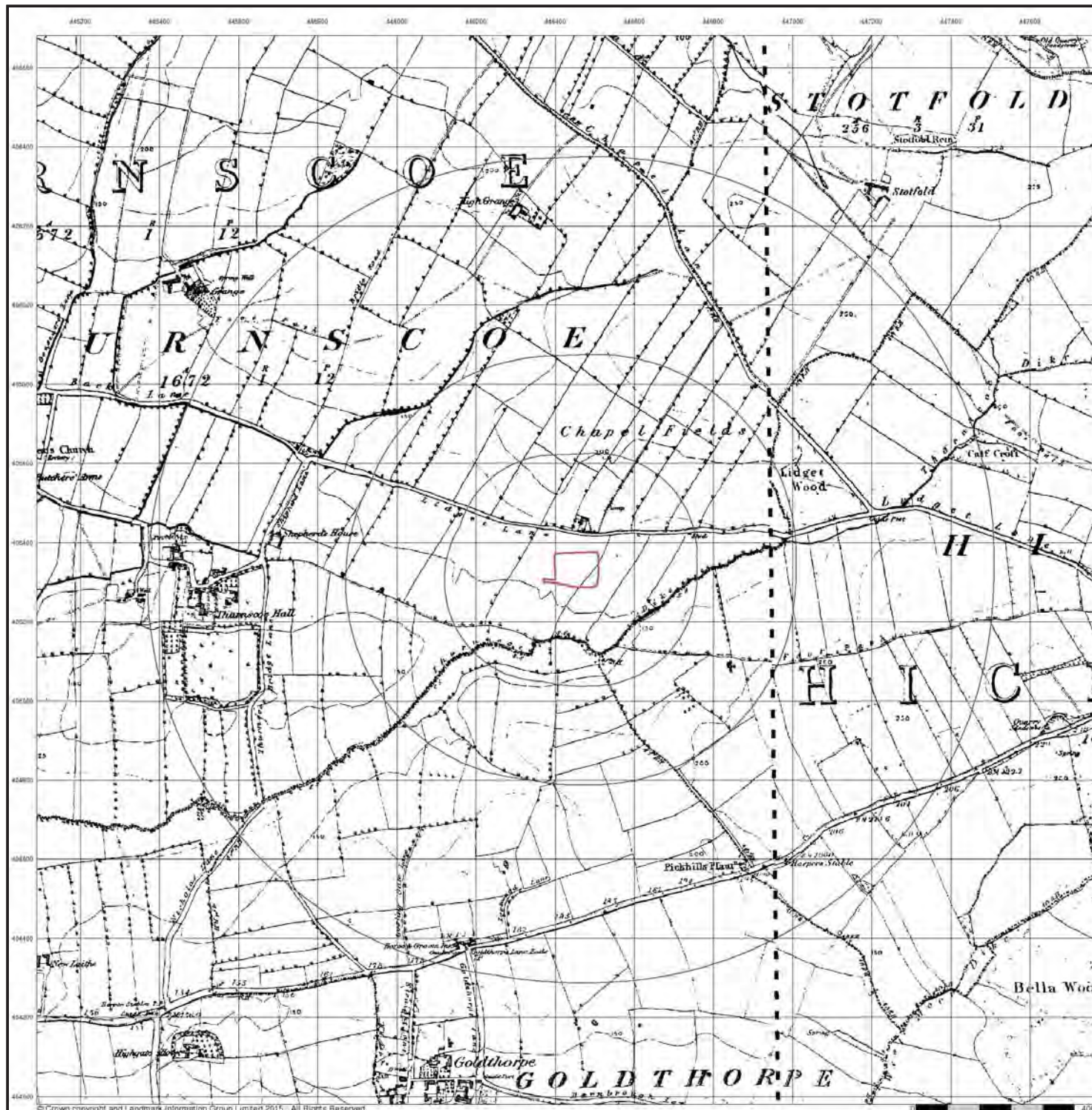


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



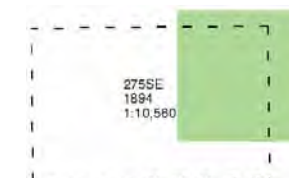
Yorkshire

Published 1894

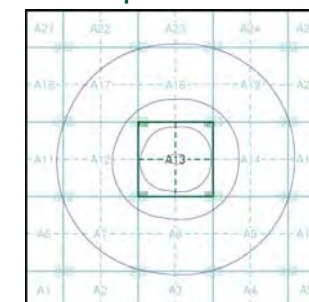
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

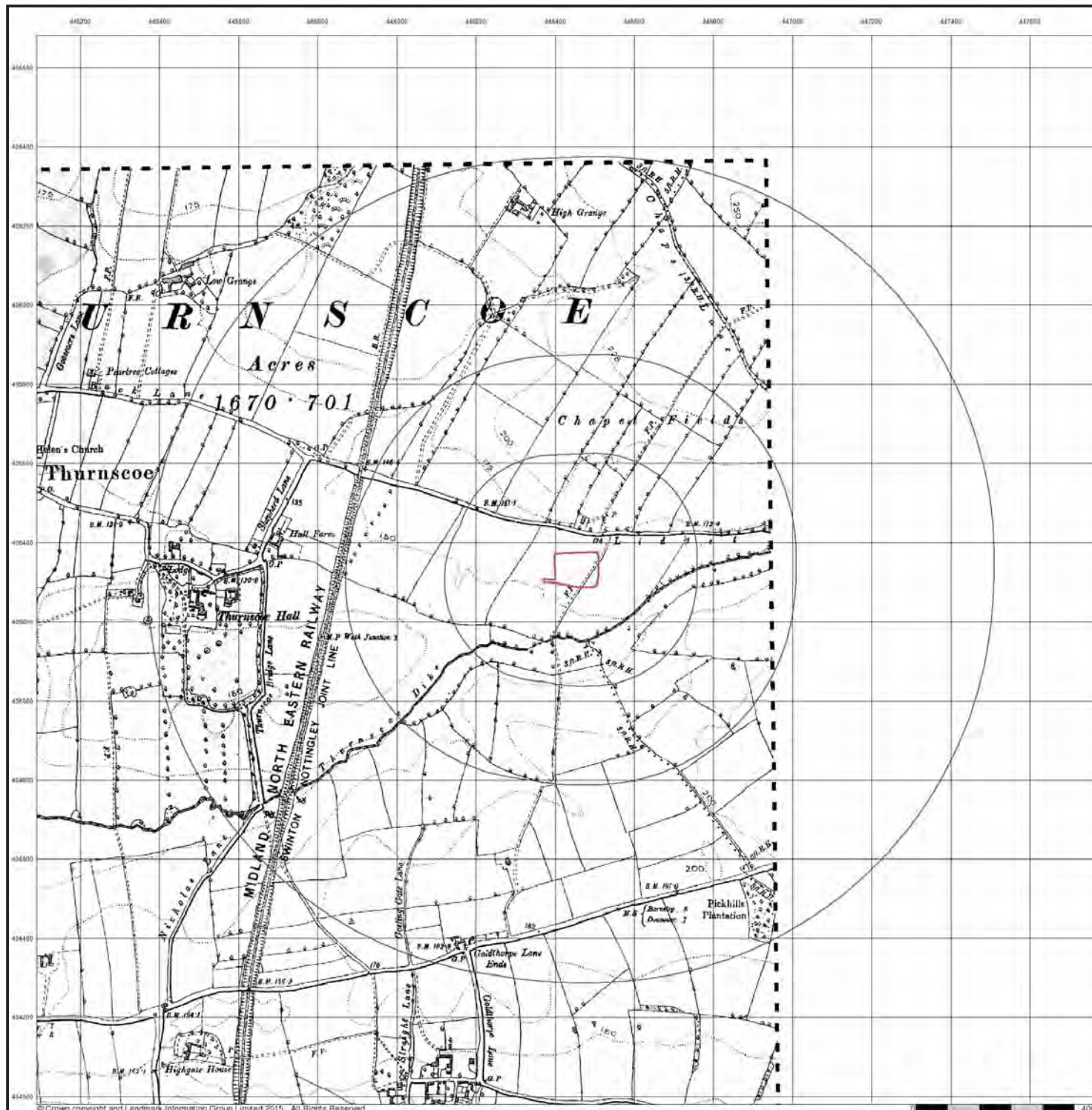


Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster





Yorkshire

Published 1906 - 1907

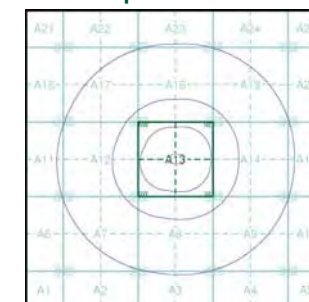
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

275NE 1907 1:10,560	276NW 1907 1:10,560
275SE 1908 1:10,560	276SW 1907 1:10,560

Historical Map - Slice A



Order Details

Order Number:	113395959_1_1
Customer Ref:	11525/8.2
National Grid Reference:	446450, 405330
Slice:	A
Site Area (Ha):	0.93
Search Buffer (m):	1000

Site Details

Site at, Hickleton, Doncaster

Landmark
INFORMATION GROUP

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

Yorkshire

Published 1931 - 1932

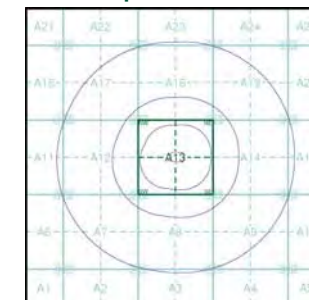
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

275NE 1932 1:10,560	276NW 1931 1:10,560
275SE 1931 1:10,560	276SW 1932 1:10,560

Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



Yorkshire

Published 1938 - 1948

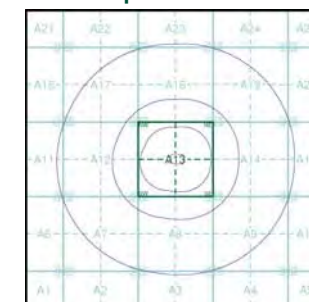
Source map scale - 1:10,560

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

Map Name(s) and Date(s)

275NE 1948 1:10,560	276NW 1948 1:10,560
275SE 1938 1:10,560	276SW 1948 1:10,560

Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



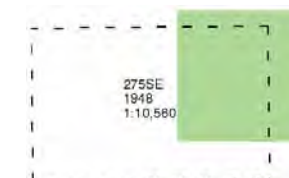
Yorkshire

Published 1948

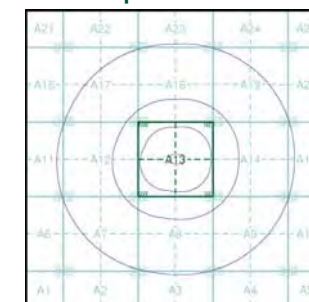
Source map scale - 1:10,560

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

Map Name(s) and Date(s)



Historical Map - Slice A

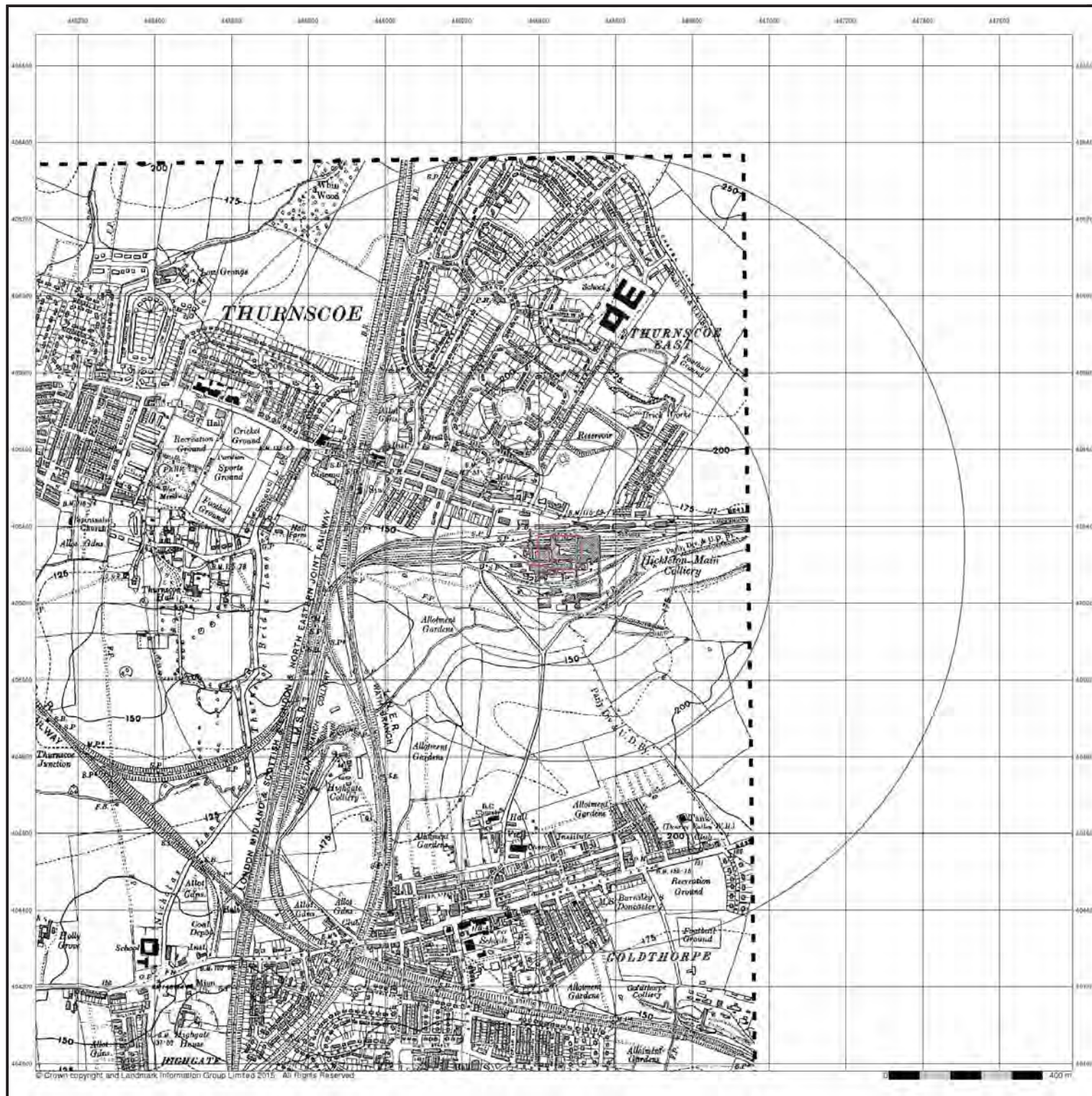


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



Ordnance Survey Plan

Published 1956

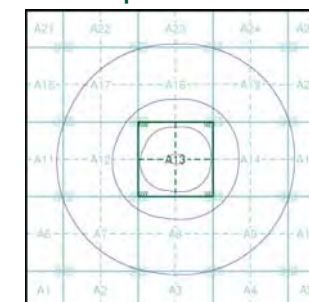
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



Ordnance Survey Plan

Published 1966

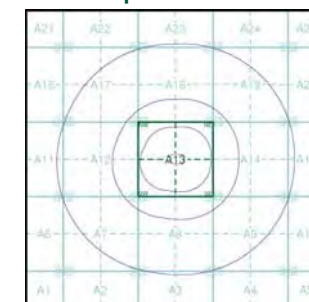
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster

Ordnance Survey Plan

Published 1983 - 1988

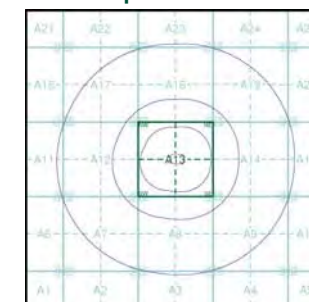
Source map scale - 1:10,000

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

Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



Ordnance Survey Plan

Published 1991

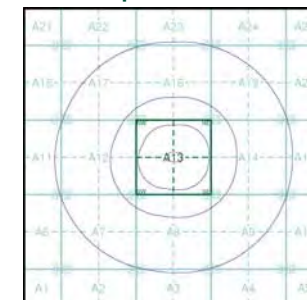
Source map scale - 1:10,000

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Map Name(s) and Date(s)



Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



10k Raster Mapping

Published 2000

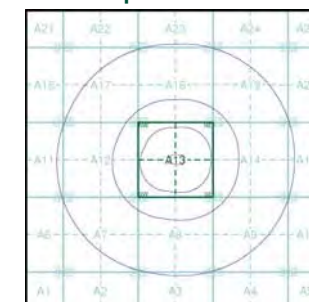
Source map scale - 1:10,000

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)

SE40NE
2000
1:10,000
SE40SE
2000
1:10,000

Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



10k Raster Mapping

Published 2006

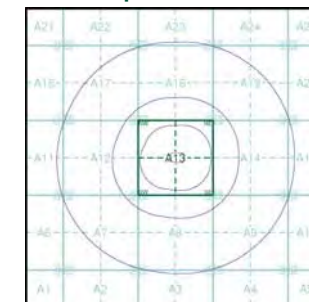
Source map scale - 1:10,000

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

Map Name(s) and Date(s)

SE40NE
2006
1:10,000
SE40SE
2006
1:10,000

Historical Map - Slice A



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



VectorMap Local

Published 2017

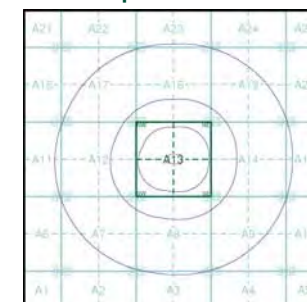
Source map scale - 1:10,000

VectorMap Local (Raster) is Ordnance Survey's highest detailed 'backdrop' mapping product. These maps are produced from OS's VectorMap Local, a simple vector dataset at a nominal scale of 1:10,000, covering the whole of Great Britain, that has been designed for creating graphical mapping. OS VectorMap Local is derived from large-scale information surveyed at 1:1250 scale (covering major towns and cities), 1:2500 scale (smaller towns, villages and developed rural areas), and 1:10 000 scale (mountain, moorland and river estuary areas).

Map Name(s) and Date(s)



Historical Map - Slice A

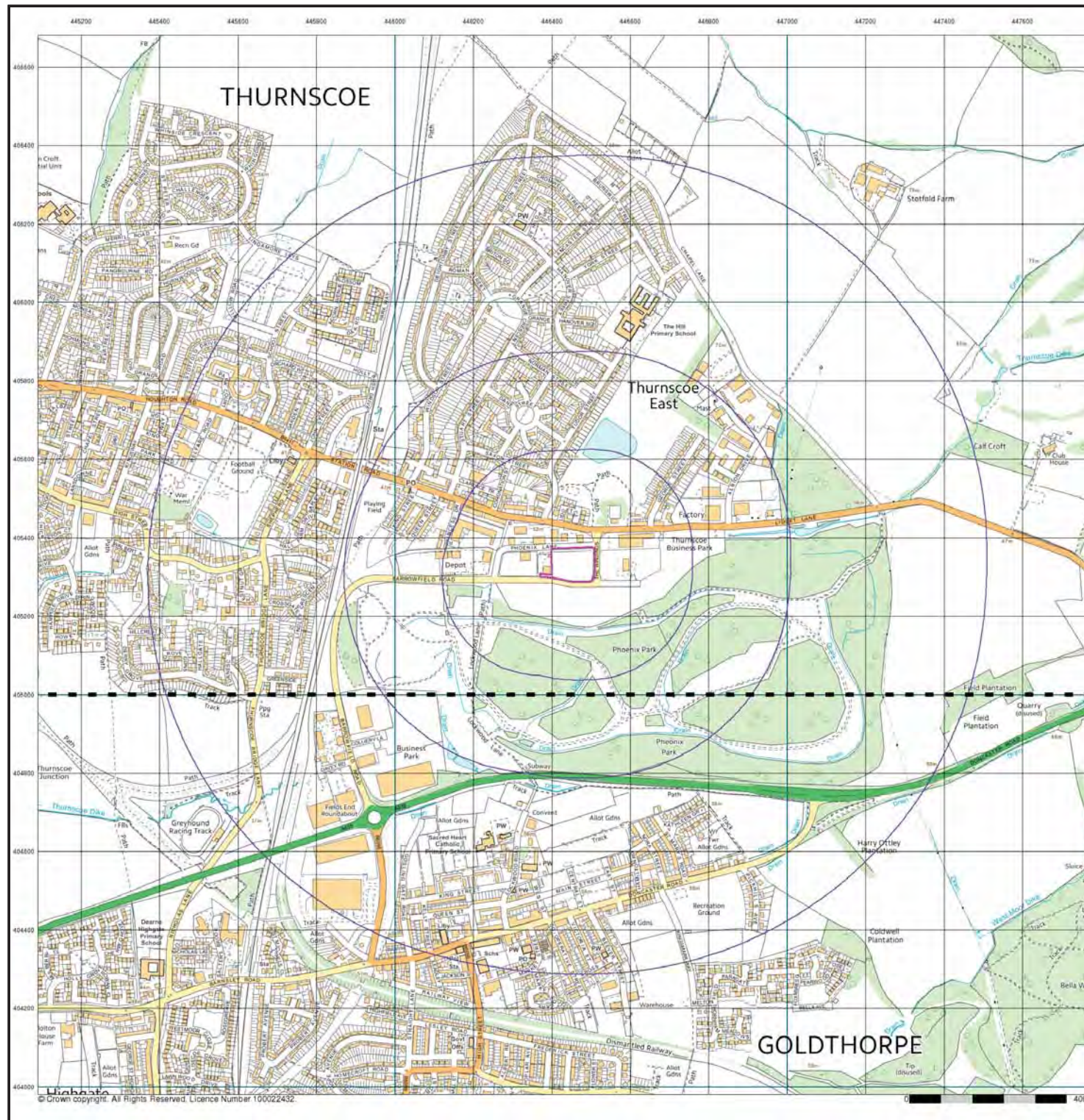


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



APPENDIX C
Envirocheck Data

Geology 1:50,000 Maps Legends

Artificial Ground and Landslip

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

Superficial Geology

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	ALV	Alluvium	Clay and Silt	Flandrian - Flandrian

Bedrock and Faults

Map Colour	Lex Code	Rock Name	Rock Type	Min and Max Age
	CDF	Cadeby Formation	Dolostone	Late Permian - Late Permian
	YWS	Yellow Sands Formation	Sandstone	Late Permian - Cisuralian
	PUCM	Pennine Upper Coal Measures Formation	Mudstone, Siltstone and Sandstone	Westphalian D - Bolsovian
	PUCM	Pennine Upper Coal Measures Formation	Sandstone	Westphalian D - Bolsovian
	NEWR	Newstead Rock	Sandstone	Bolsovian - Bolsovian
	AR	Ackworth Rock	Sandstone	Bolsovian - Bolsovian
	WYR	Wickersley Rock	Sandstone	Bolsovian - Bolsovian
	MXR	Mexborough Rock	Sandstone	Bolsovian - Bolsovian
	PMCM	Pennine Middle Coal Measures Formation	Mudstone, Siltstone and Sandstone	Bolsovian - Duckmantian
	PMCM	Pennine Middle Coal Measures Formation	Sandstone	Bolsovian - Duckmantian
		Rock Segments		
		Faults		

Geology 1:50,000 Maps

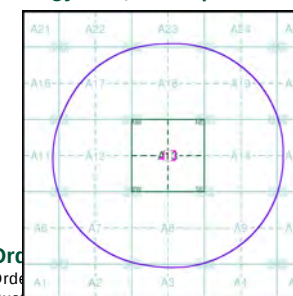
This report contains geological map extracts taken from the BGS Digital Geological map of Great Britain at 1:50,000 scale and is designed for users carrying out preliminary site assessments who require geological maps for the area around the site. This mapping may be more up to date than previously published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

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

Geology 1:50,000 Maps Coverage

Map ID:	1
Map Sheet No:	087
Map Name:	Barnsley
Map Date:	2008
Bedrock Geology:	Available
Superficial Geology:	Available
Artificial Geology:	Not Available
Faults:	Not Supplied
Landslip:	Available
Rock Segments:	Not Supplied

Geology 1:50,000 Maps - Slice A

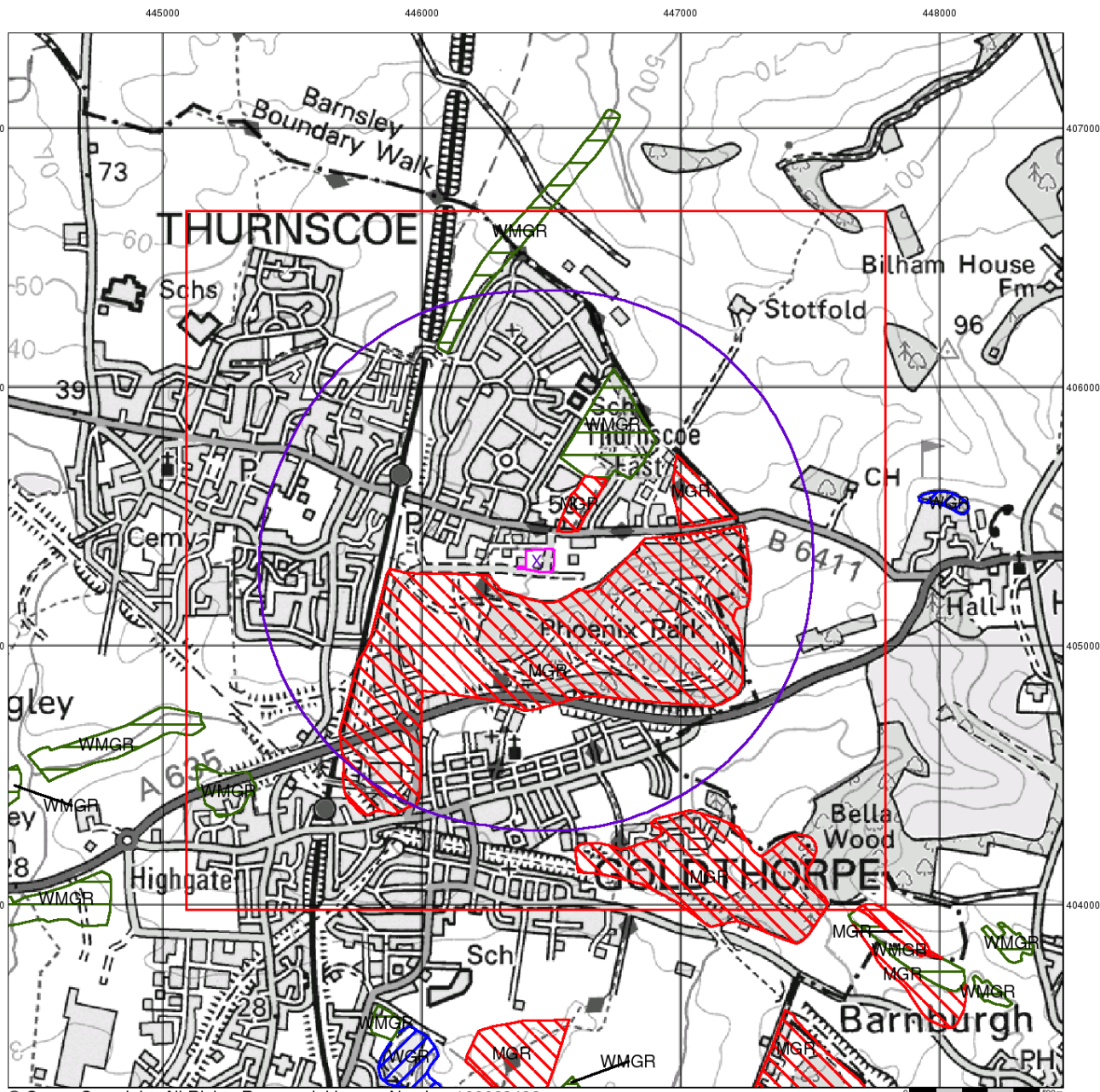


Order

Order Reference: 446450, 405330
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details:

Site at, Hickleton, Doncaster



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Artificial Ground and Landslip

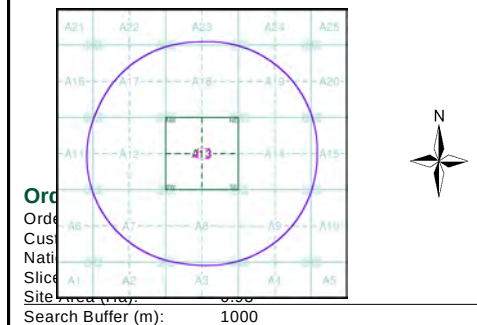
Artificial ground is a term used by BGS for those areas where the ground surface has been significantly modified by human activity. Information about previously developed ground is especially important, as it is often associated with potentially contaminated material, unpredictable engineering conditions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

Artificial ground includes:

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

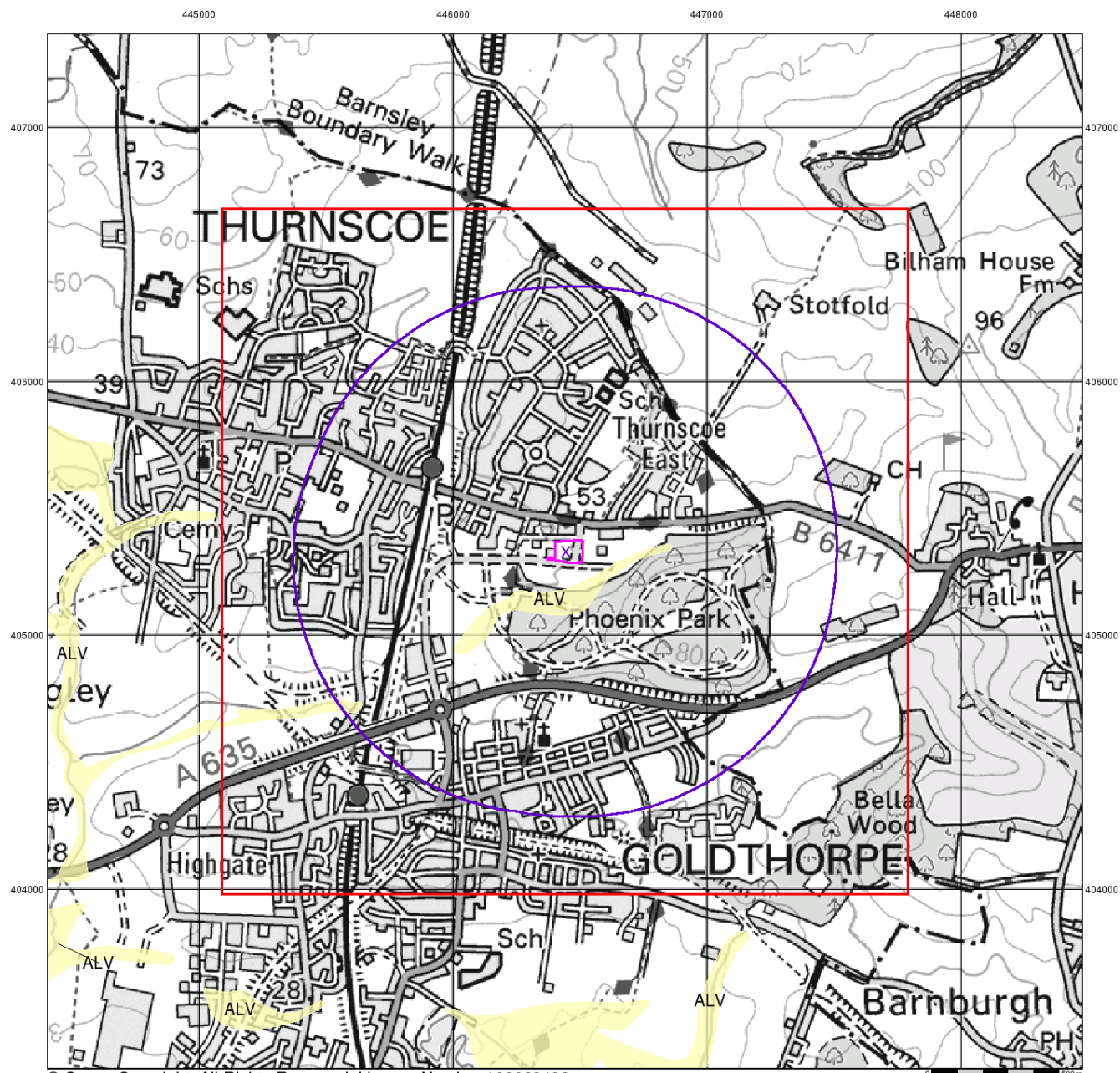
Mass movement (landslip) deposits on BGS geological maps are primarily superficial deposits that have moved down slope under gravity to form landslips. These affect bedrock, other superficial deposits and artificial ground. The dataset also includes foundered strata, where the ground has collapsed due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

Artificial Ground and Landslip Map - Slice A



Site Details:

Site at, Hickleton, Doncaster



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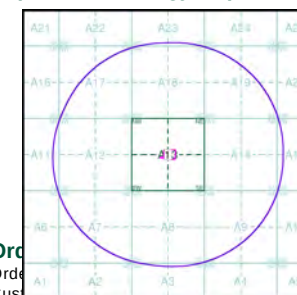
Superficial Geology

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

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

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

Superficial Geology Map - Slice A



Ord

Order

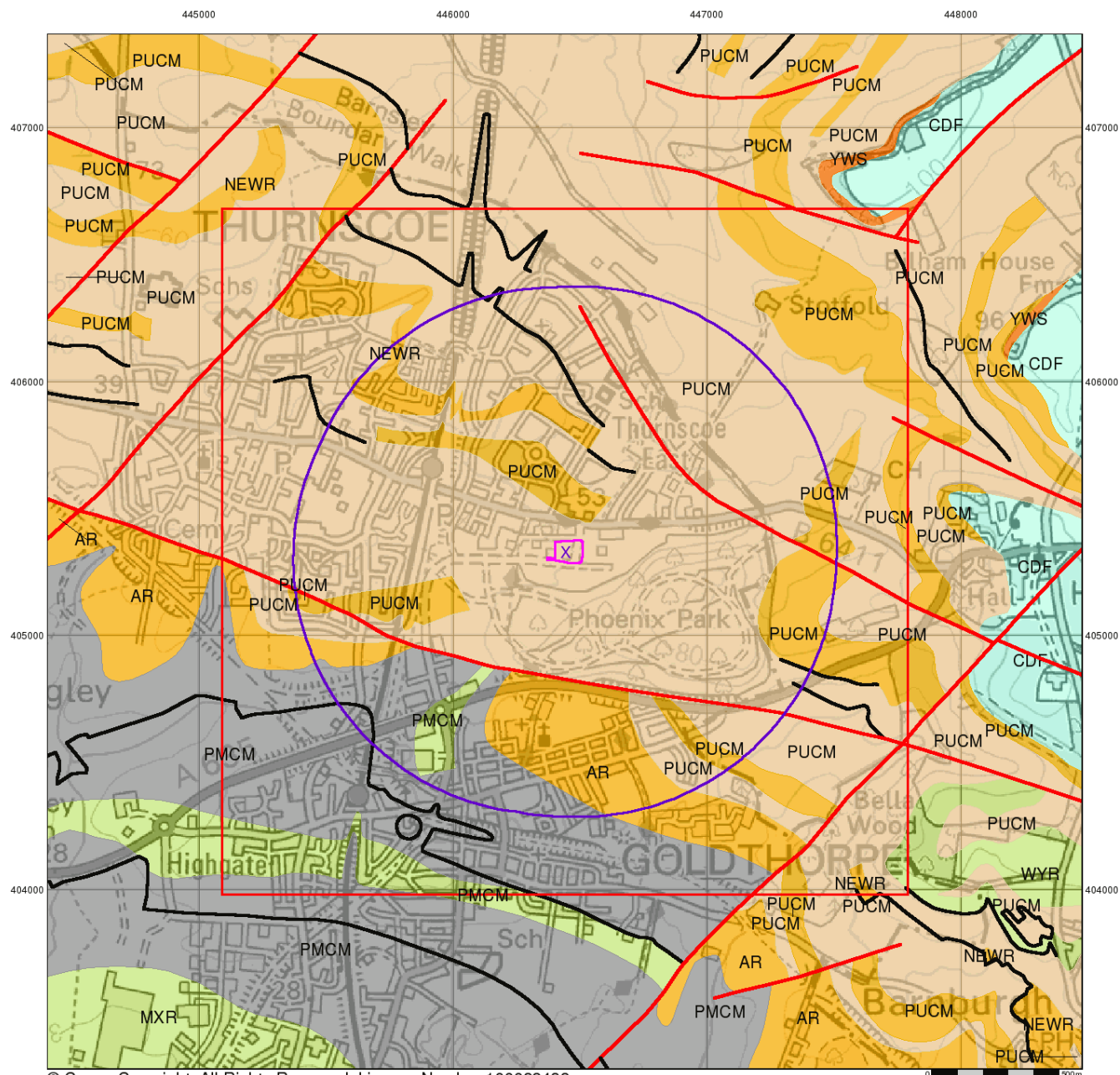
Cus

National Grid Reference: 446450, 405330

Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

Site Details:

Site at, Hickleton, Doncaster



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Bedrock and Faults

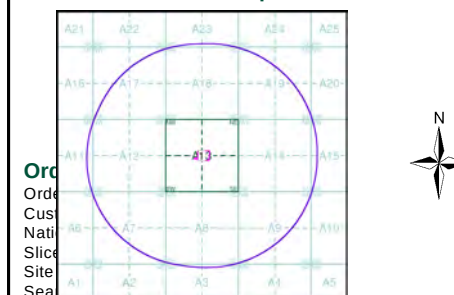
Bedrock geology is a term used for the main mass of rocks forming the Earth and are present everywhere, whether exposed at the surface in outcrops or concealed beneath superficial deposits or water.

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

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

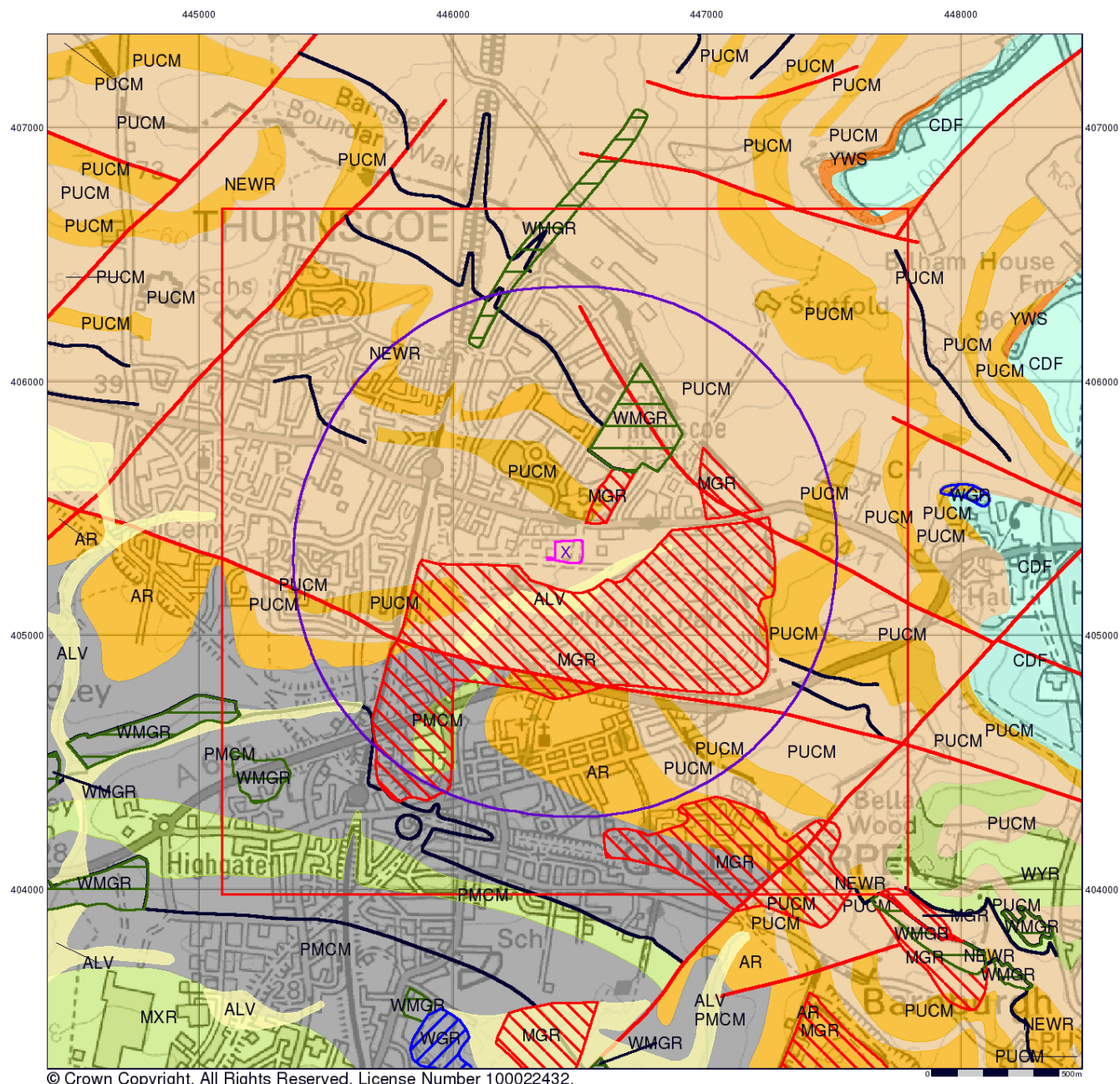
The BGS Faults and Rock Segments dataset includes geological faults (e.g. normal, thrust), and thin beds mapped as lines (e.g. coal seam, gypsum bed). Some of these are linked to other particular 1:50,000 Geology datasets, for example, coal seams are part of the bedrock sequence, most faults and mineral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

Bedrock and Faults Map - Slice A



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Combined Surface Geology

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

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

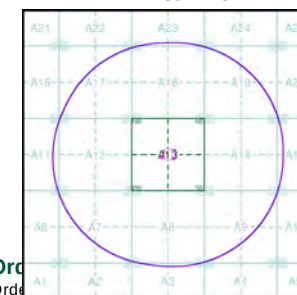
Additional Information

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

Contact

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

Combined Geology Map - Slice A



Order

Customer Reference: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
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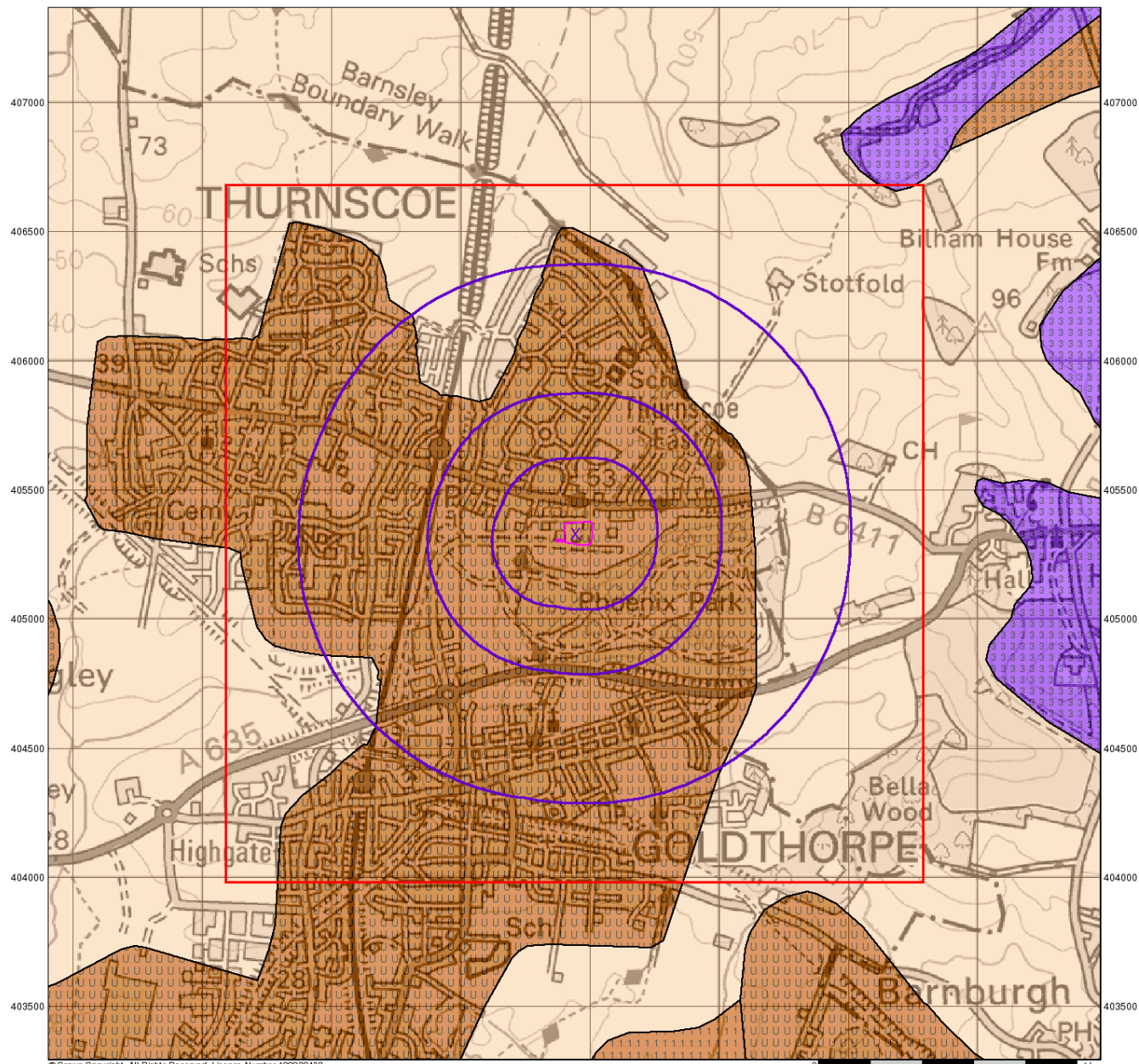
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v15.0 08-Feb-2017

Page 5 of 5

44500 445000 445500 446000 446500 447000 447500 448000



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0 1 km

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Groundwater Vulnerability

General

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

Agency and Hydrological

Geological Classes

Major Aquifer (Highly Permeable)

Minor Aquifer (Variably Permeable)

Non Aquifer (Negligibly Permeable)

Water or Sea

Drift Deposit

Soil Classes

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

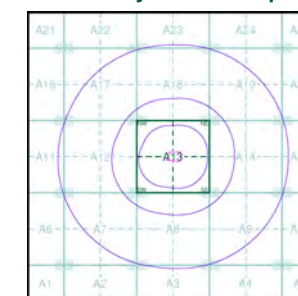
Low

High (H) 1, 2, 3, U

Intermediate (I) 1, 2

Low

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 113395959_1_1
Customer Ref: 11525/8.2
National Grid Reference: 446450, 405330
Slice: A
Site Area (Ha): 0.93
Search Buffer (m): 1000

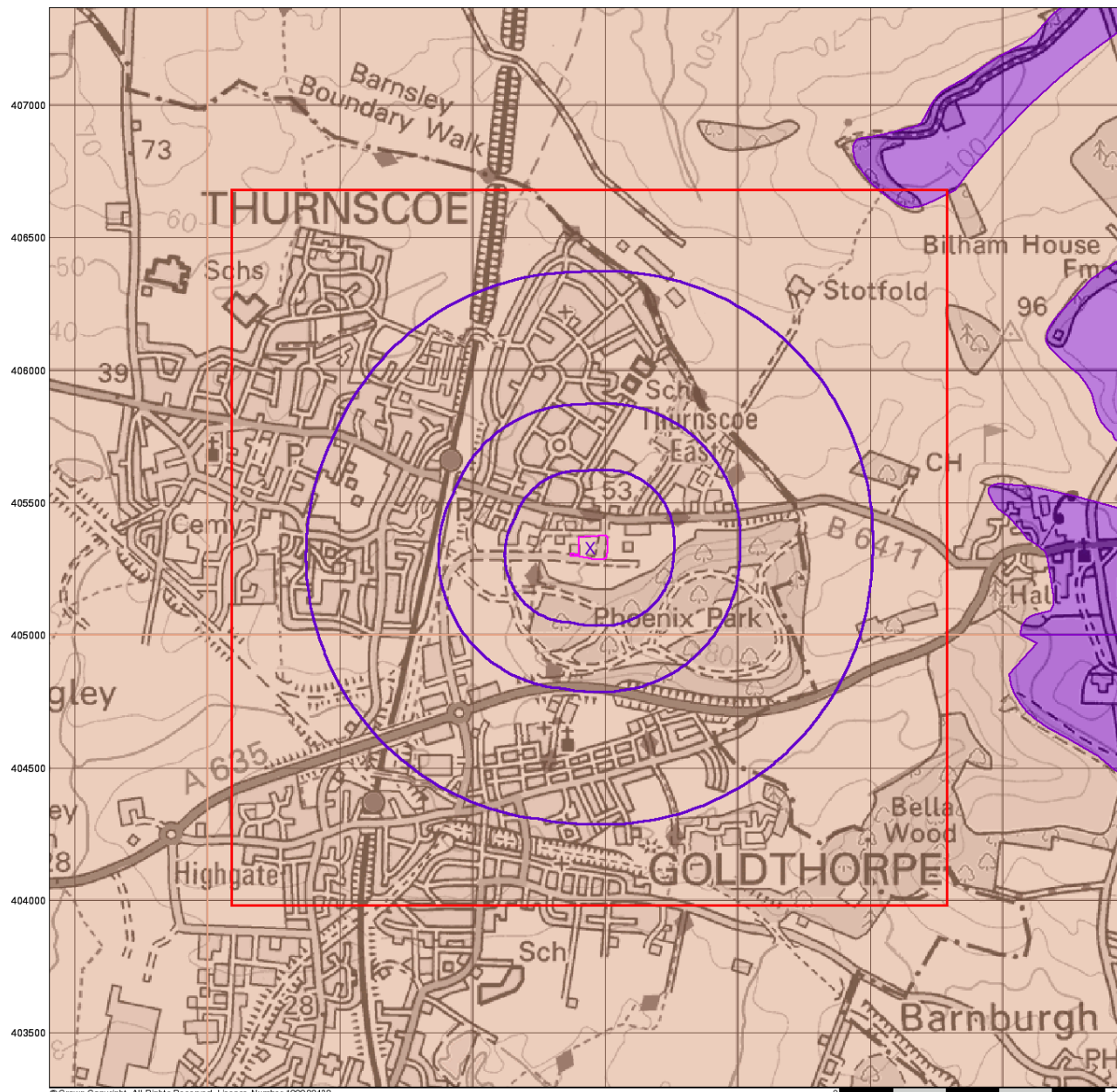
Site Details

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0 1 km

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Bedrock Aquifer Designation

General

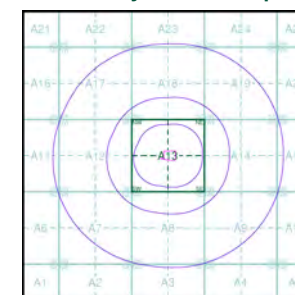
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

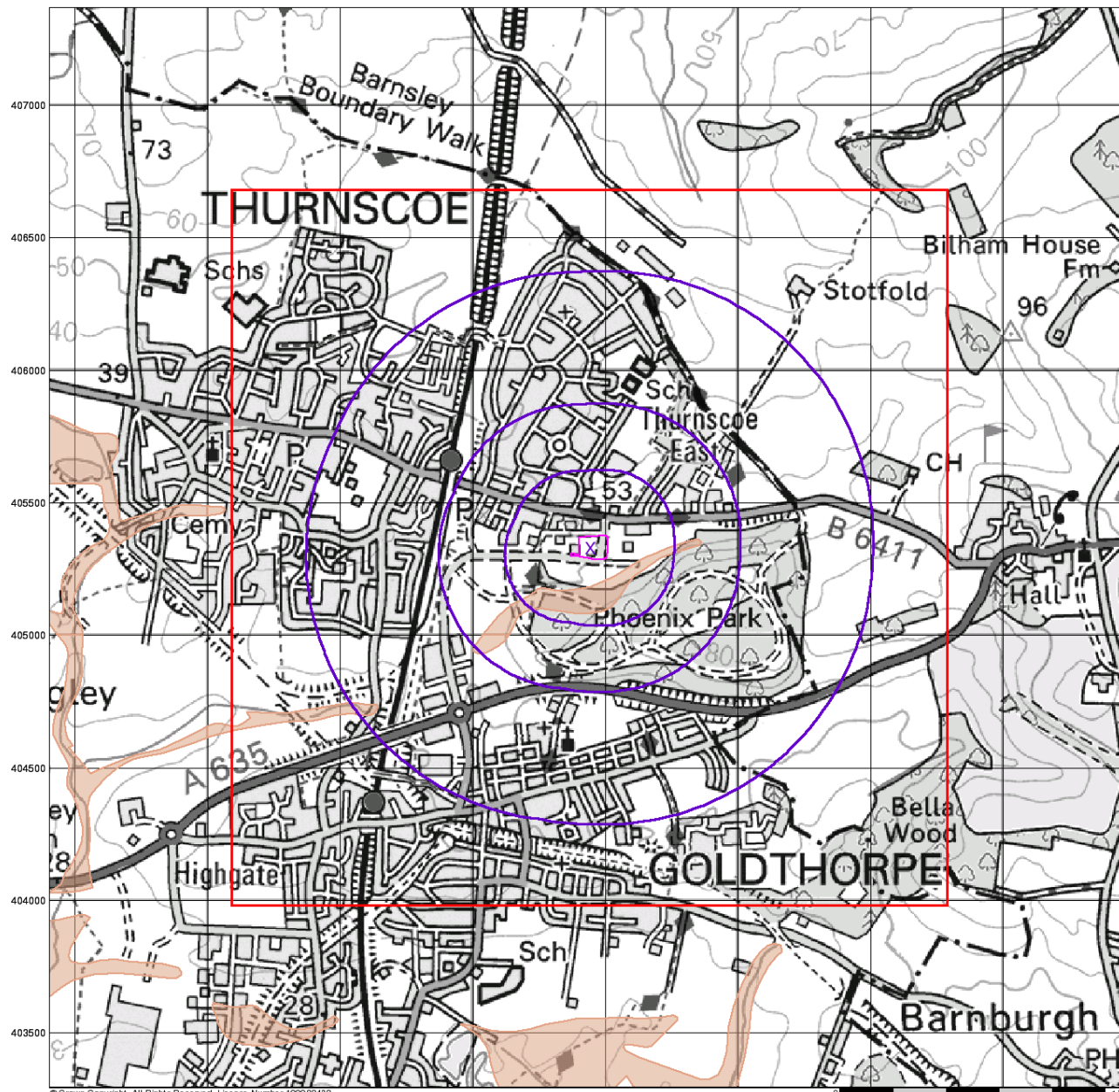
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0 1 km

Superficial Aquifer Designation

General

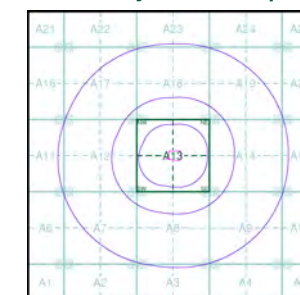
- Specified Site
- Specified Buffer(s)
- Bearing Reference Point
- Slice
- Map ID

Agency and Hydrological

Geological Classes

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

Site Sensitivity Context Map - Slice A



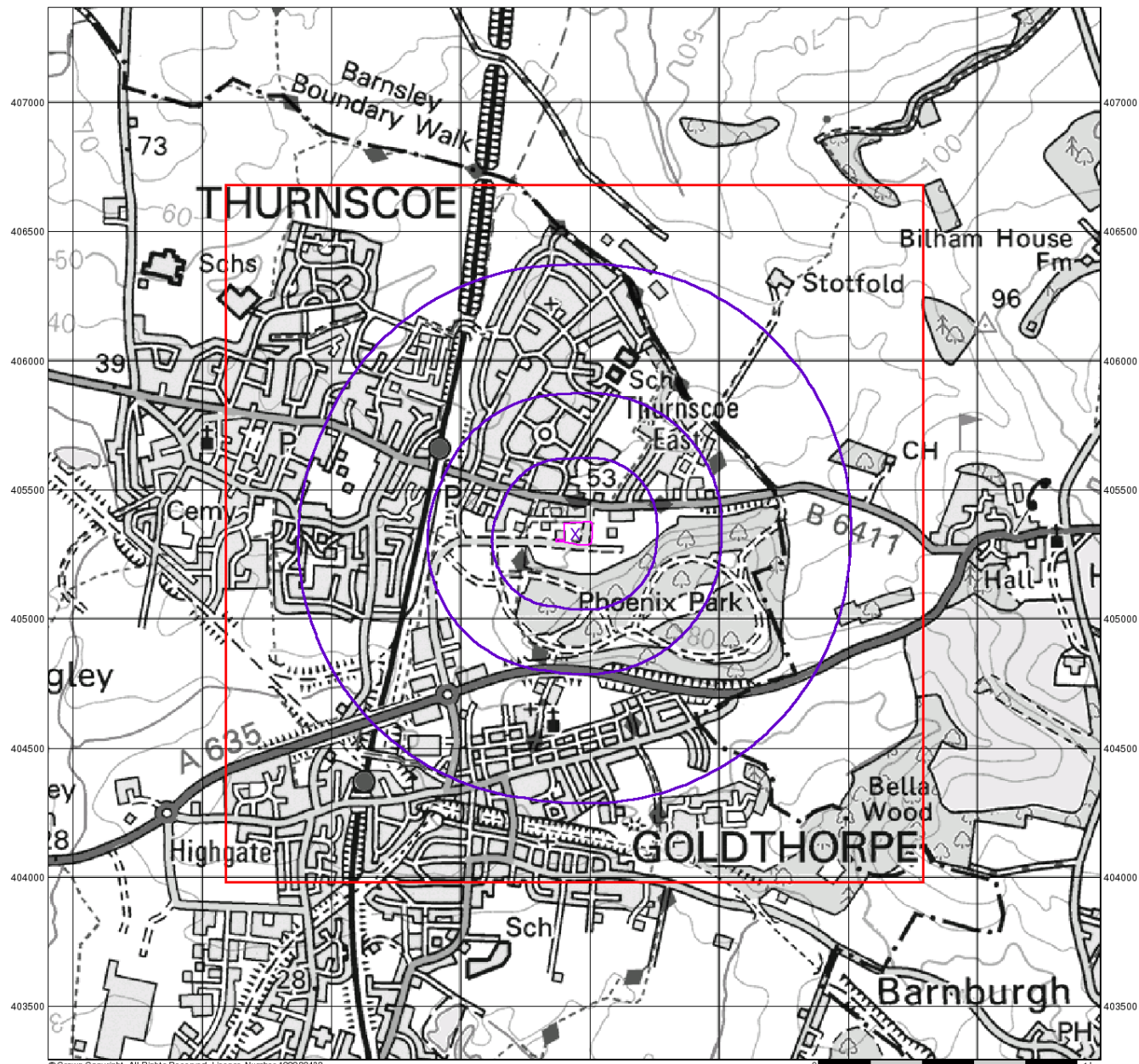
Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster

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0 1 km

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Source Protection Zones

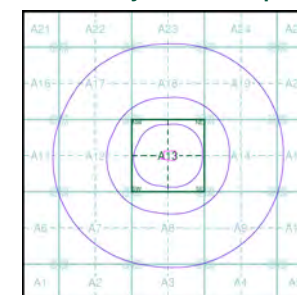
General

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

Agency and Hydrological

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

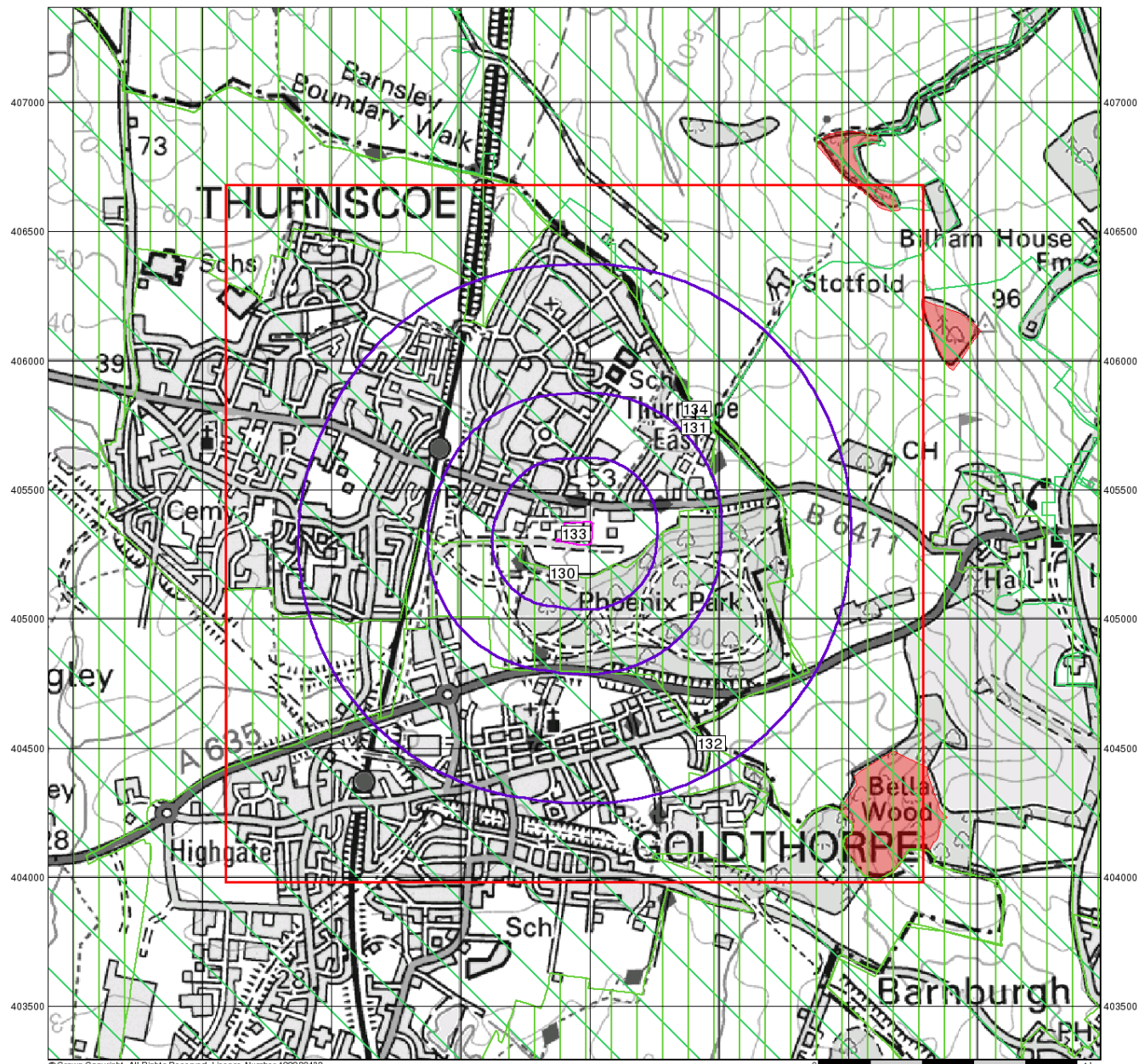
Site Details

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Sensitive Land Uses

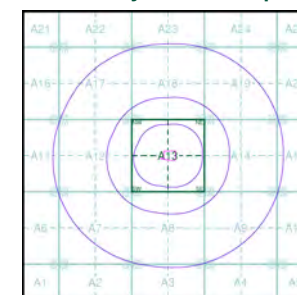
General

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

Sensitive Land Uses

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

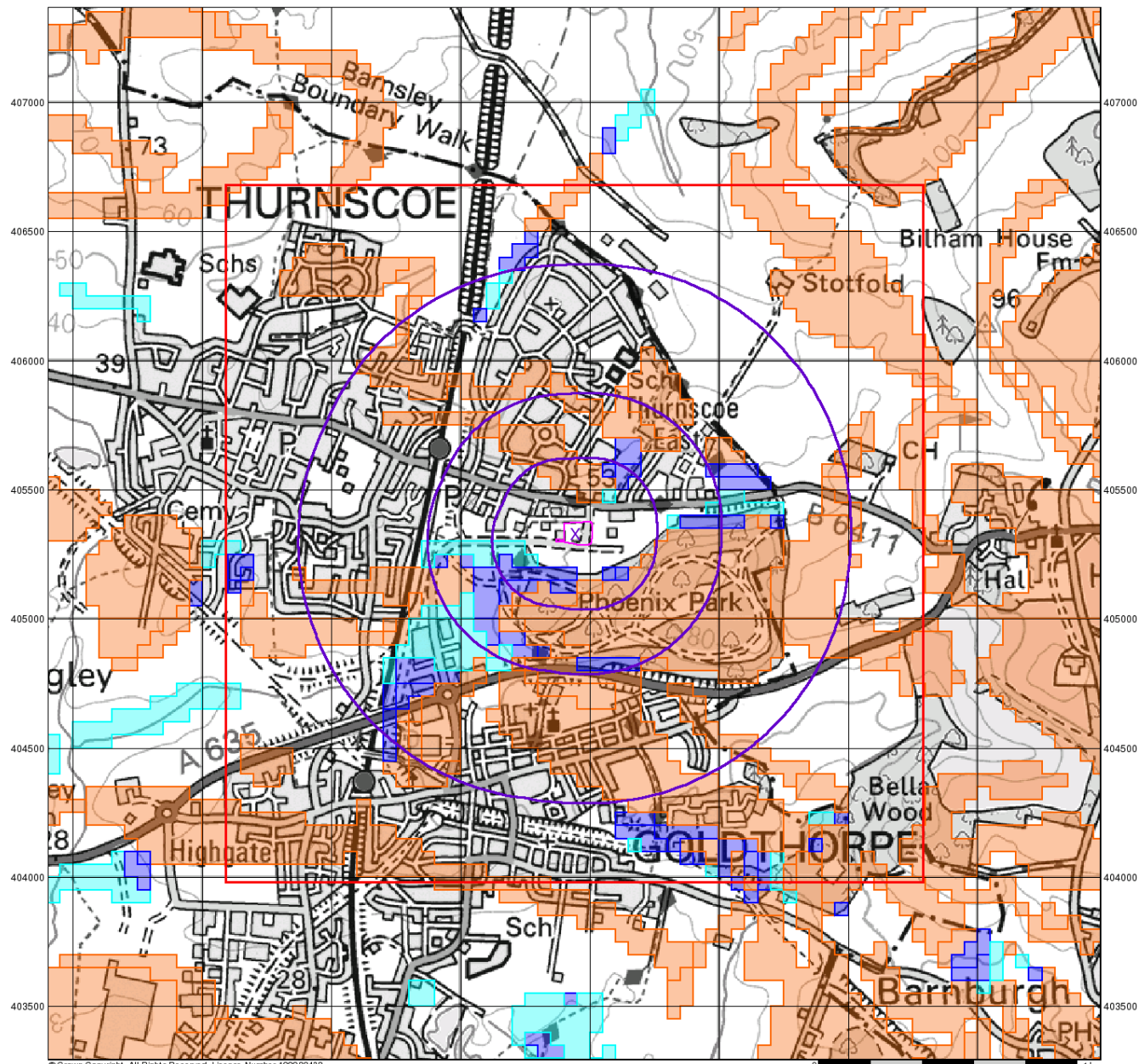
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0 1 km

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BGS Flood GFS Data

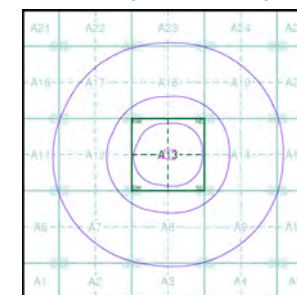
General

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

Agency and Hydrological (Flood)

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

Site Sensitivity Context Map - Slice A



Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

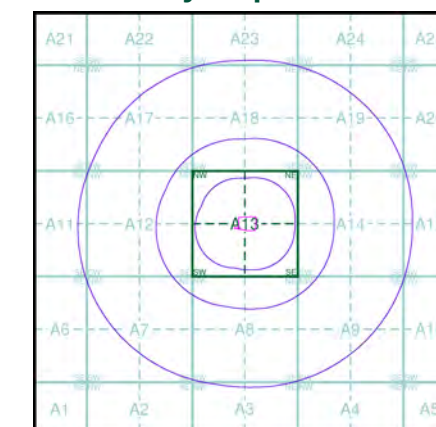
Site at, Hickleton, Doncaster

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- General**
- Specified Site
 - Specified Buffer(s)
 - Bearing Reference Point
 - Map ID
 - Several of Type at Location
- Agency and Hydrological**
- Contaminated Land Register Entry or Notice (Location)
 - Discharge Consent
 - Enforcement or Prohibition Notice
 - Integrated Pollution Control
 - Integrated Pollution Prevention Control
 - Local Authority Integrated Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control
 - Local Authority Pollution Prevention and Control Enforcement
 - Pollution Incident to Controlled Waters
 - Prosecution Relating to Authorised Processes
 - Prosecution Relating to Controlled Waters
 - Registered Radioactive Substance
 - River Network or Water Feature
 - River Quality Sampling Point
 - Substantiated Pollution Incident Register
 - Water Abstraction
 - Water Industry Act Referral
- Waste**
- BGS Recorded Landfill Site (Location)
 - BGS Recorded Landfill Site
 - EA Historic Landfill (Buffered Point)
 - EA Historic Landfill (Polygon)
 - Integrated Pollution Control Registered Waste Site
 - Licensed Waste Management Facility (Landfill Boundary)
 - Licensed Waste Management Facility (Location)
 - Local Authority Recorded Landfill Site (Location)
 - Local Authority Recorded Landfill Site
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Non-water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Potentially Infilled Land (Water)
 - Registered Landfill Site (Location)
 - Registered Landfill Site (Point Buffered to 100m)
 - Registered Landfill Site (Point Buffered to 250m)
 - Registered Waste Transfer Site (Location)
 - Registered Waste Transfer Site
 - Registered Waste Treatment or Disposal Site (Location)
 - Registered Waste Treatment or Disposal Site
- Hazardous Substances**
- COMAH Site
 - Explosive Site
 - NIHHS Site
 - Planning Hazardous Substance Consent
 - Planning Hazardous Substance Enforcement
 - BGS Recorded Mineral Site
- Geological**

Site Sensitivity Map - Slice A

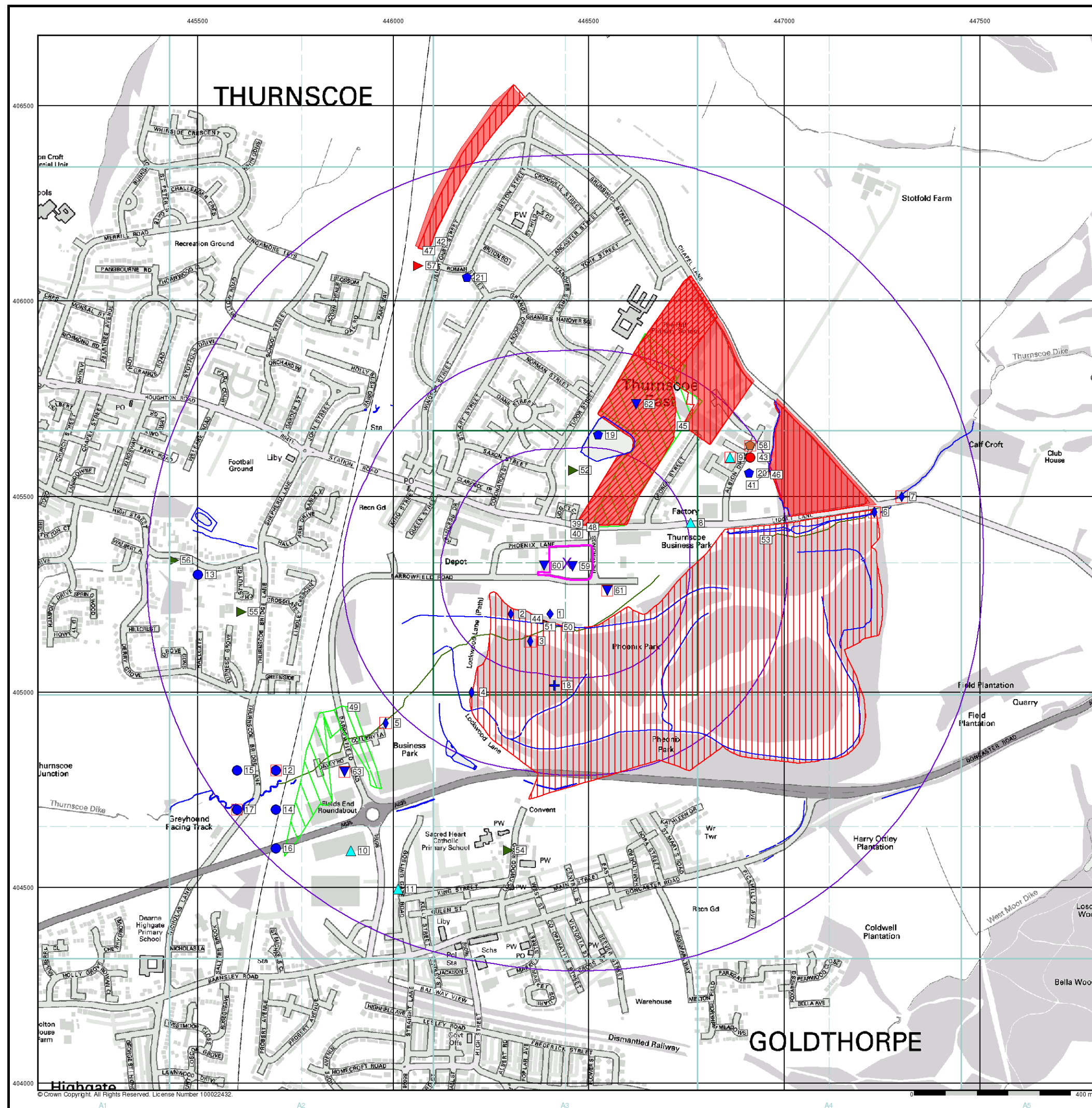


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



Industrial Land Use Map

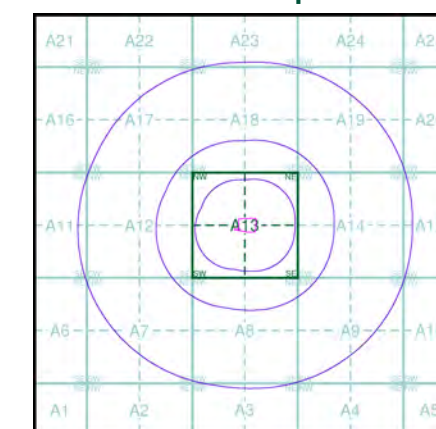
General

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

Industrial Land Use

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

Industrial Land Use Map - Slice A

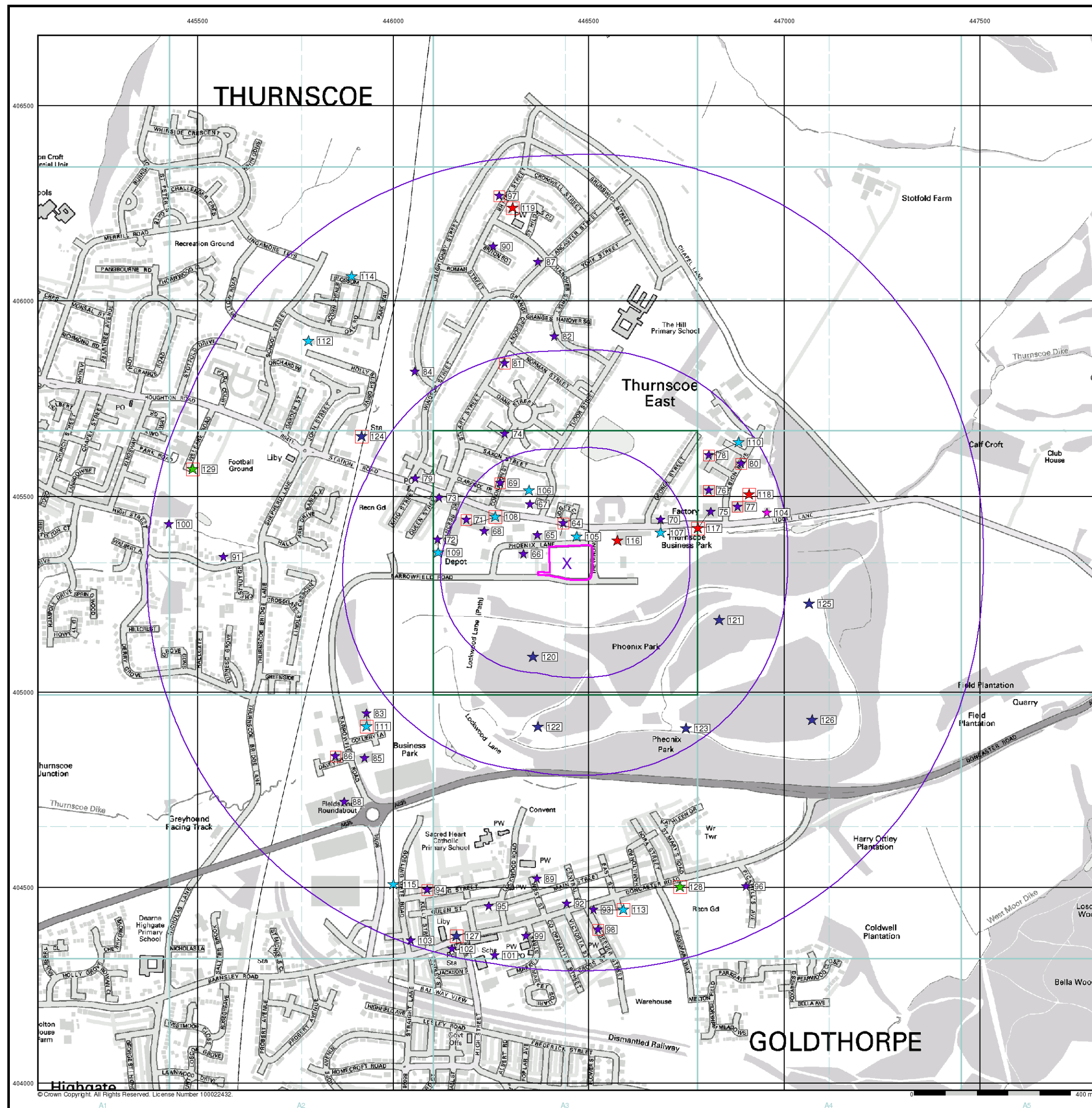


Order Details

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 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
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 Site Area (Ha): 0.93
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Site Details

Site at, Hickleton, Doncaster



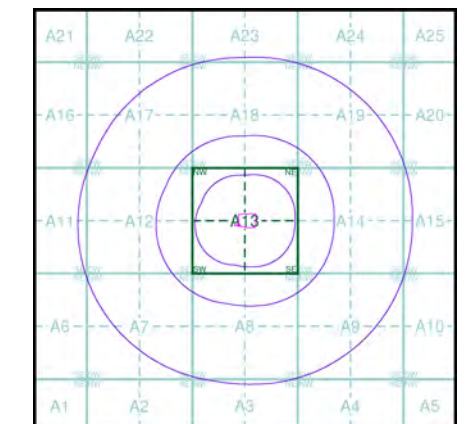
General

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

Agency and Hydrological (Flood)

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

Flood Map - Slice A

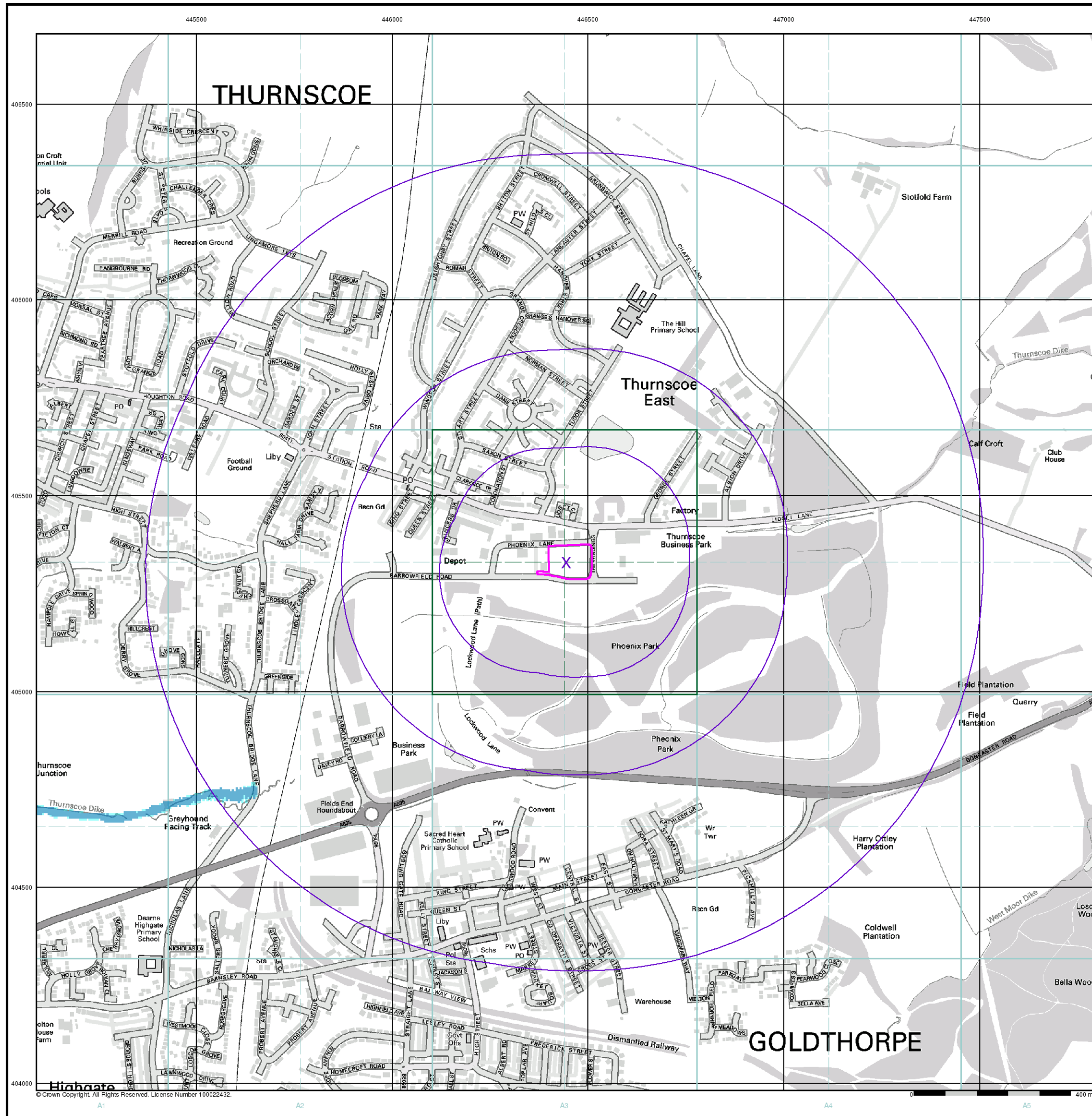


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



General

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

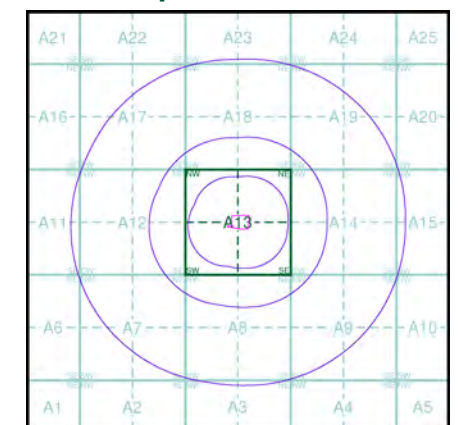
Agency and Hydrological (Boreholes)

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

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

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

Borehole Map - Slice A

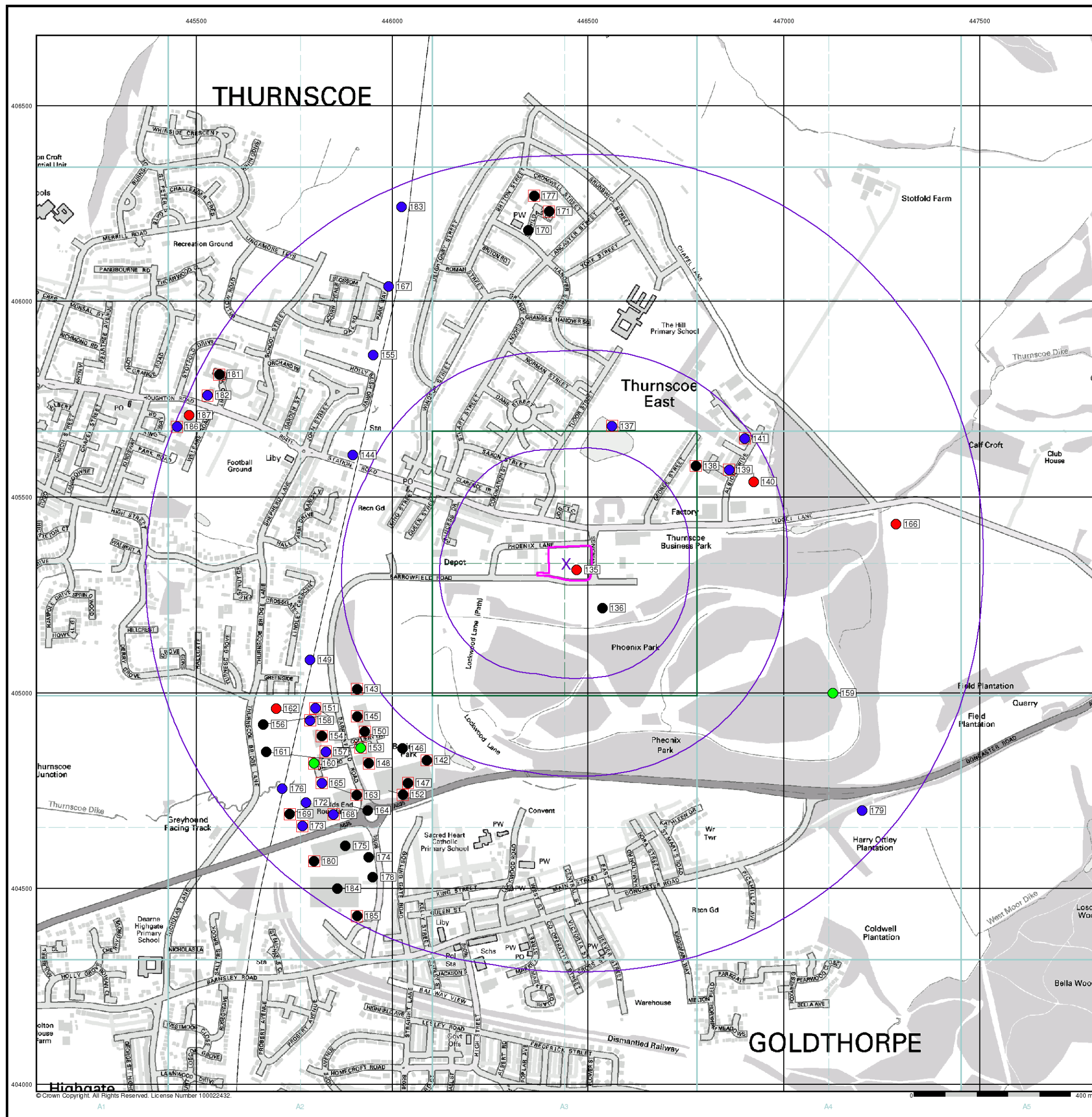


Order Details

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 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
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 Site Area (Ha): 0.93
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Site Details

Site at, Hickleton, Doncaster



General

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

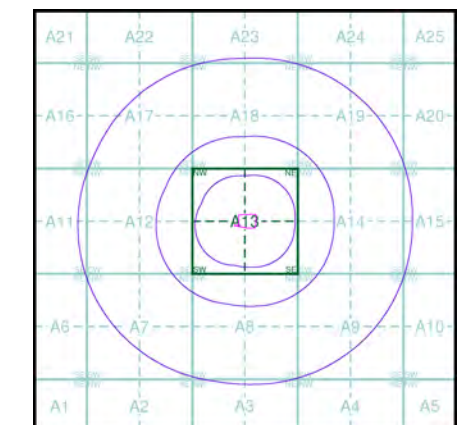
Detailed River Network Data

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

Contours (height in metres)

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

EAN/RW Detailed River Network Map - Slice A

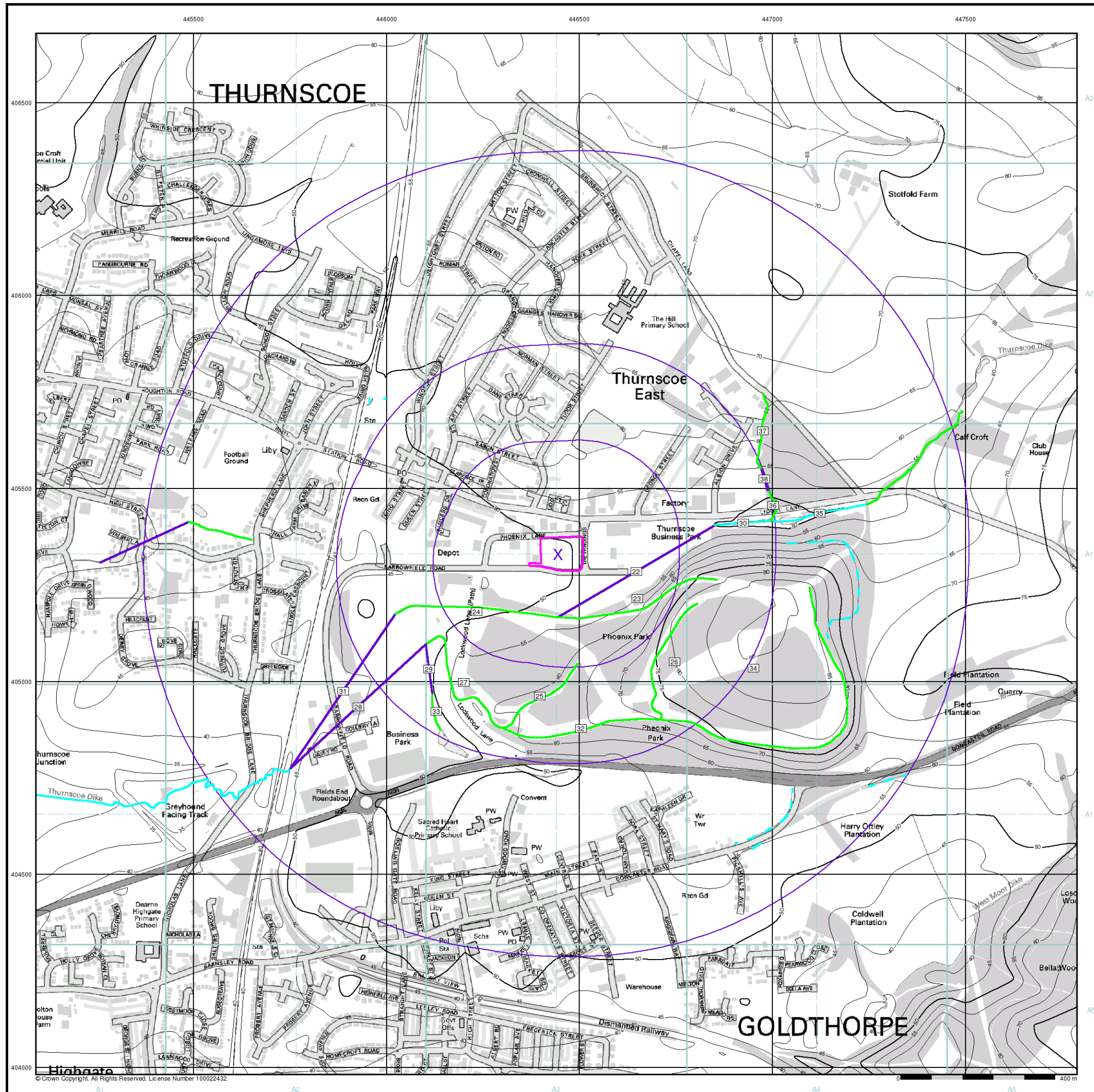


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



General

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

Risk of Flooding from Surface Water

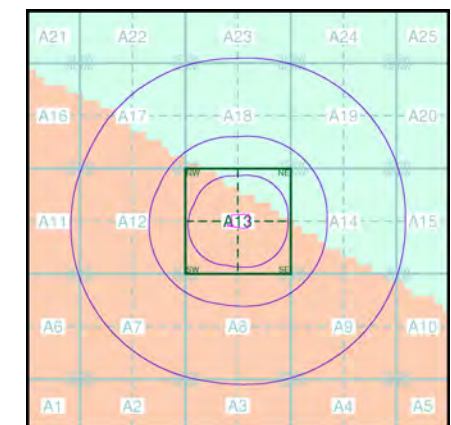
- High - 30 Year Return
- Medium - 100 Year Return
- Low - 1000 Year Return

Suitability

See the suitability map below

- National to county
- County to town
- Town to street
- Street to parcels of land
- Property

EANRW Suitability Map - Slice A

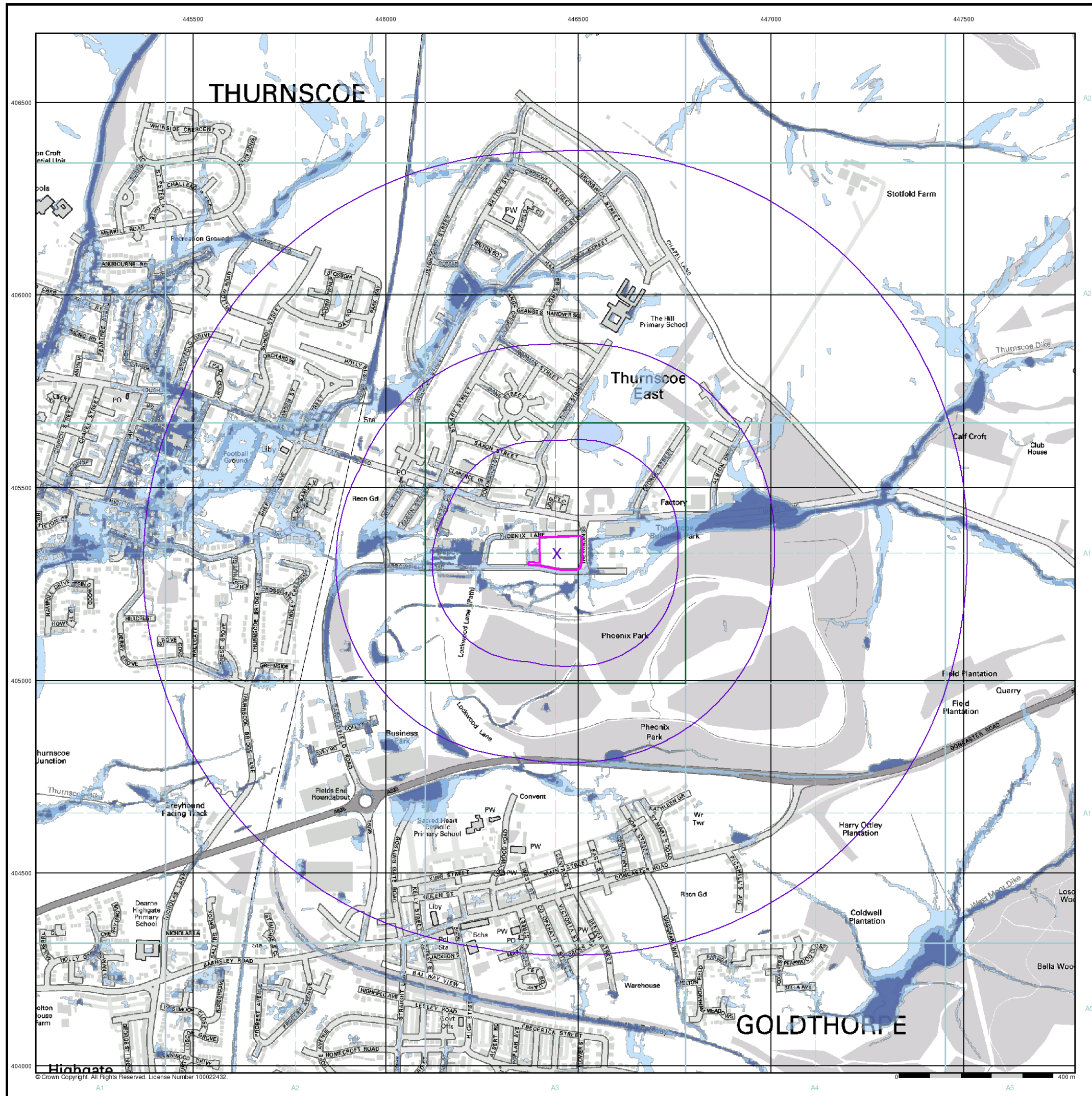


Order Details

Order Number: 113395959_1_1
 Customer Ref: 11525/8.2
 National Grid Reference: 446450, 405330
 Slice: A
 Site Area (Ha): 0.93
 Search Buffer (m): 1000

Site Details

Site at, Hickleton, Doncaster



Envirocheck[®] Report:

Datasheet

Order Details:

Order Number:

113395959_1_1

Customer Reference:

11525/8.2

National Grid Reference:

446450, 405330

Slice:

A

Site Area (Ha):

0.93

Search Buffer (m):

1000

Site Details:

Site at

Hickleton

Doncaster

Client Details:

Mr A Gibson

Wm Saunders Partnership

Sheppard Lockton House

Cafferata Way

Newark

Nottinghamshire

NG24 2TN

Report Section	Page Number
Summary	-
Agency & Hydrological	1
Waste	16
Hazardous Substances	-
Geological	21
Industrial Land Use	25
Sensitive Land Use	35
Data Currency	36
Data Suppliers	41
Useful Contacts	42

Introduction

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

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

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Peter Brett Associates Copyright Notice

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Report Version v50.0

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Agency & Hydrological					
BGS Groundwater Flooding Susceptibility	pg 1		Yes	Yes	n/a
Contaminated Land Register Entries and Notices					
Discharge Consents	pg 3		5	1	13
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 7			3	2
Local Authority Pollution Prevention and Control Enforcements					
Nearest Surface Water Feature	pg 8		Yes		
Pollution Incidents to Controlled Waters	pg 8				8
Prosecutions Relating to Authorised Processes					
Registered Radioactive Substances					
River Quality	pg 9		1		
River Quality Biology Sampling Points	pg 10			1	
River Quality Chemistry Sampling Points					
Substantiated Pollution Incident Register	pg 10			2	1
Water Abstractions	pg 10				(*5)
Water Industry Act Referrals					
Groundwater Vulnerability	pg 11	Yes	n/a	n/a	n/a
Drift Deposits			n/a	n/a	n/a
Bedrock Aquifer Designations	pg 12	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
Detailed River Network Lines	pg 12		Yes	Yes	n/a
Detailed River Network Offline Drainage					n/a

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Waste					
BGS Recorded Landfill Sites	pg 16		1		
Historical Landfill Sites	pg 16		1	1	1
Integrated Pollution Control Registered Waste Sites					
Licensed Waste Management Facilities (Landfill Boundaries)					
Licensed Waste Management Facilities (Locations)	pg 16			1	
Local Authority Landfill Coverage	pg 16	1	n/a	n/a	n/a
Local Authority Recorded Landfill Sites	pg 17		1	2	1
Potentially Infilled Land (Non-Water)	pg 17		1		1
Potentially Infilled Land (Water)	pg 17		3	1	3
Registered Landfill Sites	pg 18				1
Registered Waste Transfer Sites	pg 19			3	
Registered Waste Treatment or Disposal Sites					
Hazardous Substances					
Control of Major Accident Hazards Sites (COMAH)					
Explosive Sites					
Notification of Installations Handling Hazardous Substances (NIHHS)					
Planning Hazardous Substance Consents					
Planning Hazardous Substance Enforcements					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Geological					
BGS 1:625,000 Solid Geology	pg 21	Yes	n/a	n/a	n/a
BGS Estimated Soil Chemistry	pg 21	Yes	Yes	Yes	Yes
BGS Recorded Mineral Sites	pg 22	1	3	1	2
BGS Urban Soil Chemistry					
BGS Urban Soil Chemistry Averages					
CBSCB Compensation District			n/a	n/a	n/a
Coal Mining Affected Areas	pg 23	Yes	n/a	n/a	n/a
Mining Instability	pg 23	Yes	n/a	n/a	n/a
Man-Made Mining Cavities					
Natural Cavities					
Non Coal Mining Areas of Great Britain				n/a	n/a
Potential for Collapsible Ground Stability Hazards	pg 23	Yes		n/a	n/a
Potential for Compressible Ground Stability Hazards	pg 23		Yes	n/a	n/a
Potential for Ground Dissolution Stability Hazards				n/a	n/a
Potential for Landslide Ground Stability Hazards	pg 23	Yes	Yes	n/a	n/a
Potential for Running Sand Ground Stability Hazards	pg 23		Yes	n/a	n/a
Potential for Shrinking or Swelling Clay Ground Stability Hazards	pg 24	Yes	Yes	n/a	n/a
Radon Potential - Radon Affected Areas			n/a	n/a	n/a
Radon Potential - Radon Protection Measures			n/a	n/a	n/a
Industrial Land Use					
Contemporary Trade Directory Entries	pg 25		21	24	27
Fuel Station Entries	pg 31			1	
Points of Interest - Commercial Services	pg 31		5	2	8
Points of Interest - Education and Health					
Points of Interest - Manufacturing and Production	pg 32		1	5	2
Points of Interest - Public Infrastructure	pg 33		1	3	6
Points of Interest - Recreational and Environmental	pg 34				4
Gas Pipelines					
Underground Electrical Cables					

Data Type	Page Number	On Site	0 to 250m	251 to 500m	501 to 1000m (*up to 2000m)
Sensitive Land Use					
Ancient Woodland					
Areas of Adopted Green Belt	pg 35		1		2
Areas of Unadopted Green Belt					
Areas of Outstanding Natural Beauty					
Environmentally Sensitive Areas					
Forest Parks					
Local Nature Reserves					
Marine Nature Reserves					
National Nature Reserves					
National Parks					
Nitrate Sensitive Areas					
Nitrate Vulnerable Zones	pg 35	1			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 (N)	75	2	446450 405450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13SW (SW)	87	2	446300 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	88	2	446446 405200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A13NE (NE)	89	2	446550 405450
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	102	2	446550 405200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (SE)	133	2	446600 405200
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	137	2	446450 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SE (S)	138	2	446446 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (SE)	148	2	446550 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	151	2	446350 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	158	2	446600 405500
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	166	2	446300 405150
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	182	2	446550 405550
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13NE (NE)	246	2	446600 405600
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SE (S)	287	2	446446 405000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	291	2	446800 405350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	303	2	446200 405050
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A13SW (SW)	323	2	446250 405000
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	325	2	446050 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	329	2	446550 405700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A12SE (W)	337	2	446050 405200
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	341	2	446850 405350

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	A8NW (S)	342	2	446400 404950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (SW)	370	2	446250 404950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A13SW (SW)	373	2	446150 405000
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (N)	375	2	446500 405750
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A12SE (SW)	379	2	446050 405100
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	400	2	446350 404900
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NW (S)	406	2	446300 404900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SE (NE)	408	2	446750 405700
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A18SW (NW)	413	2	446150 405700
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A12SE (W)	424	2	445950 405250
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A8NW (SW)	435	2	446200 404900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (S)	437	2	446446 404850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A8NE (S)	437	2	446450 404850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A7NE (SW)	440	2	446100 404950
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding to Occur at Surface	A14NW (E)	442	2	446950 405400
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (SW)	457	2	446150 404900
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NW (S)	466	2	446250 404850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (NE)	477	2	446950 405550
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A8NE (SE)	483	2	446700 404850
	BGS Groundwater Flooding Susceptibility Flooding Type: Potential for Groundwater Flooding of Property Situated Below Ground Level	A14NW (E)	491	2	447000 405350
	BGS Groundwater Flooding Susceptibility Flooding Type: Limited Potential for Groundwater Flooding to Occur	A14NW (NE)	498	2	446950 405600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
1	Discharge Consents Operator: British Coal Corporation Property Type: MINING OF COAL + LIGNITE Location: Hickleton Colliery (Ncb) Outlet No., 6-New Outlet Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3168 Permit Version: 1 Effective Date: 12th September 1983 Issued Date: 12th September 1983 Revocation Date: 1st March 1991 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A13SW (S)	96	3	446400 405200
2	Discharge Consents Operator: British Coal Corporation Property Type: MINING OF COAL + LIGNITE Location: Hickleton Colliery (Ncb) Outlet No., 1-Yard Drainage Interceptor Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3516 Permit Version: 1 Effective Date: 12th September 1983 Issued Date: 12th September 1983 Revocation Date: 1st March 1991 Discharge Type: Trade Effluent Discharge: Freshwater Stream/River Environment: Receiving Water: Not Supplied Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	123	3	446300 405200
3	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 1 Effective Date: 16th March 1999 Issued Date: 16th March 1999 Revocation Date: 31st December 1999 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe 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	A13SW (SW)	170	3	446350 405131
3	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 1 Effective Date: 16th March 1999 Issued Date: 16th March 1999 Revocation Date: 31st December 1999 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe 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	A13SW (SW)	171	3	446350 405130

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
3	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 2 Effective Date: 1st January 2000 Issued Date: 16th March 1999 Revocation Date: 23rd September 2003 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe Dyke Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A13SW (SW)	171	3	446350 405130
4	Discharge Consents Operator: National Coal Board, South Yorkshire Area Property Type: MINING OF COAL + LIGNITE Location: Hickleton Colliery (Ncb) Outlet No., 7-Settlement Lagoon Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: 3517 Permit Version: 1 Effective Date: 10th February 1981 Issued Date: 10th February 1981 Revocation Date: 9th August 1995 Discharge Type: Trade Discharge - Process Water Discharge: Freshwater Stream/River Environment: Receiving Water: Trib Of Thurnscoe Dike Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A13SW (SW)	345	3	446200 405000
5	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: WRA7499 Permit Version: 1 Effective Date: 16th March 1999 Issued Date: 16th March 1999 Revocation Date: 31st December 1999 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe 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	A7NE (SW)	545	3	445980 404921
5	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 2 Effective Date: 1st January 2000 Issued Date: 16th March 1999 Revocation Date: 23rd September 2003 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe Dyke Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	545	3	445980 404921

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
5	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 1 Effective Date: 16th March 1999 Issued Date: 16th March 1999 Revocation Date: 31st December 1999 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe 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	A7NE (SW)	546	3	445980 404920
5	Discharge Consents Operator: Yorkshire Forward Property Type: MINING OF COAL + LIGNITE Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 2 Effective Date: 1st January 2000 Issued Date: 16th March 1999 Revocation Date: 23rd September 2003 Discharge Type: Trade Discharges - Site Drainage Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	546	3	445980 404920
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Southfield Lane Cso/Hamilton Rd Cso Southfield Lane/Hamilton Road, Thurnscoe/Goldthorpe, Barnsley, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: S/Ud/54 Permit Version: 1 Effective Date: 28th May 1963 Issued Date: 28th May 1963 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dike Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	553	3	445977 404913
5	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: STORM TANK/CSO ON SEWERAGE NETWORK (WATER COMPANY) Location: Hamilton Road Cso Hamilton Road/Kathleen Stret Jct, Goldthorpe, Rotherham, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra9261 Permit Version: 1 Effective Date: 4th September 2007 Issued Date: 4th September 2007 Revocation Date: 16th May 2012 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dike Status: Surrendered under EPR 2010 Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	560	3	445970 404910

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
6	Discharge Consents Operator: English Partnerships Property Type: Coal Extraction, Deep Mine Location: No.4 Outlet, Goldthorpe, Hickleton Colliery; Near, Rotherham, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Dearne Reference: 2815 Permit Version: Not Supplied Effective Date: Not Supplied Issued Date: 14th April 1999 Revocation Date: Not Supplied Discharge Type: Trade Effluent Discharge-Site Drainage Discharge: Ditch Environment: Receiving Water: Culverted Thurnscoe Dyke - Revoked Status: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NE (E)	727	3	447230 405460
6	Discharge Consents Operator: Yorkshire Forward Property Type: Coal Extraction, Deep Mine - Abandoned Location: Hickleton Former Colliery Site, Thurnscoe, South Yorkshire, England Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: Wra7499 Permit Version: 2 Effective Date: 1st January 2000 Issued Date: 16th March 1999 Revocation Date: 23rd September 2003 Discharge Type: Trade Discharges - Site Drainage Discharge: Ditch Environment: Receiving Water: Thurnscoe Dyke Status: Revoked (Water Resources Act 1991, Section 88 & Schedule 10 as amended by Environment Act 1995) Positional Accuracy: Located by supplier to within 10m	A14NE (E)	727	3	447230 405460
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: PUMPING STATION ON SEWERAGE NETWORK (WATER COMPANY) Location: Yorkshire Water Hickleton Pumping S, Tation Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: C5537 Permit Version: 1 Effective Date: 26th April 1989 Issued Date: 26th April 1989 Revocation Date: Not Supplied Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Transferred from COPA 1974 Positional Accuracy: Located by supplier to within 100m	A14NE (E)	768	3	447270 405470
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Hickleton Sewage Treatment Works, Hickleton, Doncaster, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E729 Permit Version: 1 Effective Date: 6th May 1986 Issued Date: 6th May 1986 Revocation Date: 15th April 1996 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A14NE (E)	802	3	447300 405500

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Hickleton Sewage Treatment Works, Hickleton, Doncaster, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E729 Permit Version: 1 Effective Date: 6th May 1986 Issued Date: 6th May 1986 Revocation Date: 15th April 1996 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Authorisation revokedRevoked Positional Accuracy: Located by supplier to within 100m	A14NE (E)	802	3	447300 405500
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Hickleton Sewage Treatment Works, Hickleton, Doncaster, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E729(Ss) Permit Version: 1 Effective Date: 16th December 1981 Issued Date: 16th December 1981 Revocation Date: 5th May 1986 Discharge Type: Sewage Discharges - Final/Treated Effluent - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A14NE (E)	802	3	447300 405500
7	Discharge Consents Operator: Yorkshire Water Services Ltd Property Type: WWTW/SEWAGE TREATMENT WORKS (WATER COMPANY) Location: Hickleton Sewage Treatment Works, Hickleton, Doncaster, South Yorkshire Authority: Environment Agency, North East Region Catchment Area: Don Tributaries Reference: E729(Ss) Permit Version: 1 Effective Date: 16th December 1981 Issued Date: 16th December 1981 Revocation Date: 5th May 1986 Discharge Type: Sewage Discharges - Stw Storm Overflow/Storm Tank - Water Company Discharge: Freshwater Stream/River Environment: Receiving Water: Thurnscoe Dyke Status: Transferred from Rivers (Prevention of Pollution) Act 1951-1961 Positional Accuracy: Located by supplier to within 100m	A14NE (E)	802	3	447300 405500
8	Local Authority Pollution Prevention and Controls Name: English Partnerships Location: Former Hickleton Colliery, Lidget Lane, Thurnscoe, Rotherham Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa96 Dated: Not Supplied Process Type: Local Authority Air Pollution Control Description: PG3/5 Coal, coke and coal product processes Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the road within the address or location	A13NE (E)	259	4	446760 405429
9	Local Authority Pollution Prevention and Controls Name: Lidgett Concrete Co Ltd Location: Plot 6, Albion Drive, Thurnscoe, ROTHERHAM, South Yorks, S63 0BA Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Ppc/B/20 Dated: 19th April 1994 Process Type: Local Authority Pollution Prevention and Control Description: PG3/1Blending, packing, loading and use of bulk cement Status: Permitted Positional Accuracy: Located by supplier to within 10m	A14NW (NE)	419	4	446861 405596

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
9	Local Authority Pollution Prevention and Controls Name: R G Wastecare Limited Location: Lidget Lane Industrial Estate, Albion Drive, THURNSCOE, Rotherham, S63 0BA Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: Epa112 Dated: 12th February 2002 Process Type: Local Authority Air Pollution Control Description: PG3/8 Quarry processes including roadstone plants and the size reduction of bricks, tiles and concrete Status: Authorisation revokedRevoked Positional Accuracy: Manually positioned to the road within the address or location	A14NW (NE)	427	4	446883 405574
10	Local Authority Pollution Prevention and Controls Name: Hoyland Fox Goldthorpe Location: Unit 2 Fieldsend Industrial Estate, Fields End Road, Goldthorpe, Rotherham, S63 9AF Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/73 Dated: 4th December 2006 Process Type: Local Authority Pollution Prevention and Control Description: PG6/23 Coating of metal and plastic Status: Site Closed Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	857	4	445891 404590
11	Local Authority Pollution Prevention and Controls Name: Bh Motors Location: Gosling Gate Lane, Goldthorpe, Rotherham, S63 9LU Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Permit Reference: PPC/B/111 Dated: Not Supplied Process Type: Local Authority Pollution Prevention and Control Description: PG1/1Waste oil burners, less than 0.4MW net rated thermal input Status: Permitted Positional Accuracy: Located by supplier to within 10m	A7SE (SW)	884	4	446012 404492
	Nearest Surface Water Feature	A13SW (S)	122	-	446421 405169
12	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Other Location: Thurnscoe Dyke Near, GOLDTHORPE Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Pollution Found; Fish Killed: No Information Incident Date: 4th January 1996 Incident Reference: SH960026 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 3 - Minor Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	837	3	445700 404800
12	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Other Location: Thurnscoe Dyke, Near Goldthorpe Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: Fish Killed: No Information Incident Date: 4th January 1996 Incident Reference: SH960026 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	A7NW (SW)	840	3	445700 404795
13	Pollution Incidents to Controlled Waters Property Type: Water Company Sewage: Storm Overflow Location: Walbert Avenue, Thurnscoe, ROTHERHAM Authority: Environment Agency, North East Region Pollutant: Unknown Sewage Note: No Fish Killed Incident Date: 21st September 1995 Incident Reference: SH950004 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 1 - Major Incident Positional Accuracy: Located by supplier to within 100m	A12SW (W)	871	3	445500 405300

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
14	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Unknown Location: Markers Bridge B6273, /DarfId A635 Dearne 08 Authority: Environment Agency, North East Region Pollutant: Unknown Note: Not Supplied Incident Date: 17th July 1992 Incident Reference: 135113 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	901	3	445700 404700
15	Pollution Incidents to Controlled Waters Property Type: Industrial Premises Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Animal Waste/Slurry Note: Not Supplied Incident Date: 27th July 1992 Incident Reference: 135293 Catchment Area: Not Given Receiving Water: Freshwater Stream/River Cause of Incident: Not Given Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7NW (SW)	919	3	445600 404800
16	Pollution Incidents to Controlled Waters Property Type: Abandoned mine Location: Thurnscoe Dyke Downstream Of, Colliery Authority: Environment Agency, North East Region Pollutant: Mining Water Note: Pollution Found; No Fish Killed Incident Date: 26th November 1996 Incident Reference: SH960488 Catchment Area: Dearne Tributaries Receiving Water: Freshwater Stream/River Cause of Incident: Unknown Incident Severity: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 100m	A7SW (SW)	970	3	445700 404600
17	Pollution Incidents to Controlled Waters Property Type: Other General Premises Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Cement/Mortar Note: Not Supplied Incident Date: 26th March 1992 Incident Reference: 131635 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	A7NW (SW)	977	3	445600 404700
17	Pollution Incidents to Controlled Waters Property Type: Miscellaneous Premises: Unknown Location: Rd Brdg/Markers Brdg B6273 Dearne 07 Authority: Environment Agency, North East Region Pollutant: Mud/Clay/Soil Note: Not Supplied Incident Date: 18th March 1992 Incident Reference: 131388 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	A7NW (SW)	980	3	445600 404695
	River Quality Name: Ings/Carr/Thurnscoe_Dikes GQA Grade: River Quality C Reach: Hickleton_Main_Colli_Houghton_Bec Estimated Distance (km): 2.6 Flow Rate: Flow less than 0.31 cumecs Flow Type: River Year: 2000	A13SW (SW)	87	3	446358 405214

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
18	River Quality Biology Sampling Points Name: Ings/Carr/Thurnscoe Dikes Reach: Hickleton Main Colliery To Houghton Beck Estimated Distance: 2.60 Positional Accuracy: Located by supplier to within 10m Year: 1990 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 1995 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2000 GQA Grade: River Quality Biology GQA Grade F - Bad Year: 2002 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2003 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2004 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2005 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2006 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2007 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2008 GQA Grade: River Quality Biology GQA Grade D - Fair Year: 2009 GQA Grade: River Quality Biology GQA Grade D - Fair	A13SW (S)	274	3	446412 405017
19	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 22nd July 2013 Incident Reference: 1137194 Water Impact: Category 2 - Significant Incident Air Impact: Category 4 - No Impact Land Impact: Category 4 - No Impact Positional Accuracy: Located by supplier to within 10m Pollutant: Other Pollutant	A13NE (N)	283	3	446524 405657
20	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 4th August 2004 Incident Reference: 256382 Water Impact: Category 4 - No Impact Air Impact: Category 3 - Minor Incident Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Asbestos Waste	A14NW (NE)	445	3	446910 405560
21	Substantiated Pollution Incident Register Authority: Environment Agency - North East Region, Yorkshire Area Incident Date: 12th February 2003 Incident Reference: 136628 Water Impact: Category 4 - No Impact Air Impact: Category 4 - No Impact Land Impact: Category 2 - Significant Incident Positional Accuracy: Located by supplier to within 10m Pollutant: Specific Waste Materials: Vehicles And Vehicle Parts	A18NW (N)	721	3	446189 406060
	Water Abstractions Operator: Hickleton Golf Club Licence Number: 2/27/08/113 Permit Version: 100 Location: Borehole - Coal Measures - Hickleton Doncaster Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): 47 Yearly Rate (m3): 7954 Details: Hickleton Golf Club, Lidgett Lane, Hickleton, Doncaster Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 20th June 1996 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 100m	A15NW (E)	1116	3	447600 405600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Water Abstractions Operator: Hickleton Golf Club Licence Number: 2/27/08/139 Permit Version: 1 Location: Borehole-Coal Measures-Hickleton-Doncaster Authority: Environment Agency, North East Region Abstraction: Golf Courses: Spray Irrigation - Direct Abstraction Type: Water may be abstracted from a single point Source: Groundwater Daily Rate (m3): Not Supplied Yearly Rate (m3): Not Supplied Details: Hickleton Golf Club, Lidgett Lane, Hickleton, Doncaster Authorised Start: 01 April Authorised End: 31 October Permit Start Date: 1st January 2006 Permit End Date: Not Supplied Positional Accuracy: Located by supplier to within 10m	A15NW (E)	1149	3	447632 405610
	Water Abstractions Operator: Thomas Black Limited Licence Number: 2/27/08/095 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): 968 Yearly Rate (m3): 227000 Details: Licence Lapsed 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	A4NE (SE)	1433	3	447300 404100
	Water Abstractions Operator: Thomas Black Limited Licence Number: 2/27/08/102 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): 968 Yearly Rate (m3): 227300 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	A4NE (SE)	1437	3	447300 404095
	Water Abstractions Operator: Barnsley Metropolitan Borough Council Licence Number: 2/27/08/101 Permit Version: Not Supplied Location: Dearne Brickyard Fishing Ponds, Goldthorpe, ROTHERHAM, South Yorkshire Authority: Environment Agency, North East Region Abstraction: Pond level maintenance Abstraction Type: Not Supplied Source: Groundwater Daily Rate (m3): 264 Yearly Rate (m3): 86000 Details: Status: Lapsed 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	(S)	1838	3	446000 403500
	Groundwater Vulnerability Soil Classification: Soils of High Leaching Potential (U) - Soil information for restored mineral workings and urban areas is based on fewer observations than elsewhere. A worst case vulnerability classification (H) assumed, until proved otherwise Map Sheet: Sheet 12 Vale of York Scale: 1:100,000	A13SE (SW)	0	3	446446 405329
	Drift Deposits None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Bedrock Aquifer Designations Aquifer Designation: Secondary Aquifer - A	A13SE (SW)	0	2	446446 405329
	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				
22	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Thurnscoe Dike Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	78	3	446516 405209
23	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (S)	122	3	446443 405166
24	Detailed River Network Lines River Type: Tertiary River River Name: Thurnscoe Dike Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (S)	122	3	446421 405169
25	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (S)	242	3	446494 405045

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
26	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SE (SE)	288	3	446752 405146
27	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A13SW (SW)	292	3	446148 405112
28	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (SW)	338	3	446102 405095
29	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (SW)	338	3	446102 405095
30	Detailed River Network Lines River Type: Secondary River River Name: Thurnscoe Dike Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (E)	345	3	446852 405404
31	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Thurnscoe Dike Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A12SE (W)	370	3	446024 405175

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
32	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (S)	399	3	446574 404897
33	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NW (SW)	416	3	446118 404970
34	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A8NE (SE)	440	3	446708 404901
35	Detailed River Network Lines River Type: Secondary River River Name: Thurnscoe Dike Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Not a Drain Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (E)	490	3	446997 405417
36	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (E)	490	3	446997 405417
37	Detailed River Network Lines River Type: Tertiary River River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (NE)	494	3	446962 405566

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
38	Detailed River Network Lines River Type: Extended Culvert (greater than 50m) River Name: Drain Hydrographic Area: B04 River Flow Type: Primary Flow Path River Surface Level: Below Surface Drain Feature: Drain (ditch, Reen, Rhyne, Drain) Flood Risk: Other Rivers Management Status: Water Course: Not Supplied Name: Water Course: Not Supplied Reference:	A14NW (E)	495	3	446987 405497
	Detailed River Network Offline Drainage None				

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
39	BGS Recorded Landfill Sites Site Name: Brickworks Quarry Location: Thurnscoe, NR DEARNE, South Yorks Authority: British Geological Survey, National Geoscience Information Service Ground Water: Information not available Surface Water: Information not available Geology: N/A Positional Accuracy: Positioned by the supplier Boundary Accuracy: Good	A13NE (N)	51	-	446469 405429
40	Historical Landfill Sites Licence Holder: National Coal Board/Deane Urban District Council Location: Thurnscoe, Near Dearne, South Yorkshire Name: Brickworks Quarry Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04417 First Input Date: 31st December 1950 Last Input Date: 31st December 1980 Specified Waste Type: Deposited Waste included Household Waste EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0539 BGS Ref: 87 Other Ref: 4400/(137), (137)B	A13NE (N)	52	3	446470 405429
41	Historical Landfill Sites Licence Holder: Not Supplied Location: Thurnscoe, Near Dearne, South Yorkshire Name: Lidget Lane Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04418 First Input Date: Not Supplied Last Input Date: Not Supplied Specified Waste Type: Not Supplied EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0534 BGS Ref: Not Supplied Other Ref: (102)D, 4400/(102), (132)B, 4400/0396	A14NW (NE)	493	3	446959 405568
42	Historical Landfill Sites Licence Holder: Barnsley Metropolitan Borough Council Location: Chapel Lane, Thurnscoe, Barnsley Name: Former Railway Cutting Operator Location: Not Supplied Boundary Accuracy: As Supplied Provider Reference: EAHLD04415 First Input Date: 31st July 1978 Last Input Date: 31st July 1982 Specified Waste Type: Deposited Waste included Inert, Industrial, Commercial, Household and Special Waste, and Liquid Sludge EA Waste Ref: 0 Regis Ref: Not Supplied WRC Ref: 4400/0412 BGS Ref: Not Supplied Other Ref: WD20 B196, WD2 B7, WD2 T3, 20B196(9), 4400/0359, 4400/(65), 4400/2D11	A17NE (NW)	818	3	446089 406127
43	Licensed Waste Management Facilities (Locations) Licence Number: 60551 Location: Lidget Lane Ind Est, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Operator Name: J Edwards Waste Management Ltd Operator Location: Not Supplied Authority: Environment Agency - North East Region, Yorkshire Area Site Category: Household, Commercial And Industrial Transfer Stations Licence Status: Modified Issued: 17th October 1994 Last Modified: 11th December 2012 Expires: Not Supplied Suspended: Not Supplied Revoked: Not Supplied Surrendered: Not Supplied IPPC Reference: Not Supplied Positional Accuracy: Located by supplier to within 100m	A14NW (NE)	454	3	446900 405600
	Local Authority Landfill Coverage Name: Barnsley Metropolitan Borough Council - Has supplied landfill data		0	4	446446 405329

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Local Authority Landfill Coverage Name: Doncaster Metropolitan Borough Council - Has supplied landfill data		599	5	446918 405808
44	Local Authority Recorded Landfill Sites Location: Lidget Lane, Thurnscoe Reference: 102 Authority: Doncaster Metropolitan Borough Council, Environmental Services Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A13SW (S)	98	5	446393 405180
45	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 137 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	A18SE (NE)	388	4	446742 405680
46	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 132 Authority: Barnsley Metropolitan Borough Council, Environmental Health and Trading Standards Last Reported Status: Unknown Types of Waste: Not Supplied Date of Closure: Not Supplied Positional Accuracy: Positioned by the supplier Boundary Quality: Moderate	A14NW (NE)	493	4	446965 405556
47	Local Authority Recorded Landfill Sites Location: Not Supplied Reference: 9 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	A17NE (NW)	818	4	446091 406128
48	Potentially Infilled Land (Non-Water) Bearing Ref: NE Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1991	A13NE (NE)	47	-	446509 405421
49	Potentially Infilled Land (Non-Water) Bearing Ref: SW Use: Unknown Filled Ground (Pit, quarry etc) Date of Mapping: 1988	A7NE (SW)	582	-	445899 404961
50	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A13SE (S)	109	-	446448 405166
51	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1906	A13SW (S)	128	-	446399 405168
52	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1956	A13NE (N)	194	-	446456 405567
53	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1851	A14NW (E)	445	-	446953 405390
54	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1894	A8SW (S)	709	-	446289 404595

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
55	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1938	A12SW (W)	769	-	445608 405206
56	Potentially Infilled Land (Water) Use: Unknown Filled Ground (Pond, marsh, river, stream, dock etc) Date of Mapping: 1854	A12NW (W)	937	-	445435 405337
57	Registered Landfill Sites Licence Holder: Barnsley M.B.C. Licence Reference: WD 2 B 7 (WD20 B 196) Site Location: Chapel Lane (II), Thurnscoe, Rotherham, South Yorkshire Licence Easting: 446060 Licence Northing: 406090 Operator Location: Cleansing Div. Smithies La.Dpot, Barnsley, South Yorkshire Authority: Environment Agency - North East Region, Ridings Area Site Category: Landfill - Railway cutting Max Input Rate: Large (Equal to or greater than 75,000 and less than 250,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Status: Licence lapsed/cancelled/defunct/not applicable/surrenderedCancelled Dated: 1st February 1981 Preceded By: Wd 2 D11 (Wd20 B196) Licence: Superseded By: Not Given Licence: Positional Accuracy: Manually positioned to the address or location Boundary Accuracy: Not Applicable Authorised Waste: Construction Ind. Wastes Contaminated Rubbish/Bags/Sacks Empty Used Containers Household + Commercial Waste Ind. Non-Haz. Inert, Non-Flammable Ind. Non-Haz. Potentially Combustible Medical, Surgical, Veterinary Wastes Metal Scrap Old Cars/Vehicles/Trailers Scrap Rubber (Including Tyres) Sewage Sludge Slag, Boiler/Flue Cleanings Tar, Pitch, Bitumen, Asphalts Used Filter Materials \$	A17NE (NW)	796	3	446060 406090

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	Registered Waste Transfer Sites Licence Holder: Ryder & Green Licence Reference: WD20 B1074 MOD 3 Site Location: Lidget Lane Industrial Estate, Albion Drive, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0BA Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Operational as far as is knownOperational Dated: 2nd February 2001 Preceded By: WD20 B1074 MOD 2 Licence: Superseded By: Not Given Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Degradable Commercial Waste - Comprising Degradable Household Waste - Comprising Inert Materials - Comprising Max.Storage Of Degradable Household/Commercial/Industrial Waste Maximum Input Of Commercial Waste Permitted By Licence Maximum Input Of Degrad.Household Waste Permitted By Licence Maximum Input Of Industrial Waste Permitted By Licence Maximum Input Of Inert Waste Permitted By Licence Maximum Input Of Metal Waste Permitted By Licence Maximum Waste Permitted By Licence Metal Waste/Scrap Metal - Comprising Ukw 21.00.00 Inert Materials Ukw 21.01.01 Inert - Rock & Stone Ukw 21.01.02 Inert - Sub-Soils Ukw 21.02.01 Inert - Glass Ukw 21.02.03 Inert - Concrete/Mortar (Not Unused) Ukw 21.03.01 Inert - Moulding Sand/Clay(Not With Organic Binders) Ukw 22.01.01 Gen/Biodeg - Uncontaminated Topsoil Ukw 22.04.01 Gen/Biodeg - Paper & Card Ukw 22.04.02 Gen/Biodeg - Plastic & Polymers (Not Paints/Sealants/Adhesives/Resins) Ukw 22.04.06 Gen/Biodeg - Mixed/Unidentified Textiles Ukw 22.04.07 Gen/Biodeg - Wood/Untreated Timber (Not Sawdust/Shavings/Chippings/Etc) Ukw 22.06.03 Gen/Biodeg - Vegetation/Vegetable Waste Ukw 22.07.03 Gen/Biodeg - Waste Food - Animal Or Mixed Ukw 22.09.01 Gen/Biodeg - Household Waste (Not C.A./Bulky/Garden Waste) Ukw 22.09.02 Gen/Biodeg - Commercial Waste (Including Office Waste) Ukw 22.09.03 Gen/Biodeg - Industrial Waste (Not Canteen Waste) Ukw 23.00.00 Metals & Discarded/Scrap Composite Equipment Ukw 23.01.01 Mixed Ferrous Metal Scrap Ukw 23.02.12 Mixed/Unknown Non-Ferrous Scrap Ukw 23.04.01 White Goods Prohibited Waste: Liquid Wastes Material With Any Haz.Code (H1, H2, H3a,H3b,H4,H5,H6,H7,H8,H9,H10,H11,H12,H13,H14) Other Waste/Waste Not Otherwise Specified Sludge Wastes Special Waste (As In Epa 1990:S62 Of 1996 Regs)	A14NW (NE)	454	3	446900 405600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
58	Registered Waste Transfer Sites Licence Holder: Ryder & Green Licence Reference: WD20 B1074 MOD 2 Site Location: Lidget Lane Industrial Estate, Albion Drive, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0BA Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Small (Equal to or greater than 10,000 and less than 25,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 31st July 1996 Preceded By: WD20 B1074 Licence: Superseded By: WD20 B1074 MOD 3 Licence: Positional Accuracy: Manually positioned to the road within the address or location Boundary Quality: Not Supplied Authorised Waste: Com. & Ind. Non-Haz. Waste Inert/Non-Combust. Constr'N/Demol. Max.Waste Permitted By Licence Non-Haz. Constr'N/Demol. Wastes Non-Putrescible Domestic Waste Prohibited Waste: Asbestos In Any Form Incl. Bonded Asbestos Liquid Wastes Putrescible Waste Sludge Wastes Waste N.O.S.	A14NW (NE)	454	3	446900 405600
58	Registered Waste Transfer Sites Licence Holder: Ryder & Green Licence Reference: WD20 B1074 Site Location: Lidget Lane Industrial Estate, Albion Drive, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0BA Operator Location: As Site Address Authority: Environment Agency - North East Region, Ridings Area Site Category: Transfer Max Input Rate: Very Small (Less than 10,000 tonnes per year) Waste Source: No known restriction on source of waste Restrictions: Licence Status: Record supersededSuperseded Dated: 17th October 1994 Preceded By: Not Given Licence: Superseded By: WD20 B1074 MOD 2 Licence: Positional Accuracy: Approximate location provided by supplier Boundary Quality: Not Supplied Authorised Waste: Com. & Ind. Non-Haz. Waste Household Waste Max.Stor. Max.Waste Permitted By Licence Non-Haz. Waste From Building Trade Prohibited Waste: Asbestos Bonded Asbestos Liquid Wastes Putrescible Waste Sludge Wastes	A14NW (NE)	454	3	446900 405600

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	BGS 1:625,000 Solid Geology Description: Pennine Upper Coal Measures Formation	A13SE (SW)	0	2	446446 405329
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SW)	0	2	446446 405329
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A13SE (SE)	63	2	446503 405219
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A8NW (SW)	455	2	446177 404888
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 30 - 45 mg/kg	A7NE (SW)	505	2	446031 404927
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: 15 - 25 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 60 - 90 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A12SW (SW)	686	2	445755 405000
	BGS Estimated Soil Chemistry Source: British Geological Survey, National Geoscience Information Service Soil Sample Type: Rural Soil Arsenic Concentration: <15 mg/kg Cadmium Concentration: <1.8 mg/kg Chromium Concentration: 40 - 60 mg/kg Lead Concentration: <100 mg/kg Nickel Concentration: 15 - 30 mg/kg	A17SW (NW)	903	2	445752 406000

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
59	BGS Recorded Mineral Sites Site Name: Hickleton Main Colliery No. 1 Shaft Location: , Thurnscoe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13099 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (E)	0	2	446458 405326
60	BGS Recorded Mineral Sites Site Name: Hickleton Main Colliery No. 2 Shaft Location: , Thurnscoe, Barnsley, Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 174784 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SW (W)	15	2	446385 405328
61	BGS Recorded Mineral Sites Site Name: Hickleton Colliery Methane Location: , Thurnscoe, Rotherham, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 11414 Type: Liquid or Gas Extraction Status: Dormant Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Abandoned Mine Methane Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	52	2	446547 405264
61	BGS Recorded Mineral Sites Site Name: Hickleton Main Colliery No. 3 Shaft Location: , Thurnscoe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 174785 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Coal Measures Group Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A13SE (SE)	69	2	446529 405227
62	BGS Recorded Mineral Sites Site Name: Hickleton Brickworks Location: , Thurnscoe East, Thurnscoe, Barnsley, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 13104 Type: Opencast Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Pennine Upper Coal Measures Formation Commodity: Common Clay and Shale Positional Accuracy: Located by supplier to within 10m	A18SE (NE)	384	2	446620 405740
63	BGS Recorded Mineral Sites Site Name: Highgate Colliery Location: , Goldthorpe, Doncaster, South Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 1459 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Shafton Coal (West And South Yorkshire And Derbyshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	705	2	445875 404800

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
63	BGS Recorded Mineral Sites Site Name: Highgate Colliery, No. 2 Shaft Location: , Goldthorpe, Doncaster, Yorkshire Source: British Geological Survey, National Geoscience Information Service Reference: 174782 Type: Underground Status: Ceased Operator: Not Supplied Operator Location: Not Supplied Periodic Type: Carboniferous Geology: Shafton Coal (West And South Yorkshire And Derbyshire) Commodity: Coal - Deep Positional Accuracy: Located by supplier to within 10m	A7NE (SW)	719	2	445885 404770
	BGS Measured Urban Soil Chemistry No data available				
	BGS Urban Soil Chemistry Averages No data available				
	Coal Mining Affected Areas Description: In an area which may be affected by coal mining activity. It is recommended that a coal mining report is obtained from the Coal Authority. Contact details are included in the Useful Contacts section of this report.	A13SE (SW)	0	6	446446 405329
	Mining Instability Mining Evidence: Inconclusive Coal Mining Source: Ove Arup & Partners Boundary Quality: As Supplied	A13SE (SW)	0	-	446446 405329
	Non Coal Mining Areas of Great Britain No Hazard				
	Potential for Collapsible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329
	Potential for Collapsible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	76	2	446502 405207
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	73	2	446522 405445
	Potential for Compressible Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	76	2	446502 405207
	Potential for Compressible Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	98	2	446396 405188
	Potential for Compressible Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	128	2	446609 405220
	Potential for Ground Dissolution Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329
	Potential for Landslide Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329
	Potential for Landslide Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	172	2	446675 405267
	Potential for Landslide Ground Stability Hazards Hazard Potential: Moderate Source: British Geological Survey, National Geoscience Information Service	A13SE (E)	227	2	446736 405302
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13NE (NE)	73	2	446522 405445
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	76	2	446502 405207
	Potential for Running Sand Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SW (S)	98	2	446396 405188
	Potential for Running Sand Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	128	2	446609 405220
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Very Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: No Hazard Source: British Geological Survey, National Geoscience Information Service	A13NE (N)	73	2	446474 405459
	Potential for Shrinking or Swelling Clay Ground Stability Hazards Hazard Potential: Low Source: British Geological Survey, National Geoscience Information Service	A13SE (SE)	76	2	446502 405207
	Radon Potential - Radon Affected Areas Affected Area: The property is in a Lower probability radon area (less than 1% of homes are estimated to be at or above the Action Level). Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329
	Radon Potential - Radon Protection Measures Protection Measure: No radon protective measures are necessary in the construction of new dwellings or extensions Source: British Geological Survey, National Geoscience Information Service	A13SE (SW)	0	2	446446 405329

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
64	Contemporary Trade Directory Entries Name: Public Image Location: Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Screen Process Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NE (N)	24	-	446470 405398
64	Contemporary Trade Directory Entries Name: P W E Accident & Repair Centre Location: 2, Thurnscoe Business Park, Thurnscoe, Rotherham, South Yorkshire, S63 0BH Classification: Car Body Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (N)	29	-	446427 405401
65	Contemporary Trade Directory Entries Name: Coast Controls Ltd Location: Unit 4, Thurnscoe Business Park, Thurnscoe, Rotherham, South Yorkshire, S63 0BH Classification: Engineers - General Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	44	-	446368 405401
66	Contemporary Trade Directory Entries Name: N C S Trailers Ltd Location: Phoenix Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0BD Classification: Commercial Vehicle Bodybuilders & Repairers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (W)	60	-	446333 405353
67	Contemporary Trade Directory Entries Name: G T Tyres & Exhausts Uk Ltd Location: Shirley House, Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0DA Classification: Tyre Dealers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A13NW (NW)	119	-	446350 405479
68	Contemporary Trade Directory Entries Name: Alive Supplies Location: Unit 36, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Cleaning Materials & Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	172	-	446233 405411
69	Contemporary Trade Directory Entries Name: B S R Vehicle Services Location: Whitworth Buildings, Thurnscoe, Rotherham, S63 0EH Classification: Garage Services Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	184	-	446286 405515
69	Contemporary Trade Directory Entries Name: Bob Green Location: Coronation St, Thurnscoe, Rotherham, South Yorkshire, S63 0EQ Classification: Car Body Repairs Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	207	-	446273 405534
70	Contemporary Trade Directory Entries Name: G T Tyres & Exhausts Uk Ltd Location: 17, Vincent Terrace, Thurnscoe, Rotherham, South Yorkshire, S63 0DE Classification: Tyre Dealers Status: Active Positional Accuracy: Automatically positioned to the address	A13NE (NE)	190	-	446684 405440
71	Contemporary Trade Directory Entries Name: Go Mobility Ltd Location: Unit 19-20, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Disability Equipment - Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (NW)	192	-	446217 405430
71	Contemporary Trade Directory Entries Name: Patrick Drake Location: Unit 6, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Cabinet Makers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	206	-	446201 405422

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
71	Contemporary Trade Directory Entries Name: A T Print Location: Unit 13, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Printers Status: Active Positional Accuracy: Automatically positioned to the address	A13NW (W)	212	-	446196 405429
71	Contemporary Trade Directory Entries Name: Go Mobility Ltd Location: Unit 19-20, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Disability Equipment - Manufacturers & Suppliers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	212	-	446196 405429
71	Contemporary Trade Directory Entries Name: Clencoe Design Location: Unit 9, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	212	-	446196 405429
71	Contemporary Trade Directory Entries Name: Kts Location: Unit 11, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Bakery Equipment Manufacturers & Suppliers Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (W)	212	-	446196 405429
71	Contemporary Trade Directory Entries Name: The Fibre Optic Co Location: Unit 12, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Fibre Optics Status: Inactive Positional Accuracy: Manually positioned to the address or location	A13NW (W)	212	-	446196 405429
71	Contemporary Trade Directory Entries Name: Dearne Valley Blinds Location: Unit 37, Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	212	-	446196 405429
71	Contemporary Trade Directory Entries Name: C S Logistics Location: Unit 43, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	215	-	446192 405425
71	Contemporary Trade Directory Entries Name: Donella Location: Unit 43, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	215	-	446192 405425
71	Contemporary Trade Directory Entries Name: Dj Print Location: Unit 23, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	225	-	446187 405440
71	Contemporary Trade Directory Entries Name: Connect Express Ltd Location: Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Distribution Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	231	-	446177 405432
71	Contemporary Trade Directory Entries Name: Brandels Ltd Location: Unit 1 Princess Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Classification: Brewers' Equipment & Services Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A13NW (NW)	263	-	446154 405462

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
72	Contemporary Trade Directory Entries Name: D Greenhall Location: Princess Drive, Thurnscoe, Rotherham, S63 0BL Classification: Tyre Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (W)	270	-	446114 405389
73	Contemporary Trade Directory Entries Name: Bradford Domestic Appliances Location: 32-34, Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0BT Classification: Domestic Appliances - Servicing, Repairs & Parts Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	310	-	446117 405496
74	Contemporary Trade Directory Entries Name: Valley Park Cleaners Location: 9, Dane Street South, Thurnscoe, Rotherham, South Yorkshire, S63 0DW Classification: Cleaning Services - Domestic Status: Inactive Positional Accuracy: Automatically positioned to the address	A13NW (NW)	311	-	446285 405660
75	Contemporary Trade Directory Entries Name: Anderson Hydraulics Location: Heritage House, Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0BJ Classification: Hydraulic Engineers Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	316	-	446812 405460
76	Contemporary Trade Directory Entries Name: Europa Wire Rope Location: Lidget Works, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Ropes & Hawsers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	333	-	446807 405516
76	Contemporary Trade Directory Entries Name: Technical Lifting Solutions Ltd Location: Technical Lifting Solutions, Albion Drive, Barnsley, S63 0BA Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	351	-	446826 405519
76	Contemporary Trade Directory Entries Name: Dearne Valley Foods Ltd Location: Unit 8-9, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Food Products - Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	380	-	446844 405547
77	Contemporary Trade Directory Entries Name: Maan Engineering Ltd Location: Heritage House, Albion Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Hydraulic Engineers Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NW (E)	353	-	446850 405458
77	Contemporary Trade Directory Entries Name: Glentworth Caravans & Leisure Ltd Location: Lidget Lane, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0DA Classification: Caravan Dealers & Manufacturers Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (E)	386	-	446880 405474
77	Contemporary Trade Directory Entries Name: Glentworth Car Sales Location: Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0DA Classification: Car Dealers - Used Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (E)	386	-	446880 405474
78	Contemporary Trade Directory Entries Name: C B R Container Services Location: Unit 9b, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Drums, Kegs, Barrels & Casks Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	354	-	446793 405581

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
78	Contemporary Trade Directory Entries Name: Qualconvey Location: Unit 11, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Materials Handling Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	380	-	446807 405605
78	Contemporary Trade Directory Entries Name: Automate Location: Unit 11, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Garage Services Status: Inactive Positional Accuracy: Manually positioned to the address or location	A14NW (NE)	380	-	446807 405605
78	Contemporary Trade Directory Entries Name: T T Lifting Services Ltd Location: Unit 12f, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Lifting Equipment Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	392	-	446833 405588
78	Contemporary Trade Directory Entries Name: Visibility Ltd Location: Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Drums, Kegs, Barrels & Casks Status: Active Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	405	-	446841 405601
78	Contemporary Trade Directory Entries Name: Maan Engineering Ltd Location: Heritage House, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Hydraulic Systems & Equipment Manufacturers Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A14NW (NE)	405	-	446841 405601
78	Contemporary Trade Directory Entries Name: A J R Fabrications Location: Unit 12h, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Wrought Ironwork Status: Inactive Positional Accuracy: Automatically positioned to the address	A14NW (NE)	406	-	446841 405601
79	Contemporary Trade Directory Entries Name: Lidget Lane Pet Shop Location: 1, Lidget Lane, Thurnscoe, Rotherham, South Yorkshire, S63 0BY Classification: Pet Foods & Animal Feeds Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NE (NW)	386	-	446056 405545
80	Contemporary Trade Directory Entries Name: Marantec Uk Ltd Location: Unit 12J, Lidget Lane Industrial Estate, Albion Dr, Rotherham, South Yorkshire, S63 0BA Classification: Door & Gate Operating Equipment Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NW (NE)	431	-	446886 405578
80	Contemporary Trade Directory Entries Name: K W Electrical Ltd Location: Albion Dr, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Electric Motor Sales & Service Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A14NW (NE)	438	-	446890 405584
80	Contemporary Trade Directory Entries Name: D & G Utilitys Ltd Location: Unit 12a, Albion Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BA Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A14NW (NE)	440	-	446881 405604
81	Contemporary Trade Directory Entries Name: Jacquis Ironing And Laundry Service Location: 42, Stuart Street, Thurnscoe, Rotherham, South Yorkshire, S63 0ED Classification: Ironing & Home Laundry Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	483	-	446285 405840

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
81	Contemporary Trade Directory Entries Name: Jacqui'S Ironing & Laundry Service Location: 42, Stuart Street, Thurnscoe, Rotherham, South Yorkshire, S63 0ED Classification: Ironing & Home Laundry Services Status: Active Positional Accuracy: Automatically positioned to the address	A18SW (N)	483	-	446285 405840
82	Contemporary Trade Directory Entries Name: Chem Care Location: 27, Hanover Street, Thurnscoe, Rotherham, South Yorkshire, S63 0DT Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A18SW (N)	538	-	446412 405909
83	Contemporary Trade Directory Entries Name: Gefco Uk Ltd Location: Fields End Business Park, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0JF Classification: Distribution Services Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	565	-	445932 404945
84	Contemporary Trade Directory Entries Name: Radar Cleaning Services Location: 9, Deightonby Street, Thurnscoe, Rotherham, South Yorkshire, S63 0JB Classification: Carpet, Curtain & Upholstery Cleaners Status: Inactive Positional Accuracy: Automatically positioned to the address	A17SE (NW)	565	-	446055 405819
85	Contemporary Trade Directory Entries Name: South Yorkshire Foiling Location: 5, Fields End Business Park, Thurnscoe, Rotherham, South Yorkshire, S63 0JF Classification: Lamination & Encapsulation Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A7NE (SW)	647	-	445927 404830
86	Contemporary Trade Directory Entries Name: Cape Industrial Services Ltd Location: 2, Fields End Business Park, Thurnscoe, Rotherham, South Yorkshire, S63 0JF Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	696	-	445852 404836
86	Contemporary Trade Directory Entries Name: Carlton Manufacturing Ltd Location: 3, Fields End Business Park, Thurnscoe, Rotherham, S63 0JF Classification: Concrete & Mortar Ready Mixed Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	724	-	445818 404834
87	Contemporary Trade Directory Entries Name: Duane'S Vehicle Recovery Location: 17, Lancaster Street, Thurnscoe, Rotherham, S63 0DZ Classification: Car Breakdown & Recovery Services Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	729	-	446370 406099
88	Contemporary Trade Directory Entries Name: Solarframe Location: Fields End Business Park, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0JF Classification: PVC-U Products - Manufacturers & Suppliers Status: Active Positional Accuracy: Automatically positioned to the address	A7NE (SW)	764	-	445875 404719
89	Contemporary Trade Directory Entries Name: Yorkshire Crystal Location: 6, West Street, Goldthorpe, Rotherham, South Yorkshire, S63 9JU Classification: Glass Engravers & Decorators Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	771	-	446368 404522
90	Contemporary Trade Directory Entries Name: On The Move Design & Print Location: 19, Briton Square, Thurnscoe, Rotherham, South Yorkshire, S63 0HQ Classification: Printers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	782	-	446256 406139

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91	Contemporary Trade Directory Entries Name: Kesscass Scaffolding Services Location: 8, High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0SU Classification: Scaffolding & Work Platforms Status: Inactive Positional Accuracy: Automatically positioned to the address	A12NW (W)	806	-	445566 405344
92	Contemporary Trade Directory Entries Name: Laundarama Location: 71, Doncaster Road, Goldthorpe, Rotherham, South Yorkshire, S63 9HJ Classification: Laundries & Launderettes Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	829	-	446444 404458
93	Contemporary Trade Directory Entries Name: Nissan Mobile Location: 52, Doncaster Road, Goldthorpe, Rotherham, South Yorkshire, S63 9HU Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	844	-	446512 404444
94	Contemporary Trade Directory Entries Name: King Street Garage Location: King Street, Goldthorpe, Rotherham, South Yorkshire, S63 9LY Classification: Plant & Machinery Repairs Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	855	-	446087 404494
94	Contemporary Trade Directory Entries Name: K T Fabrications Location: 39, Kelly Street, Goldthorpe, Rotherham, South Yorkshire, S63 9NB Classification: Gate Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A7SE (SW)	898	-	446063 404457
95	Contemporary Trade Directory Entries Name: P & J Motor Services Location: 13, Elizabeth Street, Goldthorpe, Rotherham, South Yorkshire, S63 9NA Classification: Garage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	857	-	446244 404452
96	Contemporary Trade Directory Entries Name: Goldthorpe Solid Fuels Location: 8, Pickhills Avenue, Goldthorpe, Rotherham, South Yorkshire, S63 9JE Classification: Coal & Smokeless Fuel Merchants & Distributors Status: Inactive Positional Accuracy: Automatically positioned to the address	A9SW (SE)	884	-	446902 404502
97	Contemporary Trade Directory Entries Name: A G Engineering Location: 22b, Briton Street, Thurnscoe, ROTHERHAM, South Yorkshire, S63 0HH Classification: Engineers - General Status: Active Positional Accuracy: Automatically positioned to the address	A18NW (N)	887	-	446311 406253
97	Contemporary Trade Directory Entries Name: Nippon Thompson (Europe) Location: 41, Briton Street, Thurnscoe, Rotherham, South Yorkshire, S63 0HH Classification: Bearing Manufacturers Status: Inactive Positional Accuracy: Automatically positioned to the address	A18NW (N)	907	-	446271 406268
98	Contemporary Trade Directory Entries Name: Arla Foods Location: Beever St, Goldthorpe, Rotherham, South Yorkshire, S63 9HT Classification: Dairies Status: Inactive Positional Accuracy: Manually positioned to the road within the address or location	A8SE (S)	896	-	446524 404392
98	Contemporary Trade Directory Entries Name: Performance Engineering Services Location: Beever st, Goldthorpe, Rotherham, South Yorkshire, S63 9HT Classification: Motor Cycle & Component Manufacturers Status: Active Positional Accuracy: Manually positioned within the geographical locality	A8SE (S)	914	-	446547 404375
98	Contemporary Trade Directory Entries Name: Tansley Haulage Location: 21, Victoria Street, Goldthorpe, Rotherham, South Yorkshire, S63 9HS Classification: Road Haulage Services Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SE (S)	917	-	446488 404371

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
99	Contemporary Trade Directory Entries Name: Tony Casagrande Location: 10a, Market Street, Goldthorpe, Rotherham, South Yorkshire, S63 9HA Classification: Hydraulic Equipment & Accessories - Sales & Service Status: Inactive Positional Accuracy: Automatically positioned to the address	A8SW (S)	919	-	446340 404376
100	Contemporary Trade Directory Entries Name: P & L Minis Location: 34, High Street, Thurnscoe, Rotherham, South Yorkshire, S63 0SU Classification: Car Dealers Status: Inactive Positional Accuracy: Automatically positioned to the address	A11NE (W)	953	-	445426 405429
101	Contemporary Trade Directory Entries Name: True Food International Location: Fieldsend Rd, Goldthorpe, Rotherham, South Yorkshire, S63 9EU Classification: Refrigeration Equipment - Commercial Status: Inactive Positional Accuracy: Manually positioned within the geographical locality	A8SW (S)	980	-	446259 404326
102	Contemporary Trade Directory Entries Name: Smart Blinds Location: 9, Barnsley Road, Goldthorpe, Rotherham, South Yorkshire, S63 9LS Classification: Blinds, Awnings & Canopies Status: Inactive Positional Accuracy: Manually positioned to the address or location	A8SW (S)	982	-	446150 404343
103	Contemporary Trade Directory Entries Name: Dearne Fabrications Location: 2, Gosling Gate Road, Goldthorpe, Rotherham, South Yorkshire, S63 9LU Classification: Tungsten Tool Manufacturers & Distributors Status: Active Positional Accuracy: Automatically positioned to the address	A7SE (S)	991	-	446045 404364
104	Fuel Station Entries Name: Glentworth Filling Station Location: B6411, Thurnscoe, ROTHERHAM, South Yorkshire Brand: 3D Premises Type: Not Applicable Status: Obsolete Positional Accuracy: Manually positioned to the address or location	A14NW (E)	456	-	446956 405458
105	Points of Interest - Commercial Services Name: Oasis Soft Drinks Ltd Location: 1 Thurnscoe Business Park, Thurnscoe, Rotherham, S63 0BH Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NE (N)	24	7	446469 405397
106	Points of Interest - Commercial Services Name: B S R Vehicle Services Location: Whitworth Buildings, Thurnscoe, Rotherham, S63 0EH Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (NW)	184	7	446286 405515
107	Points of Interest - Commercial Services Name: G T Tyres & Exhaust Ltd Location: 17 Vincent Terrace, Thurnscoe, Rotherham, S63 0DE Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NE (NE)	190	7	446684 405440
108	Points of Interest - Commercial Services Name: Connect Express Ltd Location: Unit 32 Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, South Yorkshire, S63 0BL Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A13NW (W)	212	7	446196 405428
108	Points of Interest - Commercial Services Name: Raynors Autos Location: Unit 16-17 Thurnscoe Business Centre, Princess Drive, Thurnscoe, Rotherham, S63 0BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	212	7	446196 405429

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
109	Points of Interest - Commercial Services Name: Raynors Autos Location: Princess Drive, Thurnscoe, Rotherham, S63 0BL Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A13NW (W)	268	7	446115 405386
110	Points of Interest - Commercial Services Name: Automate Location: Unit 11, Albion Drive, Thurnscoe, Rotherham, S63 0BA Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A14NW (NE)	380	7	446807 405605
111	Points of Interest - Commercial Services Name: Gefco Ltd Location: Fields End Business Park, Thurnscoe, Rotherham, S63 0JF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	565	7	445932 404945
111	Points of Interest - Commercial Services Name: Stanton Logistics Location: Fields End Business Park, Thurnscoe, Rotherham, S63 0JF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	566	7	445931 404944
111	Points of Interest - Commercial Services Name: Gefco UK Ltd Location: Fields End Business Park, Thurnscoe, Rotherham, S63 0JF Category: Transport, Storage and Delivery Class Code: Distribution and Haulage Positional Accuracy: Positioned to address or location	A7NE (SW)	566	7	445931 404944
112	Points of Interest - Commercial Services Name: Dearne Valley Location: Holly Edge, Holly Bush Drive, Thurnscoe, Rotherham, S63 0LU Category: Personal, Consumer and other Services Class Code: Vehicle Cleaning Services Positional Accuracy: Positioned to address or location	A17SE (NW)	811	7	445784 405898
113	Points of Interest - Commercial Services Name: Nissan Mobile Location: 52 Doncaster Road, Goldthorpe, Rotherham, S63 9HU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	844	7	446512 404444
113	Points of Interest - Commercial Services Name: Nissan Mobile Location: 52 Doncaster Road, Goldthorpe, Rotherham, S63 9HU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A8SE (S)	844	7	446512 404444
114	Points of Interest - Commercial Services Name: Bailey Automotive Glass Location: 8 Blossom Way, Thurnscoe, Rotherham, S63 0AS Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A17NE (NW)	858	7	445894 406063
115	Points of Interest - Commercial Services Name: B H Motors Location: Gosling Gate Road, Goldthorpe, Rotherham, S63 9LU Category: Repair and Servicing Class Code: Vehicle Repair, Testing and Servicing Positional Accuracy: Positioned to address or location	A7SE (SW)	869	7	446012 404508
116	Points of Interest - Manufacturing and Production Name: Thurnscoe Business Park Location: S63 Category: Industrial Features Class Code: Business Parks and Industrial Estates Positional Accuracy: Positioned to an adjacent address or location	A13NE (NE)	67	7	446573 405387
117	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	315	7	446809 405464

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
117	Points of Interest - Manufacturing and Production Name: Factory Location: S63 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to address or location	A14NW (E)	318	7	446812 405464
118	Points of Interest - Manufacturing and Production Name: Factory Location: S63 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (NE)	409	7	446891 405515
118	Points of Interest - Manufacturing and Production Name: Factory Location: S63 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	417	7	446905 405498
118	Points of Interest - Manufacturing and Production Name: Factory Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A14NW (E)	422	7	446910 405498
119	Points of Interest - Manufacturing and Production Name: Works Location: Not Supplied Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	880	7	446305 406246
119	Points of Interest - Manufacturing and Production Name: Works Location: S63 Category: Industrial Features Class Code: Unspecified Works Or Factories Positional Accuracy: Positioned to an adjacent address or location	A18NW (N)	881	7	446305 406247
120	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: S63 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A13SW (S)	211	7	446358 405089
121	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: S63 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	347	7	446834 405184
122	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: S63 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NW (S)	386	7	446370 404910
123	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: S63 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A8NE (SE)	456	7	446749 404907
124	Points of Interest - Public Infrastructure Name: Thurnscoe Rail Station Location: Holly Bush Drive, S63 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A12NE (NW)	558	7	445919 405654
124	Points of Interest - Public Infrastructure Name: Thurnscoe Station Location: Holly Bush Drive, S63 Category: Public Transport, Stations and Infrastructure Class Code: Railway Stations, Junctions and Halts Positional Accuracy: Positioned to address or location	A12NE (NW)	558	7	445919 405654

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
125	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: S63 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A14SW (E)	561	7	447063 405225
126	Points of Interest - Public Infrastructure Name: Spoil Heap (Disused) Location: S63 Category: Infrastructure and Facilities Class Code: Waste Storage, Processing and Disposal Positional Accuracy: Positioned to an adjacent address or location	A9NW (SE)	674	7	447071 404928
127	Points of Interest - Public Infrastructure Name: Goldthorpe Police Station Location: Goldthorpe Police Station, Barnsley Road, Goldthorpe, Rotherham, S63 9LS Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A8SW (S)	970	7	446162 404352
127	Points of Interest - Public Infrastructure Name: Goldthorpe Police Station Location: Goldthorpe Police Station, Barnsley Road, Goldthorpe, Rotherham, S63 9LS Category: Central and Local Government Class Code: Police Stations Positional Accuracy: Positioned to address or location	A8SW (S)	970	7	446162 404352
128	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	821	7	446734 404502
128	Points of Interest - Recreational and Environmental Name: Playground Location: Doncaster Road, S63 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A8SE (S)	829	7	446727 404491
129	Points of Interest - Recreational and Environmental Name: Playground Location: Welfare Road, S63 Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to address or location	A12NW (W)	905	7	445509 405581
129	Points of Interest - Recreational and Environmental Name: Playground Location: Not Supplied Category: Recreational Class Code: Playgrounds Positional Accuracy: Positioned to an adjacent address or location	A12NW (W)	922	7	445488 405570

Map ID	Details	Quadrant Reference (Compass Direction)	Estimated Distance From Site	Contact	NGR
130	Areas of Adopted Green Belt Authority: Barnsley Metropolitan Borough Council, Planning Department Plan Name: Barnsley Unitary Development Plan Status: Adopted Plan Date: 31st December 2000	A13SW (S)	110	9	446399 405179
131	Areas of Adopted Green Belt Authority: Doncaster Metropolitan Borough Council Plan Name: Doncaster Unitary Development Plan Status: Adopted Plan Date: 31st July 1998	A19SW (NE)	594	10	446911 405808
132	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	A9SW (SE)	903	9	446968 404517
133	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A13SE (SW)	0	11	446446 405329
134	Nitrate Vulnerable Zones Name: Not Supplied Description: Surface Water Source: Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	A19SW (NE)	600	11	446914 405813

Agency & Hydrological	Version	Update Cycle
Contaminated Land Register Entries and Notices Doncaster Metropolitan Borough Council - Environmental Services Rotherham Metropolitan Borough Council - Environmental Health Department Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Wakefield City Metropolitan District Council - Environmental Health	April 2014 April 2014 July 2013 March 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Discharge Consents Environment Agency - North East Region	October 2016	Quarterly
Enforcement and Prohibition Notices Environment Agency - North East Region	March 2013	As notified
Integrated Pollution Controls Environment Agency - North East Region	October 2008	Not Applicable
Integrated Pollution Prevention And Control Environment Agency - North East Region	October 2016	Quarterly
Local Authority Integrated Pollution Prevention And Control Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 June 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Local Authority Pollution Prevention and Controls Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 June 2014 October 2014	Annual Rolling Update 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 Doncaster Metropolitan Borough Council - Environmental Services Wakefield City Metropolitan District Council - Environmental Health Rotherham Metropolitan Borough Council - Planning Department	April 2014 June 2014 June 2014 October 2014	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Nearest Surface Water Feature Ordnance Survey	July 2012	Quarterly
Pollution Incidents to Controlled Waters Environment Agency - North East Region	December 1998	Not Applicable
Prosecutions Relating to Authorised Processes Environment Agency - North East Region	March 2013	As notified
Prosecutions Relating to Controlled Waters Environment Agency - North East Region	March 2013	As notified
River Quality Environment Agency - Head Office	November 2001	Not Applicable
River Quality Biology Sampling Points Environment Agency - Head Office	July 2012	Annually
River Quality Chemistry Sampling Points Environment Agency - Head Office	July 2012	Annually
Substantiated Pollution Incident Register Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	January 2017 January 2017	Quarterly Quarterly
Water Abstractions Environment Agency - North East Region	October 2016	Quarterly
Water Industry Act Referrals Environment Agency - North East Region	October 2016	Quarterly
Groundwater Vulnerability Environment Agency - Head Office	April 2015	Not Applicable

Agency & Hydrological	Version	Update Cycle
Drift Deposits Environment Agency - Head Office	January 1999	Not Applicable
Bedrock Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Superficial Aquifer Designations British Geological Survey - National Geoscience Information Service	August 2015	As notified
Source Protection Zones Environment Agency - Head Office	October 2016	Quarterly
Extreme Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2016	Quarterly
Flooding from Rivers or Sea without Defences Environment Agency - Head Office	November 2016	Quarterly
Areas Benefiting from Flood Defences Environment Agency - Head Office	November 2016	Quarterly
Flood Water Storage Areas Environment Agency - Head Office	November 2016	Quarterly
Flood Defences Environment Agency - Head Office	November 2016	Quarterly
Detailed River Network Lines Environment Agency - Head Office	September 2014	Annually
Detailed River Network Offline Drainage Environment Agency - Head Office	March 2012	Annually
Surface Water 1 in 30 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 100 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water 1 in 1000 year Flood Extent Environment Agency - Head Office	October 2013	As notified
Surface Water Suitability Environment Agency - Head Office	October 2013	As notified
BGS Groundwater Flooding Susceptibility British Geological Survey - National Geoscience Information Service	May 2013	Annually

Waste	Version	Update Cycle
BGS Recorded Landfill Sites British Geological Survey - National Geoscience Information Service	June 1996	Not Applicable
Historical Landfill Sites Environment Agency - Head Office	January 2017	Quarterly
Integrated Pollution Control Registered Waste Sites Environment Agency - North East Region	October 2008	Not Applicable
Licensed Waste Management Facilities (Landfill Boundaries) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	August 2016 August 2016	Quarterly Quarterly
Licensed Waste Management Facilities (Locations) Environment Agency - North East Region - Ridings Area Environment Agency - North East Region - Yorkshire Area	October 2016 October 2016	Quarterly Quarterly
Local Authority Landfill Coverage Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Rotherham Metropolitan Borough Council - Environmental Health Department Wakefield City Metropolitan District Council - Environmental Health	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Local Authority Recorded Landfill Sites Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Doncaster Metropolitan Borough Council - Environmental Services Rotherham Metropolitan Borough Council - Environmental Health Department Wakefield City Metropolitan District Council - Environmental Health	May 2000 May 2000 May 2000 May 2000	Not Applicable Not Applicable Not Applicable Not Applicable
Potentially Infilled Land (Non-Water) Landmark Information Group Limited	December 1999	Not Applicable
Potentially Infilled Land (Water) Landmark Information Group Limited	December 1999	Not Applicable
Registered Landfill Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Transfer Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Registered Waste Treatment or Disposal Sites Environment Agency - North East Region - Ridings Area	March 2003	Not Applicable
Hazardous Substances	Version	Update Cycle
Control of Major Accident Hazards Sites (COMAH) Health and Safety Executive	July 2016	Bi-Annually
Explosive Sites Health and Safety Executive	September 2016	Bi-Annually
Notification of Installations Handling Hazardous Substances (NIHHS) Health and Safety Executive	November 2000	Not Applicable
Planning Hazardous Substance Enforcements Rotherham Metropolitan Borough Council Wakefield City Metropolitan District Council Barnsley Metropolitan Borough Council - Planning Department Doncaster Metropolitan Borough Council	February 2016 February 2016 January 2016 October 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update
Planning Hazardous Substance Consents Rotherham Metropolitan Borough Council Wakefield City Metropolitan District Council Barnsley Metropolitan Borough Council - Planning Department Doncaster Metropolitan Borough Council	February 2016 February 2016 January 2016 October 2015	Annual Rolling Update Annual Rolling Update Annual Rolling Update Annual Rolling Update

Geological	Version	Update Cycle
BGS 1:625,000 Solid Geology British Geological Survey - National Geoscience Information Service	January 2009	Not Applicable
BGS Estimated Soil Chemistry British Geological Survey - National Geoscience Information Service	October 2015	As notified
BGS Recorded Mineral Sites British Geological Survey - National Geoscience Information Service	October 2016	Bi-Annually
CBSCB Compensation District Cheshire Brine Subsidence Compensation Board (CBSCB)	August 2011	Not Applicable
Coal Mining Affected Areas The Coal Authority - Property Searches	March 2014	As notified
Mining Instability Ove Arup & Partners	October 2000	Not Applicable
Non Coal Mining Areas of Great Britain British Geological Survey - National Geoscience Information Service	May 2015	Not Applicable
Potential for Collapsible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Compressible Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Ground Dissolution Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Landslide Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Running Sand Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Potential for Shrinking or Swelling Clay Ground Stability Hazards British Geological Survey - National Geoscience Information Service	June 2015	Annually
Radon Potential - Radon Affected Areas British Geological Survey - National Geoscience Information Service	July 2011	As notified
Radon Potential - Radon Protection Measures British Geological Survey - National Geoscience Information Service	July 2011	As notified
Industrial Land Use	Version	Update Cycle
Contemporary Trade Directory Entries Thomson Directories	November 2016	Quarterly
Fuel Station Entries Catalist Ltd - Experian	November 2016	Quarterly
Gas Pipelines National Grid	July 2014	Quarterly
Points of Interest - Commercial Services PointX	December 2016	Quarterly
Points of Interest - Education and Health PointX	December 2016	Quarterly
Points of Interest - Manufacturing and Production PointX	December 2016	Quarterly
Points of Interest - Public Infrastructure PointX	December 2016	Quarterly
Points of Interest - Recreational and Environmental PointX	December 2016	Quarterly
Underground Electrical Cables National Grid	December 2015	Bi-Annually

Sensitive Land Use	Version	Update Cycle
Ancient Woodland Natural England	August 2016	Bi-Annually
Areas of Adopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Doncaster Metropolitan Borough Council Rotherham Metropolitan Borough Council Wakefield City Metropolitan District Council	November 2016 November 2016 November 2016 November 2016	As notified As notified As notified As notified
Areas of Unadopted Green Belt Barnsley Metropolitan Borough Council - Planning Department Doncaster Metropolitan Borough Council Rotherham Metropolitan Borough Council Wakefield City Metropolitan District Council	November 2016 November 2016 November 2016 November 2016	As notified As notified As notified As notified
Areas of Outstanding Natural Beauty Natural England	January 2017	Bi-Annually
Environmentally Sensitive Areas Natural England	January 2017	Annually
Forest Parks Forestry Commission	April 1997	Not Applicable
Local Nature Reserves Natural England	January 2017	Bi-Annually
Marine Nature Reserves Natural England	January 2017	Bi-Annually
National Nature Reserves Natural England	January 2017	Bi-Annually
National Parks Natural England	August 2016	Bi-Annually
Nitrate Sensitive Areas Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	April 2016	Not Applicable
Nitrate Vulnerable Zones Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA)	October 2015	Annually
Ramsar Sites Natural England	January 2017	Bi-Annually
Sites of Special Scientific Interest Natural England	April 2016	Bi-Annually
Special Areas of Conservation Natural England	January 2017	Bi-Annually
Special Protection Areas Natural England	January 2017	Bi-Annually
World Heritage Sites English Heritage - National Monument Record Centre	September 2015	Bi-Annually

A selection of organisations who provide data within this report

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

Contact	Name and Address	Contact Details
2	British Geological Survey - Enquiry Service British Geological Survey, Kingsley Dunham Centre, Keyworth, Nottingham, Nottinghamshire, NG12 5GG	Telephone: 0115 936 3143 Fax: 0115 936 3276 Email: enquiries@bgs.ac.uk Website: www.bgs.ac.uk
3	Environment Agency - National Customer Contact Centre (NCCC) PO Box 544, Templeborough, Rotherham, S60 1BY	Telephone: 03708 506 506 Email: enquiries@environment-agency.gov.uk
4	Barnsley Metropolitan Borough Council - Environmental Health and Trading Standards Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
5	Doncaster Metropolitan Borough Council - Environmental Services Floor 3, Council House, College Road, Doncaster, South Yorkshire, DN1 1RN	Telephone: 01302 734444 Fax: 01302 734949 Website: www.doncaster.gov.uk
6	The Coal Authority - Property Searches 200 Lichfield Lane, Mansfield, Nottinghamshire, NG18 4RG	Telephone: 0345 762 6848 Fax: 01623 637 338 Email: groundstability@coal.gov.uk
7	PointX 7 Abbey Court, Eagle Way, Sowton, Exeter, Devon, EX2 7HY	Website: www.pointx.co.uk
8	Natural England County Hall, Spetchley Road, Worcester, WR5 2NP	Telephone: 0300 060 3900 Email: enquiries@naturalengland.org.uk Website: www.naturalengland.org.uk
9	Barnsley Metropolitan Borough Council - Planning Department Central Offices, Kendray Street, Barnsley, South Yorkshire, S70 2TN	Telephone: 01226 770770 Fax: 01226 772599 Website: www.barnsley.gov.uk
10	Doncaster Metropolitan Borough Council Danum House, St Sepulchre Gate, Doncaster, South Yorkshire, DN1 1UB	Telephone: 01302 734854 Fax: 01302 734949 Website: www.doncaster.gov.uk
11	Department for Environment, Food and Rural Affairs (DEFRA - formerly FRCA) Government Buildings, Otley Road, Lawnswood, Leeds, West Yorkshire, LS16 5QT	Telephone: 0113 2613333 Fax: 0113 230 0879
12	Environment Agency - Head Office Rio House, Waterside Drive, Aztec West, Almondsbury, Bristol, Avon, BS32 4UD	Telephone: 01454 624400 Fax: 01454 624409
-	Public Health England - Radon Survey, Centre for Radiation, Chemical and Environmental Hazards Chilton, Didcot, Oxfordshire, OX11 0RQ	Telephone: 01235 822622 Fax: 01235 833891 Email: radon@phe.gov.uk Website: www.ukradon.org
-	Landmark Information Group Limited Imperium, Imperial Way, Reading, Berkshire, RG2 0TD	Telephone: 0844 844 9952 Fax: 0844 844 9951 Email: customerservices@landmarkinfo.co.uk Website: www.landmarkinfo.co.uk

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

APPENDIX D

Coal Authority Data



The Coal
Authority

Resolving the **impacts** of mining

CON29M Non-Residential Mining Report

SITE AT HICKLETON
DONCASTER
SOUTH YORKSHIRE

Date of enquiry: 08 February 2017
Date enquiry received: 08 February 2017
Issue date: 08 February 2017

Our reference: 51001377318001
Your reference: 113395959_2|



CON29M Non-Residential Mining Report

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

Client name

LANDMARK INFORMATION GROUP LIMITED

Enquiry address

SITE AT HICKLETON, DONCASTER, SOUTH YORKSHIRE

How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

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



Approximate position of property



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Ordnance Survey Licence number: 100020315

Summary

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

Further recommended reports
Mine entry interpretive report
Mine entry plan and data sheets

For detailed findings, please go to page 4.

Detailed findings

1. Past underground coal mining

The property is in a surface area that could be affected by underground mining in 3 seams of coal at 360m to 730m depth, and last worked in 1949.

Any movement in the ground due to coal mining activity should have stopped.

2. Present underground coal mining

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

3. Future underground coal mining

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

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

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

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

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

4. Mine entries

Within, or within 20 metres of, the boundary of the property there are 3 mine entries, the approximate positions of which are shown on the enquiry boundary plot.

Our records disclose the following information:

446405-010. No treatment details.

446405-002. is filled with hardcore and was capped with a 750mm thick reinforced hexagonal cap in August 1994 and is plugged with concrete to an unknown depth beneath the cap. A 600mm diameter vent is installed through the cap and concrete plug.

446405-001. was filled in 1986 and capped in 1990.

For an additional fee, the Coal Authority can provide a Mine Entry Interpretive Report. The report will provide a separate assessment for the mine entry/entries referred to in this report. It gives an opinion on the likelihood of mining subsidence damage caused from ground movement as a consequence of the mine entry/entries. It also gives details of the remedies available for subsidence damage where the mine entry was sunk in connection with coal mining.

Please note that it may not be possible to produce a report if the main building to the property cannot be identified from Coal Authority plans (ie for development sites and new build).

For further advice on how to order this additional information please visit www.groundstability.com.

5. Coal mining geology

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

6. Past opencast coal mining

The property is within the boundary of an opencast site from which coal has been removed by opencast methods.

7. Present opencast coal mining

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

8. Future opencast coal mining

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

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

9. Coal mining subsidence

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

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

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

10. Mine gas

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

11. Hazards related to coal mining

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

12. Withdrawal of support

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

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

13. Working facilities order

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

14. Payments to owners of former copyhold land

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

15. Information from the Cheshire Brine Subsidence Compensation Board

The property lies outside the Cheshire Brine Compensation District.

Comments on the Coal Authority information

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The boundary plot shows the approximate location of the disused mine entry/entries referred to in this report. For reasons of clarity, mine entry symbols may not be drawn to the same scale as the plan.

Property owners have the benefit of statutory protection (under the Coal Mining Subsidence Act 1991*). This contains provision for the making good, to the reasonable satisfaction of the owner, of physical damage from disused coal mine workings including disused coal mine entries. A leaflet setting out the rights and obligations of either the Coal Authority or other responsible persons under the 1991 Act can be obtained by visiting www.groundstability.com.

If you wish to discuss the relevance of any of the information contained in this report, you should seek the advice of a qualified mining engineer or surveyor. If you or your advisor wish to examine the source plans from which the information has been taken, these are available to view, free of charge, at our Head Office in Mansfield. To book an appointment please ring 01623 637225. Should you or your advisor wish to carry out a physical investigation that may enter, disturb or interfere with any disused mine entry, prior permission of the owner must be sought. For coal mine entries, the owner will normally be the Coal Authority.

The Coal Authority, regardless of responsibility and in conjunction with other public bodies, provide an emergency call out facility in coalfield areas to assess the public safety implications of mining features (including disused mine entries). Our emergency telephone number is 01623 646333.

*Note, this Act does not apply where coal was worked or gotten by virtue of the grant of a gale in the Forest of Dean, or any other part of the Hundred of St. Briavels in the county of Gloucester.

In view of the mining circumstances a prudent developer would seek appropriate technical advice before any works are undertaken.

Therefore if development proposals are being considered, technical advice relating to both the investigation of coal and former coal mines and their treatment should be obtained before

beginning work on site. All proposals should apply good engineering practice developed for mining areas. No development should be undertaken that intersects, disturbs or interferes with any coal or mines of coal without the permission of the Coal Authority. Developers should be aware that the investigation of coal seams/former mines of coal may have the potential to generate and/or displace underground gases and these risks both under and adjacent to the development should be fully considered in developing any proposals. The need for effective measures to prevent gases entering into public properties either during investigation or after development also needs to be assessed and properly addressed. This is necessary due to the public safety implications of any development in these circumstances.

Additional remarks

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

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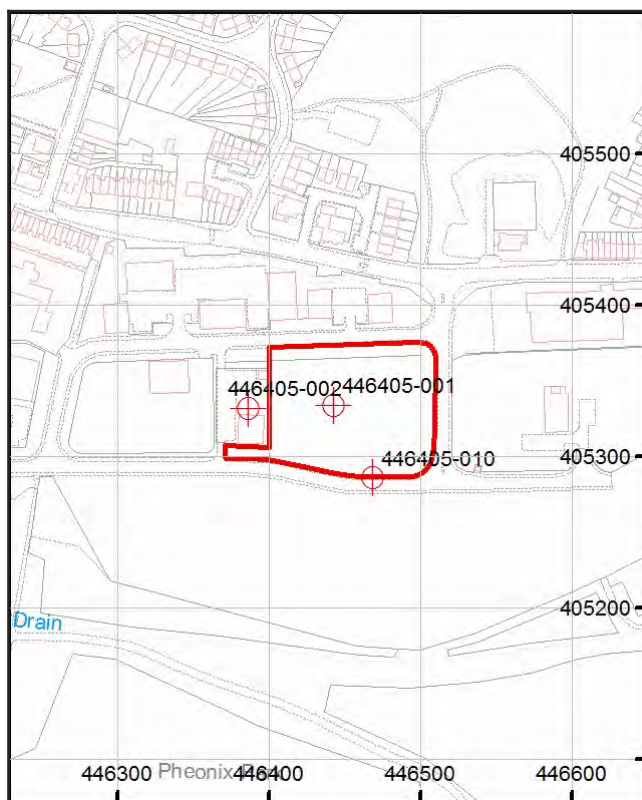
Enquiry boundary

Key

Approximate position of enquiry boundary shown



Disused mineshaft



How to contact us

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

200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RG

www.groundstability.com

 /company/the-coal-authority

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APPENDIX E

South Yorkshire Mining Advisory Service Correspondence

William Dixon

From: SYMAS <SYMAS@barnsley.gov.uk>
Sent: 25 September 2018 08:10
To: William Dixon
Subject: RE: Well

Morning William

I don't have any information on any treatment works. I don't know where WYG got the information from.

Sorry

Paul James BSc (Hons) IQ
Principal Mining Engineer
South Yorkshire Mining Advisory Service

Office: SYMAS, Barnsley Metropolitan Borough Council
Development Service
PO Box 604, Barnsley, S70 9FE
Telephone: 01226 772689 **Email:** pauljames@barnsley.gov.uk



From: William Dixon [mailto:William.Dixon@wm-saunders.co.uk]
Sent: 24 September 2018 15:55
To: SYMAS
Subject: RE: Well

williamsaunders architecture : engineering : building consultancy

Paul,

I have found this extract from a WYG report which was completed in 2016. It refers to the well being treated, the date of the installation is the same as the date of the letter that you sent me a copy of. Would you have any details of any SYMAS treatment works? WYG don't provide any further information on this.

Shaft 10:

S10	Co-ordinates: 446470E, 405290N Depth 21.0 metres. Diameter not known. This was proved by drilling to be a well by the South Yorkshire Mining Advisory Service, Barnsley MBC, who installed a reinforced concrete cap on 9 March 1995. 25 July 1997: Excavations adjacent to peg set out at above co-ordinates proved fill materials to a depth of 3.6 metres. Natural ground was not proved. A concrete slab 0.2 metres in thickness, 2.7 metres wide and a minimum of 4 metres in length was located 1 metre to the east of the peg at a depth of 2.8 metres. Further excavation to determine the precise length of this feature was not possible due to the close proximity of pavement and road 3 metres south of the peg position.
-----	---

Kind regards

Will Dixon BSc (Hons) MSc FGS

William Saunders
Sheppard Lockton House,
Cafferata Way,
Newark,
Notts.
NG24 2TN

Tel. 01636 704361

Fax 01636 702809

Mobile

Web sites: www.wm-saunders.co.uk and www.space-for-leisure.co.uk

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From: William Dixon
Sent: 21 September 2018 11:45
To: 'SYMAS' <SYMAS@barnsley.gov.uk>
Subject: RE: Well

Thanks Paul, much appreciated.

Kind regards

Will Dixon BSc (Hons) MSc FGS

From: SYMAS <SYMAS@barnsley.gov.uk>
Sent: 21 September 2018 11:31
To: William Dixon <William.Dixon@wm-saunders.co.uk>
Subject: Well

[See attached](#)

Paul James BSc (Hons) IQ
Principal Mining Engineer

Office: SYMAS, Barnsley Metropolitan Borough Council
Development Service
PO Box 604, Barnsley, S70 9FE
Telephone: 01226 772689 **Email:** pauljames@barnsley.gov.uk



From: William Dixon [<mailto:William.Dixon@wm-saunders.co.uk>]
Sent: 20 September 2018 15:03
To: SYMAS
Subject: RE: NEW CUSTOMER ENQUIRY FOR ACTION

williamsaunders architecture : engineering : building consultancy

Thanks for your help Paul.

Kind regards

Will Dixon BSc (Hons) MSc FGS

William Saunders
Sheppard Lockton House,
Cafferata Way,
Newark,
Notts.
NG24 2TN

Tel. 01636 704361
Fax 01636 702809
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From: SYMAS <SYMAS@barnsley.gov.uk>
Sent: 20 September 2018 14:59
To: William Dixon <William.Dixon@wm-saunders.co.uk>
Subject: RE: NEW CUSTOMER ENQUIRY FOR ACTION

Our scanning facility isn't working at the moment, I will send you them through when its fixed

Regards

Paul James BSc (Hons) IQ
Principal Mining Engineer
South Yorkshire Mining Advisory Service

Office: SYMAS, Barnsley Metropolitan Borough Council
Development Service
PO Box 604, Barnsley, S70 9FE
Telephone: 01226 772689 **Email:** pauljames@barnsley.gov.uk



From: William Dixon [<mailto:William.Dixon@wm-saunders.co.uk>]
Sent: 20 September 2018 14:50
To: SYMAS
Subject: RE: NEW CUSTOMER ENQUIRY FOR ACTION

williamsaunders architecture : engineering : building consultancy

Paul,

Thanks for your information.

Would it be possible to receive a copy of any of these documents?

Kind regards

Will Dixon BSc (Hons) MSc FGS

William Saunders
Sheppard Lockton House,
Cafferata Way,
Newark,
Notts.
NG24 2TN

Tel. 01636 704361
Fax 01636 702809
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From: SYMAS <SYMAS@barnsley.gov.uk>
Sent: 20 September 2018 13:11
To: William Dixon <William.Dixon@wm-saunders.co.uk>
Subject: RE: NEW CUSTOMER ENQUIRY FOR ACTION

William

I have checked our files and can confirm that a suspected shaft was found during reclamation works in Feb 1995. Three boreholes were drilled under the supervision of SYMAS on the 24th Feb 1995. The shaft was interpreted as a Well terminating at 21 deep in Ackworth Rock sandstone and being full of "soft fill and concrete"

Unfortunately I cannot find any reference to any capping/treatments works.

Regards

Paul James BSc (Hons) IQ
Principal Mining Engineer
South Yorkshire Mining Advisory Service

Office: SYMAS, Barnsley Metropolitan Borough Council
Development Service
PO Box 604, Barnsley, S70 9FE
Telephone: 01226 772689 **Email:** pauljames@barnsley.gov.uk



From: William Dixon [<mailto:William.Dixon@wm-saunders.co.uk>]
Sent: 20 September 2018 11:58
To: SYMAS
Subject: RE: NEW CUSTOMER ENQUIRY FOR ACTION

williamsaunders architecture : engineering : building consultancy

Paul,

Thanks for your quick response.

We have a report on the site produced by WYG in 2016. The following has been extracted.

S10

Co-ordinates: 446470E, 405290N

Depth 21.0 metres. Diameter not known.

This was proved by drilling to be a well by the South Yorkshire Mining Advisory Service, Barnsley MBC, who installed a reinforced concrete cap on 9 March 1995.

25 July 1997: Excavations adjacent to peg set out at above co-ordinate proved fill materials to a depth of 3.6 metres. Natural ground was not proved.

A concrete slab 0.2 metres in thickness, 2.7 metres wide and a minimum of 4 metres in length was located 1 metre to the east of the peg at a depth of 2.8 metres.

Further excavation to determine the precise length of this feature was not possible due to the close proximity of pavement and road 3 metres south of the peg position.

This relates to shaft 446405-010 of which the Coal Authority have no treatment details. Are you able to confirm what this report states or provide any relevant information?

Kind regards

Will Dixon BSc (Hons) MSc FGS

William Saunders
Sheppard Lockton House,
Cafferata Way,
Newark,
Notts.
NG24 2TN

Tel. 01636 704361

Fax 01636 702809

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From: SYMAS <SYMAS@barnsley.gov.uk>
Sent: 20 September 2018 11:25
To: William Dixon <William.Dixon@wm-saunders.co.uk>
Subject: RE: NEW CUSTOMER ENQUIRY FOR ACTION

Good Morning

The Coal Authority are the official custodians of mine abandonment plans which will show the shaft Grid references. They should also be able to provide you with the treatment/Cap specifications (if known). You can make an appointment to visit the coal authority mine records office.

Regards

Paul James BSc (Hons) IQ
Principal Mining Engineer
South Yorkshire Mining Advisory Service

Office: SYMAS, Barnsley Metropolitan Borough Council
Development Service
PO Box 604, Barnsley, S70 9FE
Telephone: 01226 772689 Email: pauljames@barnsley.gov.uk

-----Original Message-----

From: BarnsleyMBC
Sent: 20 September 2018 10:51
To: SYMAS
Subject: NEW CUSTOMER ENQUIRY FOR ACTION

Mining Advisory Service

This is a customer enquiry about your service. Please get back to the customer using the details below.

Customer title: Mr

Customer first name: William

Customer last name: Dixon

Customer company name: W M Saunders Partnership

Customer address: WM SAUNDERS PARTNERSHIP LLP, SHEPPARD LOCKTON HOUSE, CAFFERATA WAY, NEWARK ON TRENT, NEWARK, NG24 2TN

Customer email address: william.dixon@wm-saunders.co.uk

Customer telephone number: 01636704361

Details of issue: Good morning,

We are looking into a development on the former Hickleton Colliery site off Barrowfield Road, Thurnscoe, Barnsley. I can send a location plan and a proposed site plan upon response.

There are three mine entries affecting the site. 446405-010, 446405-002 and 446405-001. Would you be able to

provide accurate grid references and treatment details on these shafts (including levels of the tops of the caps if available) and any other relevant advise?

Would you also be able to provide appropriate stand of distances to buildings and any other relevant features?

We have purchased a non-residential mining report from the coal authority and I have also approached them regarding shaft locations and treatment details. If there is any further information you require from me don't hesitate to get in touch.

Will Dixon

Please do not reply to this email. It is an auto generated email.

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From: symas@barnsley.gov.uk

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MINERAL REPORT

IMCL Ref.	British Coal Ref.	Depth (m)	Co-ordinates
9	1522	2.74	E) 446705 N) 405353
8	1523	2.74	E) 446742 N) 405332
7	1524	4.57	E) 446766 N) 405387
6	1525	8.80	E) 446785 N) 405396

4. Well(IMCL Shaft No. 10)

On the 20th February, 1995, what was thought to be a possible mineshaft was unearthed in reclamation works on the Hickleton Colliery Site. However, subsequent investigations on the 24th February, by drilling 3 boreholes, proved that a well to the Ackworth Rock sandstone at 21 m deep had been discovered.

It is understood that no treatment works were implemented as the well fell just outside of the development works at that time.

Hickleton colliery drift formed a roadway driven from the surface at a gradient of 1 in 6.7 down to underground workings in the Shafton Seam. The drift was the main return airway of the ventilation system for nearby Goldthorpe Colliery, which is now closed.

The IMCL report states that the adit entrance was then demolished and a stopping installed some 300 m inbye and the drift roadway filled with stone back to the surface.

Former ventilation shaft No. 5 is recorded to have been filled with hardcore and a concrete capping installed at the surface. A gas vent was laid as part of these works which presently emerges at Shaft No. 4 where gas levels are monitored by the Coal Authority.

Two thin seams of coal are shown on geological records to outcrop at the locations marked on the attached drawing M4186/1, with the upper seam (thickness 400 mm) being encountered in excavation works for the new road access from Lidget Lane in January 1992.

The lower 'Thin Coal Seam' has a thickness of 600 mm and was worked circa 1890 by partial extraction workings under the east part of the site, from the four mineshafts referred to above. This area of old workings is proposed to be excavated out as part of the EP reclamation scheme, with details being shown as their consultant's (IMCL) drawing No. 3454/P/03. The intention is to stabilise the area for development purposes by removing the shallow mineworkings and associated mineshafts, together with the section of surface drift passing through the excavation. The current gas-venting facility at Shaft No. 4 being transferred to a new compound at Shaft No. 5, adjacent to Lidget Lane.

USED SURFACE
RIFT

PROPOSALS IN THE
THIN SEAM

SOUTH YORKSHIRE MINING ADVISORY SERVICE

Subject: HICKLETON COLLIERY RECLAMATION

Our Ref: IJ/SML

Date: 9th March, 1995

On Friday 24th February, 1995, I supervised the drilling of 3 boreholes at the above location, to ascertain whether the brick structure found during the roadworks was a shaft or a well.

Borehole 1

0.00 - 21.00	soft fill and concrete
21.00 - 22.00	solid (wet)

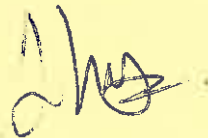
Borehole 2

0.00 - 6.00	soft fill and clay	water at 4.5 m
6.00 - 6.50	solid	

Borehole 3

0.00 - 5.70	soft fill and clay	water at 4.7 m
5.70 - 6.50	solid	

From the details shown in the Hickleton Shaft Section book, this would indicate that the structure was a well sunk into the Ackworth Rock.

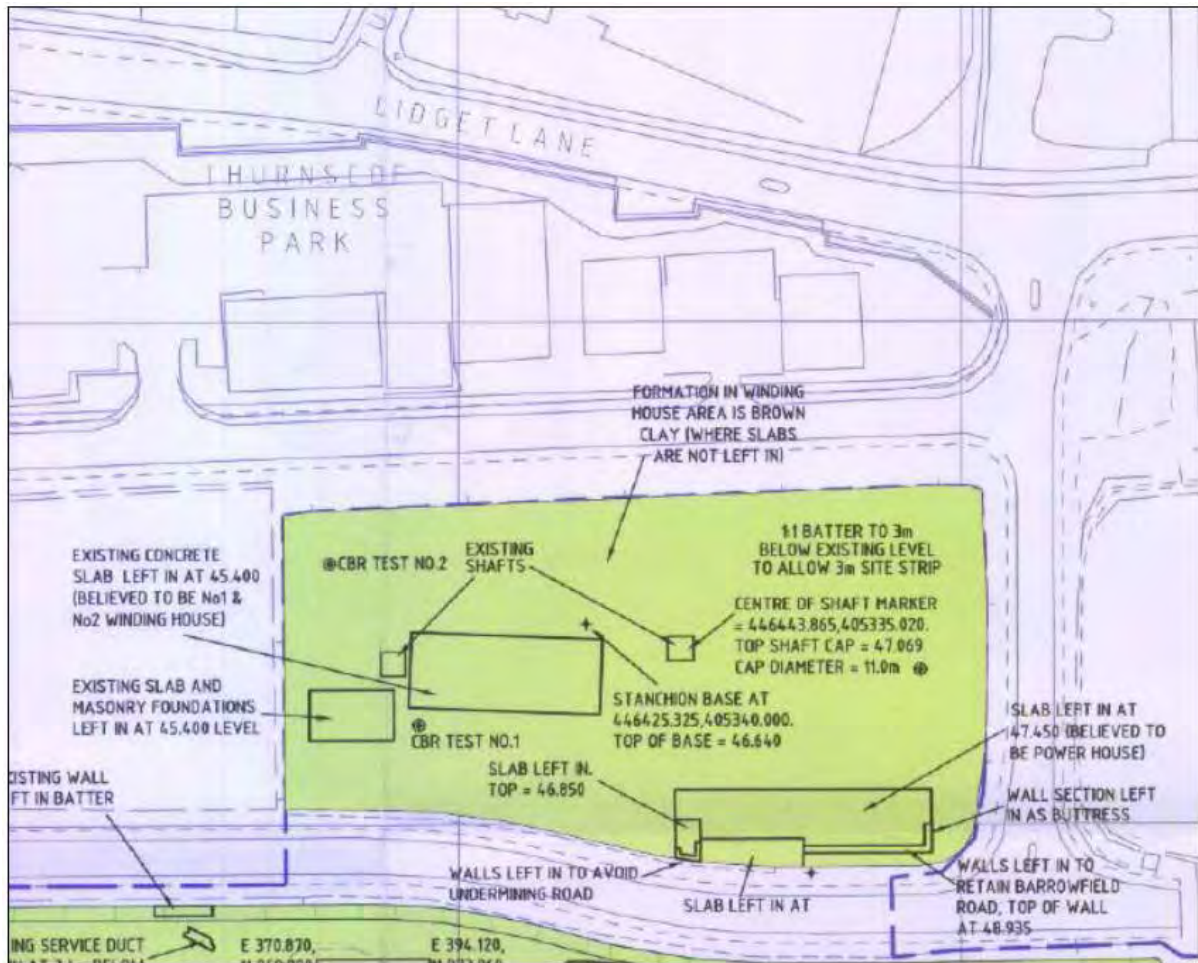


I. Johnson,
Senior Building Inspector.



APPENDIX F

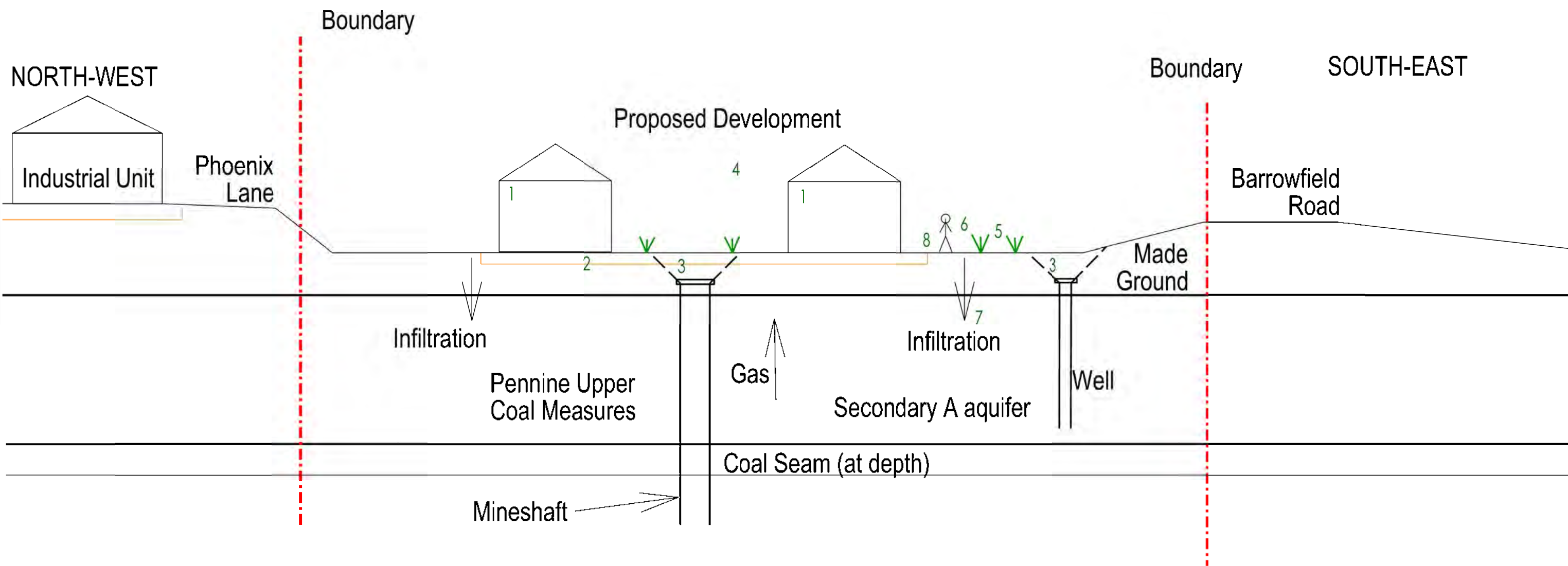
Site Conditions



(WYG, Hickleton Colliery Ground Conditions Review. For Homes and Communities Agency. Report Number: RT97680-01.)

APPENDIX G

Conceptual Site Model



On Site		
Pathway	Receptors	
1	Migration and accumulation of ground gas indoors	End users
2	Chemical attack on sub-surface structures	Built environment
3	Subsidence of structure/ damage to shaft cap	Built environment

Off Site		
Pathway	Receptors	
4	Migration of ground gas to the open air	End users
5	Uptake by vegetation	Vegetation
6	Direct/indirect ingestion of soil/dust/vegetation	End users
7	Leaching into controlled waters	Perched water/aquifer/marsh area/watercourses
8	Skin contact	End users

As outlined in section 2.3 of the CITB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: 

☐ No significant risks have been identified.

☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature

Date

Project Hickleton Colliery, Thurnscoe				Title Preliminary Conceptual Site Model			
Client Priority Space Ltd				Drawing Status Sketch			
Rev.	Description	Vfd	Date	Drawn WD	Date Feb 2017	Scale not to scale @ A3	
				Discipline Civils	Project Number 11525	Drawing Number	Revision

williamsaunders

architecture: engineering: building consultancy

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